

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ24494-002

Matrix: Aqueous

Batch: 24494

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	109	46-153	12/29/2009 2101
Benzene	50	48		1	96	70-130	12/29/2009 2101
Bromodichloromethane	50	55		1	111	70-130	12/29/2009 2101
Bromoform	50	63		1	125	70-130	12/29/2009 2101
Bromomethane (Methyl bromide)	50	57		1	113	60-140	12/29/2009 2101
2-Butanone (MEK)	100	110		1	109	60-140	12/29/2009 2101
Carbon disulfide	50	56		1	113	60-140	12/29/2009 2101
Carbon tetrachloride	50	61		1	123	70-130	12/29/2009 2101
Chlorobenzene	50	50		1	100	70-130	12/29/2009 2101
Chloroethane	50	58		1	116	42-163	12/29/2009 2101
Chloroform	50	52		1	103	70-130	12/29/2009 2101
Chloromethane (Methyl chloride)	50	54		1	107	20-158	12/29/2009 2101
Cyclohexane	50	63		1	127	70-130	12/29/2009 2101
1,2-Dibromo-3-chloropropane (DBCP)	50	62		1	125	70-130	12/29/2009 2101
Dibromochloromethane	50	59		1	119	70-130	12/29/2009 2101
1,2-Dibromoethane (EDB)	50	55		1	109	70-130	12/29/2009 2101
1,4-Dichlorobenzene	50	65		1	129	70-130	12/29/2009 2101
1,2-Dichlorobenzene	50	51		1	101	70-130	12/29/2009 2101
1,3-Dichlorobenzene	50	64		1	128	70-130	12/29/2009 2101
Dichlorodifluoromethane	50	62		1	124	60-140	12/29/2009 2101
1,2-Dichloroethane	50	50		1	101	70-130	12/29/2009 2101
1,1-Dichloroethane	50	50		1	101	70-130	12/29/2009 2101
cis-1,2-Dichloroethene	50	50		1	100	70-130	12/29/2009 2101
1,1-Dichloroethene	50	57		1	114	70-130	12/29/2009 2101
trans-1,2-Dichloroethene	50	52		1	105	70-130	12/29/2009 2101
1,2-Dichloropropane	50	51		1	103	70-130	12/29/2009 2101
cis-1,3-Dichloropropene	50	56		1	111	70-130	12/29/2009 2101
trans-1,3-Dichloropropene	50	57		1	115	70-130	12/29/2009 2101
Ethylbenzene	50	53		1	107	70-130	12/29/2009 2101
2-Hexanone	100	100		1	104	60-140	12/29/2009 2101
Isopropylbenzene	50	57		1	114	70-130	12/29/2009 2101
Methyl acetate	50	55		1	111	15-128	12/29/2009 2101
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	12/29/2009 2101
4-Methyl-2-pentanone	100	100		1	101	60-140	12/29/2009 2101
Methylcyclohexane	50	65		1	130	70-130	12/29/2009 2101
Methylene chloride	50	57		1	115	70-130	12/29/2009 2101
Styrene	50	56		1	113	70-130	12/29/2009 2101
1,1,2,2-Tetrachloroethane	50	56		1	112	70-130	12/29/2009 2101
Tetrachloroethene	50	57		1	113	70-130	12/29/2009 2101
Toluene	50	51		1	101	70-130	12/29/2009 2101
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	63		1	126	70-130	12/29/2009 2101
1,2,4-Trichlorobenzene	50	66	N	1	133	70-130	12/29/2009 2101
1,1,2-Trichloroethane	50	54		1	109	70-130	12/29/2009 2101
1,1,1-Trichloroethane	50	57		1	114	70-130	12/29/2009 2101

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ24494-002

Matrix: Aqueous

Batch: 24494

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	53		1	106	70-130	12/29/2009 2101
Trichlorofluoromethane	50	61		1	121	60-140	12/29/2009 2101
Vinyl chloride	50	53		1	105	60-140	12/29/2009 2101
Xylenes (total)	100	110		1	107	70-130	12/29/2009 2101
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		107	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ24494-003

Matrix: Aqueous

Batch: 24494

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	120		1	116	6.3	46-153	20	12/29/2009 2122
Benzene	50	47		1	95	1.8	70-130	20	12/29/2009 2122
Bromodichloromethane	50	54		1	109	1.9	70-130	20	12/29/2009 2122
Bromoform	50	63		1	126	0.65	70-130	20	12/29/2009 2122
Bromomethane (Methyl bromide)	50	53		1	106	7.0	60-140	20	12/29/2009 2122
2-Butanone (MEK)	100	110		1	113	2.9	60-140	20	12/29/2009 2122
Carbon disulfide	50	57		1	113	0.13	60-140	20	12/29/2009 2122
Carbon tetrachloride	50	61		1	122	1.0	70-130	20	12/29/2009 2122
Chlorobenzene	50	49		1	98	2.2	70-130	20	12/29/2009 2122
Chloroethane	50	58		1	116	0.17	42-163	20	12/29/2009 2122
Chloroform	50	51		1	101	1.5	70-130	20	12/29/2009 2122
Chloromethane (Methyl chloride)	50	55		1	109	1.8	20-158	20	12/29/2009 2122
Cyclohexane	50	62		1	125	1.5	70-130	20	12/29/2009 2122
1,2-Dibromo-3-chloropropane (DBCP)	50	64		1	129	3.3	70-130	20	12/29/2009 2122
Dibromochloromethane	50	59		1	118	0.62	70-130	20	12/29/2009 2122
1,2-Dibromoethane (EDB)	50	54		1	108	0.70	70-130	20	12/29/2009 2122
1,4-Dichlorobenzene	50	63		1	126	2.8	70-130	20	12/29/2009 2122
1,2-Dichlorobenzene	50	49		1	98	2.9	70-130	20	12/29/2009 2122
1,3-Dichlorobenzene	50	63		1	126	2.2	70-130	20	12/29/2009 2122
Dichlorodifluoromethane	50	61		1	121	2.6	60-140	20	12/29/2009 2122
1,2-Dichloroethane	50	50		1	101	0.25	70-130	20	12/29/2009 2122
1,1-Dichloroethane	50	50		1	100	0.67	70-130	20	12/29/2009 2122
cis-1,2-Dichloroethene	50	49		1	99	1.1	70-130	20	12/29/2009 2122
1,1-Dichloroethene	50	57		1	114	0.27	70-130	20	12/29/2009 2122
trans-1,2-Dichloroethene	50	52		1	103	1.4	70-130	20	12/29/2009 2122
1,2-Dichloropropane	50	51		1	102	0.95	70-130	20	12/29/2009 2122
cis-1,3-Dichloropropene	50	55		1	110	1.4	70-130	20	12/29/2009 2122
trans-1,3-Dichloropropene	50	57		1	114	0.32	70-130	20	12/29/2009 2122
Ethylbenzene	50	52		1	104	2.4	70-130	20	12/29/2009 2122
2-Hexanone	100	110		1	109	4.4	60-140	20	12/29/2009 2122
Isopropylbenzene	50	56		1	111	2.4	70-130	20	12/29/2009 2122
Methyl acetate	50	57		1	113	2.2	15-128	20	12/29/2009 2122
Methyl tertiary butyl ether (MTBE)	50	50		1	101	0.99	70-130	20	12/29/2009 2122
4-Methyl-2-pentanone	100	110		1	105	3.7	60-140	20	12/29/2009 2122
Methylcyclohexane	50	64		1	128	1.7	70-130	20	12/29/2009 2122
Methylene chloride	50	56		1	113	1.5	70-130	20	12/29/2009 2122
Styrene	50	55		1	111	1.9	70-130	20	12/29/2009 2122
1,1,2,2-Tetrachloroethane	50	57		1	115	2.6	70-130	20	12/29/2009 2122
Tetrachloroethene	50	55		1	110	2.5	70-130	20	12/29/2009 2122
Toluene	50	50		1	100	1.8	70-130	20	12/29/2009 2122
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	62		1	124	1.9	70-130	20	12/29/2009 2122
1,2,4-Trichlorobenzene	50	65		1	130	2.3	70-130	20	12/29/2009 2122
1,1,2-Trichloroethane	50	54		1	108	0.85	70-130	20	12/29/2009 2122
1,1,1-Trichloroethane	50	56		1	113	1.3	70-130	20	12/29/2009 2122

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ24494-003

Matrix: Aqueous

Batch: 24494

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	52		1	103	2.9	70-130	20	12/29/2009 2122
Trichlorofluoromethane	50	59		1	118	2.4	60-140	20	12/29/2009 2122
Vinyl chloride	50	53		1	105	0.24	60-140	20	12/29/2009 2122
Xylenes (total)	100	100		1	104	2.2	70-130	20	12/29/2009 2122
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		102	70-130						
1,2-Dichloroethane-d4		104	70-130						
Toluene-d8		107	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: KQ24263-001

Matrix: Aqueous

Batch: 24263

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2009 2015

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,1'-Biphenyl	ND		1	1.0	0.20	ug/L	01/05/2010 2120
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	01/05/2010 2120
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	01/05/2010 2120
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	01/05/2010 2120
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	01/05/2010 2120
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	01/05/2010 2120
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	01/05/2010 2120
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	01/05/2010 2120
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	01/05/2010 2120
2-Chlorophenol	ND		1	1.0	0.13	ug/L	01/05/2010 2120
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	01/05/2010 2120
2-Methylphenol	ND		1	1.0	0.17	ug/L	01/05/2010 2120
2-Nitroaniline	ND		1	2.0	0.55	ug/L	01/05/2010 2120
2-Nitrophenol	ND		1	2.0	0.27	ug/L	01/05/2010 2120
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	01/05/2010 2120
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	01/05/2010 2120
3-Nitroaniline	ND		1	2.0	0.77	ug/L	01/05/2010 2120
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	01/05/2010 2120
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	01/05/2010 2120
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	01/05/2010 2120
4-Chloroaniline	ND		1	1.0	0.13	ug/L	01/05/2010 2120
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	01/05/2010 2120
4-Nitroaniline	ND		1	2.0	0.39	ug/L	01/05/2010 2120
4-Nitrophenol	ND		1	5.0	0.64	ug/L	01/05/2010 2120
Acenaphthene	ND		1	1.0	0.090	ug/L	01/05/2010 2120
Acenaphthylene	ND		1	1.0	0.16	ug/L	01/05/2010 2120
Acetophenone	ND		1	1.0	0.32	ug/L	01/05/2010 2120
Anthracene	ND		1	1.0	0.13	ug/L	01/05/2010 2120
Atrazine	ND		1	1.0	0.20	ug/L	01/05/2010 2120
Benzaldehyde	ND		1	5.0	1.0	ug/L	01/05/2010 2120
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	01/05/2010 2120
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	01/05/2010 2120
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	01/05/2010 2120
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	01/05/2010 2120
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	01/05/2010 2120
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	01/05/2010 2120
bis(2-Chloroethyl)ether	ND		1	1.0	0.13	ug/L	01/05/2010 2120
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	01/05/2010 2120
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120
Caprolactam	ND		1	5.0	1.2	ug/L	01/05/2010 2120
Carbazole	ND		1	1.0	0.25	ug/L	01/05/2010 2120
Chrysene	ND		1	1.0	0.12	ug/L	01/05/2010 2120
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: KQ24263-001

Matrix: Aqueous

Batch: 24263

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2009 2015

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	01/05/2010 2120
Dibenzofuran	ND		1	1.0	0.16	ug/L	01/05/2010 2120
Diethylphthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	01/05/2010 2120
Fluoranthene	ND		1	1.0	0.21	ug/L	01/05/2010 2120
Fluorene	ND		1	1.0	0.10	ug/L	01/05/2010 2120
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	01/05/2010 2120
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	01/05/2010 2120
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	01/05/2010 2120
Hexachloroethane	ND		1	1.0	0.11	ug/L	01/05/2010 2120
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	01/05/2010 2120
Isophorone	ND		1	1.0	0.080	ug/L	01/05/2010 2120
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	01/05/2010 2120
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	01/05/2010 2120
Naphthalene	ND		1	1.0	0.070	ug/L	01/05/2010 2120
Nitrobenzene	ND		1	1.0	0.10	ug/L	01/05/2010 2120
Pentachlorophenol	ND		1	5.0	0.54	ug/L	01/05/2010 2120
Phenanthrene	ND		1	1.0	0.18	ug/L	01/05/2010 2120
Phenol	ND		1	1.0	0.11	ug/L	01/05/2010 2120
Pyrene	ND		1	1.0	0.16	ug/L	01/05/2010 2120
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		62	41-144				
2-Fluorobiphenyl		59	37-129				
2-Fluorophenol		57	24-127				
Nitrobenzene-d5		64	38-127				
Phenol-d5		57	28-128				
Terphenyl-d14		55	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: KQ24263-002

Matrix: Aqueous

Batch: 24263

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2009 2015

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	12		1	59	46-125	01/05/2010 2140
2,4,6-Trichlorophenol	20	12		1	59	36-123	01/05/2010 2140
2,4-Dichlorophenol	20	12		1	59	38-127	01/05/2010 2140
2,4-Dimethylphenol	20	10		1	50	36-110	01/05/2010 2140
2,4-Dinitrophenol	100	57		1	57	33-143	01/05/2010 2140
2,4-Dinitrotoluene	40	23		1	57	55-137	01/05/2010 2140
2,6-Dinitrotoluene	40	24		1	59	53-128	01/05/2010 2140
2-Chloronaphthalene	20	10		1	51	42-132	01/05/2010 2140
2-Chlorophenol	20	12		1	59	40-128	01/05/2010 2140
2-Methylnaphthalene	20	11		1	55	49-122	01/05/2010 2140
2-Methylphenol	20	9.0		1	45	33-122	01/05/2010 2140
2-Nitroaniline	40	23		1	59	48-126	01/05/2010 2140
2-Nitrophenol	40	23		1	58	44-131	01/05/2010 2140
3 & 4-Methylphenol	40	20		1	51	48-112	01/05/2010 2140
3-Nitroaniline	40	18		1	46	29-109	01/05/2010 2140
4,6-Dinitro-2-methylphenol	100	61		1	61	46-151	01/05/2010 2140
4-Bromophenyl phenyl ether	20	12		1	61	49-123	01/05/2010 2140
4-Chloro-3-methyl phenol	20	12		1	61	48-136	01/05/2010 2140
4-Chloroaniline	20	4.3		1	22	18-73	01/05/2010 2140
4-Chlorophenyl phenyl ether	20	12		1	61	34-124	01/05/2010 2140
4-Nitroaniline	40	22		1	56	42-154	01/05/2010 2140
4-Nitrophenol	100	62		1	62	43-145	01/05/2010 2140
Acenaphthene	20	12		1	59	51-130	01/05/2010 2140
Acenaphthylene	20	11		1	56	46-131	01/05/2010 2140
Anthracene	20	11		1	57	48-122	01/05/2010 2140
Benzo(a)anthracene	20	12		1	60	50-143	01/05/2010 2140
Benzo(a)pyrene	20	14		1	68	55-141	01/05/2010 2140
Benzo(b)fluoranthene	20	13		1	64	48-147	01/05/2010 2140
Benzo(g,h,i)perylene	20	12		1	60	48-139	01/05/2010 2140
Benzo(k)fluoranthene	20	12		1	59	48-148	01/05/2010 2140
bis(2-Chloroethoxy)methane	20	11		1	57	46-130	01/05/2010 2140
bis(2-Chloroethyl)ether	20	12		1	59	42-127	01/05/2010 2140
bis(2-Chloroisopropyl)ether	20	11		1	55	36-133	01/05/2010 2140
bis(2-Ethylhexyl)phthalate	20	13		1	64	40-141	01/05/2010 2140
Butyl benzyl phthalate	20	12		1	60	52-142	01/05/2010 2140
Carbazole	20	13		1	63	45-101	01/05/2010 2140
Chrysene	20	12		1	60	51-137	01/05/2010 2140
Di-n-butyl phthalate	20	13		1	64	50-134	01/05/2010 2140
Di-n-octylphthalate	20	12		1	61	50-136	01/05/2010 2140
Dibenzo(a,h)anthracene	20	12		1	60	48-139	01/05/2010 2140
Dibenzofuran	20	12		1	58	45-142	01/05/2010 2140
Diethylphthalate	20	12		1	62	48-124	01/05/2010 2140
Dimethyl phthalate	20	12		1	62	43-122	01/05/2010 2140
Fluoranthene	20	12		1	60	50-124	01/05/2010 2140

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: KQ24263-002

Matrix: Aqueous

Batch: 24263

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2009 2015

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Fluorene	20	12		1	60	39-122	01/05/2010 2140
Hexachlorobenzene	20	12		1	59	46-125	01/05/2010 2140
Hexachlorobutadiene	20	11		1	57	38-121	01/05/2010 2140
Hexachlorocyclopentadiene	100	48		1	48	24-110	01/05/2010 2140
Hexachloroethane	20	12		1	58	32-109	01/05/2010 2140
Indeno(1,2,3-c,d)pyrene	20	12		1	60	49-146	01/05/2010 2140
Isophorone	20	12		1	62	43-118	01/05/2010 2140
N-Nitrosodi-n-propylamine	20	11		1	57	46-135	01/05/2010 2140
N-Nitrosodiphenylamine (Diphenylamine)	20	14		1	68	44-124	01/05/2010 2140
Naphthalene	20	11		1	56	45-118	01/05/2010 2140
Nitrobenzene	20	12		1	59	46-131	01/05/2010 2140
Pentachlorophenol	100	52		1	52	30-137	01/05/2010 2140
Phenanthrene	20	12		1	59	49-122	01/05/2010 2140
Phenol	20	9.8		1	49	35-118	01/05/2010 2140
Pyrene	20	12		1	61	50-130	01/05/2010 2140
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		69	41-144				
2-Fluorobiphenyl		62	37-129				
2-Fluorophenol		55	24-127				
Nitrobenzene-d5		65	38-127				
Phenol-d5		57	28-128				
Terphenyl-d14		55	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: KQ24180-001

Matrix: Aqueous

Batch: 24180

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2009 1413

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0060	ug/L	12/31/2009 2341
4,4'-DDE	ND		1	0.025	0.0060	ug/L	12/31/2009 2341
4,4'-DDT	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
Aldrin	ND		1	0.025	0.0020	ug/L	12/31/2009 2341
alpha-BHC	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
alpha-Chlordane	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
beta-BHC	ND		1	0.025	0.019	ug/L	12/31/2009 2341
delta-BHC	ND		1	0.025	0.0080	ug/L	12/31/2009 2341
Dieldrin	ND		1	0.025	0.0040	ug/L	12/31/2009 2341
Endosulfan I	ND		1	0.025	0.0060	ug/L	12/31/2009 2341
Endosulfan II	ND		1	0.025	0.024	ug/L	12/31/2009 2341
Endosulfan sulfate	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
Endrin	ND		1	0.025	0.0050	ug/L	12/31/2009 2341
Endrin aldehyde	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
Endrin ketone	ND		1	0.025	0.0040	ug/L	12/31/2009 2341
gamma-BHC (Lindane)	ND		1	0.025	0.0050	ug/L	12/31/2009 2341
gamma-Chlordane	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
Heptachlor	ND		1	0.025	0.020	ug/L	12/31/2009 2341
Heptachlor epoxide	ND		1	0.025	0.0030	ug/L	12/31/2009 2341
Methoxychlor	ND		1	0.10	0.014	ug/L	12/31/2009 2341
Toxaphene	ND		1	0.25	0.030	ug/L	12/31/2009 2341
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		62	49-124				
Tetrachloro-m-xylene		86	58-122				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: KQ24180-002

Matrix: Aqueous

Batch: 24180

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2009 1413

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.45		1	91	70-130	01/01/2010 0001
4,4'-DDE	0.50	0.43		1	86	70-130	01/01/2010 0001
4,4'-DDT	0.50	0.42		1	84	70-130	01/01/2010 0001
Aldrin	0.50	0.42		1	83	70-130	01/01/2010 0001
alpha-BHC	0.50	0.42		1	84	70-130	01/01/2010 0001
beta-BHC	0.50	0.39		1	78	70-130	01/01/2010 0001
delta-BHC	0.50	0.44		1	87	70-130	01/01/2010 0001
Dieldrin	0.50	0.45		1	90	70-130	01/01/2010 0001
Endosulfan I	0.50	0.42		1	85	70-130	01/01/2010 0001
Endosulfan II	0.50	0.45		1	90	70-130	01/01/2010 0001
Endosulfan sulfate	0.50	0.46		1	92	70-130	01/01/2010 0001
Endrin	0.50	0.45		1	91	70-130	01/01/2010 0001
Endrin aldehyde	0.50	0.43		1	87	70-130	01/01/2010 0001
gamma-BHC (Lindane)	0.50	0.42		1	84	70-130	01/01/2010 0001
gamma-Chlordane	0.50	0.42		1	85	70-130	01/01/2010 0001
Heptachlor	0.50	0.41		1	83	70-130	01/01/2010 0001
Heptachlor epoxide	0.50	0.42		1	83	70-130	01/01/2010 0001
Methoxychlor	0.50	0.51		1	101	70-130	01/01/2010 0001
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		90	49-124				
Tetrachloro-m-xylene		84	58-122				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: KQ24099-001

Matrix: Aqueous

Batch: 24099

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/22/2009 1500

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.010	0.0040	mg/L	12/30/2009 0234
Barium	ND		1	0.025	0.0075	mg/L	12/30/2009 0234
Cadmium	ND		1	0.0020	0.00060	mg/L	12/30/2009 0234
Chromium	0.0038	J	1	0.0050	0.0021	mg/L	12/30/2009 0234
Lead	ND		1	0.010	0.0019	mg/L	12/30/2009 0234
Selenium	0.0034	J	1	0.010	0.0026	mg/L	12/31/2009 0042
Silver	ND		1	0.0050	0.00040	mg/L	12/31/2009 0042

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: KQ24099-002

Matrix: Aqueous

Batch: 24099

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/22/2009 1500

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.39		1	98	80-120	12/30/2009 0240
Barium	2.0	2.1		1	104	80-120	12/30/2009 0240
Cadmium	0.40	0.38		1	95	80-120	12/30/2009 0240
Chromium	2.0	1.9		1	97	80-120	12/30/2009 0240
Lead	0.40	0.37		1	92	80-120	12/30/2009 0240
Selenium	0.40	0.42		1	105	80-120	12/31/2009 0048
Silver	0.40	0.44		1	109	80-120	12/31/2009 0048

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCSD

Sample ID: KQ24099-003

Matrix: Aqueous

Batch: 24099

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/22/2009 1500

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	0.40	0.39		1	98	0.30	80-120	20	12/30/2009 0245
Barium	2.0	2.1		1	104	0.62	80-120	20	12/30/2009 0245
Cadmium	0.40	0.38		1	95	0.61	80-120	20	12/30/2009 0245
Chromium	2.0	1.9		1	97	0.34	80-120	20	12/30/2009 0245
Lead	0.40	0.35		1	88	4.1	80-120	20	12/30/2009 0245
Selenium	0.40	0.42		1	106	1.3	80-120	20	12/31/2009 0054
Silver	0.40	0.44		1	110	0.80	80-120	20	12/31/2009 0054

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MB

Sample ID: KQ24024-001

Batch: 24024

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/21/2009 1535

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000053	mg/L	12/21/2009 2132

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - LCS

Sample ID: KQ24024-002

Matrix: Aqueous

Batch: 24024

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/21/2009 1535

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	93	85-115	12/21/2009 2134

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - LCSD

Sample ID: KQ24024-003

Matrix: Aqueous

Batch: 24024

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/21/2009 1535

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0019		1	95	2.1	85-115	20	12/21/2009 2137

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.

 106 Vantage Point Drive
 West Columbia, South Carolina 29172
 Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 101525

Client ARCADIS		Report to Contact Janet Christy		Telephone No. / Fax No. / E-mail 864-957-3900		Quote No.
Address 2849 Paces Ferry Rd		Sampler's Signature <i>[Signature]</i>		Maybill No.		Page 1 of 1
City Atlanta		State GA		Zip Code 30339		
Project Name Hunter- HAA-01		Printed Name Erica Maddox		Analysis (Attach list if more space is needed.)		
Project No. GROBHAFS-HO1B-NALTM		P.O. No.		Lot No. KL16017		
Sample ID / Description (Containers for each sample may be combined on one line.)		Date		Time		Remarks / Cooler ID.
HMW-4 (121709)		12/17/09		0920		✓
HAA01-MW-17 (121709)		1150		X		✓
HMW-24 (121709)		1315		X		✓
HMW-23 (121709)		1420		X		✓
HMW-6 (121709)		1540		X		✓
HAA01-MW-16 (121709)		0923		X		✓
TB-03 (121709)		0900		X		✓
Erica Maddox 12/17/09						

Possible Hazard Identification		Sample Disposal		Note: All samples are released for six weeks from receipt unless other arrangements are made.	
☒ Non-hazard	☐ Flammable	☐ Skin Irritant	☐ Poison	☐ Unknown	
Turn Around Time Required (Prior lab approval required for expedited TAT.)		Return to Client		DC Requirements (Specify)	
☒ Standard		☐ Rush (Specify)			
1. Relinquished by <i>[Signature]</i>		Date 12/17/09	Time 1900	1. Received by Fidel	
2. Relinquished by		Date	Time	2. Received by	
3. Relinquished by		Date	Time	3. Laboratory received by <i>[Signature]</i>	
Comments		Date 12/18/09	Time 0830	Date 12/18/09	
		Date	Time	Receipt Temp 3.3 °C	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field Client Copy

Document Number FAD-012 Effective Date: 08-04-02

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Allison Fang

Project Name: Hunter Stewart HAA-01

Project Number: GP08HAFS.H01C.DPCSR

Lot Number: NA31002

Date Completed: 02/02/2012



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** NA31002 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative

ARCADIS U.S., Inc.

Lot Number: NA31002

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: NA31002

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01-MW-12	Aqueous	01/30/2012 1340	01/31/2012
002	HA01-MW-14	Aqueous	01/30/2012 1440	01/31/2012
003	Trip Blank	Aqueous	01/30/2012	01/31/2012

(3 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: NA31002

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	HA01-MW-14	Aqueous	cis-1,2-Dichloroethene	8260B	0.93	J	ug/L	7

(1 detection)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-001			
Description: HA01-MW-12				Matrix: Aqueous			
Date Sampled: 01/30/2012 1340							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1514	BM		76957		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NA31002-001

Description: HA01-MW-12

Matrix: Aqueous

Date Sampled: 01/30/2012 1340

Date Received: 01/31/2012

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 6 of 10

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-002			
Description: HA01-MW-14				Matrix: Aqueous			
Date Sampled: 01/30/2012 1440							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1536	BM		76957		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.93	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NA31002-002
Description: HA01-MW-14	Matrix: Aqueous
Date Sampled: 01/30/2012 1440	
Date Received: 01/31/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-003			
Description: Trip Blank				Matrix: Aqueous			
Date Sampled: 01/30/2012							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1552	BM		76958		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NA31002-003
Description: Trip Blank	Matrix: Aqueous
Date Sampled: 01/30/2012	
Date Received: 01/31/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ76957-001

Matrix: Aqueous

Batch: 76957

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/02/2012 0947
Benzene	ND		1	1.0	0.13	ug/L	02/02/2012 0947
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Bromoform	ND		1	1.0	0.66	ug/L	02/02/2012 0947
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/02/2012 0947
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/02/2012 0947
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/02/2012 0947
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/02/2012 0947
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/02/2012 0947
Chloroethane	ND		1	2.0	0.47	ug/L	02/02/2012 0947
Chloroform	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/02/2012 0947
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/02/2012 0947
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/02/2012 0947
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/02/2012 0947
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/02/2012 0947
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/02/2012 0947
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/02/2012 0947
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/02/2012 0947
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/02/2012 0947
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
2-Hexanone	ND		1	10	0.27	ug/L	02/02/2012 0947
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/02/2012 0947
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/02/2012 0947
Methylene chloride	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Styrene	ND		1	1.0	0.12	ug/L	02/02/2012 0947
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/02/2012 0947
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/02/2012 0947
Toluene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/02/2012 0947
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/02/2012 0947
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/02/2012 0947
Trichloroethene	ND		1	1.0	0.18	ug/L	02/02/2012 0947
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/02/2012 0947
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		98	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: NA31002

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ76957-002

Matrix: Aqueous

Batch: 76957

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	125	70-130	02/02/2012 0823
Benzene	50	56		1	113	70-130	02/02/2012 0823
Bromodichloromethane	50	56		1	112	70-130	02/02/2012 0823
Bromoform	50	63		1	126	70-130	02/02/2012 0823
Bromomethane (Methyl bromide)	50	56		1	111	60-140	02/02/2012 0823
2-Butanone (MEK)	100	110		1	114	60-140	02/02/2012 0823
Carbon disulfide	50	51		1	102	60-140	02/02/2012 0823
Carbon tetrachloride	50	59		1	118	70-130	02/02/2012 0823
Chlorobenzene	50	56		1	112	70-130	02/02/2012 0823
Chloroethane	50	55		1	111	42-163	02/02/2012 0823
Chloroform	50	57		1	115	70-130	02/02/2012 0823
Chloromethane (Methyl chloride)	50	53		1	107	70-130	02/02/2012 0823
Dibromochloromethane	50	57		1	114	70-130	02/02/2012 0823
1,3-Dichlorobenzene	50	56		1	111	70-130	02/02/2012 0823
1,4-Dichlorobenzene	50	55		1	109	70-130	02/02/2012 0823
1,2-Dichlorobenzene	50	56		1	111	70-130	02/02/2012 0823
1,2-Dichloroethane	50	55		1	109	70-130	02/02/2012 0823
1,1-Dichloroethane	50	58		1	116	70-130	02/02/2012 0823
cis-1,2-Dichloroethene	50	58		1	116	70-130	02/02/2012 0823
trans-1,2-Dichloroethene	50	61		1	123	70-130	02/02/2012 0823
1,1-Dichloroethene	50	66	N	1	132	70-130	02/02/2012 0823
1,2-Dichloropropane	50	57		1	114	70-130	02/02/2012 0823
trans-1,3-Dichloropropene	50	56		1	113	70-130	02/02/2012 0823
cis-1,3-Dichloropropene	50	58		1	116	70-130	02/02/2012 0823
Ethylbenzene	50	57		1	113	70-130	02/02/2012 0823
2-Hexanone	100	100		1	104	60-140	02/02/2012 0823
Methyl tertiary butyl ether (MTBE)	50	60		1	119	70-130	02/02/2012 0823
4-Methyl-2-pentanone	100	110		1	107	60-140	02/02/2012 0823
Methylene chloride	50	60		1	119	70-130	02/02/2012 0823
Styrene	50	57		1	114	70-130	02/02/2012 0823
1,1,2,2-Tetrachloroethane	50	57		1	113	60-140	02/02/2012 0823
Tetrachloroethene	50	57		1	113	70-130	02/02/2012 0823
Toluene	50	56		1	112	70-130	02/02/2012 0823
1,2,4-Trichlorobenzene	50	52		1	105	70-130	02/02/2012 0823
1,1,2-Trichloroethane	50	55		1	110	70-130	02/02/2012 0823
1,1,1-Trichloroethane	50	58		1	117	70-130	02/02/2012 0823
Trichloroethene	50	57		1	115	70-130	02/02/2012 0823
Vinyl chloride	50	58		1	116	70-130	02/02/2012 0823
Xylenes (total)	100	120		1	115	70-130	02/02/2012 0823
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ76957-003

Matrix: Aqueous

Batch: 76957

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	100		1	104	19	70-130	20	02/02/2012 0844
Benzene	50	55		1	111	1.7	70-130	20	02/02/2012 0844
Bromodichloromethane	50	55		1	109	2.5	70-130	20	02/02/2012 0844
Bromoform	50	60		1	120	4.9	70-130	20	02/02/2012 0844
Bromomethane (Methyl bromide)	50	54		1	108	2.4	60-140	20	02/02/2012 0844
2-Butanone (MEK)	100	110		1	107	5.8	60-140	20	02/02/2012 0844
Carbon disulfide	50	49		1	98	4.0	60-140	20	02/02/2012 0844
Carbon tetrachloride	50	57		1	113	3.8	70-130	20	02/02/2012 0844
Chlorobenzene	50	55		1	110	2.3	70-130	20	02/02/2012 0844
Chloroethane	50	54		1	108	2.2	42-163	20	02/02/2012 0844
Chloroform	50	55		1	111	3.5	70-130	20	02/02/2012 0844
Chloromethane (Methyl chloride)	50	52		1	104	2.9	70-130	20	02/02/2012 0844
Dibromochloromethane	50	56		1	112	1.8	70-130	20	02/02/2012 0844
1,3-Dichlorobenzene	50	55		1	110	1.4	70-130	20	02/02/2012 0844
1,4-Dichlorobenzene	50	53		1	107	2.6	70-130	20	02/02/2012 0844
1,2-Dichlorobenzene	50	54		1	107	3.5	70-130	20	02/02/2012 0844
1,2-Dichloroethane	50	53		1	107	2.1	70-130	20	02/02/2012 0844
1,1-Dichloroethane	50	57		1	113	2.5	70-130	20	02/02/2012 0844
cis-1,2-Dichloroethene	50	56		1	112	3.5	70-130	20	02/02/2012 0844
trans-1,2-Dichloroethene	50	60		1	119	2.9	70-130	20	02/02/2012 0844
1,1-Dichloroethene	50	64		1	129	2.4	70-130	20	02/02/2012 0844
1,2-Dichloropropane	50	56		1	112	1.7	70-130	20	02/02/2012 0844
trans-1,3-Dichloropropene	50	56		1	113	0.25	70-130	20	02/02/2012 0844
cis-1,3-Dichloropropene	50	57		1	114	1.8	70-130	20	02/02/2012 0844
Ethylbenzene	50	56		1	111	1.9	70-130	20	02/02/2012 0844
2-Hexanone	100	100		1	101	3.1	60-140	20	02/02/2012 0844
Methyl tertiary butyl ether (MTBE)	50	57		1	114	4.1	70-130	20	02/02/2012 0844
4-Methyl-2-pentanone	100	100		1	103	3.4	60-140	20	02/02/2012 0844
Methylene chloride	50	57		1	115	3.6	70-130	20	02/02/2012 0844
Styrene	50	55		1	109	4.1	70-130	20	02/02/2012 0844
1,1,2,2-Tetrachloroethane	50	54		1	107	5.0	60-140	20	02/02/2012 0844
Tetrachloroethene	50	56		1	113	0.78	70-130	20	02/02/2012 0844
Toluene	50	55		1	109	2.6	70-130	20	02/02/2012 0844
1,2,4-Trichlorobenzene	50	51		1	103	1.9	70-130	20	02/02/2012 0844
1,1,2-Trichloroethane	50	55		1	110	0.25	70-130	20	02/02/2012 0844
1,1,1-Trichloroethane	50	57		1	113	3.2	70-130	20	02/02/2012 0844
Trichloroethene	50	56		1	112	2.4	70-130	20	02/02/2012 0844
Vinyl chloride	50	56		1	111	3.8	70-130	20	02/02/2012 0844
Xylenes (total)	100	110		1	111	3.4	70-130	20	02/02/2012 0844
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		100	70-130						
Toluene-d8		99	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: NA31002

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ76958-001

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/02/2012 0849
Benzene	ND		1	1.0	0.13	ug/L	02/02/2012 0849
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Bromoform	ND		1	1.0	0.66	ug/L	02/02/2012 0849
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/02/2012 0849
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/02/2012 0849
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/02/2012 0849
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/02/2012 0849
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/02/2012 0849
Chloroethane	ND		1	2.0	0.47	ug/L	02/02/2012 0849
Chloroform	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/02/2012 0849
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/02/2012 0849
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/02/2012 0849
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/02/2012 0849
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/02/2012 0849
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/02/2012 0849
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/02/2012 0849
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/02/2012 0849
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/02/2012 0849
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
2-Hexanone	ND		1	10	0.27	ug/L	02/02/2012 0849
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/02/2012 0849
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/02/2012 0849
Methylene chloride	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Styrene	ND		1	1.0	0.12	ug/L	02/02/2012 0849
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/02/2012 0849
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/02/2012 0849
Toluene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/02/2012 0849
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/02/2012 0849
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/02/2012 0849
Trichloroethene	ND		1	1.0	0.18	ug/L	02/02/2012 0849
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/02/2012 0849
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: NA31002

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ76958-002

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	106	70-130	02/02/2012 0717
Benzene	50	52		1	104	70-130	02/02/2012 0717
Bromodichloromethane	50	50		1	100	70-130	02/02/2012 0717
Bromoform	50	49		1	98	70-130	02/02/2012 0717
Bromomethane (Methyl bromide)	50	58		1	117	60-140	02/02/2012 0717
2-Butanone (MEK)	100	120		1	117	60-140	02/02/2012 0717
Carbon disulfide	50	53		1	106	60-140	02/02/2012 0717
Carbon tetrachloride	50	56		1	112	70-130	02/02/2012 0717
Chlorobenzene	50	52		1	104	70-130	02/02/2012 0717
Chloroethane	50	59		1	117	42-163	02/02/2012 0717
Chloroform	50	55		1	110	70-130	02/02/2012 0717
Chloromethane (Methyl chloride)	50	67	N	1	134	70-130	02/02/2012 0717
Dibromochloromethane	50	52		1	104	70-130	02/02/2012 0717
1,2-Dichlorobenzene	50	52		1	104	70-130	02/02/2012 0717
1,4-Dichlorobenzene	50	52		1	104	70-130	02/02/2012 0717
1,3-Dichlorobenzene	50	52		1	105	70-130	02/02/2012 0717
1,2-Dichloroethane	50	54		1	109	70-130	02/02/2012 0717
1,1-Dichloroethane	50	54		1	107	70-130	02/02/2012 0717
trans-1,2-Dichloroethene	50	52		1	104	70-130	02/02/2012 0717
cis-1,2-Dichloroethene	50	52		1	104	70-130	02/02/2012 0717
1,1-Dichloroethene	50	55		1	111	70-130	02/02/2012 0717
1,2-Dichloropropane	50	53		1	105	70-130	02/02/2012 0717
trans-1,3-Dichloropropene	50	53		1	105	70-130	02/02/2012 0717
cis-1,3-Dichloropropene	50	55		1	110	70-130	02/02/2012 0717
Ethylbenzene	50	52		1	105	70-130	02/02/2012 0717
2-Hexanone	100	110		1	108	60-140	02/02/2012 0717
Methyl tertiary butyl ether (MTBE)	50	55		1	110	70-130	02/02/2012 0717
4-Methyl-2-pentanone	100	110		1	115	60-140	02/02/2012 0717
Methylene chloride	50	53		1	106	70-130	02/02/2012 0717
Styrene	50	54		1	107	70-130	02/02/2012 0717
1,1,2,2-Tetrachloroethane	50	55		1	109	60-140	02/02/2012 0717
Tetrachloroethene	50	52		1	104	70-130	02/02/2012 0717
Toluene	50	53		1	106	70-130	02/02/2012 0717
1,2,4-Trichlorobenzene	50	52		1	105	70-130	02/02/2012 0717
1,1,1-Trichloroethane	50	54		1	108	70-130	02/02/2012 0717
1,1,2-Trichloroethane	50	51		1	101	70-130	02/02/2012 0717
Trichloroethene	50	53		1	106	70-130	02/02/2012 0717
Vinyl chloride	50	69	N	1	139	70-130	02/02/2012 0717
Xylenes (total)	100	100		1	104	70-130	02/02/2012 0717
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ76958-003

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	71	+	1	71	40	70-130	20	02/02/2012 0740
Benzene	50	52		1	104	0.91	70-130	20	02/02/2012 0740
Bromodichloromethane	50	49		1	98	2.0	70-130	20	02/02/2012 0740
Bromoform	50	45		1	91	7.8	70-130	20	02/02/2012 0740
Bromomethane (Methyl bromide)	50	60		1	119	2.2	60-140	20	02/02/2012 0740
2-Butanone (MEK)	100	100		1	105	11	60-140	20	02/02/2012 0740
Carbon disulfide	50	50		1	101	5.3	60-140	20	02/02/2012 0740
Carbon tetrachloride	50	55		1	110	2.0	70-130	20	02/02/2012 0740
Chlorobenzene	50	52		1	105	0.60	70-130	20	02/02/2012 0740
Chloroethane	50	58		1	117	0.56	42-163	20	02/02/2012 0740
Chloroform	50	52		1	104	5.8	70-130	20	02/02/2012 0740
Chloromethane (Methyl chloride)	50	67	N	1	135	0.92	70-130	20	02/02/2012 0740
Dibromochloromethane	50	51		1	102	2.0	70-130	20	02/02/2012 0740
1,2-Dichlorobenzene	50	52		1	105	0.45	70-130	20	02/02/2012 0740
1,4-Dichlorobenzene	50	53		1	106	1.0	70-130	20	02/02/2012 0740
1,3-Dichlorobenzene	50	54		1	108	2.5	70-130	20	02/02/2012 0740
1,2-Dichloroethane	50	52		1	103	4.9	70-130	20	02/02/2012 0740
1,1-Dichloroethane	50	50		1	100	6.6	70-130	20	02/02/2012 0740
trans-1,2-Dichloroethene	50	49		1	98	6.2	70-130	20	02/02/2012 0740
cis-1,2-Dichloroethene	50	49		1	98	6.0	70-130	20	02/02/2012 0740
1,1-Dichloroethene	50	53		1	105	5.1	70-130	20	02/02/2012 0740
1,2-Dichloropropane	50	51		1	102	3.4	70-130	20	02/02/2012 0740
trans-1,3-Dichloropropene	50	54		1	107	1.9	70-130	20	02/02/2012 0740
cis-1,3-Dichloropropene	50	54		1	108	1.8	70-130	20	02/02/2012 0740
Ethylbenzene	50	54		1	107	2.0	70-130	20	02/02/2012 0740
2-Hexanone	100	98		1	98	9.6	60-140	20	02/02/2012 0740
Methyl tertiary butyl ether (MTBE)	50	50		1	100	9.6	70-130	20	02/02/2012 0740
4-Methyl-2-pentanone	100	100		1	100	13	60-140	20	02/02/2012 0740
Methylene chloride	50	48		1	95	11	70-130	20	02/02/2012 0740
Styrene	50	54		1	108	0.71	70-130	20	02/02/2012 0740
1,1,2,2-Tetrachloroethane	50	51		1	102	6.5	60-140	20	02/02/2012 0740
Tetrachloroethene	50	54		1	108	3.6	70-130	20	02/02/2012 0740
Toluene	50	53		1	106	0.13	70-130	20	02/02/2012 0740
1,2,4-Trichlorobenzene	50	54		1	108	2.9	70-130	20	02/02/2012 0740
1,1,1-Trichloroethane	50	53		1	107	1.5	70-130	20	02/02/2012 0740
1,1,2-Trichloroethane	50	50		1	99	2.0	70-130	20	02/02/2012 0740
Trichloroethene	50	54		1	109	2.5	70-130	20	02/02/2012 0740
Vinyl chloride	50	72	N	1	143	3.2	70-130	20	02/02/2012 0740
Xylenes (total)	100	110		1	107	2.1	70-130	20	02/02/2012 0740
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		97	70-130						
1,2-Dichloroethane-d4		103	70-130						
Toluene-d8		98	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

Telephone No. (803) 791-9700 Fax No. (803) 791-9111

www.shealylab.com

Number 11771

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 9

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: Arca-d's Cooler Inspected by/date: ELU 1/21/12 Lot #: NA 31002

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒ No ☐	1. Were custody seals present on the cooler?	
Yes ☒ No ☐	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt: <u>1-0</u> °C / °C / °C / °C		
Method: ☐ Temperature Blank ☒ Against Bottles		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes ☐ No ☐ NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)	
Yes ☒ No ☐ NA ☐	4. Is the commercial courier's packing slip attached to this form?	
Yes ☒ No ☐ NA ☐	5. Were proper custody procedures (relinquished/received) followed?	
Yes ☐ No ☒ NA ☐	5a Were samples relinquished by client to commercial courier?	
Yes ☒ No ☐ NA ☐	6. Were sample IDs listed?	
Yes ☒ No ☐ NA ☐	7. Was collection date & time listed?	
Yes ☒ No ☐ NA ☐	8. Were tests to be performed listed on the COC?	
Yes ☒ No ☐ NA ☐	9. Did all samples arrive in the proper containers for each test?	
Yes ☒ No ☐ NA ☐	10. Did all container label information (ID, date, time) agree with COC?	
Yes ☒ No ☐ NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?	
Yes ☒ No ☐ NA ☐	12. Was adequate sample volume available?	
Yes ☒ No ☐ NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
Yes ☐ No ☒ NA ☐	14. Were any samples containers missing?	
Yes ☐ No ☒ NA ☐	15. Were there any excess samples not listed on COC?	
Yes ☒ No ☐ NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?	
Yes ☐ No ☐ NA ☒	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?	
Yes ☐ No ☐ NA ☒	18. Were all cyanide and/or sulfide samples received at a pH >12?	
Yes ☐ No ☐ NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?	
Yes ☐ No ☐ NA ☒	20. Were collection temperatures documented on the COC for NC samples?	
Yes ☐ No ☐ NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number)		
Sample(s) <u>1-003 (TS) (2)</u> were received with bubbles >6 mm in diameter.		
Sample(s) _____ TKN/cyanide/BNA/pest/PCB/herb. _____		
Corrective Action taken, if necessary:		
Was client notified: Yes ☐ No ☐		
SESI employee: _____		
Comments: _____		
Company: <u>ARCADIS G & M OF NC INC</u>		
Address: <u>801 CORPORATE CENTER DR</u>		
City: <u>RALEIGH</u> State: <u>NC</u> ZIP: <u>27607-5073</u>		
Internal Billing Reference: <u>68004055 4016</u>		

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Born

Project Name: Hunter Stewart H01

Project Number: GP08HAFS.H01C

Lot Number: NB17010

Date Completed: 03/02/2012



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** NB17010 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative ARCADIS U.S., Inc. Lot Number: NB17010

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The LCS for Endrin aldehyde was outside method control limits in batch 78136. The surrogate recovery for the LCS and sample -001 was outside method control limits in this batch. The associated sample (-002) was re-extracted and re-analyzed outside the holding time. All runs are reported.

Semivolatile Organic Compounds

The LCS/LCSD recovery for 4-Chloroaniline was slightly outside method control limits in batch 78138. As per method, it is statistically likely that a few analytes will be outside control limits; up to five analytes may marginally exceed the control limits. Therefore the associated sample results were reported and no corrective action was required.

The MS/MSD recoveries in batch 78138 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: NB17010

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	H01-MW-7D	Aqueous	02/16/2012 1600	02/17/2012
002	TRIP BLANK	Aqueous	02/16/2012 1600	02/17/2012

(2 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: NB17010

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	H01-MW-7D	Aqueous	Toluene	8260B	0.65	J	ug/L	5
001	H01-MW-7D	Aqueous	bis(2-Ethylhexyl)phthalate	8270D	2.3	J	ug/L	7
001	H01-MW-7D	Aqueous	gamma-BHC (Lindane)	8081B	0.0040	JPH	ug/L	11
001	H01-MW-7D	Aqueous	Barium	6010C	0.012	J	mg/L	12
002	TRIP BLANK	Aqueous	Methylene chloride	8260B	0.66	J	ug/L	13

(5 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/25/2012 1637	LBS		78695		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	0.65	J	1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-001
Description: H01-MW-7D	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run 1	Prep Method 3520C	Analytical Method 8270D	Dilution 1	Analysis Date 02/24/2012 2225	Analyst TAF	Prep Date 02/20/2012 1345	Batch 78138			
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene			83-32-9	8270D	ND		1.1	0.095	ug/L	1
Acenaphthylene			208-96-8	8270D	ND		1.1	0.17	ug/L	1
Anthracene			120-12-7	8270D	ND		1.1	0.14	ug/L	1
Benzo(a)anthracene			56-55-3	8270D	ND		1.1	0.16	ug/L	1
Benzo(a)pyrene			50-32-8	8270D	ND		1.1	0.17	ug/L	1
Benzo(b)fluoranthene			205-99-2	8270D	ND		1.1	0.21	ug/L	1
Benzo(g,h,i)perylene			191-24-2	8270D	ND		1.1	0.24	ug/L	1
Benzo(k)fluoranthene			207-08-9	8270D	ND		1.1	0.13	ug/L	1
4-Bromophenyl phenyl ether			101-55-3	8270D	ND		1.1	0.13	ug/L	1
Butyl benzyl phthalate			85-68-7	8270D	ND		5.3	1.8	ug/L	1
Carbazole			86-74-8	8270D	ND		1.1	0.26	ug/L	1
4-Chloro-3-methyl phenol			59-50-7	8270D	ND		1.1	0.23	ug/L	1
4-Chloroaniline			106-47-8	8270D	ND		1.1	0.14	ug/L	1
bis(2-Chloroethoxy)methane			111-91-1	8270D	ND		1.1	0.14	ug/L	1
bis(2-Chloroisopropyl)ether			108-60-1	8270D	ND		1.1	0.084	ug/L	1
2-Chloronaphthalene			91-58-7	8270D	ND		1.1	0.13	ug/L	1
2-Chlorophenol			95-57-8	8270D	ND		1.1	0.14	ug/L	1
4-Chlorophenyl phenyl ether			7005-72-3	8270D	ND		1.1	0.12	ug/L	1
Chrysene			218-01-9	8270D	ND		1.1	0.13	ug/L	1
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		1.1	0.14	ug/L	1
Dibenzofuran			132-64-9	8270D	ND		1.1	0.17	ug/L	1
3,3'-Dichlorobenzidine			91-94-1	8270D	ND		5.3	0.85	ug/L	1
2,4-Dichlorophenol			120-83-2	8270D	ND		1.1	0.16	ug/L	1
Diethylphthalate			84-66-2	8270D	ND		5.3	1.8	ug/L	1
Dimethyl phthalate			131-11-3	8270D	ND		5.3	1.8	ug/L	1
2,4-Dimethylphenol			105-67-9	8270D	ND		1.1	0.33	ug/L	1
Di-n-butyl phthalate			84-74-2	8270D	ND		5.3	1.8	ug/L	1
4,6-Dinitro-2-methylphenol			534-52-1	8270D	ND		5.3	1.6	ug/L	1
2,4-Dinitrophenol			51-28-5	8270D	ND		5.3	0.26	ug/L	1
2,4-Dinitrotoluene			121-14-2	8270D	ND		2.1	0.47	ug/L	1
2,6-Dinitrotoluene			606-20-2	8270D	ND		2.1	0.42	ug/L	1
Di-n-octylphthalate			117-84-0	8270D	ND		5.3	1.8	ug/L	1
bis(2-Ethylhexyl)phthalate			117-81-7	8270D	2.3	J	5.3	1.8	ug/L	1
Fluoranthene			206-44-0	8270D	ND		1.1	0.22	ug/L	1
Fluorene			86-73-7	8270D	ND		1.1	0.11	ug/L	1
Hexachlorobenzene			118-74-1	8270D	ND		1.1	0.22	ug/L	1
Hexachlorobutadiene			87-68-3	8270D	ND		1.1	0.095	ug/L	1
Hexachlorocyclopentadiene			77-47-4	8270D	ND		5.3	0.24	ug/L	1
Hexachloroethane			67-72-1	8270D	ND		1.1	0.12	ug/L	1
Indeno(1,2,3-c,d)pyrene			193-39-5	8270D	ND		1.1	0.24	ug/L	1
Isophorone			78-59-1	8270D	ND		1.1	0.084	ug/L	1
2-Methylnaphthalene			91-57-6	8270D	ND		1.1	0.084	ug/L	1
2-Methylphenol			95-48-7	8270D	ND		1.1	0.18	ug/L	1
3 & 4-Methylphenol			106-44-5	8270D	ND		2.1	0.60	ug/L	1
PQL = Practical quantitation limit			B = Detected in the method blank			E = Quantitation of compound exceeded the calibration range			H = Out of holding time	
ND = Not detected at or above the MDL			J = Estimated result < PQL and ≥ MDL			P = The RPD between two GC columns exceeds 40%			N = Recovery is out of criteria	
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"					* = Reportable result (only when report all runs)					

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	02/24/2012 2225	TAF	02/20/2012 1345	78138

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.1	0.074	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.1	0.58	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.1	0.81	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.1	0.41	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.1	0.11	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.1	0.28	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.3	0.67	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.1	0.084	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.1	0.40	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.3	0.57	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.1	0.19	ug/L	1
Phenol	108-95-2	8270D	ND		1.1	0.12	ug/L	1
Pyrene	129-00-0	8270D	ND		1.1	0.17	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.1	0.19	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.1	0.23	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		60	24-127
Nitrobenzene-d5		63	38-127
Phenol-d5		69	28-128
Terphenyl-d14		52	10-148
2,4,6-Tribromophenol		78	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Herbicides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8151A	8151A	1	02/22/2012 1751	MPM	02/20/2012 2027	78231				
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
2,4-D			94-75-7	8151A	ND		2.2	0.43	ug/L	1	
2,4,5-T			93-76-5	8151A	ND		0.54	0.11	ug/L	1	
2,4,5-TP (Silvex)			93-72-1	8151A	ND		0.54	0.11	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
DCAA		82	62-117								

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-001
Description: H01-MW-7D	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	02/23/2012 2314	NCM	02/20/2012 1630	78136
2	3520C	8081B	1	03/01/2012 2222	NCM	02/27/2012 1720	78792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND*		0.026	0.0018	ug/L	1
alpha-BHC	319-84-6	8081B	ND*		0.026	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND*		0.026	0.0040	ug/L	1
delta-BHC	319-86-8	8081B	ND*		0.026	0.0011	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.026	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND*		0.026	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND*		0.026	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND*		0.026	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND*		0.026	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND*		0.026	0.0021	ug/L	1
Dieldrin	60-57-1	8081B	ND*		0.026	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND*		0.026	0.0023	ug/L	1
Endosulfan II	33213-65-9	8081B	ND*		0.026	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND*		0.026	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND*		0.026	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND*		0.026	0.0020	ug/L	1
Endrin ketone	53494-70-5	8081B	ND*		0.026	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND*		0.026	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND*		0.026	0.0021	ug/L	1
Methoxychlor	72-43-5	8081B	ND*		0.10	0.0021	ug/L	1
Toxaphene	8001-35-2	8081B	ND*		0.26	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl	N	11	20-131	H	29	20-131		
Tetrachloro-m-xylene		83	26-132	H	91	26-132		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	02/23/2012 2314	NCM	02/20/2012 1630	78136
2	3520C	8081B	1	03/01/2012 2222	NCM	02/27/2012 1720	78792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.026	0.0018	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.026	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.026	0.0041	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.026	0.0011	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	0.0040*	JPH	0.026	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.026	0.0014	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.026	0.0016	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.026	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.026	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.026	0.0021	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.026	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.026	0.0023	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.026	0.0016	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.026	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.026	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	ND	H	0.026	0.0020	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.026	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.026	0.014	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.026	0.0021	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0021	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.26	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl	N	11	20-131	H	29	20-131		
Tetrachloro-m-xylene		83	26-132	H	91	26-132		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	02/21/2012 2050	COH	02/21/2012 1725	78310
1	3005A	6010C	1	02/22/2012 1217	CDF	02/20/2012 1350	78164
2	3005A	6010C	1	02/23/2012 1348	CDF	02/20/2012 1350	78164

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.012	J	0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	2
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-002			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/25/2012 1615	LBS		78695		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	0.66	J	1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-002
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ78695-001

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/25/2012 1409
Benzene	ND		1	1.0	0.13	ug/L	02/25/2012 1409
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Bromoform	ND		1	1.0	0.66	ug/L	02/25/2012 1409
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/25/2012 1409
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/25/2012 1409
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/25/2012 1409
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/25/2012 1409
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/25/2012 1409
Chloroethane	ND		1	2.0	0.47	ug/L	02/25/2012 1409
Chloroform	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/25/2012 1409
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/25/2012 1409
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/25/2012 1409
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/25/2012 1409
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/25/2012 1409
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/25/2012 1409
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/25/2012 1409
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/25/2012 1409
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/25/2012 1409
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
2-Hexanone	ND		1	10	0.27	ug/L	02/25/2012 1409
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/25/2012 1409
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/25/2012 1409
Methylene chloride	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Styrene	ND		1	1.0	0.12	ug/L	02/25/2012 1409
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/25/2012 1409
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/25/2012 1409
Toluene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/25/2012 1409
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/25/2012 1409
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/25/2012 1409
Trichloroethene	ND		1	1.0	0.18	ug/L	02/25/2012 1409
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/25/2012 1409
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		99	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78695-002

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	76		1	76	70-130	02/25/2012 1152
Benzene	50	51		1	101	70-130	02/25/2012 1152
Bromodichloromethane	50	56		1	112	70-130	02/25/2012 1152
Bromoform	50	57		1	114	70-130	02/25/2012 1152
Bromomethane (Methyl bromide)	50	64		1	128	60-140	02/25/2012 1152
2-Butanone (MEK)	100	97		1	97	60-140	02/25/2012 1152
Carbon disulfide	50	56		1	112	60-140	02/25/2012 1152
Carbon tetrachloride	50	53		1	107	70-130	02/25/2012 1152
Chlorobenzene	50	51		1	101	70-130	02/25/2012 1152
Chloroethane	50	56		1	112	42-163	02/25/2012 1152
Chloroform	50	52		1	105	70-130	02/25/2012 1152
Chloromethane (Methyl chloride)	50	54		1	108	70-130	02/25/2012 1152
Dibromochloromethane	50	59		1	117	70-130	02/25/2012 1152
1,4-Dichlorobenzene	50	53		1	105	70-130	02/25/2012 1152
1,3-Dichlorobenzene	50	54		1	107	70-130	02/25/2012 1152
1,2-Dichlorobenzene	50	53		1	106	70-130	02/25/2012 1152
1,1-Dichloroethane	50	51		1	102	70-130	02/25/2012 1152
1,2-Dichloroethane	50	55		1	111	70-130	02/25/2012 1152
trans-1,2-Dichloroethene	50	51		1	102	70-130	02/25/2012 1152
1,1-Dichloroethene	50	49		1	97	70-130	02/25/2012 1152
cis-1,2-Dichloroethene	50	52		1	105	70-130	02/25/2012 1152
1,2-Dichloropropane	50	53		1	106	70-130	02/25/2012 1152
cis-1,3-Dichloropropene	50	61		1	121	70-130	02/25/2012 1152
trans-1,3-Dichloropropene	50	64		1	128	70-130	02/25/2012 1152
Ethylbenzene	50	52		1	104	70-130	02/25/2012 1152
2-Hexanone	100	120		1	116	60-140	02/25/2012 1152
Methyl tertiary butyl ether (MTBE)	50	55		1	109	70-130	02/25/2012 1152
4-Methyl-2-pentanone	100	110		1	107	60-140	02/25/2012 1152
Methylene chloride	50	50		1	99	70-130	02/25/2012 1152
Styrene	50	53		1	106	70-130	02/25/2012 1152
1,1,2,2-Tetrachloroethane	50	60		1	119	60-140	02/25/2012 1152
Tetrachloroethene	50	50		1	99	70-130	02/25/2012 1152
Toluene	50	51		1	103	70-130	02/25/2012 1152
1,2,4-Trichlorobenzene	50	52		1	104	70-130	02/25/2012 1152
1,1,2-Trichloroethane	50	57		1	114	70-130	02/25/2012 1152
1,1,1-Trichloroethane	50	51		1	102	70-130	02/25/2012 1152
Trichloroethene	50	49		1	98	70-130	02/25/2012 1152
Vinyl chloride	50	55		1	109	70-130	02/25/2012 1152
Xylenes (total)	100	110		1	105	70-130	02/25/2012 1152
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		97	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		98	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ78695-003

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	110	+	1	113	39	70-130	20	02/25/2012 1213
Benzene	50	51		1	103	1.5	70-130	20	02/25/2012 1213
Bromodichloromethane	50	57		1	115	2.4	70-130	20	02/25/2012 1213
Bromoform	50	58		1	117	2.3	70-130	20	02/25/2012 1213
Bromomethane (Methyl bromide)	50	67		1	134	4.4	60-140	20	02/25/2012 1213
2-Butanone (MEK)	100	120		1	117	19	60-140	20	02/25/2012 1213
Carbon disulfide	50	56		1	112	0.45	60-140	20	02/25/2012 1213
Carbon tetrachloride	50	54		1	109	1.9	70-130	20	02/25/2012 1213
Chlorobenzene	50	51		1	103	1.4	70-130	20	02/25/2012 1213
Chloroethane	50	56		1	113	0.57	42-163	20	02/25/2012 1213
Chloroform	50	54		1	109	3.6	70-130	20	02/25/2012 1213
Chloromethane (Methyl chloride)	50	55		1	109	1.2	70-130	20	02/25/2012 1213
Dibromochloromethane	50	58		1	116	0.92	70-130	20	02/25/2012 1213
1,4-Dichlorobenzene	50	53		1	106	0.89	70-130	20	02/25/2012 1213
1,3-Dichlorobenzene	50	54		1	107	0.12	70-130	20	02/25/2012 1213
1,2-Dichlorobenzene	50	53		1	105	0.67	70-130	20	02/25/2012 1213
1,1-Dichloroethane	50	52		1	104	2.4	70-130	20	02/25/2012 1213
1,2-Dichloroethane	50	58		1	116	4.8	70-130	20	02/25/2012 1213
trans-1,2-Dichloroethene	50	51		1	103	0.12	70-130	20	02/25/2012 1213
1,1-Dichloroethene	50	50		1	101	3.2	70-130	20	02/25/2012 1213
cis-1,2-Dichloroethene	50	53		1	106	1.3	70-130	20	02/25/2012 1213
1,2-Dichloropropane	50	55		1	110	3.1	70-130	20	02/25/2012 1213
cis-1,3-Dichloropropene	50	61		1	122	0.46	70-130	20	02/25/2012 1213
trans-1,3-Dichloropropene	50	64		1	128	0.42	70-130	20	02/25/2012 1213
Ethylbenzene	50	52		1	103	0.52	70-130	20	02/25/2012 1213
2-Hexanone	100	110		1	114	1.1	60-140	20	02/25/2012 1213
Methyl tertiary butyl ether (MTBE)	50	58		1	116	5.8	70-130	20	02/25/2012 1213
4-Methyl-2-pentanone	100	120		1	117	8.9	60-140	20	02/25/2012 1213
Methylene chloride	50	51		1	102	2.5	70-130	20	02/25/2012 1213
Styrene	50	56		1	111	4.3	70-130	20	02/25/2012 1213
1,1,2,2-Tetrachloroethane	50	59		1	118	1.1	60-140	20	02/25/2012 1213
Tetrachloroethene	50	50		1	100	0.45	70-130	20	02/25/2012 1213
Toluene	50	51		1	103	0.24	70-130	20	02/25/2012 1213
1,2,4-Trichlorobenzene	50	46		1	91	13	70-130	20	02/25/2012 1213
1,1,2-Trichloroethane	50	57		1	113	0.70	70-130	20	02/25/2012 1213
1,1,1-Trichloroethane	50	52		1	105	2.4	70-130	20	02/25/2012 1213
Trichloroethene	50	49		1	99	0.25	70-130	20	02/25/2012 1213
Vinyl chloride	50	56		1	112	2.2	70-130	20	02/25/2012 1213
Xylenes (total)	100	110		1	108	2.6	70-130	20	02/25/2012 1213
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		100	70-130						
1,2-Dichloroethane-d4		111	70-130						
Toluene-d8		98	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: NQ78138-001

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	02/24/2012 2135
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	02/24/2012 2135
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	02/24/2012 2135
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	02/24/2012 2135
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	02/24/2012 2135
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	02/24/2012 2135
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	02/24/2012 2135
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
2-Chlorophenol	ND		1	1.0	0.13	ug/L	02/24/2012 2135
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	02/24/2012 2135
2-Methylphenol	ND		1	1.0	0.17	ug/L	02/24/2012 2135
2-Nitroaniline	ND		1	2.0	0.55	ug/L	02/24/2012 2135
2-Nitrophenol	ND		1	2.0	0.27	ug/L	02/24/2012 2135
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	02/24/2012 2135
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	02/24/2012 2135
3-Nitroaniline	ND		1	2.0	0.77	ug/L	02/24/2012 2135
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	02/24/2012 2135
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	02/24/2012 2135
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	02/24/2012 2135
4-Chloroaniline	ND		1	1.0	0.13	ug/L	02/24/2012 2135
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	02/24/2012 2135
4-Nitroaniline	ND		1	2.0	0.39	ug/L	02/24/2012 2135
4-Nitrophenol	ND		1	5.0	0.64	ug/L	02/24/2012 2135
Acenaphthene	ND		1	1.0	0.090	ug/L	02/24/2012 2135
Acenaphthylene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Anthracene	ND		1	1.0	0.13	ug/L	02/24/2012 2135
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	02/24/2012 2135
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	02/24/2012 2135
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	02/24/2012 2135
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	02/24/2012 2135
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	02/24/2012 2135
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Carbazole	ND		1	1.0	0.25	ug/L	02/24/2012 2135
Chrysene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	02/24/2012 2135
Dibenzofuran	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Diethylphthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Fluoranthene	ND		1	1.0	0.21	ug/L	02/24/2012 2135

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: NQ78138-001

Batch: 78138

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 02/20/2012 1345

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	02/24/2012 2135
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	02/24/2012 2135
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	02/24/2012 2135
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	02/24/2012 2135
Hexachloroethane	ND		1	1.0	0.11	ug/L	02/24/2012 2135
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	02/24/2012 2135
Isophorone	ND		1	1.0	0.080	ug/L	02/24/2012 2135
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	02/24/2012 2135
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	02/24/2012 2135
Naphthalene	ND		1	1.0	0.070	ug/L	02/24/2012 2135
Nitrobenzene	ND		1	1.0	0.10	ug/L	02/24/2012 2135
Pentachlorophenol	ND		1	5.0	0.54	ug/L	02/24/2012 2135
Phenanthrene	ND		1	1.0	0.18	ug/L	02/24/2012 2135
Phenol	ND		1	1.0	0.11	ug/L	02/24/2012 2135
Pyrene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		73	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		66	24-127				
Nitrobenzene-d5		69	38-127				
Phenol-d5		71	28-128				
Terphenyl-d14		69	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78138-002

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	02/24/2012 2200
2,4,6-Trichlorophenol	20	16		1	78	36-123	02/24/2012 2200
2,4-Dichlorophenol	20	17		1	83	38-127	02/24/2012 2200
2,4-Dimethylphenol	20	14		1	69	36-110	02/24/2012 2200
2,4-Dinitrophenol	100	95		1	95	33-143	02/24/2012 2200
2,4-Dinitrotoluene	40	32		1	81	55-137	02/24/2012 2200
2,6-Dinitrotoluene	40	33		1	82	53-128	02/24/2012 2200
2-Chloronaphthalene	20	13		1	63	42-132	02/24/2012 2200
2-Chlorophenol	20	14		1	68	40-128	02/24/2012 2200
2-Methylnaphthalene	20	17		1	86	49-122	02/24/2012 2200
2-Methylphenol	20	16		1	78	33-122	02/24/2012 2200
2-Nitroaniline	40	33		1	83	48-126	02/24/2012 2200
2-Nitrophenol	40	30		1	75	44-131	02/24/2012 2200
3 & 4-Methylphenol	40	33		1	83	48-112	02/24/2012 2200
3-Nitroaniline	40	33		1	83	29-109	02/24/2012 2200
4,6-Dinitro-2-methylphenol	100	89		1	89	46-151	02/24/2012 2200
4-Bromophenyl phenyl ether	20	16		1	81	49-123	02/24/2012 2200
4-Chloro-3-methyl phenol	20	18		1	90	48-136	02/24/2012 2200
4-Chloroaniline	20	2.6	N	1	13	18-73	02/24/2012 2200
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	02/24/2012 2200
4-Nitroaniline	40	39		1	97	42-154	02/24/2012 2200
4-Nitrophenol	100	85		1	85	43-145	02/24/2012 2200
Acenaphthene	20	16		1	79	51-130	02/24/2012 2200
Acenaphthylene	20	15		1	75	46-131	02/24/2012 2200
Anthracene	20	16		1	82	48-122	02/24/2012 2200
Benzo(a)anthracene	20	16		1	79	50-143	02/24/2012 2200
Benzo(a)pyrene	20	17		1	84	55-141	02/24/2012 2200
Benzo(b)fluoranthene	20	18		1	89	48-147	02/24/2012 2200
Benzo(g,h,i)perylene	20	15		1	76	48-139	02/24/2012 2200
Benzo(k)fluoranthene	20	15		1	74	48-148	02/24/2012 2200
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	02/24/2012 2200
bis(2-Chloroisopropyl)ether	20	14		1	68	36-133	02/24/2012 2200
bis(2-Ethylhexyl)phthalate	20	15		1	75	40-141	02/24/2012 2200
Butyl benzyl phthalate	20	17		1	85	52-142	02/24/2012 2200
Carbazole	20	20		1	98	45-101	02/24/2012 2200
Chrysene	20	16		1	80	51-137	02/24/2012 2200
Di-n-butyl phthalate	20	18		1	91	50-134	02/24/2012 2200
Di-n-octylphthalate	20	17		1	87	50-136	02/24/2012 2200
Dibenzo(a,h)anthracene	20	15		1	77	48-139	02/24/2012 2200
Dibenzofuran	20	16		1	80	45-142	02/24/2012 2200
Diethylphthalate	20	16		1	82	48-124	02/24/2012 2200
Dimethyl phthalate	20	16		1	81	43-122	02/24/2012 2200
Fluoranthene	20	17		1	84	50-124	02/24/2012 2200
Fluorene	20	16		1	81	39-122	02/24/2012 2200

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78138-002

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	16		1	79	46-125	02/24/2012 2200
Hexachlorobutadiene	20	14		1	71	38-121	02/24/2012 2200
Hexachlorocyclopentadiene	100	57		1	57	24-110	02/24/2012 2200
Hexachloroethane	20	9.8		1	49	32-109	02/24/2012 2200
Indeno(1,2,3-c,d)pyrene	20	15		1	76	49-146	02/24/2012 2200
Isophorone	20	18		1	88	43-118	02/24/2012 2200
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	02/24/2012 2200
N-Nitrosodiphenylamine (Diphenylamine)	4.3	3.5		1	81	44-124	02/24/2012 2200
Naphthalene	20	16		1	80	45-118	02/24/2012 2200
Nitrobenzene	20	15		1	74	46-131	02/24/2012 2200
Pentachlorophenol	100	92		1	92	30-137	02/24/2012 2200
Phenanthrene	20	17		1	83	49-122	02/24/2012 2200
Phenol	20	15		1	74	35-118	02/24/2012 2200
Pyrene	20	17		1	85	50-130	02/24/2012 2200
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		81	41-144				
2-Fluorobiphenyl		79	37-129				
2-Fluorophenol		68	24-127				
Nitrobenzene-d5		75	38-127				
Phenol-d5		78	28-128				
Terphenyl-d14		73	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: NB17010-001MS

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	42	29		1	70	10-133	02/24/2012 2249
Acenaphthylene	ND	42	27		1	65	34-128	02/24/2012 2249
Anthracene	ND	42	30		1	73	48-122	02/24/2012 2249
Benzo(a)anthracene	ND	42	29		1	70	53-98	02/24/2012 2249
Benzo(a)pyrene	ND	42	24		1	57	11-160	02/24/2012 2249
Benzo(b)fluoranthene	ND	42	27		1	65	10-165	02/24/2012 2249
Benzo(g,h,i)perylene	ND	42	21		1	51	42-111	02/24/2012 2249
Benzo(k)fluoranthene	ND	42	26		1	62	13-175	02/24/2012 2249
4-Bromophenyl phenyl ether	ND	42	30		1	72	49-123	02/24/2012 2249
Butyl benzyl phthalate	ND	42	33		1	80	52-142	02/24/2012 2249
Carbazole	ND	42	38		1	91	45-101	02/24/2012 2249
4-Chloro-3-methyl phenol	ND	42	29		1	69	40-98	02/24/2012 2249
4-Chloroaniline	ND	42	3.5	N	1	8.4	10-98	02/24/2012 2249
bis(2-Chloroethoxy)methane	ND	42	24		1	58	43-93	02/24/2012 2249
bis(2-Chloroisopropyl)ether	ND	42	25		1	60	36-99	02/24/2012 2249
2-Chloronaphthalene	ND	42	23		1	55	40-89	02/24/2012 2249
2-Chlorophenol	ND	42	24		1	58	33-92	02/24/2012 2249
4-Chlorophenyl phenyl ether	ND	42	31		1	73	34-124	02/24/2012 2249
Chrysene	ND	42	27		1	66	51-107	02/24/2012 2249
Dibenzo(a,h)anthracene	ND	42	21		1	51	47-116	02/24/2012 2249
Dibenzofuran	ND	42	30		1	72	45-94	02/24/2012 2249
2,4-Dichlorophenol	ND	42	25		1	60	34-105	02/24/2012 2249
Diethylphthalate	ND	42	34		1	80	48-124	02/24/2012 2249
Dimethyl phthalate	ND	42	31		1	75	43-122	02/24/2012 2249
2,4-Dimethylphenol	ND	42	19		1	45	33-77	02/24/2012 2249
Di-n-butyl phthalate	ND	42	39		1	95	50-134	02/24/2012 2249
4,6-Dinitro-2-methylphenol	ND	210	180		1	85	33-118	02/24/2012 2249
2,4-Dinitrophenol	ND	210	180		1	89	19-119	02/24/2012 2249
2,4-Dinitrotoluene	ND	83	65		1	79	50-104	02/24/2012 2249
2,6-Dinitrotoluene	ND	83	65		1	77	53-128	02/24/2012 2249
Di-n-octylphthalate	ND	42	17		1	41	40-112	02/24/2012 2249
bis(2-Ethylhexyl)phthalate	2.3	42	18		1	37	10-142	02/24/2012 2249
Fluoranthene	ND	42	33		1	79	50-124	02/24/2012 2249
Fluorene	ND	42	31		1	75	39-122	02/24/2012 2249
Hexachlorobenzene	ND	42	30		1	72	46-125	02/24/2012 2249
Hexachlorobutadiene	ND	42	21		1	50	42-94	02/24/2012 2249
Hexachlorocyclopentadiene	ND	210	78		1	37	14-89	02/24/2012 2249
Hexachloroethane	ND	42	16		1	39	39-86	02/24/2012 2249
Indeno(1,2,3-c,d)pyrene	ND	42	21		1	51	43-113	02/24/2012 2249
Isophorone	ND	42	26		1	63	42-84	02/24/2012 2249
2-Methylnaphthalene	ND	42	26		1	62	46-90	02/24/2012 2249
2-Methylphenol	ND	42	27		1	65	33-122	02/24/2012 2249
3 & 4-Methylphenol	ND	83	60		1	71	24-97	02/24/2012 2249
Naphthalene	ND	42	24		1	58	46-89	02/24/2012 2249

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: NB17010-001MS

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	83	63		1	75	48-126	02/24/2012 2249
3-Nitroaniline	ND	83	59		1	71	10-110	02/24/2012 2249
4-Nitroaniline	ND	83	73		1	87	41-99	02/24/2012 2249
Nitrobenzene	ND	42	26		1	63	44-91	02/24/2012 2249
2-Nitrophenol	ND	83	45		1	54	34-102	02/24/2012 2249
4-Nitrophenol	ND	210	170		1	82	29-122	02/24/2012 2249
N-Nitrosodi-n-propylamine	ND	42	30		1	73	41-96	02/24/2012 2249
N-Nitrosodiphenylamine (Diphenylamine)	ND	9.0	6.1		1	68	10-150	02/24/2012 2249
Pentachlorophenol	ND	210	170		1	84	32-110	02/24/2012 2249
Phenanthrene	ND	42	33		1	79	49-122	02/24/2012 2249
Phenol	ND	42	27		1	64	33-92	02/24/2012 2249
Pyrene	ND	42	34		1	81	50-130	02/24/2012 2249
2,4,5-Trichlorophenol	ND	42	31		1	75	46-125	02/24/2012 2249
2,4,6-Trichlorophenol	ND	42	29		1	70	36-123	02/24/2012 2249
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		67	37-129					
2-Fluorophenol		55	24-127					
Nitrobenzene-d5		62	38-127					
Phenol-d5		64	28-128					
Terphenyl-d14		57	10-148					
2,4,6-Tribromophenol		77	41-144					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: NB17010-001MD

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	43	30		1	71	3.7	10-133	40	02/24/2012 2314
Acenaphthylene	ND	43	29		1	67	6.2	34-128	40	02/24/2012 2314
Anthracene	ND	43	30		1	70	2.2	48-122	40	02/24/2012 2314
Benzo(a)anthracene	ND	43	19	N	1	46	40	53-98	40	02/24/2012 2314
Benzo(a)pyrene	ND	43	12	+	1	28	66	11-160	40	02/24/2012 2314
Benzo(b)fluoranthene	ND	43	15	+	1	36	55	10-165	40	02/24/2012 2314
Benzo(g,h,i)perylene	ND	43	10	N,+	1	24	72	42-111	40	02/24/2012 2314
Benzo(k)fluoranthene	ND	43	15	+	1	35	52	13-175	40	02/24/2012 2314
4-Bromophenyl phenyl ether	ND	43	31		1	72	1.3	49-123	40	02/24/2012 2314
Butyl benzyl phthalate	ND	43	28		1	66	17	52-142	40	02/24/2012 2314
Carbazole	ND	43	38		1	90	1.1	45-101	40	02/24/2012 2314
4-Chloro-3-methyl phenol	ND	43	36		1	84	22	40-98	40	02/24/2012 2314
4-Chloroaniline	ND	43	2.1	N,+	1	5.0	48	10-98	40	02/24/2012 2314
bis(2-Chloroethoxy)methane	ND	43	31		1	74	26	43-93	40	02/24/2012 2314
bis(2-Chloroisopropyl)ether	ND	43	26		1	62	5.9	36-99	40	02/24/2012 2314
2-Chloronaphthalene	ND	43	24		1	57	4.8	40-89	40	02/24/2012 2314
2-Chlorophenol	ND	43	26		1	62	8.2	33-92	40	02/24/2012 2314
4-Chlorophenyl phenyl ether	ND	43	30		1	70	1.8	34-124	40	02/24/2012 2314
Chrysene	ND	43	16	N,+	1	37	54	51-107	40	02/24/2012 2314
Dibenzo(a,h)anthracene	ND	43	11	N,+	1	26	61	47-116	40	02/24/2012 2314
Dibenzofuran	ND	43	30		1	72	1.9	45-94	40	02/24/2012 2314
2,4-Dichlorophenol	ND	43	32		1	76	26	34-105	40	02/24/2012 2314
Diethylphthalate	ND	43	32		1	75	5.2	48-124	40	02/24/2012 2314
Dimethyl phthalate	ND	43	32		1	75	1.1	43-122	40	02/24/2012 2314
2,4-Dimethylphenol	ND	43	27		1	62	36	33-77	40	02/24/2012 2314
Di-n-butyl phthalate	ND	43	37		1	86	7.4	50-134	40	02/24/2012 2314
4,6-Dinitro-2-methylphenol	ND	210	180		1	83	0.14	33-118	40	02/24/2012 2314
2,4-Dinitrophenol	ND	210	190		1	91	4.3	19-119	40	02/24/2012 2314
2,4-Dinitrotoluene	ND	85	64		1	75	2.4	50-104	40	02/24/2012 2314
2,6-Dinitrotoluene	ND	85	65		1	76	0.56	53-128	40	02/24/2012 2314
Di-n-octylphthalate	ND	43	8.5	N,+	1	20	68	40-112	40	02/24/2012 2314
bis(2-Ethylhexyl)phthalate	2.3	43	9.6	+	1	17	59	10-142	40	02/24/2012 2314
Fluoranthene	ND	43	31		1	74	4.8	50-124	40	02/24/2012 2314
Fluorene	ND	43	31		1	72	2.0	39-122	40	02/24/2012 2314
Hexachlorobenzene	ND	43	28		1	66	6.2	46-125	40	02/24/2012 2314
Hexachlorobutadiene	ND	43	28		1	66	30	42-94	40	02/24/2012 2314
Hexachlorocyclopentadiene	ND	210	100		1	49	28	14-89	40	02/24/2012 2314
Hexachloroethane	ND	43	18		1	43	12	39-86	40	02/24/2012 2314
Indeno(1,2,3-c,d)pyrene	ND	43	10	N,+	1	24	69	43-113	40	02/24/2012 2314
Isophorone	ND	43	34		1	80	26	42-84	40	02/24/2012 2314
2-Methylnaphthalene	ND	43	34		1	79	27	46-90	40	02/24/2012 2314
2-Methylphenol	ND	43	29		1	69	8.1	33-122	40	02/24/2012 2314
3 & 4-Methylphenol	ND	85	63		1	74	5.9	24-97	40	02/24/2012 2314
Naphthalene	ND	43	32		1	75	27	46-89	40	02/24/2012 2314

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: NB17010-001MD

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	85	64		1	75	2.5	48-126	40	02/24/2012 2314
3-Nitroaniline	ND	85	58		1	68	2.6	10-110	40	02/24/2012 2314
4-Nitroaniline	ND	85	73		1	86	0.10	41-99	40	02/24/2012 2314
Nitrobenzene	ND	43	29		1	67	8.7	44-91	40	02/24/2012 2314
2-Nitrophenol	ND	85	59		1	70	28	34-102	40	02/24/2012 2314
4-Nitrophenol	ND	210	160		1	76	4.8	29-122	40	02/24/2012 2314
N-Nitrosodi-n-propylamine	ND	43	33		1	78	9.3	41-96	40	02/24/2012 2314
N-Nitrosodiphenylamine (Diphenylamine)	ND	9.1	5.6		1	61	9.3	10-150	40	02/24/2012 2314
Pentachlorophenol	ND	210	180		1	84	2.7	32-110	40	02/24/2012 2314
Phenanthrene	ND	43	32		1	75	2.3	49-122	40	02/24/2012 2314
Phenol	ND	43	28		1	66	5.1	33-92	40	02/24/2012 2314
Pyrene	ND	43	31		1	72	10	50-130	40	02/24/2012 2314
2,4,5-Trichlorophenol	ND	43	32		1	74	1.7	46-125	40	02/24/2012 2314
2,4,6-Trichlorophenol	ND	43	31		1	72	5.9	36-123	40	02/24/2012 2314
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	37-129							
2-Fluorophenol		61	24-127							
Nitrobenzene-d5		67	38-127							
Phenol-d5		68	28-128							
Terphenyl-d14		36	10-148							
2,4,6-Tribromophenol		78	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78136-001

Matrix: Aqueous

Batch: 78136

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/20/2012 1630

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
4,4'-DDE	ND		1	0.025	0.011	ug/L	02/23/2012 2235
4,4'-DDT	ND		1	0.025	0.0020	ug/L	02/23/2012 2235
Aldrin	ND		1	0.025	0.0017	ug/L	02/23/2012 2235
alpha-BHC	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	02/23/2012 2235
beta-BHC	ND		1	0.025	0.0039	ug/L	02/23/2012 2235
delta-BHC	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
Dieldrin	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
Endosulfan I	ND		1	0.025	0.0022	ug/L	02/23/2012 2235
Endosulfan II	ND		1	0.025	0.0015	ug/L	02/23/2012 2235
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
Endrin	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	02/23/2012 2235
Endrin ketone	ND		1	0.025	0.0012	ug/L	02/23/2012 2235
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
gamma-Chlordane	0.0015	J	1	0.025	0.0015	ug/L	02/23/2012 2235
Heptachlor	ND		1	0.025	0.013	ug/L	02/23/2012 2235
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	02/23/2012 2235
Methoxychlor	ND		1	0.10	0.0020	ug/L	02/23/2012 2235
Toxaphene	ND		1	0.25	0.11	ug/L	02/23/2012 2235
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		48	20-131				
Tetrachloro-m-xylene		88	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78136-002

Matrix: Aqueous

Batch: 78136

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/20/2012 1630

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	94	70-130	02/23/2012 2255
4,4'-DDE	0.50	0.47		1	93	70-130	02/23/2012 2255
4,4'-DDT	0.50	0.49		1	97	70-130	02/23/2012 2255
Aldrin	0.50	0.48		1	96	70-130	02/23/2012 2255
alpha-BHC	0.50	0.47		1	94	70-130	02/23/2012 2255
beta-BHC	0.50	0.47		1	94	70-130	02/23/2012 2255
delta-BHC	0.50	0.45		1	90	70-130	02/23/2012 2255
Dieldrin	0.50	0.47		1	95	70-130	02/23/2012 2255
Endosulfan I	0.50	0.45		1	89	70-130	02/23/2012 2255
Endosulfan II	0.50	0.43		1	87	70-130	02/23/2012 2255
Endosulfan sulfate	0.50	0.45		1	91	70-130	02/23/2012 2255
Endrin	0.50	0.51		1	102	70-130	02/23/2012 2255
Endrin aldehyde	0.50	0.32	N	1	65	70-130	02/23/2012 2255
gamma-BHC (Lindane)	0.50	0.46		1	92	70-130	02/23/2012 2255
gamma-Chlordane	0.50	0.49		1	98	70-130	02/23/2012 2255
Heptachlor	0.50	0.43		1	86	70-130	02/23/2012 2255
Heptachlor epoxide	0.50	0.45		1	90	70-130	02/23/2012 2255
Methoxychlor	0.50	0.50		1	100	70-130	02/23/2012 2255
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl	N	13	20-131				
Tetrachloro-m-xylene		92	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MB

Sample ID: NQ78231-001

Batch: 78231

Analytical Method: 8151A

Matrix: Aqueous

Prep Method: 8151A

Prep Date: 02/20/2012 2027

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-T	ND		1	0.50	0.10	ug/L	02/22/2012 1704
2,4,5-TP (Silvex)	ND		1	0.50	0.10	ug/L	02/22/2012 1704
2,4-D	ND		1	2.0	0.40	ug/L	02/22/2012 1704
Surrogate	Q	% Rec	Acceptance Limit				
DCAA		82	62-117				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCS

Sample ID: NQ78231-002

Matrix: Aqueous

Batch: 78231

Prep Method: 8151A

Analytical Method: 8151A

Prep Date: 02/20/2012 2027

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-T	10	9.0		1	90	70-130	02/22/2012 1728
2,4,5-TP (Silvex)	10	8.7		1	87	70-130	02/22/2012 1728
2,4-D	10	9.3		1	93	70-130	02/22/2012 1728
Surrogate	Q	% Rec	Acceptance Limit				
DCAA		80	62-117				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78792-001

Matrix: Aqueous

Batch: 78792

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/27/2012 1720

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
4,4'-DDE	ND		1	0.025	0.011	ug/L	03/01/2012 2143
4,4'-DDT	ND		1	0.025	0.0020	ug/L	03/01/2012 2143
Aldrin	ND		1	0.025	0.0017	ug/L	03/01/2012 2143
alpha-BHC	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	03/01/2012 2143
beta-BHC	ND		1	0.025	0.0039	ug/L	03/01/2012 2143
delta-BHC	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
Dieldrin	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
Endosulfan I	ND		1	0.025	0.0022	ug/L	03/01/2012 2143
Endosulfan II	ND		1	0.025	0.0015	ug/L	03/01/2012 2143
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
Endrin	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	03/01/2012 2143
Endrin ketone	ND		1	0.025	0.0012	ug/L	03/01/2012 2143
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	03/01/2012 2143
Heptachlor	ND		1	0.025	0.013	ug/L	03/01/2012 2143
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	03/01/2012 2143
Methoxychlor	ND		1	0.10	0.0020	ug/L	03/01/2012 2143
Toxaphene	ND		1	0.25	0.11	ug/L	03/01/2012 2143
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		94	20-131				
Tetrachloro-m-xylene		93	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78792-002

Matrix: Aqueous

Batch: 78792

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/27/2012 1720

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.54		1	108	70-130	03/01/2012 2202
4,4'-DDE	0.50	0.55		1	110	70-130	03/01/2012 2202
4,4'-DDT	0.50	0.58		1	115	70-130	03/01/2012 2202
Aldrin	0.50	0.53		1	105	70-130	03/01/2012 2202
alpha-BHC	0.50	0.53		1	107	70-130	03/01/2012 2202
beta-BHC	0.50	0.52		1	104	70-130	03/01/2012 2202
delta-BHC	0.50	0.51		1	102	70-130	03/01/2012 2202
Dieldrin	0.50	0.54		1	108	70-130	03/01/2012 2202
Endosulfan I	0.50	0.51		1	103	70-130	03/01/2012 2202
Endosulfan II	0.50	0.51		1	102	70-130	03/01/2012 2202
Endosulfan sulfate	0.50	0.54		1	108	70-130	03/01/2012 2202
Endrin	0.50	0.58		1	117	70-130	03/01/2012 2202
Endrin aldehyde	0.50	0.40		1	80	70-130	03/01/2012 2202
gamma-BHC (Lindane)	0.50	0.54		1	108	70-130	03/01/2012 2202
gamma-Chlordane	0.50	0.55		1	110	70-130	03/01/2012 2202
Heptachlor	0.50	0.48		1	97	70-130	03/01/2012 2202
Heptachlor epoxide	0.50	0.52		1	104	70-130	03/01/2012 2202
Methoxychlor	0.50	0.58		1	116	70-130	03/01/2012 2202
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		52	20-131				
Tetrachloro-m-xylene		95	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: NQ78164-001

Batch: 78164

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/20/2012 1350

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	0.0076	J	1	0.010	0.0040	mg/L	02/22/2012 1146
Barium	ND		1	0.025	0.0075	mg/L	02/22/2012 1146
Cadmium	ND		1	0.0020	0.00060	mg/L	02/23/2012 1336
Chromium	ND		1	0.0050	0.0021	mg/L	02/22/2012 1146
Lead	0.0041	J	1	0.010	0.0019	mg/L	02/22/2012 1146
Selenium	ND		1	0.010	0.0026	mg/L	02/22/2012 1146
Silver	ND		1	0.0050	0.00040	mg/L	02/23/2012 1336

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: NQ78164-002

Matrix: Aqueous

Batch: 78164

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/20/2012 1350

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.41		1	104	80-120	02/22/2012 1150
Barium	2.0	2.1		1	105	80-120	02/22/2012 1150
Cadmium	0.40	0.42		1	106	80-120	02/23/2012 1340
Chromium	2.0	2.0		1	100	80-120	02/22/2012 1150
Lead	0.40	0.42		1	105	80-120	02/22/2012 1150
Selenium	0.40	0.42		1	105	80-120	02/22/2012 1150
Silver	0.40	0.41		1	102	80-120	02/23/2012 1340

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCSD

Sample ID: NQ78164-003

Matrix: Aqueous

Batch: 78164

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/20/2012 1350

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	0.40	0.39		1	98	6.0	80-120	20	02/22/2012 1154
Barium	2.0	2.1		1	105	0.51	80-120	20	02/22/2012 1154
Cadmium	0.40	0.42		1	106	0.022	80-120	20	02/23/2012 1344
Chromium	2.0	1.9		1	97	2.5	80-120	20	02/22/2012 1154
Lead	0.40	0.41		1	102	3.0	80-120	20	02/22/2012 1154
Selenium	0.40	0.42		1	105	0.44	80-120	20	02/22/2012 1154
Silver	0.40	0.41		1	102	0.50	80-120	20	02/23/2012 1344

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: NQ78310-001

Batch: 78310

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000053	mg/L	02/21/2012 2027

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: NQ78310-002

Matrix: Aqueous

Batch: 78310

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	108	85-115	02/21/2012 2030

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCSD

Sample ID: NQ78310-003

Batch: 78310

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0021		1	107	0.93	85-115	20	02/21/2012 2033

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



Wasserbau / Wasser-Management / Sanierung

Send Results to:	First & Company Name ANDREW DANIS ARCADIS	City	State	Zip	Project #	Project Name	Collection	Type
	Address 301 Corporate Center Drive		Raleigh	NC		ARCADIS	ARCADIS	ARCADIS
	Phone #							
	919-854-1282							
	Project #							
	Project Name							
	Project Address							
	Project City							
	Project State							
	Project Zip							
	Project Project #							
	Project Project Name							
	Project Project Address							
	Project Project City							
	Project Project State							
	Project Project Zip							
	Project Project Project #							
	Project Project Project Name							
	Project Project Project Address							
	Project Project Project City							
	Project Project Project State							
	Project Project Project Zip							
	Project Project Project Project #							
	Project Project Project Project Name							
	Project Project Project Project Address							
	Project Project Project Project City							
	Project Project Project Project State							
	Project Project Project Project Zip							
	Project Project Project Project Project #							
	Project Project Project Project Project Name							
	Project Project Project Project Project Address							
	Project Project Project Project Project City							
	Project Project Project Project Project State							
	Project Project Project Project Project Zip							
	Project Project Project Project Project Project #							
	Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Address							
	Project Project Project Project Project Project City							
	Project Project Project Project Project Project State							
	Project Project Project Project Project Project Zip							
	Project Project Project Project Project Project Project #							
	Project Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Project Address							
	Project Project Project Project Project Project Project City							
	Project Project Project Project Project Project Project State							
	Project Project Project Project Project Project Project Zip							
	Project Project Project Project Project Project Project Project #							
	Project Project Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Project Project Address							
	Project Project Project Project Project Project Project Project City							
	Project Project Project Project Project Project Project Project State							
	Project Project Project Project Project Project Project Project Zip							
	Project Project Project Project Project Project Project Project Project #							
	Project Project Project Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Project Project Project Address							
	Project Project Project Project Project Project Project Project Project City							
	Project Project Project Project Project Project Project Project Project State							
	Project Project Project Project Project Project Project Project Project Zip							
	Project Project Project Project Project Project Project Project Project Project #							
	Project Project Project Project Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Project Project Project Project Address							
	Project Project Project Project Project Project Project Project Project Project City							
	Project Project Project Project Project Project Project Project Project Project State							
	Project Project Project Project Project Project Project Project Project Project Zip							
	Project Project Project Project Project Project Project Project Project Project Project #							
	Project Project Project Project Project Project Project Project Project Project Project Name							
	Project Project Project Project Project Project Project Project Project Project Project Address							

[illegible][illegible]

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 9

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: ARCADIS Cooler Inspected by/date: W 2/17/12 Lot #: N1317010

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒ No ☐	1. Were custody seals present on the cooler?	
Yes ☒ No ☐	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt <u>58</u> °C <u>1</u> °C <u>1</u> °C <u>1</u> °C		
Method: ☐ Temperature Blank ☒ Against Bottles		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes ☐ No ☐ NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.	
Yes ☒ No ☐ NA ☐	4. Is the commercial courier's packing slip attached to this form?	
Yes ☐ No ☒	5. Were proper custody procedures (relinquished/received) followed?	
Yes ☐ No ☒ NA ☐	5a Were samples relinquished by client to commercial courier?	
Yes ☒ No ☐	6. Were sample IDs listed?	
Yes ☒ No ☐	7. Was collection date & time listed?	
Yes ☒ No ☐	8. Were tests to be performed listed on the COC?	
Yes ☒ No ☐	9. Did all samples arrive in the proper containers for each test?	
Yes ☒ No ☐	10. Did all container label information (ID, date, time) agree with COC?	
Yes ☒ No ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?	
Yes ☒ No ☐	12. Was adequate sample volume available?	
Yes ☐ No ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
Yes ☐ No ☒	14. Were any samples containers missing?	
Yes ☐ No ☒	15. Were there any excess samples not listed on COC?	
Yes ☐ No ☒ NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?	
Yes ☒ No ☐ NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?	
Yes ☐ No ☒ NA ☐	18. Were all cyanide and/or sulfide samples received at a pH >12?	
Yes ☐ No ☐ NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?	
Yes ☐ No ☒ NA ☐	20. Were collection temperatures documented on the COC for NC samples?	
Yes ☐ No ☐ NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number)		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.		
This portion can be removed for Recipient's records. In <u>2-19-12</u> FedEx Tracking Number <u>877106322408</u>		
Corrective Action taken, if necessary:		
Was client notified: Yes ☐ No ☐		
SESI employee: _____		
Comments: _____		
Company: <u>ARCADIS G & M OF NC INC</u>		
Address: <u>301 CORPORATE CENTER DR</u>		
City: <u>RALEIGH</u> State: <u>NC</u> ZIP: <u>27607-5243</u>		

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Allison Fang

Project Name: Hunter Stewart HAA-01

Project Number: GP08HAFS.H01C.DPCSR

Lot Number: NA31002

Date Completed: 02/02/2012



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** NA31002 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative

ARCADIS U.S., Inc.

Lot Number: NA31002

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: NA31002

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01-MW-12	Aqueous	01/30/2012 1340	01/31/2012
002	HA01-MW-14	Aqueous	01/30/2012 1440	01/31/2012
003	Trip Blank	Aqueous	01/30/2012	01/31/2012

(3 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: NA31002

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	HA01-MW-14	Aqueous	cis-1,2-Dichloroethene	8260B	0.93	J	ug/L	7

(1 detection)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-001			
Description: HA01-MW-12				Matrix: Aqueous			
Date Sampled: 01/30/2012 1340							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1514	BM		76957		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NA31002-001

Description: HA01-MW-12

Matrix: Aqueous

Date Sampled: 01/30/2012 1340

Date Received: 01/31/2012

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 6 of 10

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-002			
Description: HA01-MW-14				Matrix: Aqueous			
Date Sampled: 01/30/2012 1440							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1536	BM		76957		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.93	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NA31002-002
Description: HA01-MW-14	Matrix: Aqueous
Date Sampled: 01/30/2012 1440	
Date Received: 01/31/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NA31002-003			
Description: Trip Blank				Matrix: Aqueous			
Date Sampled: 01/30/2012							
Date Received: 01/31/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/02/2012 1552	BM		76958		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NA31002-003

Description: Trip Blank

Matrix: Aqueous

Date Sampled: 01/30/2012

Date Received: 01/31/2012

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 10 of 10

Level 1 Report v2.1

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ76957-001

Matrix: Aqueous

Batch: 76957

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/02/2012 0947
Benzene	ND		1	1.0	0.13	ug/L	02/02/2012 0947
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Bromoform	ND		1	1.0	0.66	ug/L	02/02/2012 0947
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/02/2012 0947
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/02/2012 0947
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/02/2012 0947
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/02/2012 0947
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/02/2012 0947
Chloroethane	ND		1	2.0	0.47	ug/L	02/02/2012 0947
Chloroform	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/02/2012 0947
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/02/2012 0947
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/02/2012 0947
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/02/2012 0947
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/02/2012 0947
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/02/2012 0947
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/02/2012 0947
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/02/2012 0947
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/02/2012 0947
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
2-Hexanone	ND		1	10	0.27	ug/L	02/02/2012 0947
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/02/2012 0947
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/02/2012 0947
Methylene chloride	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Styrene	ND		1	1.0	0.12	ug/L	02/02/2012 0947
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/02/2012 0947
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/02/2012 0947
Toluene	ND		1	1.0	0.33	ug/L	02/02/2012 0947
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/02/2012 0947
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/02/2012 0947
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/02/2012 0947
Trichloroethene	ND		1	1.0	0.18	ug/L	02/02/2012 0947
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/02/2012 0947
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/02/2012 0947
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		98	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: NA31002

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ76957-002

Matrix: Aqueous

Batch: 76957

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	125	70-130	02/02/2012 0823
Benzene	50	56		1	113	70-130	02/02/2012 0823
Bromodichloromethane	50	56		1	112	70-130	02/02/2012 0823
Bromoform	50	63		1	126	70-130	02/02/2012 0823
Bromomethane (Methyl bromide)	50	56		1	111	60-140	02/02/2012 0823
2-Butanone (MEK)	100	110		1	114	60-140	02/02/2012 0823
Carbon disulfide	50	51		1	102	60-140	02/02/2012 0823
Carbon tetrachloride	50	59		1	118	70-130	02/02/2012 0823
Chlorobenzene	50	56		1	112	70-130	02/02/2012 0823
Chloroethane	50	55		1	111	42-163	02/02/2012 0823
Chloroform	50	57		1	115	70-130	02/02/2012 0823
Chloromethane (Methyl chloride)	50	53		1	107	70-130	02/02/2012 0823
Dibromochloromethane	50	57		1	114	70-130	02/02/2012 0823
1,3-Dichlorobenzene	50	56		1	111	70-130	02/02/2012 0823
1,4-Dichlorobenzene	50	55		1	109	70-130	02/02/2012 0823
1,2-Dichlorobenzene	50	56		1	111	70-130	02/02/2012 0823
1,2-Dichloroethane	50	55		1	109	70-130	02/02/2012 0823
1,1-Dichloroethane	50	58		1	116	70-130	02/02/2012 0823
cis-1,2-Dichloroethene	50	58		1	116	70-130	02/02/2012 0823
trans-1,2-Dichloroethene	50	61		1	123	70-130	02/02/2012 0823
1,1-Dichloroethene	50	66	N	1	132	70-130	02/02/2012 0823
1,2-Dichloropropane	50	57		1	114	70-130	02/02/2012 0823
trans-1,3-Dichloropropene	50	56		1	113	70-130	02/02/2012 0823
cis-1,3-Dichloropropene	50	58		1	116	70-130	02/02/2012 0823
Ethylbenzene	50	57		1	113	70-130	02/02/2012 0823
2-Hexanone	100	100		1	104	60-140	02/02/2012 0823
Methyl tertiary butyl ether (MTBE)	50	60		1	119	70-130	02/02/2012 0823
4-Methyl-2-pentanone	100	110		1	107	60-140	02/02/2012 0823
Methylene chloride	50	60		1	119	70-130	02/02/2012 0823
Styrene	50	57		1	114	70-130	02/02/2012 0823
1,1,2,2-Tetrachloroethane	50	57		1	113	60-140	02/02/2012 0823
Tetrachloroethene	50	57		1	113	70-130	02/02/2012 0823
Toluene	50	56		1	112	70-130	02/02/2012 0823
1,2,4-Trichlorobenzene	50	52		1	105	70-130	02/02/2012 0823
1,1,2-Trichloroethane	50	55		1	110	70-130	02/02/2012 0823
1,1,1-Trichloroethane	50	58		1	117	70-130	02/02/2012 0823
Trichloroethene	50	57		1	115	70-130	02/02/2012 0823
Vinyl chloride	50	58		1	116	70-130	02/02/2012 0823
Xylenes (total)	100	120		1	115	70-130	02/02/2012 0823
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ76957-003

Batch: 76957

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	100		1	104	19	70-130	20	02/02/2012 0844
Benzene	50	55		1	111	1.7	70-130	20	02/02/2012 0844
Bromodichloromethane	50	55		1	109	2.5	70-130	20	02/02/2012 0844
Bromoform	50	60		1	120	4.9	70-130	20	02/02/2012 0844
Bromomethane (Methyl bromide)	50	54		1	108	2.4	60-140	20	02/02/2012 0844
2-Butanone (MEK)	100	110		1	107	5.8	60-140	20	02/02/2012 0844
Carbon disulfide	50	49		1	98	4.0	60-140	20	02/02/2012 0844
Carbon tetrachloride	50	57		1	113	3.8	70-130	20	02/02/2012 0844
Chlorobenzene	50	55		1	110	2.3	70-130	20	02/02/2012 0844
Chloroethane	50	54		1	108	2.2	42-163	20	02/02/2012 0844
Chloroform	50	55		1	111	3.5	70-130	20	02/02/2012 0844
Chloromethane (Methyl chloride)	50	52		1	104	2.9	70-130	20	02/02/2012 0844
Dibromochloromethane	50	56		1	112	1.8	70-130	20	02/02/2012 0844
1,3-Dichlorobenzene	50	55		1	110	1.4	70-130	20	02/02/2012 0844
1,4-Dichlorobenzene	50	53		1	107	2.6	70-130	20	02/02/2012 0844
1,2-Dichlorobenzene	50	54		1	107	3.5	70-130	20	02/02/2012 0844
1,2-Dichloroethane	50	53		1	107	2.1	70-130	20	02/02/2012 0844
1,1-Dichloroethane	50	57		1	113	2.5	70-130	20	02/02/2012 0844
cis-1,2-Dichloroethene	50	56		1	112	3.5	70-130	20	02/02/2012 0844
trans-1,2-Dichloroethene	50	60		1	119	2.9	70-130	20	02/02/2012 0844
1,1-Dichloroethene	50	64		1	129	2.4	70-130	20	02/02/2012 0844
1,2-Dichloropropane	50	56		1	112	1.7	70-130	20	02/02/2012 0844
trans-1,3-Dichloropropene	50	56		1	113	0.25	70-130	20	02/02/2012 0844
cis-1,3-Dichloropropene	50	57		1	114	1.8	70-130	20	02/02/2012 0844
Ethylbenzene	50	56		1	111	1.9	70-130	20	02/02/2012 0844
2-Hexanone	100	100		1	101	3.1	60-140	20	02/02/2012 0844
Methyl tertiary butyl ether (MTBE)	50	57		1	114	4.1	70-130	20	02/02/2012 0844
4-Methyl-2-pentanone	100	100		1	103	3.4	60-140	20	02/02/2012 0844
Methylene chloride	50	57		1	115	3.6	70-130	20	02/02/2012 0844
Styrene	50	55		1	109	4.1	70-130	20	02/02/2012 0844
1,1,2,2-Tetrachloroethane	50	54		1	107	5.0	60-140	20	02/02/2012 0844
Tetrachloroethene	50	56		1	113	0.78	70-130	20	02/02/2012 0844
Toluene	50	55		1	109	2.6	70-130	20	02/02/2012 0844
1,2,4-Trichlorobenzene	50	51		1	103	1.9	70-130	20	02/02/2012 0844
1,1,2-Trichloroethane	50	55		1	110	0.25	70-130	20	02/02/2012 0844
1,1,1-Trichloroethane	50	57		1	113	3.2	70-130	20	02/02/2012 0844
Trichloroethene	50	56		1	112	2.4	70-130	20	02/02/2012 0844
Vinyl chloride	50	56		1	111	3.8	70-130	20	02/02/2012 0844
Xylenes (total)	100	110		1	111	3.4	70-130	20	02/02/2012 0844
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		100	70-130						
Toluene-d8		99	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: NA31002

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ76958-001

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/02/2012 0849
Benzene	ND		1	1.0	0.13	ug/L	02/02/2012 0849
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Bromoform	ND		1	1.0	0.66	ug/L	02/02/2012 0849
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/02/2012 0849
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/02/2012 0849
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/02/2012 0849
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/02/2012 0849
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/02/2012 0849
Chloroethane	ND		1	2.0	0.47	ug/L	02/02/2012 0849
Chloroform	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/02/2012 0849
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/02/2012 0849
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/02/2012 0849
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/02/2012 0849
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/02/2012 0849
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/02/2012 0849
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/02/2012 0849
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/02/2012 0849
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/02/2012 0849
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
2-Hexanone	ND		1	10	0.27	ug/L	02/02/2012 0849
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/02/2012 0849
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/02/2012 0849
Methylene chloride	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Styrene	ND		1	1.0	0.12	ug/L	02/02/2012 0849
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/02/2012 0849
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/02/2012 0849
Toluene	ND		1	1.0	0.33	ug/L	02/02/2012 0849
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/02/2012 0849
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/02/2012 0849
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/02/2012 0849
Trichloroethene	ND		1	1.0	0.18	ug/L	02/02/2012 0849
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/02/2012 0849
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/02/2012 0849
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ76958-002

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	106	70-130	02/02/2012 0717
Benzene	50	52		1	104	70-130	02/02/2012 0717
Bromodichloromethane	50	50		1	100	70-130	02/02/2012 0717
Bromoform	50	49		1	98	70-130	02/02/2012 0717
Bromomethane (Methyl bromide)	50	58		1	117	60-140	02/02/2012 0717
2-Butanone (MEK)	100	120		1	117	60-140	02/02/2012 0717
Carbon disulfide	50	53		1	106	60-140	02/02/2012 0717
Carbon tetrachloride	50	56		1	112	70-130	02/02/2012 0717
Chlorobenzene	50	52		1	104	70-130	02/02/2012 0717
Chloroethane	50	59		1	117	42-163	02/02/2012 0717
Chloroform	50	55		1	110	70-130	02/02/2012 0717
Chloromethane (Methyl chloride)	50	67	N	1	134	70-130	02/02/2012 0717
Dibromochloromethane	50	52		1	104	70-130	02/02/2012 0717
1,2-Dichlorobenzene	50	52		1	104	70-130	02/02/2012 0717
1,4-Dichlorobenzene	50	52		1	104	70-130	02/02/2012 0717
1,3-Dichlorobenzene	50	52		1	105	70-130	02/02/2012 0717
1,2-Dichloroethane	50	54		1	109	70-130	02/02/2012 0717
1,1-Dichloroethane	50	54		1	107	70-130	02/02/2012 0717
trans-1,2-Dichloroethene	50	52		1	104	70-130	02/02/2012 0717
cis-1,2-Dichloroethene	50	52		1	104	70-130	02/02/2012 0717
1,1-Dichloroethene	50	55		1	111	70-130	02/02/2012 0717
1,2-Dichloropropane	50	53		1	105	70-130	02/02/2012 0717
trans-1,3-Dichloropropene	50	53		1	105	70-130	02/02/2012 0717
cis-1,3-Dichloropropene	50	55		1	110	70-130	02/02/2012 0717
Ethylbenzene	50	52		1	105	70-130	02/02/2012 0717
2-Hexanone	100	110		1	108	60-140	02/02/2012 0717
Methyl tertiary butyl ether (MTBE)	50	55		1	110	70-130	02/02/2012 0717
4-Methyl-2-pentanone	100	110		1	115	60-140	02/02/2012 0717
Methylene chloride	50	53		1	106	70-130	02/02/2012 0717
Styrene	50	54		1	107	70-130	02/02/2012 0717
1,1,2,2-Tetrachloroethane	50	55		1	109	60-140	02/02/2012 0717
Tetrachloroethene	50	52		1	104	70-130	02/02/2012 0717
Toluene	50	53		1	106	70-130	02/02/2012 0717
1,2,4-Trichlorobenzene	50	52		1	105	70-130	02/02/2012 0717
1,1,1-Trichloroethane	50	54		1	108	70-130	02/02/2012 0717
1,1,2-Trichloroethane	50	51		1	101	70-130	02/02/2012 0717
Trichloroethene	50	53		1	106	70-130	02/02/2012 0717
Vinyl chloride	50	69	N	1	139	70-130	02/02/2012 0717
Xylenes (total)	100	100		1	104	70-130	02/02/2012 0717
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ76958-003

Matrix: Aqueous

Batch: 76958

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	71	+	1	71	40	70-130	20	02/02/2012 0740
Benzene	50	52		1	104	0.91	70-130	20	02/02/2012 0740
Bromodichloromethane	50	49		1	98	2.0	70-130	20	02/02/2012 0740
Bromoform	50	45		1	91	7.8	70-130	20	02/02/2012 0740
Bromomethane (Methyl bromide)	50	60		1	119	2.2	60-140	20	02/02/2012 0740
2-Butanone (MEK)	100	100		1	105	11	60-140	20	02/02/2012 0740
Carbon disulfide	50	50		1	101	5.3	60-140	20	02/02/2012 0740
Carbon tetrachloride	50	55		1	110	2.0	70-130	20	02/02/2012 0740
Chlorobenzene	50	52		1	105	0.60	70-130	20	02/02/2012 0740
Chloroethane	50	58		1	117	0.56	42-163	20	02/02/2012 0740
Chloroform	50	52		1	104	5.8	70-130	20	02/02/2012 0740
Chloromethane (Methyl chloride)	50	67	N	1	135	0.92	70-130	20	02/02/2012 0740
Dibromochloromethane	50	51		1	102	2.0	70-130	20	02/02/2012 0740
1,2-Dichlorobenzene	50	52		1	105	0.45	70-130	20	02/02/2012 0740
1,4-Dichlorobenzene	50	53		1	106	1.0	70-130	20	02/02/2012 0740
1,3-Dichlorobenzene	50	54		1	108	2.5	70-130	20	02/02/2012 0740
1,2-Dichloroethane	50	52		1	103	4.9	70-130	20	02/02/2012 0740
1,1-Dichloroethane	50	50		1	100	6.6	70-130	20	02/02/2012 0740
trans-1,2-Dichloroethene	50	49		1	98	6.2	70-130	20	02/02/2012 0740
cis-1,2-Dichloroethene	50	49		1	98	6.0	70-130	20	02/02/2012 0740
1,1-Dichloroethene	50	53		1	105	5.1	70-130	20	02/02/2012 0740
1,2-Dichloropropane	50	51		1	102	3.4	70-130	20	02/02/2012 0740
trans-1,3-Dichloropropene	50	54		1	107	1.9	70-130	20	02/02/2012 0740
cis-1,3-Dichloropropene	50	54		1	108	1.8	70-130	20	02/02/2012 0740
Ethylbenzene	50	54		1	107	2.0	70-130	20	02/02/2012 0740
2-Hexanone	100	98		1	98	9.6	60-140	20	02/02/2012 0740
Methyl tertiary butyl ether (MTBE)	50	50		1	100	9.6	70-130	20	02/02/2012 0740
4-Methyl-2-pentanone	100	100		1	100	13	60-140	20	02/02/2012 0740
Methylene chloride	50	48		1	95	11	70-130	20	02/02/2012 0740
Styrene	50	54		1	108	0.71	70-130	20	02/02/2012 0740
1,1,2,2-Tetrachloroethane	50	51		1	102	6.5	60-140	20	02/02/2012 0740
Tetrachloroethene	50	54		1	108	3.6	70-130	20	02/02/2012 0740
Toluene	50	53		1	106	0.13	70-130	20	02/02/2012 0740
1,2,4-Trichlorobenzene	50	54		1	108	2.9	70-130	20	02/02/2012 0740
1,1,1-Trichloroethane	50	53		1	107	1.5	70-130	20	02/02/2012 0740
1,1,2-Trichloroethane	50	50		1	99	2.0	70-130	20	02/02/2012 0740
Trichloroethene	50	54		1	109	2.5	70-130	20	02/02/2012 0740
Vinyl chloride	50	72	N	1	143	3.2	70-130	20	02/02/2012 0740
Xylenes (total)	100	110		1	107	2.1	70-130	20	02/02/2012 0740
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		97	70-130						
1,2-Dichloroethane-d4		103	70-130						
Toluene-d8		98	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

Telephone No. (803) 791-9700 Fax No. (803) 791-9111

www.shealylab.com

Number 11771

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 9

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: Arca-d's Cooler Inspected by/date: ELU 1/21/12 Lot #: NA 31002

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒ No ☐	1. Were custody seals present on the cooler?	
Yes ☒ No ☐	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt: <u>1-0</u> °C / °C / °C / °C		
Method: ☐ Temperature Blank ☒ Against Bottles		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes ☐ No ☐ NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)	
Yes ☒ No ☐ NA ☐	4. Is the commercial courier's packing slip attached to this form?	
Yes ☒ No ☐	5. Were proper custody procedures (relinquished/received) followed?	
Yes ☐ No ☒ NA ☐	5a Were samples relinquished by client to commercial courier?	
Yes ☒ No ☐	6. Were sample IDs listed?	
Yes ☒ No ☐	7. Was collection date & time listed?	
Yes ☒ No ☐	8. Were tests to be performed listed on the COC?	
Yes ☒ No ☐	9. Did all samples arrive in the proper containers for each test?	
Yes ☒ No ☐	10. Did all container label information (ID, date, time) agree with COC?	
Yes ☒ No ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?	
Yes ☒ No ☐	12. Was adequate sample volume available?	
Yes ☒ No ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
Yes ☐ No ☒	14. Were any samples containers missing?	
Yes ☐ No ☒	15. Were there any excess samples not listed on COC?	
Yes ☒ No ☐ NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?	
Yes ☐ No ☐ NA ☒	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?	
Yes ☐ No ☐ NA ☒	18. Were all cyanide and/or sulfide samples received at a pH >12?	
Yes ☐ No ☐ NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?	
Yes ☐ No ☐ NA ☒	20. Were collection temperatures documented on the COC for NC samples?	
Yes ☐ No ☐ NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number)		
Sample(s) <u>1-003 (TS) (2)</u> were received with bubbles >6 mm in diameter.		
Sample(s) _____		
TKN/cyanide/BNA/pest/PCB/herb. _____		
Corrective Action taken, if necessary:		
Was client notified: Yes ☐ No ☐		
SESI employee: _____		
Comments: _____		
Date/Time/Signature _____ Company: <u>ARCADIS G & M OF NC INC</u> Address: <u>801 CORPORATE CENTER DR</u> <u>RALEIGH</u> State: <u>NC</u> ZIP: <u>27607-5073</u> Internal Billing Reference: <u>68004055 4016</u>		

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Born

Project Name: Hunter Stewart H01

Project Number: GP08HAFS.H01C

Lot Number: NB17010

Date Completed: 03/02/2012



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** NB17010 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative ARCADIS U.S., Inc. Lot Number: NB17010

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The LCS for Endrin aldehyde was outside method control limits in batch 78136. The surrogate recovery for the LCS and sample -001 was outside method control limits in this batch. The associated sample (-002) was re-extracted and re-analyzed outside the holding time. All runs are reported.

Semivolatile Organic Compounds

The LCS/LCSD recovery for 4-Chloroaniline was slightly outside method control limits in batch 78138. As per method, it is statistically likely that a few analytes will be outside control limits; up to five analytes may marginally exceed the control limits. Therefore the associated sample results were reported and no corrective action was required.

The MS/MSD recoveries in batch 78138 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: NB17010

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	H01-MW-7D	Aqueous	02/16/2012 1600	02/17/2012
002	TRIP BLANK	Aqueous	02/16/2012 1600	02/17/2012

(2 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: NB17010

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	H01-MW-7D	Aqueous	Toluene	8260B	0.65	J	ug/L	5
001	H01-MW-7D	Aqueous	bis(2-Ethylhexyl)phthalate	8270D	2.3	J	ug/L	7
001	H01-MW-7D	Aqueous	gamma-BHC (Lindane)	8081B	0.0040	JPH	ug/L	11
001	H01-MW-7D	Aqueous	Barium	6010C	0.012	J	mg/L	12
002	TRIP BLANK	Aqueous	Methylene chloride	8260B	0.66	J	ug/L	13

(5 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/25/2012 1637	LBS		78695		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	0.65	J	1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-001
Description: H01-MW-7D	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run 1	Prep Method 3520C	Analytical Method 8270D	Dilution 1	Analysis Date 02/24/2012 2225	Analyst TAF	Prep Date 02/20/2012 1345	Batch 78138			
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene			83-32-9	8270D	ND		1.1	0.095	ug/L	1
Acenaphthylene			208-96-8	8270D	ND		1.1	0.17	ug/L	1
Anthracene			120-12-7	8270D	ND		1.1	0.14	ug/L	1
Benzo(a)anthracene			56-55-3	8270D	ND		1.1	0.16	ug/L	1
Benzo(a)pyrene			50-32-8	8270D	ND		1.1	0.17	ug/L	1
Benzo(b)fluoranthene			205-99-2	8270D	ND		1.1	0.21	ug/L	1
Benzo(g,h,i)perylene			191-24-2	8270D	ND		1.1	0.24	ug/L	1
Benzo(k)fluoranthene			207-08-9	8270D	ND		1.1	0.13	ug/L	1
4-Bromophenyl phenyl ether			101-55-3	8270D	ND		1.1	0.13	ug/L	1
Butyl benzyl phthalate			85-68-7	8270D	ND		5.3	1.8	ug/L	1
Carbazole			86-74-8	8270D	ND		1.1	0.26	ug/L	1
4-Chloro-3-methyl phenol			59-50-7	8270D	ND		1.1	0.23	ug/L	1
4-Chloroaniline			106-47-8	8270D	ND		1.1	0.14	ug/L	1
bis(2-Chloroethoxy)methane			111-91-1	8270D	ND		1.1	0.14	ug/L	1
bis(2-Chloroisopropyl)ether			108-60-1	8270D	ND		1.1	0.084	ug/L	1
2-Chloronaphthalene			91-58-7	8270D	ND		1.1	0.13	ug/L	1
2-Chlorophenol			95-57-8	8270D	ND		1.1	0.14	ug/L	1
4-Chlorophenyl phenyl ether			7005-72-3	8270D	ND		1.1	0.12	ug/L	1
Chrysene			218-01-9	8270D	ND		1.1	0.13	ug/L	1
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		1.1	0.14	ug/L	1
Dibenzofuran			132-64-9	8270D	ND		1.1	0.17	ug/L	1
3,3'-Dichlorobenzidine			91-94-1	8270D	ND		5.3	0.85	ug/L	1
2,4-Dichlorophenol			120-83-2	8270D	ND		1.1	0.16	ug/L	1
Diethylphthalate			84-66-2	8270D	ND		5.3	1.8	ug/L	1
Dimethyl phthalate			131-11-3	8270D	ND		5.3	1.8	ug/L	1
2,4-Dimethylphenol			105-67-9	8270D	ND		1.1	0.33	ug/L	1
Di-n-butyl phthalate			84-74-2	8270D	ND		5.3	1.8	ug/L	1
4,6-Dinitro-2-methylphenol			534-52-1	8270D	ND		5.3	1.6	ug/L	1
2,4-Dinitrophenol			51-28-5	8270D	ND		5.3	0.26	ug/L	1
2,4-Dinitrotoluene			121-14-2	8270D	ND		2.1	0.47	ug/L	1
2,6-Dinitrotoluene			606-20-2	8270D	ND		2.1	0.42	ug/L	1
Di-n-octylphthalate			117-84-0	8270D	ND		5.3	1.8	ug/L	1
bis(2-Ethylhexyl)phthalate			117-81-7	8270D	2.3	J	5.3	1.8	ug/L	1
Fluoranthene			206-44-0	8270D	ND		1.1	0.22	ug/L	1
Fluorene			86-73-7	8270D	ND		1.1	0.11	ug/L	1
Hexachlorobenzene			118-74-1	8270D	ND		1.1	0.22	ug/L	1
Hexachlorobutadiene			87-68-3	8270D	ND		1.1	0.095	ug/L	1
Hexachlorocyclopentadiene			77-47-4	8270D	ND		5.3	0.24	ug/L	1
Hexachloroethane			67-72-1	8270D	ND		1.1	0.12	ug/L	1
Indeno(1,2,3-c,d)pyrene			193-39-5	8270D	ND		1.1	0.24	ug/L	1
Isophorone			78-59-1	8270D	ND		1.1	0.084	ug/L	1
2-Methylnaphthalene			91-57-6	8270D	ND		1.1	0.084	ug/L	1
2-Methylphenol			95-48-7	8270D	ND		1.1	0.18	ug/L	1
3 & 4-Methylphenol			106-44-5	8270D	ND		2.1	0.60	ug/L	1
PQL = Practical quantitation limit			B = Detected in the method blank			E = Quantitation of compound exceeded the calibration range			H = Out of holding time	
ND = Not detected at or above the MDL			J = Estimated result < PQL and ≥ MDL			P = The RPD between two GC columns exceeds 40%			N = Recovery is out of criteria	
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"					* = Reportable result (only when report all runs)					

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	02/24/2012 2225	TAF	02/20/2012 1345	78138

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.1	0.074	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.1	0.58	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.1	0.81	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.1	0.41	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.1	0.11	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.1	0.28	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.3	0.67	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.1	0.084	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.1	0.40	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.3	0.57	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.1	0.19	ug/L	1
Phenol	108-95-2	8270D	ND		1.1	0.12	ug/L	1
Pyrene	129-00-0	8270D	ND		1.1	0.17	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.1	0.19	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.1	0.23	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		60	24-127
Nitrobenzene-d5		63	38-127
Phenol-d5		69	28-128
Terphenyl-d14		52	10-148
2,4,6-Tribromophenol		78	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Herbicides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8151A	8151A	1	02/22/2012 1751	MPM	02/20/2012 2027	78231			
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2,4-D			94-75-7	8151A	ND		2.2	0.43	ug/L	1
2,4,5-T			93-76-5	8151A	ND		0.54	0.11	ug/L	1
2,4,5-TP (Silvex)			93-72-1	8151A	ND		0.54	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
DCAA		82	62-117							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-001
Description: H01-MW-7D	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	02/23/2012 2314	NCM	02/20/2012 1630	78136
2	3520C	8081B	1	03/01/2012 2222	NCM	02/27/2012 1720	78792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND*		0.026	0.0018	ug/L	1
alpha-BHC	319-84-6	8081B	ND*		0.026	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND*		0.026	0.0040	ug/L	1
delta-BHC	319-86-8	8081B	ND*		0.026	0.0011	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.026	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND*		0.026	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND*		0.026	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND*		0.026	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND*		0.026	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND*		0.026	0.0021	ug/L	1
Dieldrin	60-57-1	8081B	ND*		0.026	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND*		0.026	0.0023	ug/L	1
Endosulfan II	33213-65-9	8081B	ND*		0.026	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND*		0.026	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND*		0.026	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND*		0.026	0.0020	ug/L	1
Endrin ketone	53494-70-5	8081B	ND*		0.026	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND*		0.026	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND*		0.026	0.0021	ug/L	1
Methoxychlor	72-43-5	8081B	ND*		0.10	0.0021	ug/L	1
Toxaphene	8001-35-2	8081B	ND*		0.26	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl	N	11	20-131	H	29	20-131		
Tetrachloro-m-xylene		83	26-132	H	91	26-132		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-001			
Description: H01-MW-7D				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	02/23/2012 2314	NCM	02/20/2012 1630	78136
2	3520C	8081B	1	03/01/2012 2222	NCM	02/27/2012 1720	78792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.026	0.0018	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.026	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.026	0.0041	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.026	0.0011	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	0.0040*	JPH	0.026	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.026	0.0014	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.026	0.0016	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.026	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.026	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.026	0.0021	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.026	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.026	0.0023	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.026	0.0016	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.026	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.026	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	ND	H	0.026	0.0020	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.026	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.026	0.014	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.026	0.0021	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0021	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.26	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl	N	11	20-131	H	29	20-131		
Tetrachloro-m-xylene		83	26-132	H	91	26-132		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: NB17010-001

Description: H01-MW-7D

Matrix: Aqueous

Date Sampled: 02/16/2012 1600

Date Received: 02/17/2012

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	02/21/2012 2050	COH	02/21/2012 1725	78310
1	3005A	6010C	1	02/22/2012 1217	CDF	02/20/2012 1350	78164
2	3005A	6010C	1	02/23/2012 1348	CDF	02/20/2012 1350	78164

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.012	J	0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	2
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: NB17010-002			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 02/16/2012 1600							
Date Received: 02/17/2012							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/25/2012 1615	LBS		78695		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	0.66	J	1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		* = Reportable result (only when report all runs)	

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: NB17010-002
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 02/16/2012 1600	
Date Received: 02/17/2012	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ78695-001

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	02/25/2012 1409
Benzene	ND		1	1.0	0.13	ug/L	02/25/2012 1409
Bromodichloromethane	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Bromoform	ND		1	1.0	0.66	ug/L	02/25/2012 1409
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	02/25/2012 1409
2-Butanone (MEK)	ND		1	10	2.0	ug/L	02/25/2012 1409
Carbon disulfide	ND		1	1.0	0.097	ug/L	02/25/2012 1409
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	02/25/2012 1409
Chlorobenzene	ND		1	2.0	0.33	ug/L	02/25/2012 1409
Chloroethane	ND		1	2.0	0.47	ug/L	02/25/2012 1409
Chloroform	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	02/25/2012 1409
Dibromochloromethane	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	02/25/2012 1409
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/25/2012 1409
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	02/25/2012 1409
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	02/25/2012 1409
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	02/25/2012 1409
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	02/25/2012 1409
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	02/25/2012 1409
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	02/25/2012 1409
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
2-Hexanone	ND		1	10	0.27	ug/L	02/25/2012 1409
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/25/2012 1409
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	02/25/2012 1409
Methylene chloride	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Styrene	ND		1	1.0	0.12	ug/L	02/25/2012 1409
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	02/25/2012 1409
Tetrachloroethene	ND		1	1.0	0.13	ug/L	02/25/2012 1409
Toluene	ND		1	1.0	0.33	ug/L	02/25/2012 1409
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	02/25/2012 1409
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	02/25/2012 1409
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	02/25/2012 1409
Trichloroethene	ND		1	1.0	0.18	ug/L	02/25/2012 1409
Vinyl chloride	ND		1	1.0	0.054	ug/L	02/25/2012 1409
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/25/2012 1409
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		99	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78695-002

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	76		1	76	70-130	02/25/2012 1152
Benzene	50	51		1	101	70-130	02/25/2012 1152
Bromodichloromethane	50	56		1	112	70-130	02/25/2012 1152
Bromoform	50	57		1	114	70-130	02/25/2012 1152
Bromomethane (Methyl bromide)	50	64		1	128	60-140	02/25/2012 1152
2-Butanone (MEK)	100	97		1	97	60-140	02/25/2012 1152
Carbon disulfide	50	56		1	112	60-140	02/25/2012 1152
Carbon tetrachloride	50	53		1	107	70-130	02/25/2012 1152
Chlorobenzene	50	51		1	101	70-130	02/25/2012 1152
Chloroethane	50	56		1	112	42-163	02/25/2012 1152
Chloroform	50	52		1	105	70-130	02/25/2012 1152
Chloromethane (Methyl chloride)	50	54		1	108	70-130	02/25/2012 1152
Dibromochloromethane	50	59		1	117	70-130	02/25/2012 1152
1,4-Dichlorobenzene	50	53		1	105	70-130	02/25/2012 1152
1,3-Dichlorobenzene	50	54		1	107	70-130	02/25/2012 1152
1,2-Dichlorobenzene	50	53		1	106	70-130	02/25/2012 1152
1,1-Dichloroethane	50	51		1	102	70-130	02/25/2012 1152
1,2-Dichloroethane	50	55		1	111	70-130	02/25/2012 1152
trans-1,2-Dichloroethene	50	51		1	102	70-130	02/25/2012 1152
1,1-Dichloroethene	50	49		1	97	70-130	02/25/2012 1152
cis-1,2-Dichloroethene	50	52		1	105	70-130	02/25/2012 1152
1,2-Dichloropropane	50	53		1	106	70-130	02/25/2012 1152
cis-1,3-Dichloropropene	50	61		1	121	70-130	02/25/2012 1152
trans-1,3-Dichloropropene	50	64		1	128	70-130	02/25/2012 1152
Ethylbenzene	50	52		1	104	70-130	02/25/2012 1152
2-Hexanone	100	120		1	116	60-140	02/25/2012 1152
Methyl tertiary butyl ether (MTBE)	50	55		1	109	70-130	02/25/2012 1152
4-Methyl-2-pentanone	100	110		1	107	60-140	02/25/2012 1152
Methylene chloride	50	50		1	99	70-130	02/25/2012 1152
Styrene	50	53		1	106	70-130	02/25/2012 1152
1,1,2,2-Tetrachloroethane	50	60		1	119	60-140	02/25/2012 1152
Tetrachloroethene	50	50		1	99	70-130	02/25/2012 1152
Toluene	50	51		1	103	70-130	02/25/2012 1152
1,2,4-Trichlorobenzene	50	52		1	104	70-130	02/25/2012 1152
1,1,2-Trichloroethane	50	57		1	114	70-130	02/25/2012 1152
1,1,1-Trichloroethane	50	51		1	102	70-130	02/25/2012 1152
Trichloroethene	50	49		1	98	70-130	02/25/2012 1152
Vinyl chloride	50	55		1	109	70-130	02/25/2012 1152
Xylenes (total)	100	110		1	105	70-130	02/25/2012 1152
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		97	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		98	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ78695-003

Matrix: Aqueous

Batch: 78695

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	110	+	1	113	39	70-130	20	02/25/2012 1213
Benzene	50	51		1	103	1.5	70-130	20	02/25/2012 1213
Bromodichloromethane	50	57		1	115	2.4	70-130	20	02/25/2012 1213
Bromoform	50	58		1	117	2.3	70-130	20	02/25/2012 1213
Bromomethane (Methyl bromide)	50	67		1	134	4.4	60-140	20	02/25/2012 1213
2-Butanone (MEK)	100	120		1	117	19	60-140	20	02/25/2012 1213
Carbon disulfide	50	56		1	112	0.45	60-140	20	02/25/2012 1213
Carbon tetrachloride	50	54		1	109	1.9	70-130	20	02/25/2012 1213
Chlorobenzene	50	51		1	103	1.4	70-130	20	02/25/2012 1213
Chloroethane	50	56		1	113	0.57	42-163	20	02/25/2012 1213
Chloroform	50	54		1	109	3.6	70-130	20	02/25/2012 1213
Chloromethane (Methyl chloride)	50	55		1	109	1.2	70-130	20	02/25/2012 1213
Dibromochloromethane	50	58		1	116	0.92	70-130	20	02/25/2012 1213
1,4-Dichlorobenzene	50	53		1	106	0.89	70-130	20	02/25/2012 1213
1,3-Dichlorobenzene	50	54		1	107	0.12	70-130	20	02/25/2012 1213
1,2-Dichlorobenzene	50	53		1	105	0.67	70-130	20	02/25/2012 1213
1,1-Dichloroethane	50	52		1	104	2.4	70-130	20	02/25/2012 1213
1,2-Dichloroethane	50	58		1	116	4.8	70-130	20	02/25/2012 1213
trans-1,2-Dichloroethene	50	51		1	103	0.12	70-130	20	02/25/2012 1213
1,1-Dichloroethene	50	50		1	101	3.2	70-130	20	02/25/2012 1213
cis-1,2-Dichloroethene	50	53		1	106	1.3	70-130	20	02/25/2012 1213
1,2-Dichloropropane	50	55		1	110	3.1	70-130	20	02/25/2012 1213
cis-1,3-Dichloropropene	50	61		1	122	0.46	70-130	20	02/25/2012 1213
trans-1,3-Dichloropropene	50	64		1	128	0.42	70-130	20	02/25/2012 1213
Ethylbenzene	50	52		1	103	0.52	70-130	20	02/25/2012 1213
2-Hexanone	100	110		1	114	1.1	60-140	20	02/25/2012 1213
Methyl tertiary butyl ether (MTBE)	50	58		1	116	5.8	70-130	20	02/25/2012 1213
4-Methyl-2-pentanone	100	120		1	117	8.9	60-140	20	02/25/2012 1213
Methylene chloride	50	51		1	102	2.5	70-130	20	02/25/2012 1213
Styrene	50	56		1	111	4.3	70-130	20	02/25/2012 1213
1,1,2,2-Tetrachloroethane	50	59		1	118	1.1	60-140	20	02/25/2012 1213
Tetrachloroethene	50	50		1	100	0.45	70-130	20	02/25/2012 1213
Toluene	50	51		1	103	0.24	70-130	20	02/25/2012 1213
1,2,4-Trichlorobenzene	50	46		1	91	13	70-130	20	02/25/2012 1213
1,1,2-Trichloroethane	50	57		1	113	0.70	70-130	20	02/25/2012 1213
1,1,1-Trichloroethane	50	52		1	105	2.4	70-130	20	02/25/2012 1213
Trichloroethene	50	49		1	99	0.25	70-130	20	02/25/2012 1213
Vinyl chloride	50	56		1	112	2.2	70-130	20	02/25/2012 1213
Xylenes (total)	100	110		1	108	2.6	70-130	20	02/25/2012 1213
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		100	70-130						
1,2-Dichloroethane-d4		111	70-130						
Toluene-d8		98	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: NQ78138-001

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	02/24/2012 2135
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	02/24/2012 2135
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	02/24/2012 2135
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	02/24/2012 2135
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	02/24/2012 2135
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	02/24/2012 2135
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	02/24/2012 2135
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
2-Chlorophenol	ND		1	1.0	0.13	ug/L	02/24/2012 2135
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	02/24/2012 2135
2-Methylphenol	ND		1	1.0	0.17	ug/L	02/24/2012 2135
2-Nitroaniline	ND		1	2.0	0.55	ug/L	02/24/2012 2135
2-Nitrophenol	ND		1	2.0	0.27	ug/L	02/24/2012 2135
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	02/24/2012 2135
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	02/24/2012 2135
3-Nitroaniline	ND		1	2.0	0.77	ug/L	02/24/2012 2135
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	02/24/2012 2135
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	02/24/2012 2135
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	02/24/2012 2135
4-Chloroaniline	ND		1	1.0	0.13	ug/L	02/24/2012 2135
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	02/24/2012 2135
4-Nitroaniline	ND		1	2.0	0.39	ug/L	02/24/2012 2135
4-Nitrophenol	ND		1	5.0	0.64	ug/L	02/24/2012 2135
Acenaphthene	ND		1	1.0	0.090	ug/L	02/24/2012 2135
Acenaphthylene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Anthracene	ND		1	1.0	0.13	ug/L	02/24/2012 2135
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	02/24/2012 2135
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	02/24/2012 2135
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	02/24/2012 2135
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	02/24/2012 2135
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	02/24/2012 2135
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Carbazole	ND		1	1.0	0.25	ug/L	02/24/2012 2135
Chrysene	ND		1	1.0	0.12	ug/L	02/24/2012 2135
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	02/24/2012 2135
Dibenzofuran	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Diethylphthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	02/24/2012 2135
Fluoranthene	ND		1	1.0	0.21	ug/L	02/24/2012 2135

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: NQ78138-001

Batch: 78138

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 02/20/2012 1345

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	02/24/2012 2135
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	02/24/2012 2135
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	02/24/2012 2135
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	02/24/2012 2135
Hexachloroethane	ND		1	1.0	0.11	ug/L	02/24/2012 2135
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	02/24/2012 2135
Isophorone	ND		1	1.0	0.080	ug/L	02/24/2012 2135
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	02/24/2012 2135
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	02/24/2012 2135
Naphthalene	ND		1	1.0	0.070	ug/L	02/24/2012 2135
Nitrobenzene	ND		1	1.0	0.10	ug/L	02/24/2012 2135
Pentachlorophenol	ND		1	5.0	0.54	ug/L	02/24/2012 2135
Phenanthrene	ND		1	1.0	0.18	ug/L	02/24/2012 2135
Phenol	ND		1	1.0	0.11	ug/L	02/24/2012 2135
Pyrene	ND		1	1.0	0.16	ug/L	02/24/2012 2135
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		73	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		66	24-127				
Nitrobenzene-d5		69	38-127				
Phenol-d5		71	28-128				
Terphenyl-d14		69	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78138-002

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	02/24/2012 2200
2,4,6-Trichlorophenol	20	16		1	78	36-123	02/24/2012 2200
2,4-Dichlorophenol	20	17		1	83	38-127	02/24/2012 2200
2,4-Dimethylphenol	20	14		1	69	36-110	02/24/2012 2200
2,4-Dinitrophenol	100	95		1	95	33-143	02/24/2012 2200
2,4-Dinitrotoluene	40	32		1	81	55-137	02/24/2012 2200
2,6-Dinitrotoluene	40	33		1	82	53-128	02/24/2012 2200
2-Chloronaphthalene	20	13		1	63	42-132	02/24/2012 2200
2-Chlorophenol	20	14		1	68	40-128	02/24/2012 2200
2-Methylnaphthalene	20	17		1	86	49-122	02/24/2012 2200
2-Methylphenol	20	16		1	78	33-122	02/24/2012 2200
2-Nitroaniline	40	33		1	83	48-126	02/24/2012 2200
2-Nitrophenol	40	30		1	75	44-131	02/24/2012 2200
3 & 4-Methylphenol	40	33		1	83	48-112	02/24/2012 2200
3-Nitroaniline	40	33		1	83	29-109	02/24/2012 2200
4,6-Dinitro-2-methylphenol	100	89		1	89	46-151	02/24/2012 2200
4-Bromophenyl phenyl ether	20	16		1	81	49-123	02/24/2012 2200
4-Chloro-3-methyl phenol	20	18		1	90	48-136	02/24/2012 2200
4-Chloroaniline	20	2.6	N	1	13	18-73	02/24/2012 2200
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	02/24/2012 2200
4-Nitroaniline	40	39		1	97	42-154	02/24/2012 2200
4-Nitrophenol	100	85		1	85	43-145	02/24/2012 2200
Acenaphthene	20	16		1	79	51-130	02/24/2012 2200
Acenaphthylene	20	15		1	75	46-131	02/24/2012 2200
Anthracene	20	16		1	82	48-122	02/24/2012 2200
Benzo(a)anthracene	20	16		1	79	50-143	02/24/2012 2200
Benzo(a)pyrene	20	17		1	84	55-141	02/24/2012 2200
Benzo(b)fluoranthene	20	18		1	89	48-147	02/24/2012 2200
Benzo(g,h,i)perylene	20	15		1	76	48-139	02/24/2012 2200
Benzo(k)fluoranthene	20	15		1	74	48-148	02/24/2012 2200
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	02/24/2012 2200
bis(2-Chloroisopropyl)ether	20	14		1	68	36-133	02/24/2012 2200
bis(2-Ethylhexyl)phthalate	20	15		1	75	40-141	02/24/2012 2200
Butyl benzyl phthalate	20	17		1	85	52-142	02/24/2012 2200
Carbazole	20	20		1	98	45-101	02/24/2012 2200
Chrysene	20	16		1	80	51-137	02/24/2012 2200
Di-n-butyl phthalate	20	18		1	91	50-134	02/24/2012 2200
Di-n-octylphthalate	20	17		1	87	50-136	02/24/2012 2200
Dibenzo(a,h)anthracene	20	15		1	77	48-139	02/24/2012 2200
Dibenzofuran	20	16		1	80	45-142	02/24/2012 2200
Diethylphthalate	20	16		1	82	48-124	02/24/2012 2200
Dimethyl phthalate	20	16		1	81	43-122	02/24/2012 2200
Fluoranthene	20	17		1	84	50-124	02/24/2012 2200
Fluorene	20	16		1	81	39-122	02/24/2012 2200

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: NQ78138-002

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	16		1	79	46-125	02/24/2012 2200
Hexachlorobutadiene	20	14		1	71	38-121	02/24/2012 2200
Hexachlorocyclopentadiene	100	57		1	57	24-110	02/24/2012 2200
Hexachloroethane	20	9.8		1	49	32-109	02/24/2012 2200
Indeno(1,2,3-c,d)pyrene	20	15		1	76	49-146	02/24/2012 2200
Isophorone	20	18		1	88	43-118	02/24/2012 2200
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	02/24/2012 2200
N-Nitrosodiphenylamine (Diphenylamine)	4.3	3.5		1	81	44-124	02/24/2012 2200
Naphthalene	20	16		1	80	45-118	02/24/2012 2200
Nitrobenzene	20	15		1	74	46-131	02/24/2012 2200
Pentachlorophenol	100	92		1	92	30-137	02/24/2012 2200
Phenanthrene	20	17		1	83	49-122	02/24/2012 2200
Phenol	20	15		1	74	35-118	02/24/2012 2200
Pyrene	20	17		1	85	50-130	02/24/2012 2200
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		81	41-144				
2-Fluorobiphenyl		79	37-129				
2-Fluorophenol		68	24-127				
Nitrobenzene-d5		75	38-127				
Phenol-d5		78	28-128				
Terphenyl-d14		73	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: NB17010-001MS

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	42	29		1	70	10-133	02/24/2012 2249
Acenaphthylene	ND	42	27		1	65	34-128	02/24/2012 2249
Anthracene	ND	42	30		1	73	48-122	02/24/2012 2249
Benzo(a)anthracene	ND	42	29		1	70	53-98	02/24/2012 2249
Benzo(a)pyrene	ND	42	24		1	57	11-160	02/24/2012 2249
Benzo(b)fluoranthene	ND	42	27		1	65	10-165	02/24/2012 2249
Benzo(g,h,i)perylene	ND	42	21		1	51	42-111	02/24/2012 2249
Benzo(k)fluoranthene	ND	42	26		1	62	13-175	02/24/2012 2249
4-Bromophenyl phenyl ether	ND	42	30		1	72	49-123	02/24/2012 2249
Butyl benzyl phthalate	ND	42	33		1	80	52-142	02/24/2012 2249
Carbazole	ND	42	38		1	91	45-101	02/24/2012 2249
4-Chloro-3-methyl phenol	ND	42	29		1	69	40-98	02/24/2012 2249
4-Chloroaniline	ND	42	3.5	N	1	8.4	10-98	02/24/2012 2249
bis(2-Chloroethoxy)methane	ND	42	24		1	58	43-93	02/24/2012 2249
bis(2-Chloroisopropyl)ether	ND	42	25		1	60	36-99	02/24/2012 2249
2-Chloronaphthalene	ND	42	23		1	55	40-89	02/24/2012 2249
2-Chlorophenol	ND	42	24		1	58	33-92	02/24/2012 2249
4-Chlorophenyl phenyl ether	ND	42	31		1	73	34-124	02/24/2012 2249
Chrysene	ND	42	27		1	66	51-107	02/24/2012 2249
Dibenzo(a,h)anthracene	ND	42	21		1	51	47-116	02/24/2012 2249
Dibenzofuran	ND	42	30		1	72	45-94	02/24/2012 2249
2,4-Dichlorophenol	ND	42	25		1	60	34-105	02/24/2012 2249
Diethylphthalate	ND	42	34		1	80	48-124	02/24/2012 2249
Dimethyl phthalate	ND	42	31		1	75	43-122	02/24/2012 2249
2,4-Dimethylphenol	ND	42	19		1	45	33-77	02/24/2012 2249
Di-n-butyl phthalate	ND	42	39		1	95	50-134	02/24/2012 2249
4,6-Dinitro-2-methylphenol	ND	210	180		1	85	33-118	02/24/2012 2249
2,4-Dinitrophenol	ND	210	180		1	89	19-119	02/24/2012 2249
2,4-Dinitrotoluene	ND	83	65		1	79	50-104	02/24/2012 2249
2,6-Dinitrotoluene	ND	83	65		1	77	53-128	02/24/2012 2249
Di-n-octylphthalate	ND	42	17		1	41	40-112	02/24/2012 2249
bis(2-Ethylhexyl)phthalate	2.3	42	18		1	37	10-142	02/24/2012 2249
Fluoranthene	ND	42	33		1	79	50-124	02/24/2012 2249
Fluorene	ND	42	31		1	75	39-122	02/24/2012 2249
Hexachlorobenzene	ND	42	30		1	72	46-125	02/24/2012 2249
Hexachlorobutadiene	ND	42	21		1	50	42-94	02/24/2012 2249
Hexachlorocyclopentadiene	ND	210	78		1	37	14-89	02/24/2012 2249
Hexachloroethane	ND	42	16		1	39	39-86	02/24/2012 2249
Indeno(1,2,3-c,d)pyrene	ND	42	21		1	51	43-113	02/24/2012 2249
Isophorone	ND	42	26		1	63	42-84	02/24/2012 2249
2-Methylnaphthalene	ND	42	26		1	62	46-90	02/24/2012 2249
2-Methylphenol	ND	42	27		1	65	33-122	02/24/2012 2249
3 & 4-Methylphenol	ND	83	60		1	71	24-97	02/24/2012 2249
Naphthalene	ND	42	24		1	58	46-89	02/24/2012 2249

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: NB17010-001MS

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	83	63		1	75	48-126	02/24/2012 2249
3-Nitroaniline	ND	83	59		1	71	10-110	02/24/2012 2249
4-Nitroaniline	ND	83	73		1	87	41-99	02/24/2012 2249
Nitrobenzene	ND	42	26		1	63	44-91	02/24/2012 2249
2-Nitrophenol	ND	83	45		1	54	34-102	02/24/2012 2249
4-Nitrophenol	ND	210	170		1	82	29-122	02/24/2012 2249
N-Nitrosodi-n-propylamine	ND	42	30		1	73	41-96	02/24/2012 2249
N-Nitrosodiphenylamine (Diphenylamine)	ND	9.0	6.1		1	68	10-150	02/24/2012 2249
Pentachlorophenol	ND	210	170		1	84	32-110	02/24/2012 2249
Phenanthrene	ND	42	33		1	79	49-122	02/24/2012 2249
Phenol	ND	42	27		1	64	33-92	02/24/2012 2249
Pyrene	ND	42	34		1	81	50-130	02/24/2012 2249
2,4,5-Trichlorophenol	ND	42	31		1	75	46-125	02/24/2012 2249
2,4,6-Trichlorophenol	ND	42	29		1	70	36-123	02/24/2012 2249
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		67	37-129					
2-Fluorophenol		55	24-127					
Nitrobenzene-d5		62	38-127					
Phenol-d5		64	28-128					
Terphenyl-d14		57	10-148					
2,4,6-Tribromophenol		77	41-144					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: NB17010-001MD

Batch: 78138

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	43	30		1	71	3.7	10-133	40	02/24/2012 2314
Acenaphthylene	ND	43	29		1	67	6.2	34-128	40	02/24/2012 2314
Anthracene	ND	43	30		1	70	2.2	48-122	40	02/24/2012 2314
Benzo(a)anthracene	ND	43	19	N	1	46	40	53-98	40	02/24/2012 2314
Benzo(a)pyrene	ND	43	12	+	1	28	66	11-160	40	02/24/2012 2314
Benzo(b)fluoranthene	ND	43	15	+	1	36	55	10-165	40	02/24/2012 2314
Benzo(g,h,i)perylene	ND	43	10	N,+	1	24	72	42-111	40	02/24/2012 2314
Benzo(k)fluoranthene	ND	43	15	+	1	35	52	13-175	40	02/24/2012 2314
4-Bromophenyl phenyl ether	ND	43	31		1	72	1.3	49-123	40	02/24/2012 2314
Butyl benzyl phthalate	ND	43	28		1	66	17	52-142	40	02/24/2012 2314
Carbazole	ND	43	38		1	90	1.1	45-101	40	02/24/2012 2314
4-Chloro-3-methyl phenol	ND	43	36		1	84	22	40-98	40	02/24/2012 2314
4-Chloroaniline	ND	43	2.1	N,+	1	5.0	48	10-98	40	02/24/2012 2314
bis(2-Chloroethoxy)methane	ND	43	31		1	74	26	43-93	40	02/24/2012 2314
bis(2-Chloroisopropyl)ether	ND	43	26		1	62	5.9	36-99	40	02/24/2012 2314
2-Chloronaphthalene	ND	43	24		1	57	4.8	40-89	40	02/24/2012 2314
2-Chlorophenol	ND	43	26		1	62	8.2	33-92	40	02/24/2012 2314
4-Chlorophenyl phenyl ether	ND	43	30		1	70	1.8	34-124	40	02/24/2012 2314
Chrysene	ND	43	16	N,+	1	37	54	51-107	40	02/24/2012 2314
Dibenzo(a,h)anthracene	ND	43	11	N,+	1	26	61	47-116	40	02/24/2012 2314
Dibenzofuran	ND	43	30		1	72	1.9	45-94	40	02/24/2012 2314
2,4-Dichlorophenol	ND	43	32		1	76	26	34-105	40	02/24/2012 2314
Diethylphthalate	ND	43	32		1	75	5.2	48-124	40	02/24/2012 2314
Dimethyl phthalate	ND	43	32		1	75	1.1	43-122	40	02/24/2012 2314
2,4-Dimethylphenol	ND	43	27		1	62	36	33-77	40	02/24/2012 2314
Di-n-butyl phthalate	ND	43	37		1	86	7.4	50-134	40	02/24/2012 2314
4,6-Dinitro-2-methylphenol	ND	210	180		1	83	0.14	33-118	40	02/24/2012 2314
2,4-Dinitrophenol	ND	210	190		1	91	4.3	19-119	40	02/24/2012 2314
2,4-Dinitrotoluene	ND	85	64		1	75	2.4	50-104	40	02/24/2012 2314
2,6-Dinitrotoluene	ND	85	65		1	76	0.56	53-128	40	02/24/2012 2314
Di-n-octylphthalate	ND	43	8.5	N,+	1	20	68	40-112	40	02/24/2012 2314
bis(2-Ethylhexyl)phthalate	2.3	43	9.6	+	1	17	59	10-142	40	02/24/2012 2314
Fluoranthene	ND	43	31		1	74	4.8	50-124	40	02/24/2012 2314
Fluorene	ND	43	31		1	72	2.0	39-122	40	02/24/2012 2314
Hexachlorobenzene	ND	43	28		1	66	6.2	46-125	40	02/24/2012 2314
Hexachlorobutadiene	ND	43	28		1	66	30	42-94	40	02/24/2012 2314
Hexachlorocyclopentadiene	ND	210	100		1	49	28	14-89	40	02/24/2012 2314
Hexachloroethane	ND	43	18		1	43	12	39-86	40	02/24/2012 2314
Indeno(1,2,3-c,d)pyrene	ND	43	10	N,+	1	24	69	43-113	40	02/24/2012 2314
Isophorone	ND	43	34		1	80	26	42-84	40	02/24/2012 2314
2-Methylnaphthalene	ND	43	34		1	79	27	46-90	40	02/24/2012 2314
2-Methylphenol	ND	43	29		1	69	8.1	33-122	40	02/24/2012 2314
3 & 4-Methylphenol	ND	85	63		1	74	5.9	24-97	40	02/24/2012 2314
Naphthalene	ND	43	32		1	75	27	46-89	40	02/24/2012 2314

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: NB17010-001MD

Matrix: Aqueous

Batch: 78138

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 02/20/2012 1345

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	85	64		1	75	2.5	48-126	40	02/24/2012 2314
3-Nitroaniline	ND	85	58		1	68	2.6	10-110	40	02/24/2012 2314
4-Nitroaniline	ND	85	73		1	86	0.10	41-99	40	02/24/2012 2314
Nitrobenzene	ND	43	29		1	67	8.7	44-91	40	02/24/2012 2314
2-Nitrophenol	ND	85	59		1	70	28	34-102	40	02/24/2012 2314
4-Nitrophenol	ND	210	160		1	76	4.8	29-122	40	02/24/2012 2314
N-Nitrosodi-n-propylamine	ND	43	33		1	78	9.3	41-96	40	02/24/2012 2314
N-Nitrosodiphenylamine (Diphenylamine)	ND	9.1	5.6		1	61	9.3	10-150	40	02/24/2012 2314
Pentachlorophenol	ND	210	180		1	84	2.7	32-110	40	02/24/2012 2314
Phenanthrene	ND	43	32		1	75	2.3	49-122	40	02/24/2012 2314
Phenol	ND	43	28		1	66	5.1	33-92	40	02/24/2012 2314
Pyrene	ND	43	31		1	72	10	50-130	40	02/24/2012 2314
2,4,5-Trichlorophenol	ND	43	32		1	74	1.7	46-125	40	02/24/2012 2314
2,4,6-Trichlorophenol	ND	43	31		1	72	5.9	36-123	40	02/24/2012 2314
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	37-129							
2-Fluorophenol		61	24-127							
Nitrobenzene-d5		67	38-127							
Phenol-d5		68	28-128							
Terphenyl-d14		36	10-148							
2,4,6-Tribromophenol		78	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78136-001

Matrix: Aqueous

Batch: 78136

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/20/2012 1630

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
4,4'-DDE	ND		1	0.025	0.011	ug/L	02/23/2012 2235
4,4'-DDT	ND		1	0.025	0.0020	ug/L	02/23/2012 2235
Aldrin	ND		1	0.025	0.0017	ug/L	02/23/2012 2235
alpha-BHC	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	02/23/2012 2235
beta-BHC	ND		1	0.025	0.0039	ug/L	02/23/2012 2235
delta-BHC	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
Dieldrin	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
Endosulfan I	ND		1	0.025	0.0022	ug/L	02/23/2012 2235
Endosulfan II	ND		1	0.025	0.0015	ug/L	02/23/2012 2235
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
Endrin	ND		1	0.025	0.0010	ug/L	02/23/2012 2235
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	02/23/2012 2235
Endrin ketone	ND		1	0.025	0.0012	ug/L	02/23/2012 2235
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	02/23/2012 2235
gamma-Chlordane	0.0015	J	1	0.025	0.0015	ug/L	02/23/2012 2235
Heptachlor	ND		1	0.025	0.013	ug/L	02/23/2012 2235
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	02/23/2012 2235
Methoxychlor	ND		1	0.10	0.0020	ug/L	02/23/2012 2235
Toxaphene	ND		1	0.25	0.11	ug/L	02/23/2012 2235
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		48	20-131				
Tetrachloro-m-xylene		88	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78136-002

Matrix: Aqueous

Batch: 78136

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/20/2012 1630

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	94	70-130	02/23/2012 2255
4,4'-DDE	0.50	0.47		1	93	70-130	02/23/2012 2255
4,4'-DDT	0.50	0.49		1	97	70-130	02/23/2012 2255
Aldrin	0.50	0.48		1	96	70-130	02/23/2012 2255
alpha-BHC	0.50	0.47		1	94	70-130	02/23/2012 2255
beta-BHC	0.50	0.47		1	94	70-130	02/23/2012 2255
delta-BHC	0.50	0.45		1	90	70-130	02/23/2012 2255
Dieldrin	0.50	0.47		1	95	70-130	02/23/2012 2255
Endosulfan I	0.50	0.45		1	89	70-130	02/23/2012 2255
Endosulfan II	0.50	0.43		1	87	70-130	02/23/2012 2255
Endosulfan sulfate	0.50	0.45		1	91	70-130	02/23/2012 2255
Endrin	0.50	0.51		1	102	70-130	02/23/2012 2255
Endrin aldehyde	0.50	0.32	N	1	65	70-130	02/23/2012 2255
gamma-BHC (Lindane)	0.50	0.46		1	92	70-130	02/23/2012 2255
gamma-Chlordane	0.50	0.49		1	98	70-130	02/23/2012 2255
Heptachlor	0.50	0.43		1	86	70-130	02/23/2012 2255
Heptachlor epoxide	0.50	0.45		1	90	70-130	02/23/2012 2255
Methoxychlor	0.50	0.50		1	100	70-130	02/23/2012 2255
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl	N	13	20-131				
Tetrachloro-m-xylene		92	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MB

Sample ID: NQ78231-001

Batch: 78231

Analytical Method: 8151A

Matrix: Aqueous

Prep Method: 8151A

Prep Date: 02/20/2012 2027

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-T	ND		1	0.50	0.10	ug/L	02/22/2012 1704
2,4,5-TP (Silvex)	ND		1	0.50	0.10	ug/L	02/22/2012 1704
2,4-D	ND		1	2.0	0.40	ug/L	02/22/2012 1704
Surrogate	Q	% Rec	Acceptance Limit				
DCAA		82	62-117				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCS

Sample ID: NQ78231-002

Matrix: Aqueous

Batch: 78231

Prep Method: 8151A

Analytical Method: 8151A

Prep Date: 02/20/2012 2027

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-T	10	9.0		1	90	70-130	02/22/2012 1728
2,4,5-TP (Silvex)	10	8.7		1	87	70-130	02/22/2012 1728
2,4-D	10	9.3		1	93	70-130	02/22/2012 1728
Surrogate	Q	% Rec	Acceptance Limit				
DCAA		80	62-117				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78792-001

Matrix: Aqueous

Batch: 78792

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/27/2012 1720

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
4,4'-DDE	ND		1	0.025	0.011	ug/L	03/01/2012 2143
4,4'-DDT	ND		1	0.025	0.0020	ug/L	03/01/2012 2143
Aldrin	ND		1	0.025	0.0017	ug/L	03/01/2012 2143
alpha-BHC	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	03/01/2012 2143
beta-BHC	ND		1	0.025	0.0039	ug/L	03/01/2012 2143
delta-BHC	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
Dieldrin	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
Endosulfan I	ND		1	0.025	0.0022	ug/L	03/01/2012 2143
Endosulfan II	ND		1	0.025	0.0015	ug/L	03/01/2012 2143
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
Endrin	ND		1	0.025	0.0010	ug/L	03/01/2012 2143
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	03/01/2012 2143
Endrin ketone	ND		1	0.025	0.0012	ug/L	03/01/2012 2143
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	03/01/2012 2143
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	03/01/2012 2143
Heptachlor	ND		1	0.025	0.013	ug/L	03/01/2012 2143
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	03/01/2012 2143
Methoxychlor	ND		1	0.10	0.0020	ug/L	03/01/2012 2143
Toxaphene	ND		1	0.25	0.11	ug/L	03/01/2012 2143
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		94	20-131				
Tetrachloro-m-xylene		93	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78792-002

Matrix: Aqueous

Batch: 78792

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 02/27/2012 1720

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.54		1	108	70-130	03/01/2012 2202
4,4'-DDE	0.50	0.55		1	110	70-130	03/01/2012 2202
4,4'-DDT	0.50	0.58		1	115	70-130	03/01/2012 2202
Aldrin	0.50	0.53		1	105	70-130	03/01/2012 2202
alpha-BHC	0.50	0.53		1	107	70-130	03/01/2012 2202
beta-BHC	0.50	0.52		1	104	70-130	03/01/2012 2202
delta-BHC	0.50	0.51		1	102	70-130	03/01/2012 2202
Dieldrin	0.50	0.54		1	108	70-130	03/01/2012 2202
Endosulfan I	0.50	0.51		1	103	70-130	03/01/2012 2202
Endosulfan II	0.50	0.51		1	102	70-130	03/01/2012 2202
Endosulfan sulfate	0.50	0.54		1	108	70-130	03/01/2012 2202
Endrin	0.50	0.58		1	117	70-130	03/01/2012 2202
Endrin aldehyde	0.50	0.40		1	80	70-130	03/01/2012 2202
gamma-BHC (Lindane)	0.50	0.54		1	108	70-130	03/01/2012 2202
gamma-Chlordane	0.50	0.55		1	110	70-130	03/01/2012 2202
Heptachlor	0.50	0.48		1	97	70-130	03/01/2012 2202
Heptachlor epoxide	0.50	0.52		1	104	70-130	03/01/2012 2202
Methoxychlor	0.50	0.58		1	116	70-130	03/01/2012 2202
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		52	20-131				
Tetrachloro-m-xylene		95	26-132				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: NQ78164-001

Batch: 78164

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/20/2012 1350

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	0.0076	J	1	0.010	0.0040	mg/L	02/22/2012 1146
Barium	ND		1	0.025	0.0075	mg/L	02/22/2012 1146
Cadmium	ND		1	0.0020	0.00060	mg/L	02/23/2012 1336
Chromium	ND		1	0.0050	0.0021	mg/L	02/22/2012 1146
Lead	0.0041	J	1	0.010	0.0019	mg/L	02/22/2012 1146
Selenium	ND		1	0.010	0.0026	mg/L	02/22/2012 1146
Silver	ND		1	0.0050	0.00040	mg/L	02/23/2012 1336

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: NQ78164-002

Batch: 78164

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/20/2012 1350

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.41		1	104	80-120	02/22/2012 1150
Barium	2.0	2.1		1	105	80-120	02/22/2012 1150
Cadmium	0.40	0.42		1	106	80-120	02/23/2012 1340
Chromium	2.0	2.0		1	100	80-120	02/22/2012 1150
Lead	0.40	0.42		1	105	80-120	02/22/2012 1150
Selenium	0.40	0.42		1	105	80-120	02/22/2012 1150
Silver	0.40	0.41		1	102	80-120	02/23/2012 1340

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCSD

Sample ID: NQ78164-003

Matrix: Aqueous

Batch: 78164

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/20/2012 1350

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	0.40	0.39		1	98	6.0	80-120	20	02/22/2012 1154
Barium	2.0	2.1		1	105	0.51	80-120	20	02/22/2012 1154
Cadmium	0.40	0.42		1	106	0.022	80-120	20	02/23/2012 1344
Chromium	2.0	1.9		1	97	2.5	80-120	20	02/22/2012 1154
Lead	0.40	0.41		1	102	3.0	80-120	20	02/22/2012 1154
Selenium	0.40	0.42		1	105	0.44	80-120	20	02/22/2012 1154
Silver	0.40	0.41		1	102	0.50	80-120	20	02/23/2012 1344

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: NQ78310-001

Batch: 78310

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000053	mg/L	02/21/2012 2027

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: NQ78310-002

Matrix: Aqueous

Batch: 78310

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	108	85-115	02/21/2012 2030

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCSD

Sample ID: NQ78310-003

Batch: 78310

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 02/21/2012 1725

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0021		1	107	0.93	85-115	20	02/21/2012 2033

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%

J = Estimated result < PQL and $\geq$ MDL

N - Recovery is out of criteria

+ - RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



Wasserbau / Wasser-Management / Sanierung

[illegible][illegible]

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 9

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: ARCADIS Cooler Inspected by/date: W 2/17/12 Lot #: N1317010

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒ No ☐	1. Were custody seals present on the cooler?	
Yes ☒ No ☐	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt <u>58</u> °C <u>1</u> °C <u>1</u> °C <u>1</u> °C		
Method: ☐ Temperature Blank ☒ Against Bottles		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes ☐ No ☐ NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.	
Yes ☒ No ☐ NA ☐	4. Is the commercial courier's packing slip attached to this form?	
Yes ☐ No ☒	5. Were proper custody procedures (relinquished/received) followed?	
Yes ☐ No ☒ NA ☐	5a Were samples relinquished by client to commercial courier?	
Yes ☒ No ☐	6. Were sample IDs listed?	
Yes ☒ No ☐	7. Was collection date & time listed?	
Yes ☒ No ☐	8. Were tests to be performed listed on the COC?	
Yes ☒ No ☐	9. Did all samples arrive in the proper containers for each test?	
Yes ☒ No ☐	10. Did all container label information (ID, date, time) agree with COC?	
Yes ☒ No ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?	
Yes ☒ No ☐	12. Was adequate sample volume available?	
Yes ☐ No ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
Yes ☐ No ☒	14. Were any samples containers missing?	
Yes ☐ No ☒	15. Were there any excess samples not listed on COC?	
Yes ☐ No ☒ NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?	
Yes ☒ No ☐ NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?	
Yes ☐ No ☒ NA ☐	18. Were all cyanide and/or sulfide samples received at a pH >12?	
Yes ☐ No ☐ NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?	
Yes ☐ No ☒ NA ☐	20. Were collection temperatures documented on the COC for NC samples?	
Yes ☐ No ☐ NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number) _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.		
This portion can be removed for Recipient's records. in <u>2-19-12</u> Order's <u>Valyn Proulx</u> FedEx Tracking Number <u>877106322408</u> Phone <u>919 854-1232</u>		
Corrective Action taken, if necessary:		
Was client notified: Yes ☐ No ☐		
SESI employee: _____		
Comments: _____		
Company: <u>ARCADIS G & M OF NC INC</u>		
Address: <u>301 CORPORATE CENTER DR</u>		
City: <u>RALEIGH</u> State: <u>NC</u> ZIP: <u>27607-5243</u>		

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

Analytical data were evaluated in accordance with applicable USEPA SW-846 method requirements, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), analytical method control criteria, the analytical laboratory Quality Assurance Control Limits, the Fort Stewart Military Reservation and Hunter Army Airfield Quality Assurance Project Plan (ARCADIS-2008), and professional judgment.

The data review summarized in this report includes a review of all sample collection documentation and the electronic data validation of the analytical data housed in the project database. Sample collection documentation included sample collection logs and chains of custody. The electronic data validation was performed utilizing the EQUIS Data Qualification Module (DQM). DQM checks for the following parameters:

- Holding times and preservation;
- Blank contamination;
 - 1. Method blanks,
 - 2. Trip blanks,
 - 3. Equipment blanks;
- Matrix spike and Duplicate sample recovery;
- Matrix Spike and Matrix Spike Duplicate relative percent differences;
- Laboratory Control Sample and Duplicate recovery;
- Laboratory Control Sample and Duplicate relative percent differences;
- Surrogate recovery (organic analyses only); and
- Field duplicate relative percent difference.

Manual review was performed for the following items:

- Sample dilutions and reporting limits;
- Case Narratives; and
- Laboratory Duplicates

Data was generated by Shealy Environmental Services, Inc. – West Columbia, South Carolina. Data qualifiers were applied electronically to the database with any additional qualifiers added manually. A summary of the data as amended by data qualifiers is included with the original hard copy reports.

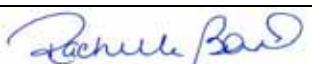
The attached table summarizes the data that were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on electronic and manual validation. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data in these SDGs are considered usable as reported.



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

The following list of data qualifiers and definitions were applied in accordance with qualification criteria defined in the greater than guidance documents:

- UB Compound/analyte detected in blank or associated blank, qualified as a non-detect at listed value.
- J The analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected greater than the reporting limit; however, the reported quantitation limit is approximate and may, or may not represent the actual limit of quantitation necessary to accurately and precisely measure analyte in the sample.
- R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria; and the presence or absence of the analyte cannot be verified.
- U Not detected at the quantitative reporting limit

DQM RUN BY:	Rachelle Borne	03/12/12
REVIEW PERFORMED BY:	Rachelle Borne	03/12/12
SIGNATURE:		03/12/12



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

The following samples were included in this SDG:

SDG	Sample ID	Sample Date	Parent Sample
NA31002	HA01-MW-12(013012)	01/30/12	
NA31002	HA01-MW-14(013012)	01/30/12	
NA31002	Trip Blank(013012)	01/30/12	



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Laboratory Signature		X		X	
13. South Carolina Certification Number		X		X	

QA - quality assurance

The analytical report was complete with the following exceptions or notations.

Note: The laboratory reported values between the quantitative reporting limit and the method detection limit as estimated concentrations. The "J" qualifier was retained in this validation. Non-detect values are reported at the quantitative reporting limit.

HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
C. Trip blanks	DQM		DQM	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM	DQM	
B. LCS duplicate (LCSD) %R		DQM	DQM	
C. LCS/LCSD RPD	DQM		DQM	
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8260B.

5. The recoveries of 1,1-dichloroethene and chloromethane were above the control limit in the LCS and/or the LCSD. The associated field samples were non-detect for these compounds; therefore, qualification of the data is not warranted.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

Analytical data were evaluated in accordance with applicable USEPA SW-846 method requirements, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), analytical method control criteria, the analytical laboratory Quality Assurance Control Limits, the Fort Stewart Military Reservation and Hunter Army Airfield Quality Assurance Project Plan (ARCADIS-2008), and professional judgment.

The data review summarized in this report includes a review of all sample collection documentation and the electronic data validation of the analytical data housed in the project database. Sample collection documentation included sample collection logs and chains of custody. The electronic data validation was performed utilizing the EQUIS Data Qualification Module (DQM). DQM checks for the following parameters:

- Holding times and preservation;
- Blank contamination;
 - 1. Method blanks,
 - 2. Trip blanks,
 - 3. Equipment blanks;
- Matrix spike and Duplicate sample recovery;
- Matrix Spike and Matrix Spike Duplicate relative percent differences;
- Laboratory Control Sample and Duplicate recovery;
- Laboratory Control Sample and Duplicate relative percent differences;
- Surrogate recovery (organic analyses only); and
- Field duplicate relative percent difference.

Manual review was performed for the following items:

- Sample dilutions and reporting limits;
- Case Narratives; and
- Laboratory Duplicates

Data was generated by Shealy Environmental Services, Inc. – West Columbia, South Carolina. Data qualifiers were applied electronically to the database with any additional qualifiers added manually. A summary of the data as amended by data qualifiers is included with the original hard copy reports.

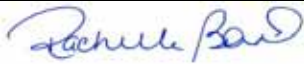
The attached table summarizes the data that were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on electronic and manual validation. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data in these SDGs are considered usable as reported.



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

The following list of data qualifiers and definitions were applied in accordance with qualification criteria defined in the greater than guidance documents:

- UB Compound/analyte detected in blank or associated blank, qualified as a non-detect at listed value.
- J The analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected greater than the reporting limit; however, the reported quantitation limit is approximate and may, or may not represent the actual limit of quantitation necessary to accurately and precisely measure analyte in the sample.
- R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria; and the presence or absence of the analyte cannot be verified.
- U Not detected at the quantitative reporting limit

DQM RUN BY:	Rachelle Borne	03/13/12
REVIEW PERFORMED BY:	Rachelle Borne	03/13/12
SIGNATURE:		03/13/12



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

The following samples were included in this SDG:

SDG	Sample ID	Sample Date	Parent Sample
NB17010	H01-MS-7D(021612)	02/16/12	
NB17010	Trip Blank(021612)	02/16/12	

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Laboratory Signature		X		X	
13. South Carolina Certification Number		X		X	

QA - quality assurance

The analytical report was complete with the following exceptions or notations.

Note: The laboratory reported values between the quantitative reporting limit and the method detection limit as estimated concentrations. The "J" qualifier was retained in this validation. Non-detect values are reported at the quantitative reporting limit.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
C. Trip blanks		DQM	DQM	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R	DQM		DQM	
B. LCS duplicate (LCSD) %R	DQM		DQM	
C. LCS/LCSD RPD		DQM		DQM
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8260B.

- 3C. The compound methylene chloride was detected in the trip blank. The associated field sample was non-detect for this compound; therefore, qualification of the data was not warranted.
- 5. The RPD between the LCS/LCSD pair was above the control limit for acetone. The associated field samples were qualified as estimated for acetone.

HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01

SEMIVOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM		DQM
B. LCS duplicate (LCSD) %R	NA		NA	
C. LCS/LCSD RPD	NA		NA	
6. Matrix spike (MS)				
A. MS %R		DQM		DQM
B. MS duplicate (MSD) %R		DQM		DQM
C. MS/MSD precision (RPD)		DQM		DQM
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8270D.

5. The recovery of the compound 4-chloroaniline was below the control limit in the LCS. The associated field sample was qualified as estimated for this compound.
6. Sample location H01-MW-7D(021612) was used as the MS/MSD. Several recoveries and RPDs for several compounds were outside the control limit. The associated field sample was qualified as estimated for these compounds when applicable. See the attached qualification summary for details. The recovery of 4-chloroaniline was less than 10% in the MS. The parent sample was qualified as rejected for 4-chloroaniline.

HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01

PESTICIDES AND HERBICIDES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks		DQM	DQM	
B. Equipment blanks	NA		NA	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM		DQM
B. LCS duplicate (LCSD) %R	NA		NA	
C. LCS/LCSD RPD	NA		NA	
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Methods 8151A and 8081B.

- 3A. The compound gamma chlordane was detected in the method blank. The associated field sample was non-detect for this compound; therefore, qualification of the data was not warranted.
4. One of two surrogate recoveries were below the control limit in the pesticide analysis for H01-MW-7D(021612). The method requires that only one surrogate recovery be within the laboratory control limits; therefore, qualification of the data was not warranted.
5. The recovery of the compound endrin aldehydes was below the control limit in the LCS. The associated field sample was qualified as estimated for this compound.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

METALS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks		DQM	DQM	
B. Equipment blanks	NA		NA	
4. Laboratory control sample (LCS)				
A. LCS %R	DQM		DQM	
B. LCS duplicate (LCSD) %R	DQM		DQM	
C. LCS/LCSD RPD	DQM		DQM	
5. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
6. Field/Lab Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery RPD - relative percent difference
DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 6010C and 7470A.

- 3A. The metals arsenic and lead were detected in the method blank. The associated field samples were non-detect for these metals; therefore, qualification of the data was not warranted.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

Analytical data were evaluated in accordance with applicable USEPA SW-846 method requirements, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), analytical method control criteria, the analytical laboratory Quality Assurance Control Limits, the Fort Stewart Military Reservation and Hunter Army Airfield Quality Assurance Project Plan (ARCADIS-2008), and professional judgment.

The data review summarized in this report includes a review of all sample collection documentation and the electronic data validation of the analytical data housed in the project database. Sample collection documentation included sample collection logs and chains of custody. The electronic data validation was performed utilizing the EQUIS Data Qualification Module (DQM). DQM checks for the following parameters:

- Holding times and preservation;
- Blank contamination;
 - 1. Method blanks,
 - 2. Trip blanks,
 - 3. Equipment blanks;
- Matrix spike and Duplicate sample recovery;
- Matrix Spike and Matrix Spike Duplicate relative percent differences;
- Laboratory Control Sample and Duplicate recovery;
- Laboratory Control Sample and Duplicate relative percent differences;
- Surrogate recovery (organic analyses only); and
- Field duplicate relative percent difference.

Manual review was performed for the following items:

- Sample dilutions and reporting limits;
- Case Narratives; and
- Laboratory Duplicates

Data was generated by Shealy Environmental Services, Inc. – West Columbia, South Carolina. Data qualifiers were applied electronically to the database with any additional qualifiers added manually. A summary of the data as amended by data qualifiers is included with the original hard copy reports.

The attached table summarizes the data that were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on electronic and manual validation. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data in these SDGs are considered usable as reported.

APPENDIX J

Survey Data

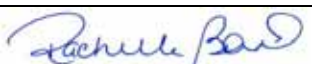




**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

The following list of data qualifiers and definitions were applied in accordance with qualification criteria defined in the greater than guidance documents:

- UB Compound/analyte detected in blank or associated blank, qualified as a non-detect at listed value.
- J The analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected greater than the reporting limit; however, the reported quantitation limit is approximate and may, or may not represent the actual limit of quantitation necessary to accurately and precisely measure analyte in the sample.
- R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria; and the presence or absence of the analyte cannot be verified.
- U Not detected at the quantitative reporting limit

DQM RUN BY:	Rachelle Borne	03/12/12
REVIEW PERFORMED BY:	Rachelle Borne	03/12/12
SIGNATURE:		03/12/12



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

The following samples were included in this SDG:

SDG	Sample ID	Sample Date	Parent Sample
NA31002	HA01-MW-12(013012)	01/30/12	
NA31002	HA01-MW-14(013012)	01/30/12	
NA31002	Trip Blank(013012)	01/30/12	



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01**

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Laboratory Signature		X		X	
13. South Carolina Certification Number		X		X	

QA - quality assurance

The analytical report was complete with the following exceptions or notations.

Note: The laboratory reported values between the quantitative reporting limit and the method detection limit as estimated concentrations. The "J" qualifier was retained in this validation. Non-detect values are reported at the quantitative reporting limit.

HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NA31002
HAA-01

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
C. Trip blanks	DQM		DQM	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM	DQM	
B. LCS duplicate (LCSD) %R		DQM	DQM	
C. LCS/LCSD RPD	DQM		DQM	
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8260B.

5. The recoveries of 1,1-dichloroethene and chloromethane were above the control limit in the LCS and/or the LCSD. The associated field samples were non-detect for these compounds; therefore, qualification of the data is not warranted.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

Analytical data were evaluated in accordance with applicable USEPA SW-846 method requirements, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), analytical method control criteria, the analytical laboratory Quality Assurance Control Limits, the Fort Stewart Military Reservation and Hunter Army Airfield Quality Assurance Project Plan (ARCADIS-2008), and professional judgment.

The data review summarized in this report includes a review of all sample collection documentation and the electronic data validation of the analytical data housed in the project database. Sample collection documentation included sample collection logs and chains of custody. The electronic data validation was performed utilizing the EQUIS Data Qualification Module (DQM). DQM checks for the following parameters:

- Holding times and preservation;
- Blank contamination;
 - 1. Method blanks,
 - 2. Trip blanks,
 - 3. Equipment blanks;
- Matrix spike and Duplicate sample recovery;
- Matrix Spike and Matrix Spike Duplicate relative percent differences;
- Laboratory Control Sample and Duplicate recovery;
- Laboratory Control Sample and Duplicate relative percent differences;
- Surrogate recovery (organic analyses only); and
- Field duplicate relative percent difference.

Manual review was performed for the following items:

- Sample dilutions and reporting limits;
- Case Narratives; and
- Laboratory Duplicates

Data was generated by Shealy Environmental Services, Inc. – West Columbia, South Carolina. Data qualifiers were applied electronically to the database with any additional qualifiers added manually. A summary of the data as amended by data qualifiers is included with the original hard copy reports.

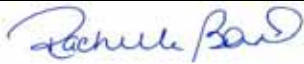
The attached table summarizes the data that were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on electronic and manual validation. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data in these SDGs are considered usable as reported.



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

The following list of data qualifiers and definitions were applied in accordance with qualification criteria defined in the greater than guidance documents:

- UB Compound/analyte detected in blank or associated blank, qualified as a non-detect at listed value.
- J The analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected greater than the reporting limit; however, the reported quantitation limit is approximate and may, or may not represent the actual limit of quantitation necessary to accurately and precisely measure analyte in the sample.
- R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria; and the presence or absence of the analyte cannot be verified.
- U Not detected at the quantitative reporting limit

DQM RUN BY:	Rachelle Borne	03/13/12
REVIEW PERFORMED BY:	Rachelle Borne	03/13/12
SIGNATURE:		03/13/12



**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

The following samples were included in this SDG:

SDG	Sample ID	Sample Date	Parent Sample
NB17010	H01-MS-7D(021612)	02/16/12	
NB17010	Trip Blank(021612)	02/16/12	

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Laboratory Signature		X		X	
13. South Carolina Certification Number		X		X	

QA - quality assurance

The analytical report was complete with the following exceptions or notations.

Note: The laboratory reported values between the quantitative reporting limit and the method detection limit as estimated concentrations. The "J" qualifier was retained in this validation. Non-detect values are reported at the quantitative reporting limit.

HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
C. Trip blanks		DQM	DQM	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R	DQM		DQM	
B. LCS duplicate (LCSD) %R	DQM		DQM	
C. LCS/LCSD RPD		DQM		DQM
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8260B.

- 3C. The compound methylene chloride was detected in the trip blank. The associated field sample was non-detect for this compound; therefore, qualification of the data was not warranted.
- 5. The RPD between the LCS/LCSD pair was above the control limit for acetone. The associated field samples were qualified as estimated for acetone.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

SEMIVOLATILE ORGANIC COMPOUNDS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks	DQM		DQM	
B. Equipment blanks	NA		NA	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM		DQM
B. LCS duplicate (LCSD) %R	NA		NA	
C. LCS/LCSD RPD	NA		NA	
6. Matrix spike (MS)				
A. MS %R		DQM		DQM
B. MS duplicate (MSD) %R		DQM		DQM
C. MS/MSD precision (RPD)		DQM		DQM
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 8270D.

5. The recovery of the compound 4-chloroaniline was below the control limit in the LCS. The associated field sample was qualified as estimated for this compound.
6. Sample location H01-MW-7D(021612) was used as the MS/MSD. Several recoveries and RPDs for several compounds were outside the control limit. The associated field sample was qualified as estimated for these compounds when applicable. See the attached qualification summary for details. The recovery of 4-chloroaniline was less than 10% in the MS. The parent sample was qualified as rejected for 4-chloroaniline.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

PESTICIDES AND HERBICIDES

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks		DQM	DQM	
B. Equipment blanks	NA		NA	
4. Surrogate spike recoveries	DQM		DQM	
5. Laboratory control sample (LCS)				
A. LCS %R		DQM		DQM
B. LCS duplicate (LCSD) %R	NA		NA	
C. LCS/LCSD RPD	NA		NA	
6. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
7. Field Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery

RPD - relative percent difference

DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Methods 8151A and 8081B.

- 3A. The compound gamma chlordane was detected in the method blank. The associated field sample was non-detect for this compound; therefore, qualification of the data was not warranted.
4. One of two surrogate recoveries were below the control limit in the pesticide analysis for H01-MW-7D(021612). The method requires that only one surrogate recovery be within the laboratory control limits; therefore, qualification of the data was not warranted.
5. The recovery of the compound endrin aldehydes was below the control limit in the LCS. The associated field sample was qualified as estimated for this compound.

**HUNTER STEWART
ELECTRONIC VALIDATION REVIEW REPORT
SDG: NB17010
HAA-01**

METALS

Items Reviewed	DQM Deficiency		Qualification Applied	
	No	Yes	No	Yes
1. Holding times/Preservation	DQM		DQM	
2. Reporting limits	M		M	
3. Blanks				
A. Method blanks		DQM	DQM	
B. Equipment blanks	NA		NA	
4. Laboratory control sample (LCS)				
A. LCS %R	DQM		DQM	
B. LCS duplicate (LCSD) %R	DQM		DQM	
C. LCS/LCSD RPD	DQM		DQM	
5. Matrix spike (MS)				
A. MS %R	NA		NA	
B. MS duplicate (MSD) %R	NA		NA	
C. MS/MSD precision (RPD)	NA		NA	
6. Field/Lab Duplicate precision (RPD)	NA		NA	

M – Manual Review %R - percent recovery RPD - relative percent difference
DQM – Data Qualification Module

Comments:

This section presents a discussion of any additions or changes to the electronic data validation for compounds analyzed by Method 6010C and 7470A.

- 3A. The metals arsenic and lead were detected in the method blank. The associated field samples were non-detect for these metals; therefore, qualification of the data was not warranted.

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: HAA-01

Project Number: 10153001.0001.DE001

Lot Number: PL18008

Date Completed: 01/13/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL 18008 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL18008

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Semivolatile Organic Compounds

The surrogate recovery for samples -003, -013 and -023 was outside the acceptance limit. This sample was diluted. The dilution impacted the surrogate recoveries, thus negating their usefulness concerning quality control. The sample results are reported and no corrective action is required.

The MS/MSD recoveries in batches 63730 and 63919 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

The LCS recovery for 2,4-Dimethylphenol and 4-Chloroaniline exceeded method control limits in batch 63919; however, all other QA/QC criteria for the LCS were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batch 63430 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL18008

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01HMW02(121614)	Aqueous	12/16/2014 1045	12/18/2014
002	HA01HMW13(121614)	Aqueous	12/16/2014 1347	12/18/2014
003	D1(121614)	Aqueous	12/16/2014	12/18/2014
004	HA01MW14(121614)	Aqueous	12/16/2014 1537	12/18/2014
005	HA01HMW04(121614)	Aqueous	12/16/2014 1006	12/18/2014
006	HA01MW17(121614)	Aqueous	12/16/2014 1106	12/18/2014
007	HA01HMW11(121614)	Aqueous	12/16/2014 1406	12/18/2014
008	HA01HMW06(121714)	Aqueous	12/16/2014 1452	12/18/2014
009	HA01MW14D(121714)	Aqueous	12/17/2014 1151	12/18/2014
010	D2(121614)	Aqueous	12/16/2014 1201	12/18/2014
012	HA01MW15(121714)	Aqueous	12/17/2014 1015	12/18/2014
013	HA01HMW24(121714)	Aqueous	12/17/2014 0942	12/18/2014
014	HA01HMW23(121714)	Aqueous	12/17/2014 1046	12/18/2014
015	HA01HMW10(121714)	Aqueous	12/17/2014 1156	12/18/2014
016	HA01SW03(121714)	Aqueous	12/17/2014 1415	12/18/2014
017	HA01SW02(121714)	Aqueous	12/17/2014 1445	12/18/2014
018	HA01SW01(121714)	Aqueous	12/17/2014 1520	12/18/2014
019	D1(121714)	Aqueous	12/17/2014 1201	12/18/2014
020	HA01SD03(121714)	Solid	12/17/2014 1410	12/18/2014
021	HA01SD02(121714)	Solid	12/17/2014 1440	12/18/2014
022	HA01SD01(121714)	Solid	12/17/2014 1520	12/18/2014
023	D2(121714)	Solid	12/17/2014	12/18/2014
024	TRIP BLANK	Aqueous	12/16/2014	12/18/2014

(23 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HA01HMW02(121614)	Aqueous	Carbon disulfide	8260B	0.18	J	ug/L	9
002	HA01HMW13(121614)	Aqueous	Acetone	8260B	8.9	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Benzene	8260B	30		ug/L	11
002	HA01HMW13(121614)	Aqueous	Chloroethane	8260B	0.55	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Chloromethane (Methyl chloride)	8260B	0.51	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	1,2-Dichlorobenzene	8260B	0.40	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Ethylbenzene	8260B	27		ug/L	11
002	HA01HMW13(121614)	Aqueous	1,1,2,2-Tetrachloroethane	8260B	0.34	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	2-Methylnaphthalene	8270D	13		ug/L	13
002	HA01HMW13(121614)	Aqueous	Naphthalene	8270D	88		ug/L	14
003	D1(121614)	Aqueous	Acetone	8260B	14	J	ug/L	15
003	D1(121614)	Aqueous	Benzene	8260B	29		ug/L	15
003	D1(121614)	Aqueous	Chloroethane	8260B	0.65	J	ug/L	15
003	D1(121614)	Aqueous	Chloromethane (Methyl chloride)	8260B	0.73	J	ug/L	15
003	D1(121614)	Aqueous	1,2-Dichlorobenzene	8260B	0.40	J	ug/L	15
003	D1(121614)	Aqueous	Ethylbenzene	8260B	26		ug/L	15
003	D1(121614)	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	15
003	D1(121614)	Aqueous	2-Methylnaphthalene	8270D	22		ug/L	17
003	D1(121614)	Aqueous	Naphthalene	8270D	120		ug/L	18
004	HA01MW14(121614)	Aqueous	gamma-BHC (Lindane)	8081B	0.0063	BJ	ug/L	22
004	HA01MW14(121614)	Aqueous	Dissolved Barium	6010C	0.074		mg/L	23
004	HA01MW14(121614)	Aqueous	Dissolved Chromium	6010C	0.0062		mg/L	23
004	HA01MW14(121614)	Aqueous	Dissolved Lead	6010C	0.0072	J	mg/L	23
004	HA01MW14(121614)	Aqueous	Barium	6010C	0.095		mg/L	24
004	HA01MW14(121614)	Aqueous	Chromium	6010C	0.010		mg/L	24
004	HA01MW14(121614)	Aqueous	Lead	6010C	0.012		mg/L	24
007	HA01HMW11(121614)	Aqueous	Acetone	8260B	56		ug/L	29
007	HA01HMW11(121614)	Aqueous	2-Butanone (MEK)	8260B	2.4	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	Carbon disulfide	8260B	0.57	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	1,1,2,2-Tetrachloroethane	8260B	0.16	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	1,1,1-Trichloroethane	8260B	0.20	J	ug/L	29
008	HA01HMW06(121714)	Aqueous	Benzene	8260B	0.87	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	Carbon disulfide	8260B	0.33	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	0.39	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	Vinyl chloride	8260B	0.34	J	ug/L	31
009	HA01MW14D(121714)	Aqueous	Carbon disulfide	8260B	0.35	J	ug/L	35
010	D2(121614)	Aqueous	Carbon disulfide	8260B	0.36	J	ug/L	38
010	D2(121614)	Aqueous	gamma-BHC (Lindane)	8081B	0.0083	BJP	ug/L	40
010	D2(121614)	Aqueous	alpha-BHC	8081B	0.0010	BJP	ug/L	40
010	D2(121614)	Aqueous	beta-BHC	8081B	0.0046	J	ug/L	40
010	D2(121614)	Aqueous	delta-BHC	8081B	0.0026	BJP	ug/L	40
010	D2(121614)	Aqueous	alpha-Chlordane	8081B	0.0018	JP	ug/L	40
010	D2(121614)	Aqueous	gamma-Chlordane	8081B	0.0034	JP	ug/L	40
010	D2(121614)	Aqueous	4,4'-DDT	8081B	0.0070	JP	ug/L	40

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
010	D2(121614)	Aqueous	Endosulfan I	8081B	0.0023	JP	ug/L	40
010	D2(121614)	Aqueous	Endosulfan II	8081B	0.0049	JP	ug/L	40
010	D2(121614)	Aqueous	Dissolved Barium	6010C	0.076		mg/L	41
010	D2(121614)	Aqueous	Dissolved Chromium	6010C	0.0066		mg/L	41
010	D2(121614)	Aqueous	Dissolved Lead	6010C	0.0067	J	mg/L	41
010	D2(121614)	Aqueous	Barium	6010C	0.12		mg/L	42
010	D2(121614)	Aqueous	Chromium	6010C	0.25		mg/L	42
010	D2(121614)	Aqueous	Lead	6010C	0.023		mg/L	42
010	D2(121614)	Aqueous	Mercury	7470A	0.000027	J	mg/L	42
012	HA01MW15(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	2.6		ug/L	44
012	HA01MW15(121714)	Aqueous	Dissolved Barium	6010C	0.036		mg/L	46
012	HA01MW15(121714)	Aqueous	Dissolved Lead	6010C	0.0041	J	mg/L	46
012	HA01MW15(121714)	Aqueous	Barium	6010C	0.040		mg/L	47
012	HA01MW15(121714)	Aqueous	Lead	6010C	0.0061	J	mg/L	47
012	HA01MW15(121714)	Aqueous	Mercury	7470A	0.000017	J	mg/L	47
012	HA01MW15(121714)	Aqueous	Silver	6010C	0.00040	J	mg/L	47
013	HA01HMW24(121714)	Aqueous	Benzene	8260B	6.1		ug/L	48
013	HA01HMW24(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	48
013	HA01HMW24(121714)	Aqueous	Ethylbenzene	8260B	5.6		ug/L	48
013	HA01HMW24(121714)	Aqueous	Xylenes (total)	8260B	0.35	J	ug/L	48
014	HA01HMW23(121714)	Aqueous	Benzene	8260B	1.1		ug/L	52
014	HA01HMW23(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	52
014	HA01HMW23(121714)	Aqueous	Chlorobenzene	8260B	2.9		ug/L	52
014	HA01HMW23(121714)	Aqueous	1,2-Dichlorobenzene	8260B	0.46	J	ug/L	52
014	HA01HMW23(121714)	Aqueous	Ethylbenzene	8260B	3.0		ug/L	52
014	HA01HMW23(121714)	Aqueous	Naphthalene	8270D	9.0	J	ug/L	55
015	HA01HMW10(121714)	Aqueous	Acetone	8260B	9.3	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Benzene	8260B	19		ug/L	56
015	HA01HMW10(121714)	Aqueous	Carbon disulfide	8260B	0.33	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Chlorobenzene	8260B	0.38	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	0.54	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Ethylbenzene	8260B	0.42	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Toluene	8260B	0.35	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	1,1,1-Trichloroethane	8260B	0.20	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Vinyl chloride	8260B	0.23	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Xylenes (total)	8260B	0.62	J	ug/L	56
016	HA01SW03(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	59
016	HA01SW03(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0012	BJP	ug/L	63
016	HA01SW03(121714)	Aqueous	Arsenic	6020A	0.46	J	ug/L	64
016	HA01SW03(121714)	Aqueous	Barium	6020A	28	B	ug/L	64
016	HA01SW03(121714)	Aqueous	Lead	6020A	0.74	J	ug/L	64
016	HA01SW03(121714)	Aqueous	Selenium	6020A	0.80	J	ug/L	64
017	HA01SW02(121714)	Aqueous	Carbon disulfide	8260B	0.35	J	ug/L	67
017	HA01SW02(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0017	BJP	ug/L	71
017	HA01SW02(121714)	Aqueous	Arsenic	6020A	0.36	J	ug/L	72
017	HA01SW02(121714)	Aqueous	Barium	6020A	28	B	ug/L	72
017	HA01SW02(121714)	Aqueous	Lead	6020A	0.91	J	ug/L	72
017	HA01SW02(121714)	Aqueous	Selenium	6020A	1.5		ug/L	72

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
018	HA01SW01(121714)	Aqueous	Benzene	8260B	0.27	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Carbon disulfide	8260B	0.64	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Ethylbenzene	8260B	0.40	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Xylenes (total)	8260B	1.8		ug/L	75
018	HA01SW01(121714)	Aqueous	beta-BHC	8081B	0.0048	J	ug/L	79
018	HA01SW01(121714)	Aqueous	Methoxychlor	8081B	0.0020	JP	ug/L	79
018	HA01SW01(121714)	Aqueous	Arsenic	6020A	0.53	J	ug/L	80
018	HA01SW01(121714)	Aqueous	Barium	6020A	29	B	ug/L	80
018	HA01SW01(121714)	Aqueous	Lead	6020A	1.1		ug/L	80
018	HA01SW01(121714)	Aqueous	Selenium	6020A	1.4		ug/L	80
019	D1(121714)	Aqueous	Benzene	8260B	0.31	J	ug/L	83
019	D1(121714)	Aqueous	Carbon disulfide	8260B	0.55	J	ug/L	83
019	D1(121714)	Aqueous	Ethylbenzene	8260B	0.34	J	ug/L	83
019	D1(121714)	Aqueous	Xylenes (total)	8260B	1.9		ug/L	83
019	D1(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0020	BJP	ug/L	87
019	D1(121714)	Aqueous	alpha-BHC	8081B	0.0015	BJP	ug/L	87
019	D1(121714)	Aqueous	delta-BHC	8081B	0.0015	BJ	ug/L	87
019	D1(121714)	Aqueous	Endrin	8081B	0.0010	BJP	ug/L	87
019	D1(121714)	Aqueous	Endrin aldehyde	8081B	0.0019	JP	ug/L	87
019	D1(121714)	Aqueous	Barium	6010C	0.029		mg/L	88
019	D1(121714)	Aqueous	Lead	6010C	0.0030	J	mg/L	88
019	D1(121714)	Aqueous	Silver	6010C	0.00070	J	mg/L	88
020	HA01SD03(121714)	Solid	Hexavalent Chromium	7196A	0.60	J	mg/kg	89
020	HA01SD03(121714)	Solid	Benzo(a)anthracene	8270D	12	J	ug/kg	92
020	HA01SD03(121714)	Solid	Benzo(b)fluoranthene	8270D	14	J	ug/kg	92
020	HA01SD03(121714)	Solid	Caprolactam	8270D	42		ug/kg	92
020	HA01SD03(121714)	Solid	Fluoranthene	8270D	17	J	ug/kg	92
020	HA01SD03(121714)	Solid	Phenol	8270D	11	J	ug/kg	93
020	HA01SD03(121714)	Solid	Endrin ketone	8081B	0.56	JP	ug/kg	94
020	HA01SD03(121714)	Solid	Arsenic	6010C	0.23	J	mg/kg	95
020	HA01SD03(121714)	Solid	Barium	6010C	3.5		mg/kg	95
020	HA01SD03(121714)	Solid	Cadmium	6010C	0.037	J	mg/kg	95
020	HA01SD03(121714)	Solid	Chromium	6010C	1.2		mg/kg	95
020	HA01SD03(121714)	Solid	Lead	6010C	1.6		mg/kg	95
021	HA01SD02(121714)	Solid	Hexavalent Chromium	7196A	0.65	J	mg/kg	96
021	HA01SD02(121714)	Solid	Benzo(a)anthracene	8270D	13	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(a)pyrene	8270D	11	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(b)fluoranthene	8270D	15	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(g,h,i)perylene	8270D	14	J	ug/kg	99
021	HA01SD02(121714)	Solid	Fluoranthene	8270D	15	J	ug/kg	99
021	HA01SD02(121714)	Solid	Phenol	8270D	12	J	ug/kg	100
021	HA01SD02(121714)	Solid	Arsenic	6010C	0.29	J	mg/kg	102
021	HA01SD02(121714)	Solid	Barium	6010C	14		mg/kg	102
021	HA01SD02(121714)	Solid	Cadmium	6010C	0.063	J	mg/kg	102
021	HA01SD02(121714)	Solid	Chromium	6010C	3.5		mg/kg	102
021	HA01SD02(121714)	Solid	Lead	6010C	3.2		mg/kg	102
022	HA01SD01(121714)	Solid	Hexavalent Chromium	7196A	0.56	J	mg/kg	103
022	HA01SD01(121714)	Solid	Acetone	8260B	11	J	ug/kg	104

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
022	HA01SD01(121714)	Solid	Acenaphthene	8270D	34	J	ug/kg	106
022	HA01SD01(121714)	Solid	Anthracene	8270D	88		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(a)anthracene	8270D	630		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(a)pyrene	8270D	720		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(b)fluoranthene	8270D	1400		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(g,h,i)perylene	8270D	360		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(k)fluoranthene	8270D	610		ug/kg	106
022	HA01SD01(121714)	Solid	Carbazole	8270D	170		ug/kg	106
022	HA01SD01(121714)	Solid	Chrysene	8270D	840		ug/kg	106
022	HA01SD01(121714)	Solid	bis(2-Ethylhexyl)phthalate	8270D	150		ug/kg	106
022	HA01SD01(121714)	Solid	Fluoranthene	8270D	2000		ug/kg	106
022	HA01SD01(121714)	Solid	Fluorene	8270D	46	J	ug/kg	106
022	HA01SD01(121714)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	360		ug/kg	107
022	HA01SD01(121714)	Solid	Phenanthrene	8270D	920		ug/kg	107
022	HA01SD01(121714)	Solid	Pyrene	8270D	1200		ug/kg	107
022	HA01SD01(121714)	Solid	delta-BHC	8081B	0.62	JP	ug/kg	108
022	HA01SD01(121714)	Solid	gamma-BHC (Lindane)	8081B	2.4	JP	ug/kg	108
022	HA01SD01(121714)	Solid	4,4'-DDD	8081B	1.0	JP	ug/kg	108
022	HA01SD01(121714)	Solid	4,4'-DDT	8081B	2.7	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endosulfan sulfate	8081B	3.9	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin	8081B	1.8	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin aldehyde	8081B	2.0	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin ketone	8081B	4.7	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Methoxychlor	8081B	13	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Arsenic	6010C	0.47	J	mg/kg	109
022	HA01SD01(121714)	Solid	Barium	6010C	14		mg/kg	109
022	HA01SD01(121714)	Solid	Cadmium	6010C	0.12		mg/kg	109
022	HA01SD01(121714)	Solid	Chromium	6010C	4.3		mg/kg	109
022	HA01SD01(121714)	Solid	Lead	6010C	5.0		mg/kg	109
023	D2(121714)	Solid	Hexavalent Chromium	7196A	0.82	J	mg/kg	110
023	D2(121714)	Solid	Acenaphthene	8270D	63	J	ug/kg	113
023	D2(121714)	Solid	Anthracene	8270D	260		ug/kg	113
023	D2(121714)	Solid	Benzo(a)anthracene	8270D	960		ug/kg	113
023	D2(121714)	Solid	Benzo(a)pyrene	8270D	980		ug/kg	113
023	D2(121714)	Solid	Benzo(b)fluoranthene	8270D	2200		ug/kg	113
023	D2(121714)	Solid	Benzo(g,h,i)perylene	8270D	370		ug/kg	113
023	D2(121714)	Solid	Benzo(k)fluoranthene	8270D	820		ug/kg	113
023	D2(121714)	Solid	Carbazole	8270D	320		ug/kg	113
023	D2(121714)	Solid	Chrysene	8270D	1300		ug/kg	113
023	D2(121714)	Solid	Dibenzofuran	8270D	40	J	ug/kg	113
023	D2(121714)	Solid	bis(2-Ethylhexyl)phthalate	8270D	1100		ug/kg	113
023	D2(121714)	Solid	Fluoranthene	8270D	2900		ug/kg	113
023	D2(121714)	Solid	Fluorene	8270D	86		ug/kg	113
023	D2(121714)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	390		ug/kg	114
023	D2(121714)	Solid	Phenanthrene	8270D	1200		ug/kg	114
023	D2(121714)	Solid	Pyrene	8270D	1700		ug/kg	114
023	D2(121714)	Solid	4,4'-DDD	8081B	2.7	JP	ug/kg	115
023	D2(121714)	Solid	4,4'-DDT	8081B	4.1	JP	ug/kg	115

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
023	D2(121714)	Solid	Dieldrin	8081B	0.78	JP	ug/kg	115
023	D2(121714)	Solid	Endosulfan II	8081B	0.76	JP	ug/kg	115
023	D2(121714)	Solid	Endosulfan sulfate	8081B	5.3	JP	ug/kg	115
023	D2(121714)	Solid	Endrin	8081B	2.0	JP	ug/kg	115
023	D2(121714)	Solid	Endrin aldehyde	8081B	2.4	JP	ug/kg	115
023	D2(121714)	Solid	Endrin ketone	8081B	4.5	JP	ug/kg	115
023	D2(121714)	Solid	Methoxychlor	8081B	17	JP	ug/kg	115
023	D2(121714)	Solid	Arsenic	6010C	0.56	J	mg/kg	116
023	D2(121714)	Solid	Barium	6010C	10		mg/kg	116
023	D2(121714)	Solid	Cadmium	6010C	0.21		mg/kg	116
023	D2(121714)	Solid	Chromium	6010C	4.8		mg/kg	116
023	D2(121714)	Solid	Lead	6010C	6.2		mg/kg	116
024	TRIP BLANK	Aqueous	Carbon disulfide	8260B	0.43	J	ug/L	117

(202 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-001			
Description: HA01HMW02(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1045							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1224	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.18	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-001
Description: HA01HMW02(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1045	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-002			
Description: HA01HWMW13(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1347							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	12/24/2014 1535	PMM2		63929		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	8.9	J	20	6.7	ug/L	2	
Benzene	71-43-2	8260B	30		1.0	0.13	ug/L	2	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	2	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	2	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	2	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	2	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	2	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	2	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	2	
Chloroethane	75-00-3	8260B	0.55	J	2.0	0.47	ug/L	2	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	2	
Chloromethane (Methyl chloride)	74-87-3	8260B	0.51	J	1.0	0.35	ug/L	2	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	2	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	2	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	2	
1,2-Dichlorobenzene	95-50-1	8260B	0.40	J	1.0	0.33	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	2	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	2	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	2	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	2	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	2	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	2	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	2	
Ethylbenzene	100-41-4	8260B	27		1.0	0.33	ug/L	2	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	2	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	2	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	2	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	0.34	J	1.0	0.16	ug/L	2	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	2	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	2	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	2	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	2	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	2	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	2	
Xylenes (total)	1330-20-7	8260B	0.81	J	1.0	0.33	ug/L	2	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-002
Description: HA01HMW13(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1347	
Date Received: 12/18/2014	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-002

Description: HA01HWMW13(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1347

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1510	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	13		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 13 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-002

Description: HA01HMW13(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1347

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1510	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	88		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		57	37-129
2-Fluorophenol		61	24-127
Nitrobenzene-d5	N	197	38-127
Phenol-d5		60	28-128
Terphenyl-d14		41	10-148
2,4,6-Tribromophenol		78	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-003			
Description: D1(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	12/24/2014 1558	PMM2		63929		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	14	J	20	6.7	ug/L	2	
Benzene	71-43-2	8260B	29		1.0	0.13	ug/L	2	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	2	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	2	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	2	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	2	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	2	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	2	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	2	
Chloroethane	75-00-3	8260B	0.65	J	2.0	0.47	ug/L	2	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	2	
Chloromethane (Methyl chloride)	74-87-3	8260B	0.73	J	1.0	0.35	ug/L	2	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	2	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	2	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	2	
1,2-Dichlorobenzene	95-50-1	8260B	0.40	J	1.0	0.33	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	2	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	2	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	2	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	2	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	2	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	2	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	2	
Ethylbenzene	100-41-4	8260B	26		1.0	0.33	ug/L	2	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	2	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	2	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	2	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	2	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	2	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	2	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	2	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	2	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	2	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	2	
Xylenes (total)	1330-20-7	8260B	0.81	J	1.0	0.33	ug/L	2	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-003
Description: D1(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014	
Date Received: 12/18/2014	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-003

Description: D1(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1557	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	22		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 17 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-003

Description: D1(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1557	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	120		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		71	37-129
2-Fluorophenol		62	24-127
Nitrobenzene-d5	N	227	38-127
Phenol-d5		72	28-128
Terphenyl-d14		61	10-148
2,4,6-Tribromophenol		96	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 18 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-004			
Description: HA01MW14(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1537							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-004			
Description: HA01MW14(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1537							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2029	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 1945	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0063	BJ	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		15	10-122					
Tetrachloro-m-xylene		62	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1757	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1154	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.074		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	0.0062		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0072	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-004			
Description: HA01MW14(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1537							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	12/30/2014 1540	ECS	12/23/2014 1605	63838
1		7470A	1	12/29/2014 1755	HKB	12/29/2014 1445	64180
2	3005A	6010C	1	01/02/2015 1139	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.095		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.010		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.012		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-005			
Description: HA01HMW04(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1006							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2052	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-005
Description: HA01HMW04(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1006	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-006			
Description: HA01MW17(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1106							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2117	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-006
Description: HA01MW17(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1106	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-007			
Description: HA01HMW11(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1406							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1245	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	56		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	2.4	J	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.57	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	0.16	J	1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	0.20	J	1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-007
Description: HA01HMW11(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1406	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-008			
Description: HA01HMW06(121714)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1452							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1307	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.87	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.33	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.39	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	0.34	J	1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-008
Description: HA01HMW06(121714)	Matrix: Aqueous
Date Sampled: 12/16/2014 1452	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-008

Description: HA01HMW06(121714)

Matrix: Aqueous

Date Sampled: 12/16/2014 1452

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1603	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 33 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-008

Description: HA01HMW06(121714)

Matrix: Aqueous

Date Sampled: 12/16/2014 1452

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1603	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		93	37-129					
2-Fluorophenol		86	24-127					
Nitrobenzene-d5		92	38-127					
Phenol-d5		83	28-128					
Terphenyl-d14		56	10-148					
2,4,6-Tribromophenol		103	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 34 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-009
Description: HA01MW14D(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1151	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1329	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.35	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-009
Description: HA01MW14D(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1151	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1350	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.36	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-010
Description: D2(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1201	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 1959	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0083	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0010	BJP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.0046	J	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0026	BJP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	0.0018	JP	0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0034	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	0.0070	JP	0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	0.0023	JP	0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	0.0049	JP	0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		17	10-122
Tetrachloro-m-xylene	N	43	46-119

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-010
Description: D2(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1201	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1801	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1214	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.076		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	0.0066		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0067	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-010

Description: D2(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1759	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1158	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.12		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.25		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.023		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000027	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 42 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-012			
Description: HA01MW15(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1015							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-012			
Description: HA01MW15(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1015							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2014 1621	PMM2		63929

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.6		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-012
Description: HA01MW15(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1015	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-012
Description: HA01MW15(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1015	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1812	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1236	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.036		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0041	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-012

Description: HA01MW15(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1015

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1803	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1219	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.040		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.0061	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000017	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	0.00040	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 47 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-013			
Description: HA01HMW24(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 0942							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1412	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	6.1		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	5.6		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.35	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-013
Description: HA01HMW24(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 0942	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-013

Description: HA01HMW24(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 0942

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2012	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 50 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-013

Description: HA01HMW24(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 0942

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2012	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		76	24-127
Nitrobenzene-d5	N	186	38-127
Phenol-d5		73	28-128
Terphenyl-d14		61	10-148
2,4,6-Tribromophenol		82	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 51 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-014			
Description: HA01HMW23(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1046							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1433	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	1.1		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	2.9		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	0.46	J	1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	3.0		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-014
Description: HA01HMW23(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1046	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-014

Description: HA01HMW23(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1046

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2035	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 54 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-014

Description: HA01HMW23(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1046

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2035	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	9.0	J	10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		71	37-129					
2-Fluorophenol		77	24-127					
Nitrobenzene-d5		75	38-127					
Phenol-d5		75	28-128					
Terphenyl-d14		65	10-148					
2,4,6-Tribromophenol		77	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 55 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-015			
Description: HA01HWMW10(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1156							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1455	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	9.3	J	20	6.7	ug/L	1
Benzene	71-43-2	8260B	19		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.33	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	0.38	J	2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.54	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.42	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	0.35	J	1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	0.20	J	1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	0.23	J	1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.62	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-015
Description: HA01HMW10(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1156	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-016			
Description: HA01SW03(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1415							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-016			
Description: HA01SW03(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1415							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1517	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 60 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1626	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 61 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1626	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		84	37-129					
2-Fluorophenol		85	24-127					
Nitrobenzene-d5		85	38-127					
Phenol-d5		86	28-128					
Terphenyl-d14		82	10-148					
2,4,6-Tribromophenol		74	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 62 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-016
Description: HA01SW03(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1415	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2014	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0012	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		58	10-122					
Tetrachloro-m-xylene		66	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0218	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1754	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.46	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	28	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.74	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.80	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 64 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-016
Description: HA01SW03(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1415	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1816	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-017			
Description: HA01SW02(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1445							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-017			
Description: HA01SW02(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1445							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1538	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.35	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1738	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 69 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1738	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		68	37-129					
2-Fluorophenol		70	24-127					
Nitrobenzene-d5		73	38-127					
Phenol-d5		68	28-128					
Terphenyl-d14		73	10-148					
2,4,6-Tribromophenol		61	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 70 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2029	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0017	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		54	10-122					
Tetrachloro-m-xylene		66	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0223	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1759	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.36	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	28	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.91	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	1.5		1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 72 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1818	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-018			
Description: HA01SW01(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1520							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-018			
Description: HA01SW01(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1520							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1601	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.27	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.64	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.40	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.8		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1802	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 77 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1802	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		78	37-129					
2-Fluorophenol		77	24-127					
Nitrobenzene-d5		86	38-127					
Phenol-d5		76	28-128					
Terphenyl-d14		81	10-148					
2,4,6-Tribromophenol		75	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 78 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2043	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.0048	J	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.0020	JP	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		50	10-122
Tetrachloro-m-xylene		60	46-119

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0229	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1805	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.53	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	29	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.1		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	1.4		1.0	0.25	ug/L	2
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 80 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1819	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1623	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.31	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.55	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.34	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.9		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-019
Description: D1(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1201	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1826	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 85 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1826	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		75	37-129					
2-Fluorophenol		69	24-127					
Nitrobenzene-d5		83	38-127					
Phenol-d5		71	28-128					
Terphenyl-d14		86	10-148					
2,4,6-Tribromophenol		76	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 86 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2058	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0020	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0015	BJP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0015	BJ	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	0.0010	BJP	0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.0019	JP	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		48	10-122					
Tetrachloro-m-xylene		70	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1821	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1309	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.029		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.0030	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	0.00070	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 88 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.60	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/19/2014 1829	DCS		63558	6.09

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		21	6.9	ug/kg	1
Benzene	71-43-2	8260B	ND		5.1	1.1	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.1	1.7	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.1	0.72	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.1	1.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5.1	1.3	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5.1	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.1	1.7	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.1	1.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.1	0.85	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.1	1.0	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		5.1	0.69	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.1	1.5	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.1	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.1	0.87	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.1	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.1	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.1	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.1	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.1	0.75	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.1	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.1	0.78	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.1	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.1	0.94	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.1	0.70	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.1	0.84	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.1	1.7	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		10	1.3	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		5.1	0.24	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5.1	1.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.1	0.41	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	1.5	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		5.1	0.42	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.1	2.7	ug/kg	1
Styrene	100-42-5	8260B	ND		5.1	1.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.1	0.48	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.1	0.51	ug/kg	1
Toluene	108-88-3	8260B	ND		5.1	1.7	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.1	0.65	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.1	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.1	0.87	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.1	0.81	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/19/2014 1829	DCS		63558	6.09

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.1	1.5	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.1	0.89	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.1	3.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		88	47-138
Toluene-d8		94	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	12/31/2014 1713	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		40	13	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		40	13	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		40	22	ug/kg	1	
Anthracene	120-12-7	8270D	ND		40	9.0	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		40	21	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		40	21	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	12	J	40	11	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	ND		40	11	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	14	J	40	12	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		40	14	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		40	12	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		40	12	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		40	12	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		82	27	ug/kg	1	
Caprolactam	105-60-2	8270D	42		40	21	ug/kg	1	
Carbazole	86-74-8	8270D	ND		40	17	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		40	10	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		40	8.3	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		40	12	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		40	11	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		40	13	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		40	13	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		40	11	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		40	14	ug/kg	1	
Chrysene	218-01-9	8270D	ND		40	14	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		40	11	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		40	13	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		210	44	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		40	13	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		40	13	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		40	13	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		40	15	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		40	21	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		210	160	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		210	140	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		82	22	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		82	21	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		40	39	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		40	14	ug/kg	1	
Fluoranthene	206-44-0	8270D	17	J	40	13	ug/kg	1	
Fluorene	86-73-7	8270D	ND		40	11	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		40	18	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		40	13	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		210	30	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 92 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	12/31/2014 1713	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		40	11	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		40	12	ug/kg	1
Isophorone	78-59-1	8270D	ND		40	9.0	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		40	12	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		40	7.4	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		82	15	ug/kg	1
Naphthalene	91-20-3	8270D	ND		40	12	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		82	28	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		82	47	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		82	23	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		40	6.6	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		82	22	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		210	120	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		40	16	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		40	10	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		210	170	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		40	11	ug/kg	1
Phenol	108-95-2	8270D	11	J	40	11	ug/kg	1
Pyrene	129-00-0	8270D	ND		40	16	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		40	11	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		40	12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		57	33-102
2-Fluorophenol		60	28-104
Nitrobenzene-d5		51	22-109
Phenol-d5		61	27-103
Terphenyl-d14		82	41-120
2,4,6-Tribromophenol		68	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 93 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-020
Description: HA01SD03(121714)	Matrix: Solid
Date Sampled: 12/17/2014 1410	% Solids: 79.8 12/18/2014 2018
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1220	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	ND		21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		21	0.46	ug/kg	1
Endrin	72-20-8	8081B	ND		21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	0.56	JP	21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		72	57-110					
Tetrachloro-m-xylene		55	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1227	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1859	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.23	J	0.62	0.23	mg/kg	1
Barium	7440-39-3	6010C	3.5		1.6	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.037	J	0.12	0.013	mg/kg	1
Chromium	7440-47-3	6010C	1.2		0.31	0.063	mg/kg	1
Lead	7439-92-1	6010C	1.6		0.62	0.12	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.097	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.62	0.22	mg/kg	1
Silver	7440-22-4	6010C	ND		0.31	0.052	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 95 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.65	J	1.2	0.31	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1544	DCS		63634	6.52

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		19	6.4	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		9.5	2.3	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.79	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.95	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		4.7	0.64	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.81	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		4.7	1.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.95	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.65	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.78	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.5	1.2	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		4.7	0.22	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		4.7	0.93	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.7	0.38	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.5	1.4	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		4.7	0.39	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.5	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.45	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	0.47	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		4.7	0.60	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.81	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.75	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1544	DCS		63634	6.52

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.7	0.82	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		4.7	2.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		97	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	01/02/2015 1211	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		40	13	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		40	13	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		40	22	ug/kg	1	
Anthracene	120-12-7	8270D	ND		40	9.0	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		40	21	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		40	21	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	13	J	40	11	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	11	J	40	11	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	15	J	40	12	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	14	J	40	14	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		40	12	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		40	12	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		40	12	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		82	27	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		40	21	ug/kg	1	
Carbazole	86-74-8	8270D	ND		40	17	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		40	10	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		40	8.2	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		40	12	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		40	11	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		40	13	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		40	13	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		40	11	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		40	14	ug/kg	1	
Chrysene	218-01-9	8270D	ND		40	13	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		40	11	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		40	13	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		210	44	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		40	13	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		40	13	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		40	13	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		40	15	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		40	21	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		210	160	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		210	140	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		82	22	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		82	21	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		40	39	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		40	14	ug/kg	1	
Fluoranthene	206-44-0	8270D	15	J	40	13	ug/kg	1	
Fluorene	86-73-7	8270D	ND		40	11	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		40	18	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		40	13	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		210	30	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 99 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	01/02/2015 1211	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		40	11	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		40	12	ug/kg	1
Isophorone	78-59-1	8270D	ND		40	9.0	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		40	12	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		40	7.3	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		82	15	ug/kg	1
Naphthalene	91-20-3	8270D	ND		40	12	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		82	28	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		82	47	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		82	23	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		40	6.5	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		82	22	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		210	120	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		40	16	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		40	10	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		210	170	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		40	11	ug/kg	1
Phenol	108-95-2	8270D	12	J	40	11	ug/kg	1
Pyrene	129-00-0	8270D	ND		40	16	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		40	11	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		40	12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		68	33-102
2-Fluorophenol		69	28-104
Nitrobenzene-d5		59	22-109
Phenol-d5		73	27-103
Terphenyl-d14		101	41-120
2,4,6-Tribromophenol		81	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 100 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-021
Description: HA01SD02(121714)	Matrix: Solid
Date Sampled: 12/17/2014 1440	% Solids: 80.8 12/18/2014 2018
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1234	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	ND		21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		21	0.46	ug/kg	1
Endrin	72-20-8	8081B	ND		21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		70	57-110					
Tetrachloro-m-xylene		58	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1229	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1904	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.29	J	0.57	0.21	mg/kg	1
Barium	7440-39-3	6010C	14		1.5	0.10	mg/kg	1
Cadmium	7440-43-9	6010C	0.063	J	0.11	0.012	mg/kg	1
Chromium	7440-47-3	6010C	3.5		0.29	0.058	mg/kg	1
Lead	7439-92-1	6010C	3.2		0.57	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.096	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.57	0.20	mg/kg	1
Silver	7440-22-4	6010C	ND		0.29	0.048	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 102 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.56	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1605	DCS		63634	5.23

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	11	J	25	8.2	ug/kg	1
Benzene	71-43-2	8260B	ND		6.1	1.3	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.1	2.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.1	0.86	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.1	2.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		12	2.9	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.1	1.6	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.1	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.1	2.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.1	1.6	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.1	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.1	1.2	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.1	0.83	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.1	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.1	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.1	1.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.1	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.1	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.1	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.1	2.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.1	0.90	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.1	1.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.1	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.1	0.93	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.1	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.1	1.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.1	0.83	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.1	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.1	2.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		12	1.6	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		6.1	0.28	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.1	1.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.1	0.49	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		12	1.8	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.1	0.50	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.1	3.2	ug/kg	1
Styrene	100-42-5	8260B	ND		6.1	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.1	0.58	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.1	0.61	ug/kg	1
Toluene	108-88-3	8260B	ND		6.1	2.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.1	0.77	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.1	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.1	1.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.1	0.97	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1605	DCS		63634	5.23

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.1	2.3	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.1	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.1	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.1	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		94	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-022

Description: HA01SD01(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1520

% Solids: 77.9 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1639	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	34	J	84	27	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		84	26	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		84	46	ug/kg	1	
Anthracene	120-12-7	8270D	88		84	19	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		84	43	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		84	43	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	630		84	22	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	720		84	24	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	1400		84	24	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	360		84	29	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	610		84	24	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		84	25	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		84	25	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		170	56	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		84	43	ug/kg	1	
Carbazole	86-74-8	8270D	170		84	36	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		84	21	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		84	17	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		84	26	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		84	23	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		84	28	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		84	28	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		84	23	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		84	29	ug/kg	1	
Chrysene	218-01-9	8270D	840		84	28	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		84	23	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		84	27	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		430	92	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		84	26	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		84	28	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		84	28	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		84	32	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		84	45	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		430	330	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		430	290	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		170	46	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		170	44	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		84	81	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	150		84	30	ug/kg	1	
Fluoranthene	206-44-0	8270D	2000		84	27	ug/kg	1	
Fluorene	86-73-7	8270D	46	J	84	23	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		84	37	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		84	28	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		430	62	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-022

Description: HA01SD01(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1520

% Solids: 77.9 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	01/02/2015 1639	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		84	23	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	360		84	25	ug/kg	1
Isophorone	78-59-1	8270D	ND		84	19	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		84	25	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		84	15	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		170	30	ug/kg	1
Naphthalene	91-20-3	8270D	ND		84	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		170	58	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		170	98	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		170	48	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		84	14	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		170	47	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		430	240	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		84	32	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		84	21	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		430	350	ug/kg	1
Phenanthrene	85-01-8	8270D	920		84	23	ug/kg	1
Phenol	108-95-2	8270D	ND		84	23	ug/kg	1
Pyrene	129-00-0	8270D	1200		84	34	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		84	24	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		84	25	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		66	33-102
2-Fluorophenol		66	28-104
Nitrobenzene-d5		62	22-109
Phenol-d5		72	27-103
Terphenyl-d14		86	41-120
2,4,6-Tribromophenol		72	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 107 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1249	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		22	0.53	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		22	0.57	ug/kg	1
beta-BHC	319-85-7	8081B	ND		22	0.46	ug/kg	1
delta-BHC	319-86-8	8081B	0.62	JP	22	0.27	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	2.4	JP	22	0.95	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		22	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		22	0.32	ug/kg	1
4,4'-DDD	72-54-8	8081B	1.0	JP	22	0.46	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		22	4.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	2.7	JP	22	0.89	ug/kg	1
Dieldrin	60-57-1	8081B	ND		22	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		22	0.52	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		22	0.41	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	3.9	JP	22	0.47	ug/kg	1
Endrin	72-20-8	8081B	1.8	JP	22	0.28	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	2.0	JP	22	0.46	ug/kg	1
Endrin ketone	53494-70-5	8081B	4.7	JP	22	0.46	ug/kg	1
Heptachlor	76-44-8	8081B	ND		22	0.72	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		22	0.46	ug/kg	1
Methoxychlor	72-43-5	8081B	13	JP	85	0.85	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1100	22	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	140	57-110					
Tetrachloro-m-xylene		63	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-022

Description: HA01SD01(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1520

% Solids: 77.9 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1241	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1918	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.47	J	0.59	0.22	mg/kg	1
Barium	7440-39-3	6010C	14		1.5	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.12		0.12	0.012	mg/kg	1
Chromium	7440-47-3	6010C	4.3		0.29	0.059	mg/kg	1
Lead	7439-92-1	6010C	5.0		0.59	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.097	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.59	0.20	mg/kg	1
Silver	7440-22-4	6010C	ND		0.29	0.049	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 109 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.82	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1626	DCS		63634	5.65

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		22	7.5	ug/kg	1
Benzene	71-43-2	8260B	ND		5.6	1.2	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.6	1.9	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.6	0.79	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.6	2.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		11	2.7	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5.6	1.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5.6	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.6	1.9	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.6	1.5	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.6	0.93	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.6	1.1	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		5.6	0.76	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.6	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.6	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.6	0.96	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.6	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.6	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.6	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.6	1.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.6	0.82	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.6	1.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.6	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.6	0.85	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.6	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.6	1.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.6	0.76	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.6	0.92	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.6	1.9	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		11	1.5	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		5.6	0.26	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5.6	1.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.6	0.45	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		11	1.7	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		5.6	0.46	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.6	2.9	ug/kg	1
Styrene	100-42-5	8260B	ND		5.6	1.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.6	0.53	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.6	0.56	ug/kg	1
Toluene	108-88-3	8260B	ND		5.6	1.9	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.6	0.71	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.6	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.6	0.96	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.6	0.89	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1626	DCS		63634	5.65

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.6	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.6	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.6	0.97	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.6	3.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		93	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-023

Description: D2(121714)

Matrix: Solid

Date Sampled: 12/17/2014

% Solids: 78.7 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1703	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	63	J	83	27	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		83	26	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		83	45	ug/kg	1	
Anthracene	120-12-7	8270D	260		83	19	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		83	43	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		83	43	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	960		83	22	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	980		83	23	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	2200		83	24	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	370		83	29	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	820		83	24	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		83	25	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		83	25	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		170	55	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		83	43	ug/kg	1	
Carbazole	86-74-8	8270D	320		83	36	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		83	21	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		83	17	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		83	25	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		83	23	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		83	28	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		83	28	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		83	23	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		83	29	ug/kg	1	
Chrysene	218-01-9	8270D	1300		83	28	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		83	23	ug/kg	1	
Dibenzofuran	132-64-9	8270D	40	J	83	26	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		430	91	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		83	26	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		83	28	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		83	28	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		83	31	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		83	44	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		430	320	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		430	280	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		170	46	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		170	43	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		83	80	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	1100		83	29	ug/kg	1	
Fluoranthene	206-44-0	8270D	2900		83	26	ug/kg	1	
Fluorene	86-73-7	8270D	86		83	23	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		83	37	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		83	27	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		430	61	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-023

Description: D2(121714)

Matrix: Solid

Date Sampled: 12/17/2014

% Solids: 78.7 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	01/02/2015 1703	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		83	22	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	390		83	24	ug/kg	1
Isophorone	78-59-1	8270D	ND		83	18	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		83	25	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		83	15	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		170	30	ug/kg	1
Naphthalene	91-20-3	8270D	ND		83	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		170	57	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		170	97	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		170	48	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		83	13	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		170	46	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		430	240	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		83	32	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		83	21	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		430	350	ug/kg	1
Phenanthrene	85-01-8	8270D	1200		83	22	ug/kg	1
Phenol	108-95-2	8270D	ND		83	23	ug/kg	1
Pyrene	129-00-0	8270D	1700		83	33	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		83	23	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		83	25	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		35	33-102
2-Fluorophenol	N	25	28-104
Nitrobenzene-d5		22	22-109
Phenol-d5		32	27-103
Terphenyl-d14		81	41-120
2,4,6-Tribromophenol		66	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 114 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1303	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	2.7	JP	21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	4.1	JP	21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	0.78	JP	21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	0.76	JP	21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	5.3	JP	21	0.46	ug/kg	1
Endrin	72-20-8	8081B	2.0	JP	21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	2.4	JP	21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	4.5	JP	21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	17	JP	83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	124	57-110					
Tetrachloro-m-xylene		65	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1244	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1923	RKT	12/23/2014 0901	63790
2	3050B	6010C	1	12/31/2014 1426	ECS	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.56	J	0.61	0.23	mg/kg	2
Barium	7440-39-3	6010C	10		1.6	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.21		0.12	0.013	mg/kg	1
Chromium	7440-47-3	6010C	4.8		0.31	0.062	mg/kg	1
Lead	7439-92-1	6010C	6.2		0.61	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.10	0.0073	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.61	0.21	mg/kg	2
Silver	7440-22-4	6010C	ND		0.31	0.051	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-024			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/16/2014							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1644	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.43	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-024
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/16/2014	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63424-001

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 120 of 202
Level 1 Report v2.1

Inorganic non-metals - LCS

Sample ID: PQ63424-002

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.098		1	98	90-110	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.076		1	76	75-125	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.079		1	79	3.3	75-125	20	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL18008-018MS

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.094		1	94	75-125	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 124 of 202
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL18008-018MD

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.095		1	95	0.92	75-125	20	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: PQ63430-001

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium - Dissolved	ND		1	0.020	0.0081	mg/L	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63430-002

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	0.10	0.098		1	98	90-110	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 127 of 202
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0017	N	1	1.7	75-125	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 128 of 202
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0020	N	1	2.0	13	75-125	20	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63558-001

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/19/2014 1210
Benzene	ND		1	5.0	1.1	ug/kg	12/19/2014 1210
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Bromoform	ND		1	5.0	0.70	ug/kg	12/19/2014 1210
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/19/2014 1210
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/19/2014 1210
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/19/2014 1210
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/19/2014 1210
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Chloroethane	ND		1	5.0	1.3	ug/kg	12/19/2014 1210
Chloroform	ND		1	5.0	0.83	ug/kg	12/19/2014 1210
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/19/2014 1210
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/19/2014 1210
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/19/2014 1210
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/19/2014 1210
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/19/2014 1210
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/19/2014 1210
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/19/2014 1210
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/19/2014 1210
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/19/2014 1210
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/19/2014 1210
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
2-Hexanone	1.5	J	1	10	1.3	ug/kg	12/19/2014 1210
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/19/2014 1210
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/19/2014 1210
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/19/2014 1210
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/19/2014 1210
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/19/2014 1210
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/19/2014 1210
Styrene	ND		1	5.0	1.1	ug/kg	12/19/2014 1210
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/19/2014 1210
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/19/2014 1210
Toluene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/19/2014 1210
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/19/2014 1210
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/19/2014 1210

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63558-001

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/19/2014 1210
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/19/2014 1210
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/19/2014 1210
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		88	47-138				
1,2-Dichloroethane-d4		93	53-142				
Toluene-d8		93	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63558-002

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	130	60-140	12/19/2014 1109
Benzene	50	54		1	109	69-123	12/19/2014 1109
Bromodichloromethane	50	52		1	104	69-121	12/19/2014 1109
Bromoform	50	51		1	101	61-119	12/19/2014 1109
Bromomethane (Methyl bromide)	50	57		1	114	10-168	12/19/2014 1109
2-Butanone (MEK)	100	110		1	111	57-148	12/19/2014 1109
Carbon disulfide	50	60		1	119	58-122	12/19/2014 1109
Carbon tetrachloride	50	57		1	113	58-136	12/19/2014 1109
Chlorobenzene	50	52		1	104	59-129	12/19/2014 1109
Chloroethane	50	57		1	113	42-163	12/19/2014 1109
Chloroform	50	55		1	111	71-125	12/19/2014 1109
Chloromethane (Methyl chloride)	50	59		1	117	34-134	12/19/2014 1109
Cyclohexane	50	54		1	108	53-139	12/19/2014 1109
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	103	55-125	12/19/2014 1109
Dibromochloromethane	50	50		1	101	66-119	12/19/2014 1109
1,2-Dibromoethane (EDB)	50	50		1	100	74-124	12/19/2014 1109
1,2-Dichlorobenzene	50	52		1	105	57-131	12/19/2014 1109
1,4-Dichlorobenzene	50	50		1	101	52-133	12/19/2014 1109
1,3-Dichlorobenzene	50	53		1	106	51-134	12/19/2014 1109
Dichlorodifluoromethane	50	64		1	129	10-157	12/19/2014 1109
1,2-Dichloroethane	50	53		1	105	67-129	12/19/2014 1109
1,1-Dichloroethane	50	57		1	113	71-127	12/19/2014 1109
1,1-Dichloroethene	50	60		1	121	69-138	12/19/2014 1109
cis-1,2-Dichloroethene	50	58		1	115	70-122	12/19/2014 1109
trans-1,2-Dichloroethene	50	60		1	120	68-131	12/19/2014 1109
1,2-Dichloropropane	50	53		1	106	72-124	12/19/2014 1109
trans-1,3-Dichloropropene	50	52		1	105	70-124	12/19/2014 1109
cis-1,3-Dichloropropene	50	53		1	106	70-126	12/19/2014 1109
Ethylbenzene	50	53		1	106	59-128	12/19/2014 1109
2-Hexanone	100	110		1	105	54-137	12/19/2014 1109
Isopropylbenzene	50	55		1	110	50-136	12/19/2014 1109
Methyl acetate	50	57		1	114	59-137	12/19/2014 1109
Methyl tertiary butyl ether (MTBE)	50	56		1	113	70-130	12/19/2014 1109
4-Methyl-2-pentanone	100	110		1	105	60-134	12/19/2014 1109
Methylcyclohexane	50	61		1	121	41-144	12/19/2014 1109
Methylene chloride	50	55		1	110	70-130	12/19/2014 1109
Styrene	50	55		1	109	54-136	12/19/2014 1109
1,1,2,2-Tetrachloroethane	50	49		1	98	69-132	12/19/2014 1109
Tetrachloroethene	50	55		1	109	45-150	12/19/2014 1109
Toluene	50	55		1	109	61-129	12/19/2014 1109
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	64		1	129	49-136	12/19/2014 1109
1,2,4-Trichlorobenzene	50	54		1	108	34-145	12/19/2014 1109
1,1,1-Trichloroethane	50	58		1	115	63-128	12/19/2014 1109
1,1,2-Trichloroethane	50	50		1	99	55-128	12/19/2014 1109

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63558-002

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	55		1	109	62-126	12/19/2014 1109
Trichlorofluoromethane	50	56		1	112	45-138	12/19/2014 1109
Vinyl chloride	50	59		1	117	42-132	12/19/2014 1109
Xylenes (total)	100	110		1	110	58-128	12/19/2014 1109
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		88	47-138				
1,2-Dichloroethane-d4		86	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/21/2014 1335
Benzene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Bromoform	ND		1	5.0	0.70	ug/kg	12/21/2014 1335
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/21/2014 1335
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Chloroethane	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Chloroform	ND		1	5.0	0.83	ug/kg	12/21/2014 1335
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/21/2014 1335
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/21/2014 1335
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/21/2014 1335
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/21/2014 1335
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/21/2014 1335
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/21/2014 1335
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/21/2014 1335
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
2-Hexanone	2.0	J	1	10	1.3	ug/kg	12/21/2014 1335
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/21/2014 1335
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/21/2014 1335
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/21/2014 1335
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/21/2014 1335
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/21/2014 1335
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/21/2014 1335
Styrene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/21/2014 1335
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/21/2014 1335
Toluene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/21/2014 1335
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/21/2014 1335

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/21/2014 1335
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/21/2014 1335
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/21/2014 1335
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	126	60-140	12/21/2014 1239
Benzene	50	47		1	95	69-123	12/21/2014 1239
Bromodichloromethane	50	47		1	95	69-121	12/21/2014 1239
Bromoform	50	48		1	96	61-119	12/21/2014 1239
Bromomethane (Methyl bromide)	50	53		1	106	10-168	12/21/2014 1239
2-Butanone (MEK)	100	110		1	106	57-148	12/21/2014 1239
Carbon disulfide	50	49		1	97	58-122	12/21/2014 1239
Carbon tetrachloride	50	48		1	95	58-136	12/21/2014 1239
Chlorobenzene	50	46		1	92	59-129	12/21/2014 1239
Chloroethane	50	53		1	106	42-163	12/21/2014 1239
Chloroform	50	49		1	98	71-125	12/21/2014 1239
Chloromethane (Methyl chloride)	50	55		1	109	34-134	12/21/2014 1239
Cyclohexane	50	46		1	91	53-139	12/21/2014 1239
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	55-125	12/21/2014 1239
Dibromochloromethane	50	47		1	94	66-119	12/21/2014 1239
1,2-Dibromoethane (EDB)	50	47		1	93	74-124	12/21/2014 1239
1,4-Dichlorobenzene	50	46		1	92	52-133	12/21/2014 1239
1,2-Dichlorobenzene	50	46		1	92	57-131	12/21/2014 1239
1,3-Dichlorobenzene	50	47		1	93	51-134	12/21/2014 1239
Dichlorodifluoromethane	50	59		1	117	10-157	12/21/2014 1239
1,2-Dichloroethane	50	48		1	96	67-129	12/21/2014 1239
1,1-Dichloroethane	50	49		1	99	71-127	12/21/2014 1239
1,1-Dichloroethene	50	50		1	100	69-138	12/21/2014 1239
trans-1,2-Dichloroethene	50	50		1	100	68-131	12/21/2014 1239
cis-1,2-Dichloroethene	50	50		1	100	70-122	12/21/2014 1239
1,2-Dichloropropane	50	47		1	95	72-124	12/21/2014 1239
trans-1,3-Dichloropropene	50	47		1	94	70-124	12/21/2014 1239
cis-1,3-Dichloropropene	50	47		1	93	70-126	12/21/2014 1239
Ethylbenzene	50	46		1	92	59-128	12/21/2014 1239
2-Hexanone	100	100		1	103	54-137	12/21/2014 1239
Isopropylbenzene	50	46		1	92	50-136	12/21/2014 1239
Methyl acetate	50	56		1	113	59-137	12/21/2014 1239
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	12/21/2014 1239
4-Methyl-2-pentanone	100	100		1	102	60-134	12/21/2014 1239
Methylcyclohexane	50	49		1	98	41-144	12/21/2014 1239
Methylene chloride	50	50		1	99	70-130	12/21/2014 1239
Styrene	50	49		1	99	54-136	12/21/2014 1239
1,1,2,2-Tetrachloroethane	50	47		1	94	69-132	12/21/2014 1239
Tetrachloroethene	50	47		1	94	45-150	12/21/2014 1239
Toluene	50	46		1	92	61-129	12/21/2014 1239
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	49-136	12/21/2014 1239
1,2,4-Trichlorobenzene	50	43		1	87	34-145	12/21/2014 1239
1,1,1-Trichloroethane	50	48		1	96	63-128	12/21/2014 1239
1,1,2-Trichloroethane	50	47		1	94	55-128	12/21/2014 1239

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	94	62-126	12/21/2014 1239
Trichlorofluoromethane	50	52		1	104	45-138	12/21/2014 1239
Vinyl chloride	50	53		1	106	42-132	12/21/2014 1239
Xylenes (total)	100	96		1	96	58-128	12/21/2014 1239
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	47-138				
1,2-Dichloroethane-d4		105	53-142				
Toluene-d8		110	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63640-001

Matrix: Aqueous

Batch: 63640

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/21/2014 1340
Benzene	ND		1	1.0	0.13	ug/L	12/21/2014 1340
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Bromoform	ND		1	1.0	0.66	ug/L	12/21/2014 1340
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/21/2014 1340
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/21/2014 1340
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/21/2014 1340
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/21/2014 1340
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/21/2014 1340
Chloroethane	ND		1	2.0	0.47	ug/L	12/21/2014 1340
Chloroform	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/21/2014 1340
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/21/2014 1340
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/21/2014 1340
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/21/2014 1340
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/21/2014 1340
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/21/2014 1340
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/21/2014 1340
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/21/2014 1340
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/21/2014 1340
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
2-Hexanone	ND		1	10	0.27	ug/L	12/21/2014 1340
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/21/2014 1340
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/21/2014 1340
Methylene chloride	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Styrene	ND		1	1.0	0.12	ug/L	12/21/2014 1340
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/21/2014 1340
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/21/2014 1340
Toluene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/21/2014 1340
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/21/2014 1340
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/21/2014 1340
Trichloroethene	ND		1	1.0	0.18	ug/L	12/21/2014 1340
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/21/2014 1340
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63640-002

Matrix: Aqueous

Batch: 63640

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	97		1	97	60-140	12/21/2014 1253
Benzene	50	52		1	105	70-130	12/21/2014 1253
Bromodichloromethane	50	53		1	107	70-130	12/21/2014 1253
Bromoform	50	49		1	97	70-130	12/21/2014 1253
Bromomethane (Methyl bromide)	50	48		1	96	60-140	12/21/2014 1253
2-Butanone (MEK)	100	97		1	97	60-140	12/21/2014 1253
Carbon disulfide	50	53		1	106	60-140	12/21/2014 1253
Carbon tetrachloride	50	55		1	109	70-130	12/21/2014 1253
Chlorobenzene	50	51		1	102	70-130	12/21/2014 1253
Chloroethane	50	51		1	102	42-163	12/21/2014 1253
Chloroform	50	50		1	101	70-130	12/21/2014 1253
Chloromethane (Methyl chloride)	50	53		1	107	60-140	12/21/2014 1253
Dibromochloromethane	50	52		1	104	70-130	12/21/2014 1253
1,2-Dichlorobenzene	50	51		1	102	70-130	12/21/2014 1253
1,3-Dichlorobenzene	50	51		1	103	70-130	12/21/2014 1253
1,4-Dichlorobenzene	50	49		1	97	70-130	12/21/2014 1253
1,2-Dichloroethane	50	49		1	98	70-130	12/21/2014 1253
1,1-Dichloroethane	50	51		1	101	70-130	12/21/2014 1253
trans-1,2-Dichloroethene	50	52		1	104	70-130	12/21/2014 1253
1,1-Dichloroethene	50	53		1	105	70-130	12/21/2014 1253
cis-1,2-Dichloroethene	50	49		1	99	70-130	12/21/2014 1253
1,2-Dichloropropane	50	53		1	106	70-130	12/21/2014 1253
cis-1,3-Dichloropropene	50	56		1	112	70-130	12/21/2014 1253
trans-1,3-Dichloropropene	50	54		1	107	70-130	12/21/2014 1253
Ethylbenzene	50	53		1	105	70-130	12/21/2014 1253
2-Hexanone	100	100		1	103	60-140	12/21/2014 1253
Methyl tertiary butyl ether (MTBE)	50	49		1	97	70-130	12/21/2014 1253
4-Methyl-2-pentanone	100	99		1	99	60-140	12/21/2014 1253
Methylene chloride	50	47		1	95	70-130	12/21/2014 1253
Styrene	50	54		1	108	70-130	12/21/2014 1253
1,1,2,2-Tetrachloroethane	50	49		1	97	60-140	12/21/2014 1253
Tetrachloroethene	50	52		1	103	70-130	12/21/2014 1253
Toluene	50	55		1	110	70-130	12/21/2014 1253
1,2,4-Trichlorobenzene	50	51		1	102	70-130	12/21/2014 1253
1,1,2-Trichloroethane	50	50		1	99	70-130	12/21/2014 1253
1,1,1-Trichloroethane	50	52		1	104	70-130	12/21/2014 1253
Trichloroethene	50	52		1	104	70-130	12/21/2014 1253
Vinyl chloride	50	53		1	107	70-130	12/21/2014 1253
Xylenes (total)	100	100		1	104	70-130	12/21/2014 1253
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		98	70-130				
Toluene-d8		110	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63707-001

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/22/2014 1202
Benzene	ND		1	1.0	0.13	ug/L	12/22/2014 1202
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Bromoform	ND		1	1.0	0.66	ug/L	12/22/2014 1202
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/22/2014 1202
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/22/2014 1202
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/22/2014 1202
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/22/2014 1202
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/22/2014 1202
Chloroethane	ND		1	2.0	0.47	ug/L	12/22/2014 1202
Chloroform	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/22/2014 1202
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/22/2014 1202
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/22/2014 1202
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/22/2014 1202
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/22/2014 1202
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/22/2014 1202
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/22/2014 1202
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/22/2014 1202
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/22/2014 1202
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
2-Hexanone	ND		1	10	0.27	ug/L	12/22/2014 1202
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/22/2014 1202
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/22/2014 1202
Methylene chloride	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Styrene	ND		1	1.0	0.12	ug/L	12/22/2014 1202
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/22/2014 1202
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/22/2014 1202
Toluene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/22/2014 1202
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/22/2014 1202
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/22/2014 1202
Trichloroethene	ND		1	1.0	0.18	ug/L	12/22/2014 1202
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/22/2014 1202
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		109	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		105	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63707-002

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	128	60-140	12/22/2014 1058
Benzene	50	51		1	101	70-130	12/22/2014 1058
Bromodichloromethane	50	47		1	93	70-130	12/22/2014 1058
Bromoform	50	47		1	95	70-130	12/22/2014 1058
Bromomethane (Methyl bromide)	50	51		1	102	60-140	12/22/2014 1058
2-Butanone (MEK)	100	110		1	105	60-140	12/22/2014 1058
Carbon disulfide	50	50		1	99	60-140	12/22/2014 1058
Carbon tetrachloride	50	46		1	93	70-130	12/22/2014 1058
Chlorobenzene	50	50		1	99	70-130	12/22/2014 1058
Chloroethane	50	49		1	98	42-163	12/22/2014 1058
Chloroform	50	50		1	101	70-130	12/22/2014 1058
Chloromethane (Methyl chloride)	50	52		1	104	60-140	12/22/2014 1058
Dibromochloromethane	50	47		1	94	70-130	12/22/2014 1058
1,2-Dichlorobenzene	50	49		1	99	70-130	12/22/2014 1058
1,4-Dichlorobenzene	50	50		1	100	70-130	12/22/2014 1058
1,3-Dichlorobenzene	50	50		1	100	70-130	12/22/2014 1058
1,2-Dichloroethane	50	52		1	103	70-130	12/22/2014 1058
1,1-Dichloroethane	50	52		1	103	70-130	12/22/2014 1058
1,1-Dichloroethene	50	48		1	97	70-130	12/22/2014 1058
cis-1,2-Dichloroethene	50	51		1	102	70-130	12/22/2014 1058
trans-1,2-Dichloroethene	50	51		1	103	70-130	12/22/2014 1058
1,2-Dichloropropane	50	47		1	93	70-130	12/22/2014 1058
cis-1,3-Dichloropropene	50	53		1	105	70-130	12/22/2014 1058
trans-1,3-Dichloropropene	50	47		1	95	70-130	12/22/2014 1058
Ethylbenzene	50	51		1	101	70-130	12/22/2014 1058
2-Hexanone	100	98		1	98	60-140	12/22/2014 1058
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	12/22/2014 1058
4-Methyl-2-pentanone	100	96		1	96	60-140	12/22/2014 1058
Methylene chloride	50	50		1	99	70-130	12/22/2014 1058
Styrene	50	50		1	100	70-130	12/22/2014 1058
1,1,2,2-Tetrachloroethane	50	52		1	105	60-140	12/22/2014 1058
Tetrachloroethene	50	46		1	92	70-130	12/22/2014 1058
Toluene	50	44		1	89	70-130	12/22/2014 1058
1,2,4-Trichlorobenzene	50	49		1	98	70-130	12/22/2014 1058
1,1,1-Trichloroethane	50	47		1	94	70-130	12/22/2014 1058
1,1,2-Trichloroethane	50	50		1	100	70-130	12/22/2014 1058
Trichloroethene	50	45		1	91	70-130	12/22/2014 1058
Vinyl chloride	50	52		1	104	70-130	12/22/2014 1058
Xylenes (total)	100	100		1	100	70-130	12/22/2014 1058
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	120		1	116	60-140	12/22/2014 1851
Benzene	0.87	50	56		1	111	72-127	12/22/2014 1851
Bromodichloromethane	ND	50	50		1	100	71-143	12/22/2014 1851
Bromoform	ND	50	48		1	96	65-131	12/22/2014 1851
Bromomethane (Methyl bromide)	ND	50	56		1	112	36-168	12/22/2014 1851
2-Butanone (MEK)	ND	100	100		1	101	60-140	12/22/2014 1851
Carbon disulfide	0.33	50	60		1	118	60-140	12/22/2014 1851
Carbon tetrachloride	ND	50	53		1	106	37-166	12/22/2014 1851
Chlorobenzene	ND	50	53		1	105	78-129	12/22/2014 1851
Chloroethane	ND	50	56		1	111	60-140	12/22/2014 1851
Chloroform	ND	50	56		1	111	63-123	12/22/2014 1851
Chloromethane (Methyl chloride)	ND	50	59		1	119	20-158	12/22/2014 1851
Dibromochloromethane	ND	50	49		1	98	74-134	12/22/2014 1851
1,4-Dichlorobenzene	ND	50	51		1	102	70-130	12/22/2014 1851
1,3-Dichlorobenzene	ND	50	52		1	104	70-130	12/22/2014 1851
1,2-Dichlorobenzene	ND	50	51		1	102	70-130	12/22/2014 1851
1,2-Dichloroethane	ND	50	56		1	112	59-143	12/22/2014 1851
1,1-Dichloroethane	ND	50	59		1	117	69-132	12/22/2014 1851
trans-1,2-Dichloroethene	ND	50	59		1	117	67-141	12/22/2014 1851
cis-1,2-Dichloroethene	0.39	50	57		1	114	70-130	12/22/2014 1851
1,1-Dichloroethene	ND	50	57		1	114	50-132	12/22/2014 1851
1,2-Dichloropropane	ND	50	50		1	100	71-126	12/22/2014 1851
trans-1,3-Dichloropropene	ND	50	48		1	96	73-131	12/22/2014 1851
cis-1,3-Dichloropropene	ND	50	54		1	108	69-130	12/22/2014 1851
Ethylbenzene	ND	50	55		1	109	79-132	12/22/2014 1851
2-Hexanone	ND	100	100		1	102	60-140	12/22/2014 1851
Methyl tertiary butyl ether (MTBE)	ND	50	57		1	113	60-140	12/22/2014 1851
4-Methyl-2-pentanone	ND	100	98		1	98	60-140	12/22/2014 1851
Methylene chloride	ND	50	55		1	111	69-129	12/22/2014 1851
Styrene	ND	50	52		1	104	70-130	12/22/2014 1851
1,1,2,2-Tetrachloroethane	ND	50	53		1	106	60-155	12/22/2014 1851
Tetrachloroethene	ND	50	51		1	101	70-130	12/22/2014 1851
Toluene	ND	50	48		1	96	75-125	12/22/2014 1851
1,2,4-Trichlorobenzene	ND	50	49		1	97	70-130	12/22/2014 1851
1,1,2-Trichloroethane	ND	50	53		1	106	77-132	12/22/2014 1851
1,1,1-Trichloroethane	ND	50	56		1	111	77-132	12/22/2014 1851
Trichloroethene	ND	50	50		1	100	73-124	12/22/2014 1851
Vinyl chloride	0.34	50	61		1	121	29-159	12/22/2014 1851
Xylenes (total)	ND	100	110		1	107	70-130	12/22/2014 1851
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		103	70-130					
Bromofluorobenzene		102	70-130					
Toluene-d8		105	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	120		1	117	0.97	60-140	20	12/22/2014 1912
Benzene	0.87	50	58		1	114	2.4	72-127	20	12/22/2014 1912
Bromodichloromethane	ND	50	51		1	101	1.9	71-143	20	12/22/2014 1912
Bromoform	ND	50	48		1	95	0.29	65-131	20	12/22/2014 1912
Bromomethane (Methyl bromide)	ND	50	58		1	116	3.6	36-168	20	12/22/2014 1912
2-Butanone (MEK)	ND	100	100		1	101	0.059	60-140	20	12/22/2014 1912
Carbon disulfide	0.33	50	63		1	125	5.3	60-140	20	12/22/2014 1912
Carbon tetrachloride	ND	50	55		1	110	3.4	37-166	20	12/22/2014 1912
Chlorobenzene	ND	50	55		1	109	3.7	78-129	20	12/22/2014 1912
Chloroethane	ND	50	58		1	116	4.2	60-140	20	12/22/2014 1912
Chloroform	ND	50	58		1	116	4.1	63-123	20	12/22/2014 1912
Chloromethane (Methyl chloride)	ND	50	60		1	120	1.6	20-158	20	12/22/2014 1912
Dibromochloromethane	ND	50	50		1	101	2.8	74-134	20	12/22/2014 1912
1,4-Dichlorobenzene	ND	50	53		1	106	4.1	70-130	20	12/22/2014 1912
1,3-Dichlorobenzene	ND	50	54		1	109	4.8	70-130	20	12/22/2014 1912
1,2-Dichlorobenzene	ND	50	54		1	108	5.4	70-130	20	12/22/2014 1912
1,2-Dichloroethane	ND	50	58		1	115	2.5	59-143	20	12/22/2014 1912
1,1-Dichloroethane	ND	50	60		1	120	2.4	69-132	20	12/22/2014 1912
trans-1,2-Dichloroethene	ND	50	61		1	122	3.9	67-141	20	12/22/2014 1912
cis-1,2-Dichloroethene	0.39	50	59		1	117	2.8	70-130	20	12/22/2014 1912
1,1-Dichloroethene	ND	50	58		1	115	1.3	50-132	20	12/22/2014 1912
1,2-Dichloropropane	ND	50	51		1	102	1.7	71-126	20	12/22/2014 1912
trans-1,3-Dichloropropene	ND	50	49		1	97	1.1	73-131	20	12/22/2014 1912
cis-1,3-Dichloropropene	ND	50	55		1	110	1.9	69-130	20	12/22/2014 1912
Ethylbenzene	ND	50	56		1	113	3.2	79-132	20	12/22/2014 1912
2-Hexanone	ND	100	100		1	102	0.71	60-140	20	12/22/2014 1912
Methyl tertiary butyl ether (MTBE)	ND	50	58		1	117	3.2	60-140	20	12/22/2014 1912
4-Methyl-2-pentanone	ND	100	98		1	98	0.098	60-140	20	12/22/2014 1912
Methylene chloride	ND	50	57		1	114	2.3	69-129	20	12/22/2014 1912
Styrene	ND	50	53		1	106	2.0	70-130	20	12/22/2014 1912
1,1,2,2-Tetrachloroethane	ND	50	56		1	111	4.9	60-155	20	12/22/2014 1912
Tetrachloroethene	ND	50	53		1	105	3.8	70-130	20	12/22/2014 1912
Toluene	ND	50	49		1	98	2.2	75-125	20	12/22/2014 1912
1,2,4-Trichlorobenzene	ND	50	52		1	105	7.3	70-130	20	12/22/2014 1912
1,1,2-Trichloroethane	ND	50	54		1	109	2.3	77-132	20	12/22/2014 1912
1,1,1-Trichloroethane	ND	50	58		1	116	3.7	77-132	20	12/22/2014 1912
Trichloroethene	ND	50	52		1	103	3.5	73-124	20	12/22/2014 1912
Vinyl chloride	0.34	50	63		1	125	3.0	29-159	20	12/22/2014 1912
Xylenes (total)	ND	100	110		1	111	3.4	70-130	20	12/22/2014 1912
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		107	70-130							
Bromofluorobenzene		107	70-130							
Toluene-d8		107	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63929-001

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/24/2014 1037
Benzene	ND		1	1.0	0.13	ug/L	12/24/2014 1037
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Bromoform	ND		1	1.0	0.66	ug/L	12/24/2014 1037
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/24/2014 1037
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/24/2014 1037
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/24/2014 1037
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/24/2014 1037
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/24/2014 1037
Chloroethane	ND		1	2.0	0.47	ug/L	12/24/2014 1037
Chloroform	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/24/2014 1037
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/24/2014 1037
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/24/2014 1037
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/24/2014 1037
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/24/2014 1037
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/24/2014 1037
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/24/2014 1037
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/24/2014 1037
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/24/2014 1037
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
2-Hexanone	ND		1	10	0.27	ug/L	12/24/2014 1037
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/24/2014 1037
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/24/2014 1037
Methylene chloride	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Styrene	ND		1	1.0	0.12	ug/L	12/24/2014 1037
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/24/2014 1037
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/24/2014 1037
Toluene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/24/2014 1037
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/24/2014 1037
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/24/2014 1037
Trichloroethene	ND		1	1.0	0.18	ug/L	12/24/2014 1037
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/24/2014 1037
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63929-002

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	87		1	87	60-140	12/24/2014 0912
Benzene	50	47		1	95	70-130	12/24/2014 0912
Bromodichloromethane	50	47		1	95	70-130	12/24/2014 0912
Bromoform	50	45		1	89	70-130	12/24/2014 0912
Bromomethane (Methyl bromide)	50	50		1	101	60-140	12/24/2014 0912
2-Butanone (MEK)	100	84		1	84	60-140	12/24/2014 0912
Carbon disulfide	50	47		1	94	60-140	12/24/2014 0912
Carbon tetrachloride	50	50		1	101	70-130	12/24/2014 0912
Chlorobenzene	50	46		1	92	70-130	12/24/2014 0912
Chloroethane	50	51		1	102	42-163	12/24/2014 0912
Chloroform	50	47		1	94	70-130	12/24/2014 0912
Chloromethane (Methyl chloride)	50	53		1	105	60-140	12/24/2014 0912
Dibromochloromethane	50	47		1	93	70-130	12/24/2014 0912
1,4-Dichlorobenzene	50	45		1	90	70-130	12/24/2014 0912
1,2-Dichlorobenzene	50	49		1	98	70-130	12/24/2014 0912
1,3-Dichlorobenzene	50	47		1	95	70-130	12/24/2014 0912
1,2-Dichloroethane	50	45		1	89	70-130	12/24/2014 0912
1,1-Dichloroethane	50	47		1	94	70-130	12/24/2014 0912
cis-1,2-Dichloroethene	50	46		1	92	70-130	12/24/2014 0912
1,1-Dichloroethene	50	48		1	95	70-130	12/24/2014 0912
trans-1,2-Dichloroethene	50	47		1	94	70-130	12/24/2014 0912
1,2-Dichloropropane	50	47		1	94	70-130	12/24/2014 0912
cis-1,3-Dichloropropene	50	46		1	92	70-130	12/24/2014 0912
trans-1,3-Dichloropropene	50	45		1	91	70-130	12/24/2014 0912
Ethylbenzene	50	48		1	96	70-130	12/24/2014 0912
2-Hexanone	100	92		1	92	60-140	12/24/2014 0912
Methyl tertiary butyl ether (MTBE)	50	47		1	93	70-130	12/24/2014 0912
4-Methyl-2-pentanone	100	90		1	90	60-140	12/24/2014 0912
Methylene chloride	50	45		1	90	70-130	12/24/2014 0912
Styrene	50	50		1	100	70-130	12/24/2014 0912
1,1,2,2-Tetrachloroethane	50	45		1	90	60-140	12/24/2014 0912
Tetrachloroethene	50	48		1	95	70-130	12/24/2014 0912
Toluene	50	48		1	96	70-130	12/24/2014 0912
1,2,4-Trichlorobenzene	50	53		1	106	70-130	12/24/2014 0912
1,1,2-Trichloroethane	50	45		1	89	70-130	12/24/2014 0912
1,1,1-Trichloroethane	50	49		1	98	70-130	12/24/2014 0912
Trichloroethene	50	48		1	96	70-130	12/24/2014 0912
Vinyl chloride	50	51		1	102	70-130	12/24/2014 0912
Xylenes (total)	100	96		1	96	70-130	12/24/2014 0912
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		106	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	87		1	87	60-140	12/24/2014 1841
Benzene	ND	50	51		1	102	72-127	12/24/2014 1841
Bromodichloromethane	ND	50	49		1	97	71-143	12/24/2014 1841
Bromoform	ND	50	40		1	79	65-131	12/24/2014 1841
Bromomethane (Methyl bromide)	ND	50	48		1	95	36-168	12/24/2014 1841
2-Butanone (MEK)	ND	100	92		1	92	60-140	12/24/2014 1841
Carbon disulfide	ND	50	45		1	91	60-140	12/24/2014 1841
Carbon tetrachloride	ND	50	53		1	106	37-166	12/24/2014 1841
Chlorobenzene	ND	50	50		1	100	78-129	12/24/2014 1841
Chloroethane	ND	50	54		1	107	60-140	12/24/2014 1841
Chloroform	ND	50	50		1	101	63-123	12/24/2014 1841
Chloromethane (Methyl chloride)	ND	50	54		1	108	20-158	12/24/2014 1841
Dibromochloromethane	ND	50	46		1	93	74-134	12/24/2014 1841
1,4-Dichlorobenzene	ND	50	48		1	96	70-130	12/24/2014 1841
1,3-Dichlorobenzene	ND	50	51		1	101	70-130	12/24/2014 1841
1,2-Dichlorobenzene	ND	50	52		1	104	70-130	12/24/2014 1841
1,2-Dichloroethane	ND	50	49		1	97	59-143	12/24/2014 1841
1,1-Dichloroethane	ND	50	52		1	103	69-132	12/24/2014 1841
trans-1,2-Dichloroethene	ND	50	53		1	106	67-141	12/24/2014 1841
cis-1,2-Dichloroethene	2.6	50	53		1	101	70-130	12/24/2014 1841
1,1-Dichloroethene	ND	50	54		1	108	50-132	12/24/2014 1841
1,2-Dichloropropane	ND	50	50		1	101	71-126	12/24/2014 1841
trans-1,3-Dichloropropene	ND	50	40		1	80	73-131	12/24/2014 1841
cis-1,3-Dichloropropene	ND	50	40		1	80	69-130	12/24/2014 1841
Ethylbenzene	ND	50	51		1	102	79-132	12/24/2014 1841
2-Hexanone	ND	100	100		1	100	60-140	12/24/2014 1841
Methyl tertiary butyl ether (MTBE)	ND	50	51		1	103	60-140	12/24/2014 1841
4-Methyl-2-pentanone	ND	100	100		1	101	60-140	12/24/2014 1841
Methylene chloride	ND	50	48		1	95	69-129	12/24/2014 1841
Styrene	ND	50	42		1	83	70-130	12/24/2014 1841
1,1,2,2-Tetrachloroethane	ND	50	51		1	101	60-155	12/24/2014 1841
Tetrachloroethene	ND	50	54		1	108	70-130	12/24/2014 1841
Toluene	ND	50	49		1	98	75-125	12/24/2014 1841
1,2,4-Trichlorobenzene	ND	50	59		1	117	70-130	12/24/2014 1841
1,1,2-Trichloroethane	ND	50	50		1	100	77-132	12/24/2014 1841
1,1,1-Trichloroethane	ND	50	52		1	105	77-132	12/24/2014 1841
Trichloroethene	ND	50	51		1	102	73-124	12/24/2014 1841
Vinyl chloride	ND	50	56		1	113	29-159	12/24/2014 1841
Xylenes (total)	ND	100	100		1	100	70-130	12/24/2014 1841
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		103	70-130					
Bromofluorobenzene		100	70-130					
Toluene-d8		102	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	97		1	97	12	60-140	20	12/24/2014 1904
Benzene	ND	50	50		1	100	2.3	72-127	20	12/24/2014 1904
Bromodichloromethane	ND	50	49		1	98	1.3	71-143	20	12/24/2014 1904
Bromoform	ND	50	40		1	80	0.77	65-131	20	12/24/2014 1904
Bromomethane (Methyl bromide)	ND	50	48		1	95	0.44	36-168	20	12/24/2014 1904
2-Butanone (MEK)	ND	100	96		1	96	3.8	60-140	20	12/24/2014 1904
Carbon disulfide	ND	50	43		1	85	6.3	60-140	20	12/24/2014 1904
Carbon tetrachloride	ND	50	52		1	103	2.5	37-166	20	12/24/2014 1904
Chlorobenzene	ND	50	49		1	98	2.8	78-129	20	12/24/2014 1904
Chloroethane	ND	50	52		1	104	2.6	60-140	20	12/24/2014 1904
Chloroform	ND	50	49		1	97	3.4	63-123	20	12/24/2014 1904
Chloromethane (Methyl chloride)	ND	50	51		1	101	6.8	20-158	20	12/24/2014 1904
Dibromochloromethane	ND	50	47		1	94	0.91	74-134	20	12/24/2014 1904
1,4-Dichlorobenzene	ND	50	47		1	94	1.4	70-130	20	12/24/2014 1904
1,3-Dichlorobenzene	ND	50	50		1	99	1.7	70-130	20	12/24/2014 1904
1,2-Dichlorobenzene	ND	50	52		1	105	0.85	70-130	20	12/24/2014 1904
1,2-Dichloroethane	ND	50	48		1	96	1.5	59-143	20	12/24/2014 1904
1,1-Dichloroethane	ND	50	49		1	98	5.1	69-132	20	12/24/2014 1904
trans-1,2-Dichloroethene	ND	50	51		1	102	3.8	67-141	20	12/24/2014 1904
cis-1,2-Dichloroethene	2.6	50	51		1	96	4.7	70-130	20	12/24/2014 1904
1,1-Dichloroethene	ND	50	50		1	101	7.1	50-132	20	12/24/2014 1904
1,2-Dichloropropane	ND	50	50		1	101	0.036	71-126	20	12/24/2014 1904
trans-1,3-Dichloropropene	ND	50	43		1	85	5.7	73-131	20	12/24/2014 1904
cis-1,3-Dichloropropene	ND	50	43		1	86	6.7	69-130	20	12/24/2014 1904
Ethylbenzene	ND	50	49		1	99	3.3	79-132	20	12/24/2014 1904
2-Hexanone	ND	100	100		1	100	0.066	60-140	20	12/24/2014 1904
Methyl tertiary butyl ether (MTBE)	ND	50	49		1	99	3.7	60-140	20	12/24/2014 1904
4-Methyl-2-pentanone	ND	100	100		1	102	1.2	60-140	20	12/24/2014 1904
Methylene chloride	ND	50	46		1	92	3.8	69-129	20	12/24/2014 1904
Styrene	ND	50	40		1	80	3.8	70-130	20	12/24/2014 1904
1,1,2,2-Tetrachloroethane	ND	50	51		1	102	0.75	60-155	20	12/24/2014 1904
Tetrachloroethene	ND	50	52		1	104	4.5	70-130	20	12/24/2014 1904
Toluene	ND	50	50		1	101	2.5	75-125	20	12/24/2014 1904
1,2,4-Trichlorobenzene	ND	50	56		1	111	5.3	70-130	20	12/24/2014 1904
1,1,2-Trichloroethane	ND	50	49		1	98	1.3	77-132	20	12/24/2014 1904
1,1,1-Trichloroethane	ND	50	51		1	101	3.2	77-132	20	12/24/2014 1904
Trichloroethene	ND	50	51		1	103	0.52	73-124	20	12/24/2014 1904
Vinyl chloride	ND	50	54		1	108	4.6	29-159	20	12/24/2014 1904
Xylenes (total)	ND	100	94		1	94	6.1	70-130	20	12/24/2014 1904
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		101	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		106	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63730-001

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1323
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1323
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1323
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1323
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1323
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1323
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1323
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1323
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1323
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1323
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1323
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1323
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1323
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1323
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1323
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1323
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1323
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1323
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1323
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1323
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1323
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1323
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1323
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1323
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1323
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1323
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1323
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1323
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1323
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1323
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1323
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1323

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63730-001

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1323
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1323
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1323
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1323
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1323
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1323
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1323
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1323
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1323
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1323
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1323
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1323
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1323
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1323
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		70	41-144				
2-Fluorobiphenyl		88	37-129				
2-Fluorophenol		87	24-127				
Nitrobenzene-d5		87	38-127				
Phenol-d5		91	28-128				
Terphenyl-d14		94	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63730-002

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	79	46-125	01/05/2015 1248
2,4,6-Trichlorophenol	20	16		1	80	36-123	01/05/2015 1248
2,4-Dichlorophenol	20	16		1	82	38-127	01/05/2015 1248
2,4-Dimethylphenol	20	21		1	106	36-110	01/05/2015 1248
2,4-Dinitrophenol	100	77		1	77	33-143	01/05/2015 1248
2,4-Dinitrotoluene	40	34		1	86	55-137	01/05/2015 1248
2,6-Dinitrotoluene	40	34		1	85	53-128	01/05/2015 1248
2-Chloronaphthalene	20	14		1	70	42-132	01/05/2015 1248
2-Chlorophenol	20	16		1	81	40-128	01/05/2015 1248
2-Methylnaphthalene	20	17		1	83	40-132	01/05/2015 1248
2-Methylphenol	20	16		1	80	33-122	01/05/2015 1248
2-Nitroaniline	40	34		1	85	48-126	01/05/2015 1248
2-Nitrophenol	40	32		1	80	44-131	01/05/2015 1248
3 & 4-Methylphenol	40	33		1	81	48-112	01/05/2015 1248
3-Nitroaniline	40	27		1	66	29-109	01/05/2015 1248
4,6-Dinitro-2-methylphenol	100	81		1	81	46-151	01/05/2015 1248
4-Bromophenyl phenyl ether	20	15		1	76	49-123	01/05/2015 1248
4-Chloro-3-methyl phenol	20	16		1	82	48-136	01/05/2015 1248
4-Chloroaniline	20	8.9		1	45	18-73	01/05/2015 1248
4-Chlorophenyl phenyl ether	20	16		1	79	34-124	01/05/2015 1248
4-Nitroaniline	40	34		1	85	42-154	01/05/2015 1248
4-Nitrophenol	100	77		1	77	43-145	01/05/2015 1248
Acenaphthene	20	16		1	81	51-130	01/05/2015 1248
Acenaphthylene	20	20		1	102	46-131	01/05/2015 1248
Anthracene	20	17		1	85	48-122	01/05/2015 1248
Benzo(a)anthracene	20	15		1	77	50-143	01/05/2015 1248
Benzo(a)pyrene	20	14		1	71	55-141	01/05/2015 1248
Benzo(b)fluoranthene	20	16		1	82	48-147	01/05/2015 1248
Benzo(g,h,i)perylene	20	13		1	63	48-139	01/05/2015 1248
Benzo(k)fluoranthene	20	16		1	79	48-148	01/05/2015 1248
bis(2-Chloroethoxy)methane	20	16		1	78	46-130	01/05/2015 1248
bis(2-Chloroisopropyl)ether	20	15		1	77	36-133	01/05/2015 1248
bis(2-Ethylhexyl)phthalate	20	11		1	57	40-141	01/05/2015 1248
Butyl benzyl phthalate	20	16		1	82	52-142	01/05/2015 1248
Carbazole	20	17		1	87	45-101	01/05/2015 1248
Chrysene	20	16		1	80	51-137	01/05/2015 1248
Di-n-butyl phthalate	20	16		1	81	50-134	01/05/2015 1248
Di-n-octylphthalate	20	11		1	55	50-136	01/05/2015 1248
Dibenzo(a,h)anthracene	20	13		1	64	48-139	01/05/2015 1248
Dibenzofuran	20	16		1	80	45-142	01/05/2015 1248
Diethylphthalate	20	17		1	83	48-124	01/05/2015 1248
Dimethyl phthalate	20	17		1	83	43-122	01/05/2015 1248
Fluoranthene	20	16		1	82	50-124	01/05/2015 1248
Fluorene	20	17		1	83	39-122	01/05/2015 1248

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63730-002

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	17		1	87	46-125	01/05/2015 1248
Hexachlorobutadiene	20	15		1	74	38-121	01/05/2015 1248
Hexachlorocyclopentadiene	100	47		1	47	24-110	01/05/2015 1248
Hexachloroethane	20	15		1	73	32-109	01/05/2015 1248
Indeno(1,2,3-c,d)pyrene	20	13		1	63	49-146	01/05/2015 1248
Isophorone	20	16		1	79	43-118	01/05/2015 1248
N-Nitrosodi-n-propylamine	20	15		1	76	46-135	01/05/2015 1248
N-Nitrosodiphenylamine (Diphenylamine)	20	19		1	93	44-124	01/05/2015 1248
Naphthalene	20	16		1	78	45-118	01/05/2015 1248
Nitrobenzene	20	15		1	74	46-131	01/05/2015 1248
Pentachlorophenol	100	63		1	63	30-137	01/05/2015 1248
Phenanthrene	20	16		1	81	49-122	01/05/2015 1248
Phenol	20	15		1	75	35-118	01/05/2015 1248
Pyrene	20	16		1	78	50-130	01/05/2015 1248
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		85	41-144				
2-Fluorobiphenyl		82	37-129				
2-Fluorophenol		75	24-127				
Nitrobenzene-d5		79	38-127				
Phenol-d5		79	28-128				
Terphenyl-d14		86	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	20	17		1	83	10-133	12/31/2014 1626
Acenaphthylene	ND	20	18		1	91	34-128	12/31/2014 1626
Anthracene	ND	20	15		1	73	48-122	12/31/2014 1626
Benzo(a)anthracene	ND	20	9.2	N	1	46	53-98	12/31/2014 1626
Benzo(a)pyrene	ND	20	11		1	57	11-160	12/31/2014 1626
Benzo(b)fluoranthene	ND	20	16		1	82	10-165	12/31/2014 1626
Benzo(g,h,i)perylene	ND	20	5.9	N	1	29	42-111	12/31/2014 1626
Benzo(k)fluoranthene	ND	20	15		1	75	13-175	12/31/2014 1626
4-Bromophenyl phenyl ether	ND	20	15		1	73	49-123	12/31/2014 1626
Butyl benzyl phthalate	ND	20	11		1	53	52-142	12/31/2014 1626
Carbazole	ND	20	1.8	N	1	9.0	45-101	12/31/2014 1626
4-Chloro-3-methyl phenol	ND	20	15		1	77	40-98	12/31/2014 1626
4-Chloroaniline	ND	20	6.4		1	32	10-98	12/31/2014 1626
bis(2-Chloroethoxy)methane	ND	20	6.5	N	1	32	43-93	12/31/2014 1626
bis(2-Chloroisopropyl)ether	ND	20	20	N	1	101	36-99	12/31/2014 1626
2-Chloronaphthalene	ND	20	15		1	76	40-89	12/31/2014 1626
2-Chlorophenol	ND	20	16		1	81	33-92	12/31/2014 1626
4-Chlorophenyl phenyl ether	ND	20	16		1	82	34-124	12/31/2014 1626
Chrysene	ND	20	8.7	N	1	43	51-107	12/31/2014 1626
Dibenzo(a,h)anthracene	ND	20	5.7	N	1	29	47-116	12/31/2014 1626
Dibenzofuran	ND	20	17		1	87	45-94	12/31/2014 1626
2,4-Dichlorophenol	ND	20	16		1	82	34-105	12/31/2014 1626
Diethylphthalate	ND	20	18		1	88	48-124	12/31/2014 1626
Dimethyl phthalate	ND	20	19		1	93	43-122	12/31/2014 1626
2,4-Dimethylphenol	ND	20	22	N	1	112	33-77	12/31/2014 1626
Di-n-butyl phthalate	ND	20	15		1	73	50-134	12/31/2014 1626
4,6-Dinitro-2-methylphenol	ND	100	86		1	86	33-118	12/31/2014 1626
2,4-Dinitrophenol	ND	100	88		1	88	19-119	12/31/2014 1626
2,4-Dinitrotoluene	ND	40	37		1	93	50-104	12/31/2014 1626
2,6-Dinitrotoluene	ND	40	37		1	93	53-128	12/31/2014 1626
Di-n-octylphthalate	ND	20	7.2	N	1	36	40-112	12/31/2014 1626
bis(2-Ethylhexyl)phthalate	ND	20	2.9		1	15	10-142	12/31/2014 1626
Fluoranthene	ND	20	15		1	77	50-124	12/31/2014 1626
Fluorene	ND	20	18		1	88	39-122	12/31/2014 1626
Hexachlorobenzene	ND	20	13		1	64	46-125	12/31/2014 1626
Hexachlorobutadiene	ND	20	14		1	68	42-94	12/31/2014 1626
Hexachlorocyclopentadiene	ND	100	44		1	44	14-89	12/31/2014 1626
Hexachloroethane	ND	20	18	N	1	89	39-86	12/31/2014 1626
Indeno(1,2,3-c,d)pyrene	ND	20	6.2	N	1	31	43-113	12/31/2014 1626
Isophorone	ND	20	16		1	82	42-84	12/31/2014 1626
2-Methylnaphthalene	ND	20	17		1	84	40-132	12/31/2014 1626
2-Methylphenol	ND	20	16		1	79	33-122	12/31/2014 1626
3 & 4-Methylphenol	ND	40	29		1	73	24-97	12/31/2014 1626
Naphthalene	ND	20	16		1	79	46-89	12/31/2014 1626

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	40	6.6	N	1	17	48-126	12/31/2014 1626
3-Nitroaniline	ND	40	2.9	N	1	7.3	10-110	12/31/2014 1626
4-Nitroaniline	ND	40	1.4	N	1	3.5	41-99	12/31/2014 1626
Nitrobenzene	ND	20	15		1	76	44-91	12/31/2014 1626
2-Nitrophenol	ND	40	33		1	82	34-102	12/31/2014 1626
4-Nitrophenol	ND	100	86		1	86	29-122	12/31/2014 1626
N-Nitrosodi-n-propylamine	ND	20	16		1	79	41-96	12/31/2014 1626
N-Nitrosodiphenylamine (Diphenylamine)	ND	20	1.4	N	1	7.1	10-150	12/31/2014 1626
Pentachlorophenol	ND	100	75		1	75	32-110	12/31/2014 1626
Phenanthrene	ND	20	17		1	84	49-122	12/31/2014 1626
Phenol	ND	20	15		1	75	33-92	12/31/2014 1626
Pyrene	ND	20	13		1	67	50-130	12/31/2014 1626
2,4,5-Trichlorophenol	ND	20	18		1	92	46-125	12/31/2014 1626
2,4,6-Trichlorophenol	ND	20	18		1	92	36-123	12/31/2014 1626

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		90	37-129
2-Fluorophenol		77	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		76	28-128
Terphenyl-d14		40	10-148
2,4,6-Tribromophenol		99	41-144

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	20	18		1	88	5.9	10-133	40	12/31/2014 1649
Acenaphthylene	ND	20	22		1	109	19	34-128	40	12/31/2014 1649
Anthracene	ND	20	16		1	80	8.8	48-122	40	12/31/2014 1649
Benzo(a)anthracene	ND	20	9.7	N	1	49	5.3	53-98	40	12/31/2014 1649
Benzo(a)pyrene	ND	20	6.7	+	1	34	51	11-160	40	12/31/2014 1649
Benzo(b)fluoranthene	ND	20	8.5	+	1	43	63	10-165	40	12/31/2014 1649
Benzo(g,h,i)perylene	ND	20	3.1	N,+	1	15	62	42-111	40	12/31/2014 1649
Benzo(k)fluoranthene	ND	20	7.9	+	1	40	62	13-175	40	12/31/2014 1649
4-Bromophenyl phenyl ether	ND	20	15		1	74	0.75	49-123	40	12/31/2014 1649
Butyl benzyl phthalate	ND	20	13		1	63	18	52-142	40	12/31/2014 1649
Carbazole	ND	20	18	+	1	90	160	45-101	40	12/31/2014 1649
4-Chloro-3-methyl phenol	ND	20	17		1	84	8.5	40-98	40	12/31/2014 1649
4-Chloroaniline	ND	20	6.7		1	33	3.8	10-98	40	12/31/2014 1649
bis(2-Chloroethoxy)methane	ND	20	16	+	1	79	83	43-93	40	12/31/2014 1649
bis(2-Chloroisopropyl)ether	ND	20	21	N	1	107	5.8	36-99	40	12/31/2014 1649
2-Chloronaphthalene	ND	20	15		1	76	0.43	40-89	40	12/31/2014 1649
2-Chlorophenol	ND	20	18		1	90	11	33-92	40	12/31/2014 1649
4-Chlorophenyl phenyl ether	ND	20	17		1	83	1.5	34-124	40	12/31/2014 1649
Chrysene	ND	20	9.3	N	1	47	7.7	51-107	40	12/31/2014 1649
Dibenzo(a,h)anthracene	ND	20	3.1	N,+	1	15	60	47-116	40	12/31/2014 1649
Dibenzofuran	ND	20	18		1	89	2.0	45-94	40	12/31/2014 1649
2,4-Dichlorophenol	ND	20	18		1	88	6.1	34-105	40	12/31/2014 1649
Diethylphthalate	ND	20	18		1	90	2.2	48-124	40	12/31/2014 1649
Dimethyl phthalate	ND	20	18		1	92	0.093	43-122	40	12/31/2014 1649
2,4-Dimethylphenol	ND	20	24	N	1	119	5.6	33-77	40	12/31/2014 1649
Di-n-butyl phthalate	ND	20	15		1	74	1.8	50-134	40	12/31/2014 1649
4,6-Dinitro-2-methylphenol	ND	100	90		1	90	3.9	33-118	40	12/31/2014 1649
2,4-Dinitrophenol	ND	100	91		1	91	3.8	19-119	40	12/31/2014 1649
2,4-Dinitrotoluene	ND	40	37		1	93	0.011	50-104	40	12/31/2014 1649
2,6-Dinitrotoluene	ND	40	37		1	93	0.31	53-128	40	12/31/2014 1649
Di-n-octylphthalate	ND	20	3.6	N,+	1	18	67	40-112	40	12/31/2014 1649
bis(2-Ethylhexyl)phthalate	ND	20	3.3		1	16	12	10-142	40	12/31/2014 1649
Fluoranthene	ND	20	16		1	79	3.0	50-124	40	12/31/2014 1649
Fluorene	ND	20	18		1	89	0.56	39-122	40	12/31/2014 1649
Hexachlorobenzene	ND	20	13		1	66	1.9	46-125	40	12/31/2014 1649
Hexachlorobutadiene	ND	20	15		1	76	11	42-94	40	12/31/2014 1649
Hexachlorocyclopentadiene	ND	100	38		1	38	15	14-89	40	12/31/2014 1649
Hexachloroethane	ND	20	20	N	1	99	11	39-86	40	12/31/2014 1649
Indeno(1,2,3-c,d)pyrene	ND	20	3.3	N,+	1	16	62	43-113	40	12/31/2014 1649
Isophorone	ND	20	16		1	81	0.28	42-84	40	12/31/2014 1649
2-Methylnaphthalene	ND	20	18		1	88	5.2	40-132	40	12/31/2014 1649
2-Methylphenol	ND	20	18		1	91	14	33-122	40	12/31/2014 1649
3 & 4-Methylphenol	ND	40	33		1	82	11	24-97	40	12/31/2014 1649
Naphthalene	ND	20	17		1	86	8.0	46-89	40	12/31/2014 1649

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	40	35	+	1	88	140	48-126	40	12/31/2014 1649
3-Nitroaniline	ND	40	0.37	N _i +	1	0.94	160	10-110	40	12/31/2014 1649
4-Nitroaniline	ND	40	2.1	N _i +	1	5.3	41	41-99	40	12/31/2014 1649
Nitrobenzene	ND	20	16		1	78	2.2	44-91	40	12/31/2014 1649
2-Nitrophenol	ND	40	34		1	85	4.5	34-102	40	12/31/2014 1649
4-Nitrophenol	ND	100	91		1	91	6.1	29-122	40	12/31/2014 1649
N-Nitrosodi-n-propylamine	ND	20	15		1	77	1.6	41-96	40	12/31/2014 1649
N-Nitrosodiphenylamine (Diphenylamine)	ND	20	9.5	+	1	47	150	10-150	40	12/31/2014 1649
Pentachlorophenol	ND	100	82		1	82	8.6	32-110	40	12/31/2014 1649
Phenanthrene	ND	20	17		1	87	3.9	49-122	40	12/31/2014 1649
Phenol	ND	20	16		1	82	8.6	33-92	40	12/31/2014 1649
Pyrene	ND	20	14		1	71	5.2	50-130	40	12/31/2014 1649
2,4,5-Trichlorophenol	ND	20	18		1	91	1.1	46-125	40	12/31/2014 1649
2,4,6-Trichlorophenol	ND	20	18		1	92	0.87	36-123	40	12/31/2014 1649
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		92	37-129							
2-Fluorophenol		84	24-127							
Nitrobenzene-d5		91	38-127							
Phenol-d5		85	28-128							
Terphenyl-d14		43	10-148							
2,4,6-Tribromophenol		104	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1237
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1237
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1237
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1237
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1237
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1237
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1237
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1237
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1237
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1237
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1237
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1237
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1237
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1237
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1237
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1237
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1237
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1237
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1237
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1237
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1237
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1237
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1237
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1237
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1237
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1237
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1237
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1237
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1237
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1237
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1237
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		62	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		71	24-127				
Nitrobenzene-d5		70	38-127				
Phenol-d5		72	28-128				
Terphenyl-d14		80	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Batch: 63919

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	12/30/2014 1300
2,4,6-Trichlorophenol	20	17		1	83	36-123	12/30/2014 1300
2,4-Dichlorophenol	20	16		1	82	38-127	12/30/2014 1300
2,4-Dimethylphenol	20	24	N	1	118	36-110	12/30/2014 1300
2,4-Dinitrophenol	100	83		1	83	33-143	12/30/2014 1300
2,4-Dinitrotoluene	40	35		1	87	55-137	12/30/2014 1300
2,6-Dinitrotoluene	40	34		1	86	53-128	12/30/2014 1300
2-Chloronaphthalene	20	14		1	71	42-132	12/30/2014 1300
2-Chlorophenol	20	17		1	83	40-128	12/30/2014 1300
2-Methylnaphthalene	20	17		1	84	40-132	12/30/2014 1300
2-Methylphenol	20	17		1	84	33-122	12/30/2014 1300
2-Nitroaniline	40	34		1	85	48-126	12/30/2014 1300
2-Nitrophenol	40	33		1	81	44-131	12/30/2014 1300
3 & 4-Methylphenol	40	35		1	88	48-112	12/30/2014 1300
3-Nitroaniline	40	29		1	73	29-109	12/30/2014 1300
4,6-Dinitro-2-methylphenol	100	88		1	88	46-151	12/30/2014 1300
4-Bromophenyl phenyl ether	20	15		1	76	49-123	12/30/2014 1300
4-Chloro-3-methyl phenol	20	17		1	86	48-136	12/30/2014 1300
4-Chloroaniline	20	18	N	1	89	18-73	12/30/2014 1300
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	12/30/2014 1300
4-Nitroaniline	40	37		1	91	42-154	12/30/2014 1300
4-Nitrophenol	100	87		1	87	43-145	12/30/2014 1300
Acenaphthene	20	17		1	84	51-130	12/30/2014 1300
Acenaphthylene	20	20		1	102	46-131	12/30/2014 1300
Anthracene	20	17		1	87	48-122	12/30/2014 1300
Benzo(a)anthracene	20	16		1	80	50-143	12/30/2014 1300
Benzo(a)pyrene	20	16		1	80	55-141	12/30/2014 1300
Benzo(b)fluoranthene	20	17		1	85	48-147	12/30/2014 1300
Benzo(g,h,i)perylene	20	16		1	80	48-139	12/30/2014 1300
Benzo(k)fluoranthene	20	18		1	90	48-148	12/30/2014 1300
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	12/30/2014 1300
bis(2-Chloroisopropyl)ether	20	17		1	85	36-133	12/30/2014 1300
bis(2-Ethylhexyl)phthalate	20	15		1	73	40-141	12/30/2014 1300
Butyl benzyl phthalate	20	17		1	86	52-142	12/30/2014 1300
Carbazole	20	18		1	89	45-101	12/30/2014 1300
Chrysene	20	17		1	83	51-137	12/30/2014 1300
Di-n-butyl phthalate	20	16		1	81	50-134	12/30/2014 1300
Di-n-octylphthalate	20	14		1	72	50-136	12/30/2014 1300
Dibenzo(a,h)anthracene	20	16		1	80	48-139	12/30/2014 1300
Dibenzofuran	20	16		1	82	45-142	12/30/2014 1300
Diethylphthalate	20	17		1	87	48-124	12/30/2014 1300
Dimethyl phthalate	20	17		1	85	43-122	12/30/2014 1300
Fluoranthene	20	16		1	82	50-124	12/30/2014 1300
Fluorene	20	18		1	88	39-122	12/30/2014 1300

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	18		1	91	46-125	12/30/2014 1300
Hexachlorobutadiene	20	15		1	76	38-121	12/30/2014 1300
Hexachlorocyclopentadiene	100	59		1	59	24-110	12/30/2014 1300
Hexachloroethane	20	15		1	77	32-109	12/30/2014 1300
Indeno(1,2,3-c,d)pyrene	20	16		1	78	49-146	12/30/2014 1300
Isophorone	20	17		1	86	43-118	12/30/2014 1300
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	12/30/2014 1300
N-Nitrosodiphenylamine (Diphenylamine)	20	20		1	98	44-124	12/30/2014 1300
Naphthalene	20	16		1	81	45-118	12/30/2014 1300
Nitrobenzene	20	16		1	81	46-131	12/30/2014 1300
Pentachlorophenol	100	71		1	71	30-137	12/30/2014 1300
Phenanthrene	20	17		1	83	49-122	12/30/2014 1300
Phenol	20	16		1	82	35-118	12/30/2014 1300
Pyrene	20	16		1	79	50-130	12/30/2014 1300
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		84	41-144				
2-Fluorobiphenyl		80	37-129				
2-Fluorophenol		74	24-127				
Nitrobenzene-d5		83	38-127				
Phenol-d5		80	28-128				
Terphenyl-d14		88	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-016MS

Batch: 63919

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	40	37		1	91	10-133	12/30/2014 1650
Acenaphthylene	ND	40	42		1	104	34-128	12/30/2014 1650
Anthracene	ND	40	36		1	90	48-122	12/30/2014 1650
Benzo(a)anthracene	ND	40	36		1	90	53-98	12/30/2014 1650
Benzo(a)pyrene	ND	40	35		1	88	11-160	12/30/2014 1650
Benzo(b)fluoranthene	ND	40	41		1	103	10-165	12/30/2014 1650
Benzo(g,h,i)perylene	ND	40	39		1	99	42-111	12/30/2014 1650
Benzo(k)fluoranthene	ND	40	40		1	99	13-175	12/30/2014 1650
4-Bromophenyl phenyl ether	ND	40	32		1	81	49-123	12/30/2014 1650
Butyl benzyl phthalate	ND	40	40		1	101	52-142	12/30/2014 1650
Carbazole	ND	40	39		1	97	45-101	12/30/2014 1650
4-Chloro-3-methyl phenol	ND	40	35		1	89	40-98	12/30/2014 1650
4-Chloroaniline	ND	40	9.4		1	23	10-98	12/30/2014 1650
bis(2-Chloroethoxy)methane	ND	40	34		1	86	43-93	12/30/2014 1650
bis(2-Chloroisopropyl)ether	ND	40	35		1	87	36-99	12/30/2014 1650
2-Chloronaphthalene	ND	40	30		1	74	40-89	12/30/2014 1650
2-Chlorophenol	ND	40	35		1	88	33-92	12/30/2014 1650
4-Chlorophenyl phenyl ether	ND	40	35		1	86	34-124	12/30/2014 1650
Chrysene	ND	40	37		1	91	51-107	12/30/2014 1650
Dibenzo(a,h)anthracene	ND	40	42		1	104	47-116	12/30/2014 1650
Dibenzofuran	ND	40	34		1	86	45-94	12/30/2014 1650
2,4-Dichlorophenol	ND	40	35		1	89	34-105	12/30/2014 1650
Diethylphthalate	ND	40	37		1	92	48-124	12/30/2014 1650
Dimethyl phthalate	ND	40	36		1	89	43-122	12/30/2014 1650
2,4-Dimethylphenol	ND	40	51	N	1	128	33-77	12/30/2014 1650
Di-n-butyl phthalate	ND	40	37		1	93	50-134	12/30/2014 1650
4,6-Dinitro-2-methylphenol	ND	200	170		1	87	33-118	12/30/2014 1650
2,4-Dinitrophenol	ND	200	170		1	86	19-119	12/30/2014 1650
2,4-Dinitrotoluene	ND	80	78		1	97	50-104	12/30/2014 1650
2,6-Dinitrotoluene	ND	80	73		1	91	53-128	12/30/2014 1650
Di-n-octylphthalate	ND	40	39		1	97	40-112	12/30/2014 1650
bis(2-Ethylhexyl)phthalate	ND	40	39		1	99	10-142	12/30/2014 1650
Fluoranthene	ND	40	36		1	90	50-124	12/30/2014 1650
Fluorene	ND	40	35		1	88	39-122	12/30/2014 1650
Hexachlorobenzene	ND	40	34		1	85	46-125	12/30/2014 1650
Hexachlorobutadiene	ND	40	33		1	83	42-94	12/30/2014 1650
Hexachlorocyclopentadiene	ND	200	94		1	47	14-89	12/30/2014 1650
Hexachloroethane	ND	40	33		1	81	39-86	12/30/2014 1650
Indeno(1,2,3-c,d)pyrene	ND	40	40		1	100	43-113	12/30/2014 1650
Isophorone	ND	40	37	N	1	93	42-84	12/30/2014 1650
2-Methylnaphthalene	ND	40	36		1	90	40-132	12/30/2014 1650
2-Methylphenol	ND	40	40		1	99	33-122	12/30/2014 1650
3 & 4-Methylphenol	ND	80	74		1	92	24-97	12/30/2014 1650
Naphthalene	ND	40	34		1	84	46-89	12/30/2014 1650

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-016MS

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	80	68		1	85	48-126	12/30/2014 1650
3-Nitroaniline	ND	80	44		1	55	10-110	12/30/2014 1650
4-Nitroaniline	ND	80	69		1	87	41-99	12/30/2014 1650
Nitrobenzene	ND	40	37	N	1	92	44-91	12/30/2014 1650
2-Nitrophenol	ND	80	70		1	87	34-102	12/30/2014 1650
4-Nitrophenol	ND	200	190		1	94	29-122	12/30/2014 1650
N-Nitrosodi-n-propylamine	ND	40	38		1	96	41-96	12/30/2014 1650
N-Nitrosodiphenylamine (Diphenylamine)	ND	40	37		1	92	10-150	12/30/2014 1650
Pentachlorophenol	ND	200	160		1	82	32-110	12/30/2014 1650
Phenanthrene	ND	40	35		1	88	49-122	12/30/2014 1650
Phenol	ND	40	34		1	85	33-92	12/30/2014 1650
Pyrene	ND	40	34		1	85	50-130	12/30/2014 1650
2,4,5-Trichlorophenol	ND	40	35		1	86	46-125	12/30/2014 1650
2,4,6-Trichlorophenol	ND	40	33		1	84	36-123	12/30/2014 1650
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		86	37-129					
2-Fluorophenol		84	24-127					
Nitrobenzene-d5		82	38-127					
Phenol-d5		86	28-128					
Terphenyl-d14		95	10-148					
2,4,6-Tribromophenol		79	41-144					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-016MD

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	40	29		1	72	23	10-133	40	12/30/2014 1714
Acenaphthylene	ND	40	33		1	83	22	34-128	40	12/30/2014 1714
Anthracene	ND	40	28		1	70	25	48-122	40	12/30/2014 1714
Benzo(a)anthracene	ND	40	27		1	68	27	53-98	40	12/30/2014 1714
Benzo(a)pyrene	ND	40	25		1	63	33	11-160	40	12/30/2014 1714
Benzo(b)fluoranthene	ND	40	30		1	76	30	10-165	40	12/30/2014 1714
Benzo(g,h,i)perylene	ND	40	27		1	68	37	42-111	40	12/30/2014 1714
Benzo(k)fluoranthene	ND	40	29		1	72	32	13-175	40	12/30/2014 1714
4-Bromophenyl phenyl ether	ND	40	25		1	63	25	49-123	40	12/30/2014 1714
Butyl benzyl phthalate	ND	40	31		1	77	28	52-142	40	12/30/2014 1714
Carbazole	ND	40	30		1	75	25	45-101	40	12/30/2014 1714
4-Chloro-3-methyl phenol	ND	40	28		1	70	24	40-98	40	12/30/2014 1714
4-Chloroaniline	ND	40	11		1	27	15	10-98	40	12/30/2014 1714
bis(2-Chloroethoxy)methane	ND	40	27		1	68	23	43-93	40	12/30/2014 1714
bis(2-Chloroisopropyl)ether	ND	40	27		1	68	24	36-99	40	12/30/2014 1714
2-Chloronaphthalene	ND	40	23		1	58	24	40-89	40	12/30/2014 1714
2-Chlorophenol	ND	40	28		1	70	23	33-92	40	12/30/2014 1714
4-Chlorophenyl phenyl ether	ND	40	27		1	68	24	34-124	40	12/30/2014 1714
Chrysene	ND	40	27		1	69	28	51-107	40	12/30/2014 1714
Dibenzo(a,h)anthracene	ND	40	29		1	72	37	47-116	40	12/30/2014 1714
Dibenzofuran	ND	40	27		1	68	23	45-94	40	12/30/2014 1714
2,4-Dichlorophenol	ND	40	28		1	70	23	34-105	40	12/30/2014 1714
Diethylphthalate	ND	40	28		1	71	26	48-124	40	12/30/2014 1714
Dimethyl phthalate	ND	40	28		1	70	24	43-122	40	12/30/2014 1714
2,4-Dimethylphenol	ND	40	40	N	1	99	25	33-77	40	12/30/2014 1714
Di-n-butyl phthalate	ND	40	29		1	72	25	50-134	40	12/30/2014 1714
4,6-Dinitro-2-methylphenol	ND	200	140		1	69	24	33-118	40	12/30/2014 1714
2,4-Dinitrophenol	ND	200	140		1	69	22	19-119	40	12/30/2014 1714
2,4-Dinitrotoluene	ND	80	60		1	76	25	50-104	40	12/30/2014 1714
2,6-Dinitrotoluene	ND	80	57		1	71	24	53-128	40	12/30/2014 1714
Di-n-octylphthalate	ND	40	27		1	68	36	40-112	40	12/30/2014 1714
bis(2-Ethylhexyl)phthalate	ND	40	28		1	69	36	10-142	40	12/30/2014 1714
Fluoranthene	ND	40	28		1	69	26	50-124	40	12/30/2014 1714
Fluorene	ND	40	27		1	69	24	39-122	40	12/30/2014 1714
Hexachlorobenzene	ND	40	27		1	67	24	46-125	40	12/30/2014 1714
Hexachlorobutadiene	ND	40	27		1	66	23	42-94	40	12/30/2014 1714
Hexachlorocyclopentadiene	ND	200	77		1	39	19	14-89	40	12/30/2014 1714
Hexachloroethane	ND	40	26		1	66	21	39-86	40	12/30/2014 1714
Indeno(1,2,3-c,d)pyrene	ND	40	28		1	69	37	43-113	40	12/30/2014 1714
Isophorone	ND	40	30		1	75	22	42-84	40	12/30/2014 1714
2-Methylnaphthalene	ND	40	29		1	72	22	40-132	40	12/30/2014 1714
2-Methylphenol	ND	40	31		1	78	23	33-122	40	12/30/2014 1714
3 & 4-Methylphenol	ND	80	58		1	73	23	24-97	40	12/30/2014 1714
Naphthalene	ND	40	27		1	67	22	46-89	40	12/30/2014 1714

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-016MD

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	80	54		1	68	23	48-126	40	12/30/2014 1714
3-Nitroaniline	ND	80	38		1	47	16	10-110	40	12/30/2014 1714
4-Nitroaniline	ND	80	57		1	71	20	41-99	40	12/30/2014 1714
Nitrobenzene	ND	40	29		1	72	25	44-91	40	12/30/2014 1714
2-Nitrophenol	ND	80	56		1	70	22	34-102	40	12/30/2014 1714
4-Nitrophenol	ND	200	140		1	69	30	29-122	40	12/30/2014 1714
N-Nitrosodi-n-propylamine	ND	40	30		1	76	23	41-96	40	12/30/2014 1714
N-Nitrosodiphenylamine (Diphenylamine)	ND	40	31		1	76	18	10-150	40	12/30/2014 1714
Pentachlorophenol	ND	200	120		1	62	27	32-110	40	12/30/2014 1714
Phenanthrene	ND	40	27		1	69	24	49-122	40	12/30/2014 1714
Phenol	ND	40	27		1	68	23	33-92	40	12/30/2014 1714
Pyrene	ND	40	26		1	66	26	50-130	40	12/30/2014 1714
2,4,5-Trichlorophenol	ND	40	27		1	68	24	46-125	40	12/30/2014 1714
2,4,6-Trichlorophenol	ND	40	26		1	66	23	36-123	40	12/30/2014 1714
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	37-129							
2-Fluorophenol		67	24-127							
Nitrobenzene-d5		66	38-127							
Phenol-d5		69	28-128							
Terphenyl-d14		72	10-148							
2,4,6-Tribromophenol		61	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,1'-Biphenyl	ND		1	33	10	ug/kg	12/30/2014 1150
2,4,5-Trichlorophenol	ND		1	33	9.3	ug/kg	12/30/2014 1150
2,4,6-Trichlorophenol	ND		1	33	9.8	ug/kg	12/30/2014 1150
2,4-Dichlorophenol	ND		1	33	10	ug/kg	12/30/2014 1150
2,4-Dimethylphenol	ND		1	33	12	ug/kg	12/30/2014 1150
2,4-Dinitrophenol	ND		1	170	110	ug/kg	12/30/2014 1150
2,4-Dinitrotoluene	ND		1	67	18	ug/kg	12/30/2014 1150
2,6-Dinitrotoluene	ND		1	67	17	ug/kg	12/30/2014 1150
2-Chloronaphthalene	ND		1	33	11	ug/kg	12/30/2014 1150
2-Chlorophenol	ND		1	33	9.2	ug/kg	12/30/2014 1150
2-Methylnaphthalene	ND		1	33	9.9	ug/kg	12/30/2014 1150
2-Methylphenol	ND		1	33	6.0	ug/kg	12/30/2014 1150
2-Nitroaniline	ND		1	67	23	ug/kg	12/30/2014 1150
2-Nitrophenol	ND		1	67	18	ug/kg	12/30/2014 1150
3 & 4-Methylphenol	ND		1	67	12	ug/kg	12/30/2014 1150
3,3'-Dichlorobenzidine	ND		1	170	36	ug/kg	12/30/2014 1150
3-Nitroaniline	ND		1	67	39	ug/kg	12/30/2014 1150
4,6-Dinitro-2-methylphenol	ND		1	170	130	ug/kg	12/30/2014 1150
4-Bromophenyl phenyl ether	ND		1	33	9.8	ug/kg	12/30/2014 1150
4-Chloro-3-methyl phenol	ND		1	33	8.4	ug/kg	12/30/2014 1150
4-Chloroaniline	ND		1	33	6.8	ug/kg	12/30/2014 1150
4-Chlorophenyl phenyl ether	ND		1	33	11	ug/kg	12/30/2014 1150
4-Nitroaniline	ND		1	67	19	ug/kg	12/30/2014 1150
4-Nitrophenol	ND		1	170	96	ug/kg	12/30/2014 1150
Acenaphthene	ND		1	33	11	ug/kg	12/30/2014 1150
Acenaphthylene	ND		1	33	10	ug/kg	12/30/2014 1150
Acetophenone	ND		1	33	18	ug/kg	12/30/2014 1150
Anthracene	ND		1	33	7.4	ug/kg	12/30/2014 1150
Atrazine	ND		1	33	17	ug/kg	12/30/2014 1150
Benzaldehyde	ND		1	33	17	ug/kg	12/30/2014 1150
Benzo(a)anthracene	ND		1	33	8.8	ug/kg	12/30/2014 1150
Benzo(a)pyrene	ND		1	33	9.3	ug/kg	12/30/2014 1150
Benzo(b)fluoranthene	ND		1	33	9.6	ug/kg	12/30/2014 1150
Benzo(g,h,i)perylene	ND		1	33	12	ug/kg	12/30/2014 1150
Benzo(k)fluoranthene	ND		1	33	9.5	ug/kg	12/30/2014 1150
bis(2-Chloroethoxy)methane	ND		1	33	10	ug/kg	12/30/2014 1150
bis(2-Chloroethyl)ether	ND		1	33	9.2	ug/kg	12/30/2014 1150
bis(2-Chloroisopropyl)ether	ND		1	33	11	ug/kg	12/30/2014 1150
bis(2-Ethylhexyl)phthalate	ND		1	33	12	ug/kg	12/30/2014 1150
Butyl benzyl phthalate	ND		1	67	22	ug/kg	12/30/2014 1150
Caprolactam	ND		1	33	17	ug/kg	12/30/2014 1150
Carbazole	ND		1	33	14	ug/kg	12/30/2014 1150
Chrysene	ND		1	33	11	ug/kg	12/30/2014 1150
Di-n-butyl phthalate	ND		1	33	18	ug/kg	12/30/2014 1150

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Di-n-octylphthalate	ND		1	33	32	ug/kg	12/30/2014 1150
Dibenzo(a,h)anthracene	ND		1	33	9.1	ug/kg	12/30/2014 1150
Dibenzofuran	ND		1	33	10	ug/kg	12/30/2014 1150
Diethylphthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Dimethyl phthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Fluoranthene	ND		1	33	11	ug/kg	12/30/2014 1150
Fluorene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Hexachlorobenzene	ND		1	33	15	ug/kg	12/30/2014 1150
Hexachlorobutadiene	ND		1	33	11	ug/kg	12/30/2014 1150
Hexachlorocyclopentadiene	ND		1	170	25	ug/kg	12/30/2014 1150
Hexachloroethane	ND		1	33	8.9	ug/kg	12/30/2014 1150
Indeno(1,2,3-c,d)pyrene	ND		1	33	9.7	ug/kg	12/30/2014 1150
Isophorone	ND		1	33	7.4	ug/kg	12/30/2014 1150
N-Nitrosodi-n-propylamine	ND		1	33	13	ug/kg	12/30/2014 1150
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	33	8.3	ug/kg	12/30/2014 1150
Naphthalene	ND		1	33	10	ug/kg	12/30/2014 1150
Nitrobenzene	ND		1	33	5.4	ug/kg	12/30/2014 1150
Pentachlorophenol	ND		1	170	140	ug/kg	12/30/2014 1150
Phenanthrene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Phenol	ND		1	33	9.1	ug/kg	12/30/2014 1150
Pyrene	ND		1	33	13	ug/kg	12/30/2014 1150

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		42	30-117
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		44	28-104
Nitrobenzene-d5		39	22-109
Phenol-d5		47	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	670	300		1	45	30-130	12/30/2014 1213
2,4,5-Trichlorophenol	670	400		1	60	46-122	12/30/2014 1213
2,4,6-Trichlorophenol	670	380		1	57	38-115	12/30/2014 1213
2,4-Dichlorophenol	670	320		1	48	41-113	12/30/2014 1213
2,4-Dimethylphenol	670	490		1	74	33-123	12/30/2014 1213
2,4-Dinitrophenol	3300	2300		1	70	30-130	12/30/2014 1213
2,4-Dinitrotoluene	1300	1000		1	75	48-124	12/30/2014 1213
2,6-Dinitrotoluene	1300	880		1	66	47-125	12/30/2014 1213
2-Chloronaphthalene	670	280		1	42	31-127	12/30/2014 1213
2-Chlorophenol	670	300		1	45	37-106	12/30/2014 1213
2-Methylnaphthalene	670	300		1	46	40-106	12/30/2014 1213
2-Methylphenol	670	310		1	47	32-107	12/30/2014 1213
2-Nitroaniline	1300	870		1	66	45-128	12/30/2014 1213
2-Nitrophenol	1300	550		1	41	35-108	12/30/2014 1213
3 & 4-Methylphenol	1300	670		1	50	39-108	12/30/2014 1213
3,3'-Dichlorobenzidine	1300	1000		1	76	30-130	12/30/2014 1213
3-Nitroaniline	1300	870		1	65	24-127	12/30/2014 1213
4,6-Dinitro-2-methylphenol	3300	2600		1	78	40-130	12/30/2014 1213
4-Bromophenyl phenyl ether	670	390		1	59	46-118	12/30/2014 1213
4-Chloro-3-methyl phenol	670	410		1	62	49-118	12/30/2014 1213
4-Chloroaniline	670	370		1	55	10-125	12/30/2014 1213
4-Chlorophenyl phenyl ether	670	380		1	57	47-116	12/30/2014 1213
4-Nitroaniline	1300	1100		1	86	48-127	12/30/2014 1213
4-Nitrophenol	3300	2800		1	84	18-154	12/30/2014 1213
Acenaphthene	670	360		1	54	46-114	12/30/2014 1213
Acenaphthylene	670	450		1	68	44-122	12/30/2014 1213
Acetophenone	670	280		1	42	30-130	12/30/2014 1213
Anthracene	670	500		1	76	50-119	12/30/2014 1213
Atrazine	670	450		1	67	30-130	12/30/2014 1213
Benzaldehyde	670	280		1	42	40-117	12/30/2014 1213
Benzo(a)anthracene	670	540		1	80	47-121	12/30/2014 1213
Benzo(a)pyrene	670	590		1	89	55-134	12/30/2014 1213
Benzo(b)fluoranthene	670	570		1	85	28-139	12/30/2014 1213
Benzo(g,h,i)perylene	670	540		1	81	36-125	12/30/2014 1213
Benzo(k)fluoranthene	670	590		1	89	47-130	12/30/2014 1213
bis(2-Chloroethoxy)methane	670	290		1	44	39-108	12/30/2014 1213
bis(2-Chloroethyl)ether	670	280		1	42	32-105	12/30/2014 1213
bis(2-Chloroisopropyl)ether	670	280		1	43	31-102	12/30/2014 1213
bis(2-Ethylhexyl)phthalate	670	570		1	85	45-128	12/30/2014 1213
Butyl benzyl phthalate	670	570		1	86	46-128	12/30/2014 1213
Caprolactam	670	650		1	98	30-130	12/30/2014 1213
Carbazole	670	570		1	86	30-130	12/30/2014 1213
Chrysene	670	550		1	82	45-126	12/30/2014 1213
Di-n-butyl phthalate	670	550		1	82	51-129	12/30/2014 1213

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	670	550		1	82	49-142	12/30/2014 1213
Dibenzo(a,h)anthracene	670	540		1	81	30-130	12/30/2014 1213
Dibenzofuran	670	370		1	56	45-112	12/30/2014 1213
Diethylphthalate	670	500		1	75	49-123	12/30/2014 1213
Dimethyl phthalate	670	460		1	69	48-120	12/30/2014 1213
Fluoranthene	670	540		1	80	50-123	12/30/2014 1213
Fluorene	670	420		1	63	48-117	12/30/2014 1213
Hexachlorobenzene	670	490		1	73	44-122	12/30/2014 1213
Hexachlorobutadiene	670	250		1	37	33-103	12/30/2014 1213
Hexachlorocyclopentadiene	3300	1300		1	39	18-121	12/30/2014 1213
Hexachloroethane	670	240		1	36	30-96	12/30/2014 1213
Indeno(1,2,3-c,d)pyrene	670	530		1	80	45-123	12/30/2014 1213
Isophorone	670	330		1	49	30-130	12/30/2014 1213
N-Nitrosodi-n-propylamine	670	310		1	46	32-115	12/30/2014 1213
N-Nitrosodiphenylamine (Diphenylamine)	670	570		1	86	53-150	12/30/2014 1213
Naphthalene	670	270		1	41	36-110	12/30/2014 1213
Nitrobenzene	670	280		1	42	33-114	12/30/2014 1213
Pentachlorophenol	3300	2200		1	65	27-138	12/30/2014 1213
Phenanthrene	670	470		1	71	49-117	12/30/2014 1213
Phenol	670	320		1	48	36-108	12/30/2014 1213
Pyrene	670	530		1	79	47-119	12/30/2014 1213
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		69	30-117				
2-Fluorobiphenyl		46	33-102				
2-Fluorophenol		42	28-104				
Nitrobenzene-d5		41	22-109				
Phenol-d5		46	27-103				
Terphenyl-d14		85	41-120				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-021MS

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	800	470		1	59	30-130	01/02/2015 1235
Acenaphthylene	ND	800	630		1	79	30-130	01/02/2015 1235
Acetophenone	ND	800	460		1	58	30-130	01/02/2015 1235
Anthracene	ND	800	620		1	77	30-130	01/02/2015 1235
Atrazine	ND	800	500		1	63	30-130	01/02/2015 1235
Benzaldehyde	ND	800	360		1	45	40-117	01/02/2015 1235
Benzo(a)anthracene	13	800	660		1	81	30-130	01/02/2015 1235
Benzo(a)pyrene	11	800	740		1	93	30-130	01/02/2015 1235
Benzo(b)fluoranthene	15	800	730		1	90	30-130	01/02/2015 1235
Benzo(g,h,i)perylene	14	800	670		1	83	30-130	01/02/2015 1235
Benzo(k)fluoranthene	ND	800	710		1	89	30-130	01/02/2015 1235
1,1'-Biphenyl	ND	800	450		1	56	30-130	01/02/2015 1235
4-Bromophenyl phenyl ether	ND	800	490		1	61	30-130	01/02/2015 1235
Butyl benzyl phthalate	ND	800	700		1	87	30-130	01/02/2015 1235
Caprolactam	ND	800	780		1	97	30-130	01/02/2015 1235
Carbazole	ND	800	690		1	86	30-130	01/02/2015 1235
4-Chloro-3-methyl phenol	ND	800	550		1	68	30-130	01/02/2015 1235
4-Chloroaniline	ND	800	160		1	20	10-130	01/02/2015 1235
bis(2-Chloroethoxy)methane	ND	800	470		1	58	30-130	01/02/2015 1235
bis(2-Chloroethyl)ether	ND	800	380		1	48	30-130	01/02/2015 1235
bis(2-Chloroisopropyl)ether	ND	800	410		1	51	30-130	01/02/2015 1235
2-Chloronaphthalene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Chlorophenol	ND	800	500		1	62	30-130	01/02/2015 1235
4-Chlorophenyl phenyl ether	ND	800	490		1	61	30-130	01/02/2015 1235
Chrysene	ND	800	690		1	86	30-130	01/02/2015 1235
Dibenzo(a,h)anthracene	ND	800	660		1	83	30-130	01/02/2015 1235
Dibenzofuran	ND	800	500		1	62	30-130	01/02/2015 1235
3,3'-Dichlorobenzidine	ND	1600	1100		1	67	30-130	01/02/2015 1235
2,4-Dichlorophenol	ND	800	510		1	64	30-130	01/02/2015 1235
Diethylphthalate	ND	800	600		1	75	30-130	01/02/2015 1235
Dimethyl phthalate	ND	800	590		1	74	30-130	01/02/2015 1235
2,4-Dimethylphenol	ND	800	760		1	95	30-130	01/02/2015 1235
Di-n-butyl phthalate	ND	800	680		1	85	30-130	01/02/2015 1235
4,6-Dinitro-2-methylphenol	ND	4000	2900		1	73	30-130	01/02/2015 1235
2,4-Dinitrophenol	ND	4000	2800		1	71	30-130	01/02/2015 1235
2,4-Dinitrotoluene	ND	1600	1200		1	77	30-130	01/02/2015 1235
2,6-Dinitrotoluene	ND	1600	1100		1	71	30-130	01/02/2015 1235
Di-n-octylphthalate	ND	800	650		1	82	30-130	01/02/2015 1235
bis(2-Ethylhexyl)phthalate	ND	800	710		1	88	30-130	01/02/2015 1235
Fluoranthene	15	800	670		1	82	30-130	01/02/2015 1235
Fluorene	ND	800	520		1	65	30-130	01/02/2015 1235
Hexachlorobenzene	ND	800	570		1	71	30-130	01/02/2015 1235
Hexachlorobutadiene	ND	800	380		1	48	30-130	01/02/2015 1235
Hexachlorocyclopentadiene	ND	4000	1100	N	1	27	30-130	01/02/2015 1235

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-021MS

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	ND	800	310		1	38	30-130	01/02/2015 1235
Indeno(1,2,3-c,d)pyrene	ND	800	680		1	84	30-130	01/02/2015 1235
Isophorone	ND	800	460		1	57	30-130	01/02/2015 1235
2-Methylnaphthalene	ND	800	460		1	58	30-130	01/02/2015 1235
2-Methylphenol	ND	800	510		1	64	30-130	01/02/2015 1235
3 & 4-Methylphenol	ND	1600	1000		1	64	30-130	01/02/2015 1235
Naphthalene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Nitroaniline	ND	1600	1200		1	73	30-130	01/02/2015 1235
3-Nitroaniline	ND	1600	820		1	51	30-130	01/02/2015 1235
4-Nitroaniline	ND	1600	1300		1	81	30-130	01/02/2015 1235
Nitrobenzene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Nitrophenol	ND	1600	940		1	59	30-130	01/02/2015 1235
4-Nitrophenol	ND	4000	3200		1	79	30-130	01/02/2015 1235
N-Nitrosodi-n-propylamine	ND	800	420		1	53	30-130	01/02/2015 1235
N-Nitrosodiphenylamine (Diphenylamine)	ND	800	680		1	85	30-130	01/02/2015 1235
Pentachlorophenol	ND	4000	2500		1	62	30-130	01/02/2015 1235
Phenanthrene	ND	800	590		1	73	30-130	01/02/2015 1235
Phenol	12	800	500		1	61	30-130	01/02/2015 1235
Pyrene	ND	800	630		1	79	30-130	01/02/2015 1235
2,4,5-Trichlorophenol	ND	800	530		1	66	30-130	01/02/2015 1235
2,4,6-Trichlorophenol	ND	800	540		1	67	30-130	01/02/2015 1235
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		58	33-102					
2-Fluorophenol		60	28-104					
Nitrobenzene-d5		52	22-109					
Phenol-d5		65	27-103					
Terphenyl-d14		90	41-120					
2,4,6-Tribromophenol		77	30-117					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-021MD

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	820	640		1	78	30	30-130	40	01/02/2015 1258
Acenaphthylene	ND	820	820		1	100	26	30-130	40	01/02/2015 1258
Acetophenone	ND	820	600		1	73	26	30-130	40	01/02/2015 1258
Anthracene	ND	820	770		1	94	22	30-130	40	01/02/2015 1258
Atrazine	ND	820	600		1	73	17	30-130	40	01/02/2015 1258
Benzaldehyde	ND	820	470		1	57	25	40-117	40	01/02/2015 1258
Benzo(a)anthracene	13	820	800		1	96	20	30-130	40	01/02/2015 1258
Benzo(a)pyrene	11	820	910		1	111	20	30-130	40	01/02/2015 1258
Benzo(b)fluoranthene	15	820	890		1	107	19	30-130	40	01/02/2015 1258
Benzo(g,h,i)perylene	14	820	790		1	97	17	30-130	40	01/02/2015 1258
Benzo(k)fluoranthene	ND	820	870		1	107	21	30-130	40	01/02/2015 1258
1,1'-Biphenyl	ND	820	580		1	70	24	30-130	40	01/02/2015 1258
4-Bromophenyl phenyl ether	ND	820	650		1	79	28	30-130	40	01/02/2015 1258
Butyl benzyl phthalate	ND	820	840		1	103	19	30-130	40	01/02/2015 1258
Caprolactam	ND	820	1000		1	121	25	30-130	40	01/02/2015 1258
Carbazole	ND	820	850		1	104	20	30-130	40	01/02/2015 1258
4-Chloro-3-methyl phenol	ND	820	710		1	87	26	30-130	40	01/02/2015 1258
4-Chloroaniline	ND	820	210		1	25	25	10-130	40	01/02/2015 1258
bis(2-Chloroethoxy)methane	ND	820	610		1	74	26	30-130	40	01/02/2015 1258
bis(2-Chloroethyl)ether	ND	820	510		1	63	29	30-130	40	01/02/2015 1258
bis(2-Chloroisopropyl)ether	ND	820	540		1	66	28	30-130	40	01/02/2015 1258
2-Chloronaphthalene	ND	820	520		1	63	22	30-130	40	01/02/2015 1258
2-Chlorophenol	ND	820	660		1	81	29	30-130	40	01/02/2015 1258
4-Chlorophenyl phenyl ether	ND	820	630		1	77	25	30-130	40	01/02/2015 1258
Chrysene	ND	820	840		1	102	20	30-130	40	01/02/2015 1258
Dibenzo(a,h)anthracene	ND	820	800		1	98	19	30-130	40	01/02/2015 1258
Dibenzofuran	ND	820	640		1	78	25	30-130	40	01/02/2015 1258
3,3'-Dichlorobenzidine	ND	1600	1300		1	80	21	30-130	40	01/02/2015 1258
2,4-Dichlorophenol	ND	820	670		1	81	26	30-130	40	01/02/2015 1258
Diethylphthalate	ND	820	760		1	92	23	30-130	40	01/02/2015 1258
Dimethyl phthalate	ND	820	750		1	92	24	30-130	40	01/02/2015 1258
2,4-Dimethylphenol	ND	820	970		1	119	24	30-130	40	01/02/2015 1258
Di-n-butyl phthalate	ND	820	830		1	101	19	30-130	40	01/02/2015 1258
4,6-Dinitro-2-methylphenol	ND	4100	3900		1	94	27	30-130	40	01/02/2015 1258
2,4-Dinitrophenol	ND	4100	3700		1	89	25	30-130	40	01/02/2015 1258
2,4-Dinitrotoluene	ND	1600	1600		1	97	24	30-130	40	01/02/2015 1258
2,6-Dinitrotoluene	ND	1600	1500		1	91	27	30-130	40	01/02/2015 1258
Di-n-octylphthalate	ND	820	800		1	97	20	30-130	40	01/02/2015 1258
bis(2-Ethylhexyl)phthalate	ND	820	860		1	105	19	30-130	40	01/02/2015 1258
Fluoranthene	15	820	820		1	98	19	30-130	40	01/02/2015 1258
Fluorene	ND	820	680		1	82	25	30-130	40	01/02/2015 1258
Hexachlorobenzene	ND	820	740		1	90	26	30-130	40	01/02/2015 1258
Hexachlorobutadiene	ND	820	490		1	60	25	30-130	40	01/02/2015 1258
Hexachlorocyclopentadiene	ND	4100	1700	+	1	41	42	30-130	40	01/02/2015 1258

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-021MD

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	ND	820	420		1	52	32	30-130	40	01/02/2015 1258
Indeno(1,2,3-c,d)pyrene	ND	820	800		1	98	17	30-130	40	01/02/2015 1258
Isophorone	ND	820	610		1	74	27	30-130	40	01/02/2015 1258
2-Methylnaphthalene	ND	820	590		1	71	24	30-130	40	01/02/2015 1258
2-Methylphenol	ND	820	670		1	81	26	30-130	40	01/02/2015 1258
3 & 4-Methylphenol	ND	1600	1300		1	82	28	30-130	40	01/02/2015 1258
Naphthalene	ND	820	540		1	65	26	30-130	40	01/02/2015 1258
2-Nitroaniline	ND	1600	1600		1	95	28	30-130	40	01/02/2015 1258
3-Nitroaniline	ND	1600	930		1	57	13	30-130	40	01/02/2015 1258
4-Nitroaniline	ND	1600	1600		1	97	20	30-130	40	01/02/2015 1258
Nitrobenzene	ND	820	530		1	64	25	30-130	40	01/02/2015 1258
2-Nitrophenol	ND	1600	1200		1	76	28	30-130	40	01/02/2015 1258
4-Nitrophenol	ND	4100	3800		1	93	19	30-130	40	01/02/2015 1258
N-Nitrosodi-n-propylamine	ND	820	560		1	68	27	30-130	40	01/02/2015 1258
N-Nitrosodiphenylamine (Diphenylamine)	ND	820	870		1	106	24	30-130	40	01/02/2015 1258
Pentachlorophenol	ND	4100	3100		1	76	22	30-130	40	01/02/2015 1258
Phenanthrene	ND	820	740		1	90	23	30-130	40	01/02/2015 1258
Phenol	12	820	650		1	78	26	30-130	40	01/02/2015 1258
Pyrene	ND	820	760		1	93	19	30-130	40	01/02/2015 1258
2,4,5-Trichlorophenol	ND	820	710		1	86	29	30-130	40	01/02/2015 1258
2,4,6-Trichlorophenol	ND	820	720		1	88	29	30-130	40	01/02/2015 1258
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	33-102							
2-Fluorophenol		76	28-104							
Nitrobenzene-d5		65	22-109							
Phenol-d5		80	27-103							
Terphenyl-d14		103	41-120							
2,4,6-Tribromophenol		93	30-117							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ63824-001

Matrix: Aqueous

Batch: 63824

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2014 1200

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	12/26/2014 1914
4,4'-DDE	ND		1	0.025	0.011	ug/L	12/26/2014 1914
4,4'-DDT	ND		1	0.025	0.0020	ug/L	12/26/2014 1914
Aldrin	ND		1	0.025	0.0017	ug/L	12/26/2014 1914
alpha-BHC	0.0016	J	1	0.025	0.0010	ug/L	12/26/2014 1914
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	12/26/2014 1914
beta-BHC	ND		1	0.025	0.0039	ug/L	12/26/2014 1914
delta-BHC	0.0011	J	1	0.025	0.0011	ug/L	12/26/2014 1914
Dieldrin	ND		1	0.025	0.0010	ug/L	12/26/2014 1914
Endosulfan I	ND		1	0.025	0.0022	ug/L	12/26/2014 1914
Endosulfan II	ND		1	0.025	0.0015	ug/L	12/26/2014 1914
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	12/26/2014 1914
Endrin	0.0010	J	1	0.025	0.0010	ug/L	12/26/2014 1914
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	12/26/2014 1914
Endrin ketone	ND		1	0.025	0.0012	ug/L	12/26/2014 1914
gamma-BHC (Lindane)	0.0026	J	1	0.025	0.0011	ug/L	12/26/2014 1914
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	12/26/2014 1914
Heptachlor	ND		1	0.025	0.013	ug/L	12/26/2014 1914
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	12/26/2014 1914
Methoxychlor	ND		1	0.10	0.0020	ug/L	12/26/2014 1914
Toxaphene	ND		1	0.25	0.11	ug/L	12/26/2014 1914
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		81	10-122				
Tetrachloro-m-xylene		84	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ63824-002

Matrix: Aqueous

Batch: 63824

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2014 1200

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	95	70-130	12/26/2014 1930
4,4'-DDE	0.50	0.44		1	89	70-130	12/26/2014 1930
4,4'-DDT	0.50	0.54		1	108	70-130	12/26/2014 1930
Aldrin	0.50	0.44		1	88	70-130	12/26/2014 1930
alpha-BHC	0.50	0.44		1	88	70-130	12/26/2014 1930
alpha-Chlordane	0.50	0.45		1	90	70-130	12/26/2014 1930
beta-BHC	0.50	0.43		1	86	70-130	12/26/2014 1930
delta-BHC	0.50	0.46		1	92	70-130	12/26/2014 1930
Dieldrin	0.50	0.46		1	93	70-130	12/26/2014 1930
Endosulfan I	0.50	0.46		1	91	70-130	12/26/2014 1930
Endosulfan II	0.50	0.48		1	96	70-130	12/26/2014 1930
Endosulfan sulfate	0.50	0.44		1	89	70-130	12/26/2014 1930
Endrin	0.50	0.44		1	89	70-130	12/26/2014 1930
Endrin aldehyde	0.50	0.48		1	96	70-130	12/26/2014 1930
Endrin ketone	0.50	0.51		1	103	70-130	12/26/2014 1930
gamma-BHC (Lindane)	0.50	0.55		1	110	70-130	12/26/2014 1930
gamma-Chlordane	0.50	0.45		1	91	70-130	12/26/2014 1930
Heptachlor	0.50	0.41		1	82	70-130	12/26/2014 1930
Heptachlor epoxide	0.50	0.44		1	87	70-130	12/26/2014 1930
Methoxychlor	0.50	0.52		1	104	70-130	12/26/2014 1930
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		79	10-122				
Tetrachloro-m-xylene		83	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: PL18008-019MS

Batch: 63824

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/23/2014 1200

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	1.0	0.85		1	85	70-130	12/26/2014 2113
gamma-BHC (Lindane)	0.0020	1.0	0.84		1	83	70-130	12/26/2014 2113
alpha-BHC	0.0015	1.0	0.74		1	73	70-130	12/26/2014 2113
beta-BHC	ND	1.0	0.79		1	79	70-130	12/26/2014 2113
delta-BHC	0.0015	1.0	0.90		1	90	70-130	12/26/2014 2113
alpha-Chlordane	ND	1.0	0.87		1	87	70-130	12/26/2014 2113
gamma-Chlordane	ND	1.0	0.88		1	88	70-130	12/26/2014 2113
4,4'-DDD	ND	1.0	0.94		1	94	70-130	12/26/2014 2113
4,4'-DDE	ND	1.0	0.86		1	86	70-130	12/26/2014 2113
4,4'-DDT	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Dieldrin	ND	1.0	0.89		1	89	70-130	12/26/2014 2113
Endosulfan I	ND	1.0	0.87		1	87	70-130	12/26/2014 2113
Endosulfan II	ND	1.0	0.94		1	94	70-130	12/26/2014 2113
Endosulfan sulfate	ND	1.0	0.92		1	92	70-130	12/26/2014 2113
Endrin	0.0010	1.0	0.89		1	88	70-130	12/26/2014 2113
Endrin aldehyde	0.0019	1.0	1.1		1	109	70-130	12/26/2014 2113
Endrin ketone	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Heptachlor	ND	1.0	0.75		1	75	70-130	12/26/2014 2113
Heptachlor epoxide	ND	1.0	0.85		1	85	70-130	12/26/2014 2113
Methoxychlor	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Surrogate	Q	% Rec	Acceptance Limit					
Decachlorobiphenyl		79	10-122					
Tetrachloro-m-xylene		71	46-119					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: PL18008-019MD

Batch: 63824

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/23/2014 1200

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	1.0	0.86		1	86	1.0	70-130	30	12/26/2014 2128
gamma-BHC (Lindane)	0.0020	1.0	0.88		1	88	5.2	70-130	30	12/26/2014 2128
alpha-BHC	0.0015	1.0	0.75		1	75	2.0	70-130	30	12/26/2014 2128
beta-BHC	ND	1.0	0.80		1	80	2.3	70-130	30	12/26/2014 2128
delta-BHC	0.0015	1.0	0.92		1	92	2.9	70-130	30	12/26/2014 2128
alpha-Chlordane	ND	1.0	0.90		1	90	2.9	70-130	30	12/26/2014 2128
gamma-Chlordane	ND	1.0	0.90		1	90	2.1	70-130	30	12/26/2014 2128
4,4'-DDD	ND	1.0	0.95		1	95	2.0	70-130	30	12/26/2014 2128
4,4'-DDE	ND	1.0	0.89		1	89	2.8	70-130	30	12/26/2014 2128
4,4'-DDT	ND	1.0	1.1		1	112	1.6	70-130	30	12/26/2014 2128
Dieldrin	ND	1.0	0.92		1	92	3.7	70-130	30	12/26/2014 2128
Endosulfan I	ND	1.0	0.89		1	89	2.5	70-130	30	12/26/2014 2128
Endosulfan II	ND	1.0	0.95		1	95	1.1	70-130	30	12/26/2014 2128
Endosulfan sulfate	ND	1.0	0.93		1	93	1.5	70-130	30	12/26/2014 2128
Endrin	0.0010	1.0	0.90		1	90	1.9	70-130	30	12/26/2014 2128
Endrin aldehyde	0.0019	1.0	1.1		1	109	0.092	70-130	30	12/26/2014 2128
Endrin ketone	ND	1.0	1.1		1	112	2.3	70-130	30	12/26/2014 2128
Heptachlor	ND	1.0	0.77		1	77	1.7	70-130	30	12/26/2014 2128
Heptachlor epoxide	ND	1.0	0.88		1	88	3.0	70-130	30	12/26/2014 2128
Methoxychlor	ND	1.0	1.1		1	112	1.2	70-130	30	12/26/2014 2128
Surrogate	Q	% Rec	Acceptance Limit							
Decachlorobiphenyl		76	10-122							
Tetrachloro-m-xylene		72	46-119							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64120-001

Batch: 64120

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
4,4'-DDE	ND		1	1.7	0.32	ug/kg	01/07/2015 1043
4,4'-DDT	ND		1	1.7	0.070	ug/kg	01/07/2015 1043
Aldrin	ND		1	1.7	0.042	ug/kg	01/07/2015 1043
alpha-BHC	ND		1	1.7	0.045	ug/kg	01/07/2015 1043
alpha-Chlordane	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
beta-BHC	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
delta-BHC	ND		1	1.7	0.021	ug/kg	01/07/2015 1043
Dieldrin	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
Endosulfan I	ND		1	1.7	0.041	ug/kg	01/07/2015 1043
Endosulfan II	ND		1	1.7	0.032	ug/kg	01/07/2015 1043
Endosulfan sulfate	ND		1	1.7	0.037	ug/kg	01/07/2015 1043
Endrin	ND		1	1.7	0.022	ug/kg	01/07/2015 1043
Endrin aldehyde	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Endrin ketone	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
gamma-BHC (Lindane)	ND		1	1.7	0.075	ug/kg	01/07/2015 1043
gamma-Chlordane	ND		1	1.7	0.025	ug/kg	01/07/2015 1043
Heptachlor	ND		1	1.7	0.057	ug/kg	01/07/2015 1043
Heptachlor epoxide	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Methoxychlor	ND		1	6.7	0.067	ug/kg	01/07/2015 1043
Toxaphene	ND		1	83	1.7	ug/kg	01/07/2015 1043
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64120-002

Matrix: Solid

Batch: 64120

Prep Method: 3550C

Analytical Method: 8081B

Prep Date: 12/29/2014 930

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	15		1	91	70-130	01/07/2015 1057
4,4'-DDE	17	15		1	89	70-130	01/07/2015 1057
4,4'-DDT	17	15		1	87	70-130	01/07/2015 1057
Aldrin	17	15		1	87	70-130	01/07/2015 1057
alpha-BHC	17	14		1	80	70-130	01/07/2015 1057
alpha-Chlordane	17	15		1	88	70-130	01/07/2015 1057
beta-BHC	17	13		1	79	70-130	01/07/2015 1057
delta-BHC	17	14		1	82	70-130	01/07/2015 1057
Dieldrin	17	16		1	92	70-130	01/07/2015 1057
Endosulfan I	17	15		1	88	70-130	01/07/2015 1057
Endosulfan II	17	15		1	90	70-130	01/07/2015 1057
Endosulfan sulfate	17	14		1	84	70-130	01/07/2015 1057
Endrin	17	15		1	90	70-130	01/07/2015 1057
Endrin aldehyde	17	14		1	81	70-130	01/07/2015 1057
Endrin ketone	17	15		1	87	70-130	01/07/2015 1057
gamma-BHC (Lindane)	17	14		1	84	70-130	01/07/2015 1057
gamma-Chlordane	17	15		1	86	70-130	01/07/2015 1057
Heptachlor	17	14		1	80	70-130	01/07/2015 1057
Heptachlor epoxide	17	14		1	85	70-130	01/07/2015 1057
Methoxychlor	17	15		1	88	70-130	01/07/2015 1057
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63790-001

Matrix: Solid

Batch: 63790

Prep Method: 3050B

Analytical Method: 6010C

Prep Date: 12/23/2014 901

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.50	0.19	mg/kg	12/26/2014 1645
Barium	ND		1	1.3	0.091	mg/kg	12/26/2014 1645
Cadmium	ND		1	0.10	0.011	mg/kg	12/26/2014 1645
Chromium	ND		1	0.25	0.051	mg/kg	12/26/2014 1645
Lead	ND		1	0.50	0.093	mg/kg	12/26/2014 1645
Selenium	ND		1	0.50	0.17	mg/kg	12/26/2014 1645
Silver	ND		1	0.25	0.042	mg/kg	12/26/2014 1645

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63790-002

Batch: 63790

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 12/23/2014 901

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	230	220		1	96	80-120	12/26/2014 1653
Barium	460	460		1	101	80-120	12/26/2014 1653
Cadmium	46	45		1	99	80-120	12/26/2014 1653
Chromium	230	230		1	101	80-120	12/26/2014 1653
Lead	230	230		1	99	80-120	12/26/2014 1653
Selenium	46	43		1	94	80-120	12/26/2014 1653
Silver	230	230		5	99	80-120	12/26/2014 1708

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63838-001

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.010	0.0040	mg/L	12/30/2014 1127
Barium	ND		1	0.025	0.0075	mg/L	12/30/2014 1127
Cadmium	ND		1	0.0020	0.00060	mg/L	12/30/2014 1127
Chromium	ND		1	0.0050	0.0021	mg/L	12/30/2014 1127
Lead	ND		1	0.010	0.0019	mg/L	12/30/2014 1127
Selenium	ND		1	0.010	0.0026	mg/L	12/30/2014 1127
Silver	ND		1	0.0050	0.00040	mg/L	12/30/2014 1127

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63838-002

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.38		5	96	80-120	12/30/2014 1131
Barium	2.0	2.0		5	99	80-120	12/30/2014 1131
Cadmium	0.40	0.39		5	96	80-120	12/30/2014 1131
Chromium	2.0	1.9		5	94	80-120	12/30/2014 1131
Lead	0.40	0.42		5	105	80-120	12/30/2014 1131
Selenium	0.40	0.39		5	97	80-120	12/30/2014 1131
Silver	0.40	0.40		5	99	80-120	12/30/2014 1131

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.39		5	97	75-125	12/30/2014 1224
Barium	0.040	2.0	2.1		5	101	75-125	12/30/2014 1224
Cadmium	ND	0.40	0.39		5	97	75-125	12/30/2014 1224
Chromium	ND	2.0	1.9		5	97	75-125	12/30/2014 1224
Lead	0.0061	0.40	0.43		5	107	75-125	12/30/2014 1224
Selenium	ND	0.40	0.38		5	94	75-125	12/30/2014 1224
Silver	0.00040	0.40	0.37		5	92	75-125	12/30/2014 1224

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 182 of 202

Level 1 Report v2.1

RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.36		5	90	8.1	75-125	20	12/30/2014 1228
Barium	0.040	2.0	2.0		5	96	5.1	75-125	20	12/30/2014 1228
Cadmium	ND	0.40	0.37		5	92	5.3	75-125	20	12/30/2014 1228
Chromium	ND	2.0	1.8		5	92	5.3	75-125	20	12/30/2014 1228
Lead	0.0061	0.40	0.41		5	102	5.0	75-125	20	12/30/2014 1228
Selenium	ND	0.40	0.39		5	96	2.1	75-125	20	12/30/2014 1228
Silver	0.00040	0.40	0.39		5	97	4.9	75-125	20	12/30/2014 1228

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MB

Sample ID: PQ63838-001

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Arsenic	ND		1	0.010	0.0040	mg/L	12/30/2014 1127
Dissolved Barium	ND		1	0.025	0.0075	mg/L	12/30/2014 1127
Dissolved Cadmium	ND		1	0.0020	0.00060	mg/L	12/30/2014 1127
Dissolved Chromium	ND		1	0.0050	0.0021	mg/L	12/30/2014 1127
Dissolved Lead	ND		1	0.010	0.0019	mg/L	12/30/2014 1127
Dissolved Selenium	ND		1	0.010	0.0026	mg/L	12/30/2014 1127
Dissolved Silver	ND		1	0.0050	0.00040	mg/L	12/30/2014 1127

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ63838-002

Batch: 63838

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	0.40	0.38		5	96	80-120	12/30/2014 1131
Dissolved Barium	2.0	2.0		5	99	80-120	12/30/2014 1131
Dissolved Cadmium	0.40	0.39		5	96	80-120	12/30/2014 1131
Dissolved Chromium	2.0	1.9		5	94	80-120	12/30/2014 1131
Dissolved Lead	0.40	0.42		5	105	80-120	12/30/2014 1131
Dissolved Selenium	0.40	0.39		5	97	80-120	12/30/2014 1131
Dissolved Silver	0.40	0.40		5	99	80-120	12/30/2014 1131

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	ND	0.40	0.38		5	96	75-125	12/30/2014 1240
Dissolved Barium	0.036	2.0	2.1		5	101	75-125	12/30/2014 1240
Dissolved Cadmium	ND	0.40	0.39		5	97	75-125	12/30/2014 1240
Dissolved Chromium	ND	2.0	1.9		5	97	75-125	12/30/2014 1240
Dissolved Lead	0.0041	0.40	0.43		5	106	75-125	12/30/2014 1240
Dissolved Selenium	ND	0.40	0.38		5	96	75-125	12/30/2014 1240
Dissolved Silver	ND	0.40	0.38		5	95	75-125	12/30/2014 1240

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Dissolved Arsenic	ND	0.40	0.41		5	102	6.8	75-125	20	12/30/2014 2049
Dissolved Barium	0.036	2.0	2.2		5	109	7.5	75-125	20	12/30/2014 2049
Dissolved Cadmium	ND	0.40	0.40		5	101	4.0	75-125	20	12/30/2014 2049
Dissolved Chromium	ND	2.0	2.0		5	102	5.4	75-125	20	12/30/2014 2049
Dissolved Lead	0.0041	0.40	0.45		5	110	3.9	75-125	20	12/30/2014 2049
Dissolved Selenium	ND	0.40	0.41		5	104	8.0	75-125	20	12/30/2014 2049
Dissolved Silver	ND	0.40	0.39		5	97	1.8	75-125	20	12/30/2014 2049

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: QQ64841-001

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	1.0	0.26	ug/L	01/09/2015 0207
Barium	0.29	J	1	5.0	0.045	ug/L	01/09/2015 0207
Cadmium	ND		1	0.10	0.059	ug/L	01/09/2015 0207
Chromium	ND		1	5.0	0.35	ug/L	01/09/2015 0207
Lead	ND		1	1.0	0.047	ug/L	01/09/2015 0207
Selenium	ND		1	1.0	0.25	ug/L	01/09/2015 0207
Silver	ND		1	1.0	0.011	ug/L	01/09/2015 1743

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCS

Sample ID: QQ64841-002

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	100		1	101	80-120	01/09/2015 0212
Barium	100	100		1	105	80-120	01/09/2015 0212
Cadmium	100	100		1	101	80-120	01/09/2015 0212
Chromium	100	98		1	98	80-120	01/09/2015 0212
Lead	100	100		1	101	80-120	01/09/2015 0212
Selenium	100	100		1	100	80-120	01/09/2015 0212
Silver	100	110		1	109	80-120	01/09/2015 1748

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64167-001

Batch: 64167

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	0.0092	J	1	0.083	0.0059	mg/kg	12/31/2014 1217

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64167-002

Batch: 64167

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.78	0.83		1	107	80-120	12/31/2014 1219

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 191 of 202

Level 1 Report v2.1

RCRA Metals - MS

Sample ID: PL18008-021MS

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.90	0.85		1	95	80-120	12/31/2014 1231

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 192 of 202

Level 1 Report v2.1

RCRA Metals - MSD

Sample ID: PL18008-021MD

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	1.0	0.99		1	98	15	80-120	20	12/31/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - MB

Sample ID: PQ64180-001

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

CVAA - LCS

Sample ID: PQ64180-002

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64180-001

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64180-002

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 197 of 202
Level 1 Report v2.1

RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.000017	0.0020	0.0019		1	93	85-115	12/29/2014 1808

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.000017	0.0020	0.0018		1	90	3.6	85-115	20	12/29/2014 1810

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 199 of 202

Level 1 Report v2.1

Dissolved RCRA Metals - MB

Sample ID: PQ64180-001

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ64180-002

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	ND	0.0020	0.0019		1	93	85-115	12/29/2014 1814

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 202 of 202
Level 1 Report v2.1



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43229

Client ARCADUS		Report to Contact Scott Bortice		Telephone No. / E-mail Scott.Bortice@cedi-usa.com		Quote No.	
Address 801 Corporate Center Dr. #506		Sampler's Signature <i>[Signature]</i>		Analysis (Attach list if more space is needed)		Page 1 of 3	
City Releigh	State NC	Zip Code 27603	Project Name HAA-01		Barcode 		PL18008
Project No. 10153001.0001-DE001		P.O. No.		Matrix		Remarks / Cooler I.D.	
Sample ID / Description (Containers for each sample may be combined on one line.)		Date		No. of Containers by Preservative Type			
		Time					
HA01HAW02 (12/16/14)		12/16/14		1045		X	
HA01HAW13 (12/16/14)		1347		GX		X	
DZ (12/16/14)		—		GX		X	
HA01HAW14 (12/16/14)		1537		GX		X	
HA01HAW04 (12/16/14)		1006		GX		X	
HA01HAW17 (12/16/14)		1106		GX		X	
HA01HAW11 (12/16/14)		1406		GX		X	
HA01HAW06 (12/16/14)		1452		GX		X	
HA01HAW14D (12/17/14)		12/17/14		1151		X	
DZ (12/16/14)		12/16/14		—		X	
Turn Around Time Required (Prior to approval required for expedited TAT.)		Sample Disposal		Possible Hazard Identification		GC Requirements (Specify)	
Standard ☐ Rush ☐ (Specify)		Return to Client ☐ Dispose of by Lab ☐		Non-Hazard ☐ Rammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐			
1. Relinquished by <i>[Signature]</i>		Date 12/12/14 Time 1800		1. Received by		Date Time	
2. Relinquished by <i>[Signature]</i>		Date Time		2. Received by		Date Time	
3. Relinquished by		Date Time		3. Received by		Date Time	
4. Relinquished by		Date Time		4. Laboratory received by <i>[Signature]</i>		Date Time 12-18-14 0930	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY		No Ice Pack ☐ Yes ☒		Receipt Temp. 34.0 °C	
Fedex		Received on ice (Circle) Yes ☒ No ☐		Document Number: 21161519		Effective Date: 08-01-2014	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43230

[illegible]

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s): PINK-Flood/Client Copy

Document Number: FAD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43231

[illegible]

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Cient Copy

Document Number: FAD-133 Effective Date: 09-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Arcadis

Cooler Inspected by/date: KWP / 12-18-14 Lot #: PL18008

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒	No ☐	1. Were custody seals present on the cooler?
Yes ☒	No ☐	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>2008/3.5/3.4 °C 090/10 0.9 °C 1495/2.2/2.1 °C 1952/1.7/1.6 °C 1395/1.6/1.5 °C</u>		
Method: ☐ Temperature Blank ☒ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: <u>-0.1 °C</u>		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Yes ☐	No ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☒	No ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☒	No ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☒	5a Were samples relinquished by client to commercial courier?
Yes ☒	No ☐	6. Were sample IDs listed on the COC?
Yes ☒	No ☐	7. Were sample IDs listed on all sample containers?
Yes ☒	No ☐	8. Was collection date & time listed on the COC?
Yes ☒	No ☐	9. Was collection date & time listed on all sample containers?
Yes ☒	No ☐	10. Did all container label information (ID, date, time) agree with the COC?
Yes ☒	No ☐	11. Were tests to be performed listed on the COC?
Yes ☒	No ☐	12. Did all samples arrive in the proper containers for each test?
Yes ☒	No ☐	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒	No ☐	14. Was adequate sample volume available?
Yes ☐	No ☒	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☒	No ☐	16. Were any samples containers missing?
Yes ☐	No ☒	17. Were there any excess samples not listed on COC?
Yes ☐	No ☒	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☒	No ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☒	24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) using SR # _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>KWP</u> Verified by: _____ Date: <u>12-18-14</u>		

Comments:

No vials received for PL18008-011

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: Hunter Stewart HAA-01

Project Number: GP08HAFS

Lot Number: PL19009

Date Completed: 01/12/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL19009 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL19009

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batch 63847 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Pesticides

The LCS recovery for endrin was outside method control limits in batch 64159. The associated sample (-001, -002 and -003) were re-extracted and re-analyzed outside the holding time. All runs are reported.

Semivolatile Organic Compounds

The surrogate recovery for samples -002 and -005 was outside the acceptance limit. This sample was diluted due to matrix. The dilution impacted the surrogate recoveries, thus negating their usefulness concerning quality control. The sample results are reported and no corrective action is required.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL19009

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HAO1SW06(121814)	Aqueous	12/18/2014 0831	12/19/2014
002	HAO1SW05(121814)	Aqueous	12/18/2014 0905	12/19/2014
003	HAO1SW04(121814)	Aqueous	12/18/2014 0945	12/19/2014
004	HAO1SD06(121814)	Solid	12/18/2014 0840	12/19/2014
005	HAO1SD05(121814)	Solid	12/18/2014 0900	12/19/2014
006	HAO1SD04(121814)	Solid	12/18/2014 0930	12/19/2014
007	TRIP BLANK	Aqueous	12/18/2014	12/19/2014

(7 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HAO1SW06(121814)	Aqueous	Methoxychlor	8081B	0.070	J	ug/L	12
001	HAO1SW06(121814)	Aqueous	Endrin aldehyde	8081B	0.0042	HJP	ug/L	13
001	HAO1SW06(121814)	Aqueous	Methoxychlor	8081B	0.0060	HJ	ug/L	13
001	HAO1SW06(121814)	Aqueous	Arsenic	6020A	0.77	J	ug/L	14
001	HAO1SW06(121814)	Aqueous	Barium	6020A	24		ug/L	14
001	HAO1SW06(121814)	Aqueous	Chromium	6020A	0.54	J	ug/L	14
001	HAO1SW06(121814)	Aqueous	Lead	6020A	1.5		ug/L	14
001	HAO1SW06(121814)	Aqueous	Selenium	6020A	0.25	J	ug/L	14
002	HAO1SW05(121814)	Aqueous	Endrin aldehyde	8081B	0.0028	HJP	ug/L	22
002	HAO1SW05(121814)	Aqueous	Arsenic	6020A	0.95	J	ug/L	23
002	HAO1SW05(121814)	Aqueous	Barium	6020A	26		ug/L	23
002	HAO1SW05(121814)	Aqueous	Chromium	6020A	0.85	J	ug/L	23
002	HAO1SW05(121814)	Aqueous	Lead	6020A	1.5		ug/L	23
002	HAO1SW05(121814)	Aqueous	Selenium	6020A	0.31	J	ug/L	23
003	HAO1SW04(121814)	Aqueous	Xylenes (total)	8260B	0.36	J	ug/L	26
003	HAO1SW04(121814)	Aqueous	gamma-BHC (Lindane)	8081B	0.0015	J	ug/L	30
003	HAO1SW04(121814)	Aqueous	Methoxychlor	8081B	0.0025	JP	ug/L	30
003	HAO1SW04(121814)	Aqueous	delta-BHC	8081B	0.0023	HJP	ug/L	31
003	HAO1SW04(121814)	Aqueous	Endrin aldehyde	8081B	0.0043	HJP	ug/L	31
003	HAO1SW04(121814)	Aqueous	Arsenic	6020A	0.70	J	ug/L	32
003	HAO1SW04(121814)	Aqueous	Barium	6020A	26		ug/L	32
003	HAO1SW04(121814)	Aqueous	Chromium	6020A	0.49	J	ug/L	32
003	HAO1SW04(121814)	Aqueous	Lead	6020A	0.86	J	ug/L	32
004	HAO1SD06(121814)	Solid	Acetone	8260B	42		ug/kg	35
004	HAO1SD06(121814)	Solid	Acenaphthylene	8270D	700		ug/kg	37
004	HAO1SD06(121814)	Solid	Anthracene	8270D	760		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(a)anthracene	8270D	4800		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(a)pyrene	8270D	5600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(b)fluoranthene	8270D	9600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(g,h,i)perylene	8270D	1600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(k)fluoranthene	8270D	4000		ug/kg	37
004	HAO1SD06(121814)	Solid	Carbazole	8270D	300	J	ug/kg	37
004	HAO1SD06(121814)	Solid	Chrysene	8270D	4900		ug/kg	37
004	HAO1SD06(121814)	Solid	Dibenzofuran	8270D	450	J	ug/kg	37
004	HAO1SD06(121814)	Solid	Fluoranthene	8270D	8200		ug/kg	37
004	HAO1SD06(121814)	Solid	Fluorene	8270D	1000		ug/kg	37
004	HAO1SD06(121814)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	1900		ug/kg	38
004	HAO1SD06(121814)	Solid	Phenanthrene	8270D	1100		ug/kg	38
004	HAO1SD06(121814)	Solid	Pyrene	8270D	5700		ug/kg	38
004	HAO1SD06(121814)	Solid	delta-BHC	8081B	2.4	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	4,4'-DDD	8081B	3.6	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	4,4'-DDT	8081B	6.2	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin	8081B	6.8	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin aldehyde	8081B	6.0	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin ketone	8081B	15	JP	ug/kg	39

Executive Summary (Continued)

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	HAO1SD06(121814)	Solid	Methoxychlor	8081B	11	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Arsenic	6010C	2.9		mg/kg	40
004	HAO1SD06(121814)	Solid	Barium	6010C	18		mg/kg	40
004	HAO1SD06(121814)	Solid	Cadmium	6010C	0.26		mg/kg	40
004	HAO1SD06(121814)	Solid	Chromium	6010C	6.0		mg/kg	40
004	HAO1SD06(121814)	Solid	Lead	6010C	16		mg/kg	40
004	HAO1SD06(121814)	Solid	Mercury	7471B	0.019	J	mg/kg	40
004	HAO1SD06(121814)	Solid	Selenium	6010C	0.54	J	mg/kg	40
005	HAO1SD05(121814)	Solid	Acenaphthene	8270D	1200	J	ug/kg	44
005	HAO1SD05(121814)	Solid	Acenaphthylene	8270D	4400		ug/kg	44
005	HAO1SD05(121814)	Solid	Anthracene	8270D	9700		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(a)anthracene	8270D	39000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(a)pyrene	8270D	35000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(b)fluoranthene	8270D	51000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(g,h,i)perylene	8270D	8700		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(k)fluoranthene	8270D	23000		ug/kg	44
005	HAO1SD05(121814)	Solid	Carbazole	8270D	3800		ug/kg	44
005	HAO1SD05(121814)	Solid	Chrysene	8270D	39000		ug/kg	44
005	HAO1SD05(121814)	Solid	Dibenzofuran	8270D	2000	J	ug/kg	44
005	HAO1SD05(121814)	Solid	Fluoranthene	8270D	94000		ug/kg	44
005	HAO1SD05(121814)	Solid	Fluorene	8270D	4400		ug/kg	44
005	HAO1SD05(121814)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	9600		ug/kg	45
005	HAO1SD05(121814)	Solid	Phenanthrene	8270D	36000		ug/kg	45
005	HAO1SD05(121814)	Solid	Pyrene	8270D	63000		ug/kg	45
005	HAO1SD05(121814)	Solid	alpha-Chlordane	8081B	5.5	J	ug/kg	46
005	HAO1SD05(121814)	Solid	gamma-Chlordane	8081B	3.6	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	4,4'-DDD	8081B	38	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	4,4'-DDT	8081B	13	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Dieldrin	8081B	5.1	J	ug/kg	46
005	HAO1SD05(121814)	Solid	Endosulfan II	8081B	3.9	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endosulfan sulfate	8081B	5.2	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin	8081B	5.9	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin aldehyde	8081B	17	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin ketone	8081B	80		ug/kg	46
005	HAO1SD05(121814)	Solid	Methoxychlor	8081B	110	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Arsenic	6010C	1.0		mg/kg	47
005	HAO1SD05(121814)	Solid	Barium	6010C	16		mg/kg	47
005	HAO1SD05(121814)	Solid	Cadmium	6010C	0.33		mg/kg	47
005	HAO1SD05(121814)	Solid	Chromium	6010C	9.1		mg/kg	47
005	HAO1SD05(121814)	Solid	Lead	6010C	18		mg/kg	47
006	HAO1SD04(121814)	Solid	Isopropylbenzene	8260B	0.87	J	ug/kg	49
006	HAO1SD04(121814)	Solid	Aldrin	8081B	1.5	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	alpha-Chlordane	8081B	1.3	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	gamma-Chlordane	8081B	1.4	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	4,4'-DDD	8081B	11	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	4,4'-DDT	8081B	12	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Dieldrin	8081B	4.1	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endosulfan I	8081B	1.6	JP	ug/kg	53

Executive Summary (Continued)

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	HAO1SD04(121814)	Solid	Endosulfan II	8081B	2.8	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endosulfan sulfate	8081B	29	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin	8081B	14	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin aldehyde	8081B	21	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin ketone	8081B	45	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Methoxychlor	8081B	80	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Arsenic	6010C	0.65	J	mg/kg	54
006	HAO1SD04(121814)	Solid	Barium	6010C	15		mg/kg	54
006	HAO1SD04(121814)	Solid	Cadmium	6010C	0.23		mg/kg	54
006	HAO1SD04(121814)	Solid	Chromium	6010C	3.8		mg/kg	54
006	HAO1SD04(121814)	Solid	Lead	6010C	10		mg/kg	54
006	HAO1SD04(121814)	Solid	Selenium	6010C	0.26	J	mg/kg	54
007	TRIP BLANK	Aqueous	Carbon disulfide	8260B	0.59	J	ug/L	55
007	TRIP BLANK	Aqueous	Toluene	8260B	0.36	J	ug/L	55

(107 detections)

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-001			
Description: HAO1SW06(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0831							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-001			
Description: HAO1SW06(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0831							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1308	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-001
Description: HAO1SW06(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0831	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1846	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1846	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		54	37-129					
2-Fluorophenol		51	24-127					
Nitrobenzene-d5		47	38-127					
Phenol-d5		50	28-128					
Terphenyl-d14		51	10-148					
2,4,6-Tribromophenol		48	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 11 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.					Laboratory ID: PL19009-001				
Description: HAO1SW06(121814)					Matrix: Aqueous				
Date Sampled: 12/18/2014 0831									
Date Received: 12/19/2014									

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1300	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1345	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.25	0.017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.25	0.011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.25	0.010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.25	0.039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.25	0.011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.25	0.013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.25	0.015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.25	0.010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.25	0.11	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.25	0.020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.25	0.010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.25	0.022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.25	0.015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.25	0.011	ug/L	1
Endrin	72-20-8	8081B	ND		0.25	0.010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.25	0.019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.25	0.012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.25	0.13	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.25	0.020	ug/L	1
Methoxychlor	72-43-5	8081B	0.070	J	1.0	0.020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		2.5	1.1	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		61	10-122	H	60	10-122		
Tetrachloro-m-xylene		85	46-119	H	67	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-001			
Description: HAO1SW06(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0831							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1300	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1345	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0042	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	0.0060	HJ	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		61	10-122	H	60	10-122		
Tetrachloro-m-xylene		85	46-119	H	67	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0234	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1810	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.77	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	24		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.54	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.5		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.25	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-001
Description: HAO1SW06(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0831	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1834	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1329	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-002
Description: HAO1SW05(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0905	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and $\geq$ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	50	01/02/2015 1815	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		50	4.5	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		50	8.0	ug/L	1
Anthracene	120-12-7	8270D	ND		50	6.5	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		50	7.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		50	8.0	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		50	10	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		50	12	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		50	6.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		50	6.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		250	85	ug/L	1
Carbazole	86-74-8	8270D	ND		50	13	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		50	11	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		50	6.5	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		50	6.5	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		50	4.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		50	6.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		50	6.5	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		50	5.5	ug/L	1
Chrysene	218-01-9	8270D	ND		50	6.0	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		50	6.5	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		50	8.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		250	41	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		50	7.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		250	85	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		250	85	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		50	16	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		250	85	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		250	74	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		250	13	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		100	23	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		100	20	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		250	85	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		250	85	ug/L	1
Fluoranthene	206-44-0	8270D	ND		50	11	ug/L	1
Fluorene	86-73-7	8270D	ND		50	5.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		50	11	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		50	4.5	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		250	12	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		50	5.5	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		50	12	ug/L	1
Isophorone	78-59-1	8270D	ND		50	4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		50	4.0	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		50	8.5	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		100	29	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	50	01/02/2015 1815	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		50	3.5	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		100	28	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		100	39	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		100	20	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		50	5.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		100	14	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		250	32	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		50	4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		50	19	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		250	27	ug/L	1
Phenanthrene	85-01-8	8270D	ND		50	9.0	ug/L	1
Phenol	108-95-2	8270D	ND		50	5.5	ug/L	1
Pyrene	129-00-0	8270D	ND		50	8.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		50	9.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		50	11	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		65	37-129
2-Fluorophenol		59	24-127
Nitrobenzene-d5		67	38-127
Phenol-d5	N	157	28-128
Terphenyl-d14		49	10-148
2,4,6-Tribromophenol	N	209	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 20 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1315	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1428	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.25	0.017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.25	0.011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.25	0.010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.25	0.039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.25	0.011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.25	0.013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.25	0.015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.25	0.010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.25	0.11	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.25	0.020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.25	0.010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.25	0.022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.25	0.015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.25	0.011	ug/L	1
Endrin	72-20-8	8081B	ND		0.25	0.010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.25	0.019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.25	0.012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.25	0.13	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.25	0.020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		1.0	0.020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		2.5	1.1	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		73	10-122	H	61	10-122		
Tetrachloro-m-xylene		83	46-119	H	65	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1315	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1428	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0028	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		73	10-122	H	61	10-122		
Tetrachloro-m-xylene		83	46-119	H	65	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0240	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1816	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.95	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	26		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.85	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.5		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.31	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 23 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-002
Description: HAO1SW05(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0905	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1836	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-003			
Description: HAO1SW04(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0945							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1351	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.36	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1909	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1909	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		60	37-129					
2-Fluorophenol		57	24-127					
Nitrobenzene-d5		53	38-127					
Phenol-d5		55	28-128					
Terphenyl-d14		51	10-148					
2,4,6-Tribromophenol		55	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 29 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-003			
Description: HAO1SW04(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0945							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/29/2014 1329	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/05/2015 2324	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0015	J	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.0025	JP	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		59	10-122	H	54	10-122		
Tetrachloro-m-xylene		79	46-119	H	60	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-003			
Description: HAO1SW04(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0945							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/29/2014 1329	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/05/2015 2324	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	0.0023	HJP	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0043	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		59	10-122	H	54	10-122		
Tetrachloro-m-xylene		79	46-119	H	60	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0245	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1821	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.70	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	26		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.49	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.86	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 32 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1838	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-004			
Description: HAO1SD06(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0840				% Solids: 53.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.9	0.47	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-004			
Description: HAO1SD06(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0840				% Solids: 53.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1648	DCS		63634	4.94

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	42		38	13	ug/kg	1
Benzene	71-43-2	8260B	ND		9.4	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		9.4	3.2	ug/kg	1
Bromoform	75-25-2	8260B	ND		9.4	1.3	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		9.4	3.4	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		19	4.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		9.4	2.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		9.4	3.4	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		9.4	3.2	ug/kg	1
Chloroethane	75-00-3	8260B	ND		9.4	2.5	ug/kg	1
Chloroform	67-66-3	8260B	ND		9.4	1.6	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		9.4	1.9	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		9.4	1.3	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		9.4	2.8	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		9.4	3.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		9.4	1.6	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		9.4	3.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		9.4	3.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		9.4	3.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		9.4	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		9.4	1.4	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		9.4	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		9.4	3.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		9.4	1.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		9.4	2.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		9.4	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		9.4	1.3	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		9.4	1.5	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		9.4	3.2	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		19	2.5	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		9.4	0.43	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		9.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		9.4	0.75	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		19	2.8	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		9.4	0.77	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		9.4	4.9	ug/kg	1
Styrene	100-42-5	8260B	ND		9.4	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		9.4	0.89	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		9.4	0.94	ug/kg	1
Toluene	108-88-3	8260B	ND		9.4	3.2	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		9.4	1.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		9.4	3.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		9.4	1.6	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		9.4	1.5	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-004
Description: HAO1SD06(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0840	% Solids: 53.7 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1648	DCS		63634	4.94

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		9.4	3.6	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		9.4	2.8	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		9.4	1.6	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		9.4	5.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	53-142
Bromofluorobenzene		94	47-138
Toluene-d8		92	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	01/02/2015 1727	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		610	200	ug/kg	1
Acenaphthylene	208-96-8	8270D	700		610	190	ug/kg	1
Acetophenone	98-86-2	8270D	ND		610	330	ug/kg	1
Anthracene	120-12-7	8270D	760		610	140	ug/kg	1
Atrazine	1912-24-9	8270D	ND		610	310	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		610	310	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	4800		610	160	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	5600		610	170	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	9600		610	180	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	1600		610	210	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	4000		610	180	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		610	180	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		610	180	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		1200	410	ug/kg	1
Caprolactam	105-60-2	8270D	ND		610	310	ug/kg	1
Carbazole	86-74-8	8270D	300	J	610	260	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		610	160	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		610	120	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		610	190	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		610	170	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		610	200	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		610	200	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		610	170	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		610	210	ug/kg	1
Chrysene	218-01-9	8270D	4900		610	200	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		610	170	ug/kg	1
Dibenzofuran	132-64-9	8270D	450	J	610	190	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		3100	670	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		610	190	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		610	200	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		610	200	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		610	230	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		610	320	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		3100	2400	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		3100	2100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1200	340	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1200	320	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		610	590	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		610	220	ug/kg	1
Fluoranthene	206-44-0	8270D	8200		610	190	ug/kg	1
Fluorene	86-73-7	8270D	1000		610	170	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		610	270	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		610	200	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		3100	450	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 37 of 99

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1727	DRB1	12/29/2014 2057	64207		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		610	160	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	1900		610	180	ug/kg	1
Isophorone	78-59-1	8270D	ND		610	140	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		610	180	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		610	110	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		1200	220	ug/kg	1
Naphthalene	91-20-3	8270D	ND		610	190	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1200	420	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1200	710	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1200	350	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		610	99	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1200	340	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		3100	1800	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		610	240	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		610	150	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		3100	2500	ug/kg	1
Phenanthrene	85-01-8	8270D	1100		610	170	ug/kg	1
Phenol	108-95-2	8270D	ND		610	170	ug/kg	1
Pyrene	129-00-0	8270D	5700		610	240	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		610	170	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		610	180	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		69	33-102
2-Fluorophenol		61	28-104
Nitrobenzene-d5		63	22-109
Phenol-d5		74	27-103
Terphenyl-d14		84	41-120
2,4,6-Tribromophenol		86	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 38 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-004			
Description: HAO1SD06(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0840				% Solids: 53.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1126	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		63	1.6	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		63	1.7	ug/kg	1
beta-BHC	319-85-7	8081B	ND		63	1.3	ug/kg	1
delta-BHC	319-86-8	8081B	2.4	JP	63	0.78	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		63	2.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		63	1.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		63	0.93	ug/kg	1
4,4'-DDD	72-54-8	8081B	3.6	JP	63	1.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		63	12	ug/kg	1
4,4'-DDT	50-29-3	8081B	6.2	JP	63	2.6	ug/kg	1
Dieldrin	60-57-1	8081B	ND		63	1.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		63	1.5	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		63	1.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		63	1.4	ug/kg	1
Endrin	72-20-8	8081B	6.8	JP	63	0.81	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	6.0	JP	63	1.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	15	JP	63	1.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		63	2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		63	1.3	ug/kg	1
Methoxychlor	72-43-5	8081B	11	JP	250	2.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		3100	63	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		100	57-110					
Tetrachloro-m-xylene		54	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1250	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1614	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	2.9		0.91	0.34	mg/kg	1
Barium	7440-39-3	6010C	18		2.4	0.16	mg/kg	1
Cadmium	7440-43-9	6010C	0.26		0.18	0.019	mg/kg	1
Chromium	7440-47-3	6010C	6.0		0.45	0.092	mg/kg	1
Lead	7439-92-1	6010C	16		0.91	0.17	mg/kg	1
Mercury	7439-97-6	7471B	0.019	J	0.15	0.011	mg/kg	1
Selenium	7782-49-2	6010C	0.54	J	0.91	0.31	mg/kg	1
Silver	7440-22-4	6010C	ND		0.45	0.076	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 40 of 99

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.5	0.37	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1709	DCS		63634	5.53

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		27	9.0	ug/kg	1
Benzene	71-43-2	8260B	ND		6.7	1.5	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.7	2.3	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.7	0.94	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.7	2.4	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		13	3.2	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.7	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.7	2.4	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.7	2.3	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.7	1.7	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.7	1.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.7	1.3	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.7	0.90	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.7	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.7	2.3	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.7	1.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.7	2.3	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.7	2.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.7	2.3	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.7	2.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.7	0.98	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.7	1.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.7	2.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.7	1.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.7	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.7	1.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.7	0.91	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.7	1.1	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.7	2.3	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		13	1.7	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		6.7	0.31	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.7	1.3	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.7	0.53	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		13	2.0	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.7	0.55	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.7	3.5	ug/kg	1
Styrene	100-42-5	8260B	ND		6.7	1.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.7	0.63	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.7	0.67	ug/kg	1
Toluene	108-88-3	8260B	ND		6.7	2.3	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.7	0.84	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.7	2.3	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.7	1.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.7	1.1	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1709	DCS		63634	5.53

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.7	2.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.7	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.7	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.7	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		93	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	10	01/02/2015 1751	DRB1	12/29/2014 2057	64207		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	1200	J	2400	780	ug/kg	1
Acenaphthylene	208-96-8	8270D	4400		2400	760	ug/kg	1
Acetophenone	98-86-2	8270D	ND		2400	1300	ug/kg	1
Anthracene	120-12-7	8270D	9700		2400	540	ug/kg	1
Atrazine	1912-24-9	8270D	ND		2400	1200	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		2400	1200	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	39000		2400	650	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	35000		2400	680	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	51000		2400	700	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	8700		2400	850	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	23000		2400	700	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		2400	730	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		2400	720	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4900	1600	ug/kg	1
Caprolactam	105-60-2	8270D	ND		2400	1200	ug/kg	1
Carbazole	86-74-8	8270D	3800		2400	1000	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		2400	620	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		2400	500	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		2400	740	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		2400	680	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		2400	810	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		2400	810	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		2400	680	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		2400	840	ug/kg	1
Chrysene	218-01-9	8270D	39000		2400	810	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		2400	670	ug/kg	1
Dibenzofuran	132-64-9	8270D	2000	J	2400	770	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		12000	2700	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		2400	760	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		2400	810	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		2400	810	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		2400	920	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		2400	1300	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		12000	9500	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		12000	8300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		4900	1300	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		4900	1300	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		2400	2300	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		2400	860	ug/kg	1
Fluoranthene	206-44-0	8270D	94000		2400	770	ug/kg	1
Fluorene	86-73-7	8270D	4400		2400	660	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		2400	1100	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		2400	800	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		12000	1800	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 44 of 99

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	10	01/02/2015 1751	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Hexachloroethane	67-72-1	8270D	ND		2400	650	ug/kg	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	9600		2400	710	ug/kg	1	
Isophorone	78-59-1	8270D	ND		2400	540	ug/kg	1	
2-Methylnaphthalene	91-57-6	8270D	ND		2400	730	ug/kg	1	
2-Methylphenol	95-48-7	8270D	ND		2400	440	ug/kg	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		4900	870	ug/kg	1	
Naphthalene	91-20-3	8270D	ND		2400	750	ug/kg	1	
2-Nitroaniline	88-74-4	8270D	ND		4900	1700	ug/kg	1	
3-Nitroaniline	99-09-2	8270D	ND		4900	2800	ug/kg	1	
4-Nitroaniline	100-01-6	8270D	ND		4900	1400	ug/kg	1	
Nitrobenzene	98-95-3	8270D	ND		2400	390	ug/kg	1	
2-Nitrophenol	88-75-5	8270D	ND		4900	1300	ug/kg	1	
4-Nitrophenol	100-02-7	8270D	ND		12000	7100	ug/kg	1	
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		2400	940	ug/kg	1	
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		2400	610	ug/kg	1	
Pentachlorophenol	87-86-5	8270D	ND		12000	10000	ug/kg	1	
Phenanthrene	85-01-8	8270D	36000		2400	660	ug/kg	1	
Phenol	108-95-2	8270D	ND		2400	660	ug/kg	1	
Pyrene	129-00-0	8270D	63000		2400	970	ug/kg	1	
2,4,5-Trichlorophenol	95-95-4	8270D	ND		2400	680	ug/kg	1	
2,4,6-Trichlorophenol	88-06-2	8270D	ND		2400	720	ug/kg	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
2-Fluorobiphenyl		79	33-102						
2-Fluorophenol		62	28-104						
Nitrobenzene-d5		71	22-109						
Phenol-d5		70	27-103						
Terphenyl-d14		93	41-120						
2,4,6-Tribromophenol	N	211	30-117						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 45 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-005
Description: HAO1SD05(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0900	% Solids: 67.7 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1151	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		49	1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		49	1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		49	1.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		49	0.60	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		49	2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	5.5	J	49	0.81	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	3.6	JP	49	0.72	ug/kg	1
4,4'-DDD	72-54-8	8081B	38	JP	49	1.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		49	9.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	13	JP	49	2.0	ug/kg	1
Dieldrin	60-57-1	8081B	5.1	J	49	0.81	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		49	1.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	3.9	JP	49	0.92	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	5.2	JP	49	1.1	ug/kg	1
Endrin	72-20-8	8081B	5.9	JP	49	0.63	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	17	JP	49	1.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	80		49	1.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		49	1.6	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		49	1.0	ug/kg	1
Methoxychlor	72-43-5	8081B	110	JP	190	1.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2400	49	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	181	57-110					
Tetrachloro-m-xylene		63	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1252	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1631	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	1.0		0.71	0.27	mg/kg	1
Barium	7440-39-3	6010C	16		1.8	0.13	mg/kg	1
Cadmium	7440-43-9	6010C	0.33		0.14	0.015	mg/kg	1
Chromium	7440-47-3	6010C	9.1		0.35	0.072	mg/kg	1
Lead	7439-92-1	6010C	18		0.71	0.13	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.11	0.0080	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.71	0.25	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.059	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 47 of 99

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.5	0.37	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-006			
Description: HAO1SD04(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0930				% Solids: 67.9 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/24/2014 1432	DCS		63946	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		25	8.3	ug/kg	1
Benzene	71-43-2	8260B	ND		6.2	1.4	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.2	2.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.2	0.87	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.2	2.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		12	3.0	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.2	1.6	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.2	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.2	2.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.2	1.6	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.2	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.2	1.2	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.2	0.84	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.2	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.2	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.2	1.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.2	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.2	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.2	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.2	2.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.2	0.91	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.2	1.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.2	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.2	0.95	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.2	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.2	1.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.2	0.85	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.2	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.2	2.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		12	1.6	ug/kg	1
Isopropylbenzene	98-82-8	8260B	0.87	J	6.2	0.29	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.2	1.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.2	0.50	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		12	1.9	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.2	0.51	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.2	3.2	ug/kg	1
Styrene	100-42-5	8260B	ND		6.2	1.4	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.2	0.59	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.2	0.62	ug/kg	1
Toluene	108-88-3	8260B	ND		6.2	2.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.2	0.78	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.2	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.2	1.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.2	0.98	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-006			
Description: HAO1SD04(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0930				% Solids: 67.9 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/24/2014 1432	DCS		63946	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.2	2.4	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.2	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.2	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.2	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		88	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-006

Description: HAO1SD04(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0930

% Solids: 67.9 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	12/30/2014 1533	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		49	16	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		49	15	ug/kg	1
Acetophenone	98-86-2	8270D	ND		49	26	ug/kg	1
Anthracene	120-12-7	8270D	ND		49	11	ug/kg	1
Atrazine	1912-24-9	8270D	ND		49	25	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		49	25	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		49	13	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		49	14	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		49	14	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		49	17	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		49	14	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		49	15	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		49	14	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		99	32	ug/kg	1
Caprolactam	105-60-2	8270D	ND		49	25	ug/kg	1
Carbazole	86-74-8	8270D	ND		49	21	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		49	12	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		49	10	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		49	15	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		49	14	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		49	16	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		49	16	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		49	14	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		49	17	ug/kg	1
Chrysene	218-01-9	8270D	ND		49	16	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		49	13	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		49	15	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		250	53	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		49	15	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		49	16	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		49	16	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		49	18	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		49	26	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		250	190	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		250	170	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		99	27	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		99	25	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		49	47	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		49	17	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		49	16	ug/kg	1
Fluorene	86-73-7	8270D	ND		49	13	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		49	22	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		49	16	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		250	36	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-006

Description: HAO1SD04(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0930

% Solids: 67.9 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	12/30/2014 1533	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		49	13	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		49	14	ug/kg	1
Isophorone	78-59-1	8270D	ND		49	11	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		49	15	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		49	8.9	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		99	18	ug/kg	1
Naphthalene	91-20-3	8270D	ND		49	15	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		99	34	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		99	57	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		99	28	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		49	7.9	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		99	27	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		250	140	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		49	19	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		49	12	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		250	200	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		49	13	ug/kg	1
Phenol	108-95-2	8270D	ND		49	13	ug/kg	1
Pyrene	129-00-0	8270D	ND		49	19	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		49	14	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		49	14	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		43	33-102
2-Fluorophenol		46	28-104
Nitrobenzene-d5		40	22-109
Phenol-d5		47	27-103
Terphenyl-d14		55	41-120
2,4,6-Tribromophenol		46	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 52 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1206	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	1.5	JP	48	1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		48	1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		48	1.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		48	0.59	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		48	2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	1.3	JP	48	0.79	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	1.4	JP	48	0.70	ug/kg	1
4,4'-DDD	72-54-8	8081B	11	JP	48	1.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		48	9.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	12	JP	48	2.0	ug/kg	1
Dieldrin	60-57-1	8081B	4.1	JP	48	0.79	ug/kg	1
Endosulfan I	959-98-8	8081B	1.6	JP	48	1.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	2.8	JP	48	0.90	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	29	JP	48	1.0	ug/kg	1
Endrin	72-20-8	8081B	14	JP	48	0.62	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	21	JP	48	1.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	45	JP	48	1.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		48	1.6	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		48	1.0	ug/kg	1
Methoxychlor	72-43-5	8081B	80	JP	190	1.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2300	48	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	257	57-110					
Tetrachloro-m-xylene		62	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1258	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1635	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.65	J	0.71	0.27	mg/kg	1
Barium	7440-39-3	6010C	15		1.8	0.13	mg/kg	1
Cadmium	7440-43-9	6010C	0.23		0.14	0.015	mg/kg	1
Chromium	7440-47-3	6010C	3.8		0.35	0.072	mg/kg	1
Lead	7439-92-1	6010C	10		0.71	0.13	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.12	0.0086	mg/kg	1
Selenium	7782-49-2	6010C	0.26	J	0.71	0.25	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.060	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-007			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/18/2014							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	12/29/2014 1120	DCS		64151		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	0.59	J	1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	0.36	J	1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-007
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/18/2014	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63536-001

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63536-002

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.098		1	98	90-110	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL19009-001MS

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.093		1	93	75-125	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL19009-001MD

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.091		1	91	1.9	75-125	20	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 61 of 99
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL19009-004MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	7.5	ND	N	1	0.00	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL19009-004MD

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	7.5	ND	N	1	0.00	0.00	75-125	20	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL19009-005MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	5.9	2.3	N	1	39	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL19009-006MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	5.9	400	N	50	6740	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 65 of 99
Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/21/2014 1335
Benzene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Bromoform	ND		1	5.0	0.70	ug/kg	12/21/2014 1335
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/21/2014 1335
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Chloroethane	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Chloroform	ND		1	5.0	0.83	ug/kg	12/21/2014 1335
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/21/2014 1335
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/21/2014 1335
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/21/2014 1335
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/21/2014 1335
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/21/2014 1335
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/21/2014 1335
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/21/2014 1335
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
2-Hexanone	2.0	J	1	10	1.3	ug/kg	12/21/2014 1335
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/21/2014 1335
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/21/2014 1335
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/21/2014 1335
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/21/2014 1335
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/21/2014 1335
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/21/2014 1335
Styrene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/21/2014 1335
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/21/2014 1335
Toluene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/21/2014 1335
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/21/2014 1335

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/21/2014 1335
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/21/2014 1335
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/21/2014 1335
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	126	60-140	12/21/2014 1239
Benzene	50	47		1	95	69-123	12/21/2014 1239
Bromodichloromethane	50	47		1	95	69-121	12/21/2014 1239
Bromoform	50	48		1	96	61-119	12/21/2014 1239
Bromomethane (Methyl bromide)	50	53		1	106	10-168	12/21/2014 1239
2-Butanone (MEK)	100	110		1	106	57-148	12/21/2014 1239
Carbon disulfide	50	49		1	97	58-122	12/21/2014 1239
Carbon tetrachloride	50	48		1	95	58-136	12/21/2014 1239
Chlorobenzene	50	46		1	92	59-129	12/21/2014 1239
Chloroethane	50	53		1	106	42-163	12/21/2014 1239
Chloroform	50	49		1	98	71-125	12/21/2014 1239
Chloromethane (Methyl chloride)	50	55		1	109	34-134	12/21/2014 1239
Cyclohexane	50	46		1	91	53-139	12/21/2014 1239
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	55-125	12/21/2014 1239
Dibromochloromethane	50	47		1	94	66-119	12/21/2014 1239
1,2-Dibromoethane (EDB)	50	47		1	93	74-124	12/21/2014 1239
1,4-Dichlorobenzene	50	46		1	92	52-133	12/21/2014 1239
1,2-Dichlorobenzene	50	46		1	92	57-131	12/21/2014 1239
1,3-Dichlorobenzene	50	47		1	93	51-134	12/21/2014 1239
Dichlorodifluoromethane	50	59		1	117	10-157	12/21/2014 1239
1,2-Dichloroethane	50	48		1	96	67-129	12/21/2014 1239
1,1-Dichloroethane	50	49		1	99	71-127	12/21/2014 1239
1,1-Dichloroethene	50	50		1	100	69-138	12/21/2014 1239
trans-1,2-Dichloroethene	50	50		1	100	68-131	12/21/2014 1239
cis-1,2-Dichloroethene	50	50		1	100	70-122	12/21/2014 1239
1,2-Dichloropropane	50	47		1	95	72-124	12/21/2014 1239
trans-1,3-Dichloropropene	50	47		1	94	70-124	12/21/2014 1239
cis-1,3-Dichloropropene	50	47		1	93	70-126	12/21/2014 1239
Ethylbenzene	50	46		1	92	59-128	12/21/2014 1239
2-Hexanone	100	100		1	103	54-137	12/21/2014 1239
Isopropylbenzene	50	46		1	92	50-136	12/21/2014 1239
Methyl acetate	50	56		1	113	59-137	12/21/2014 1239
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	12/21/2014 1239
4-Methyl-2-pentanone	100	100		1	102	60-134	12/21/2014 1239
Methylcyclohexane	50	49		1	98	41-144	12/21/2014 1239
Methylene chloride	50	50		1	99	70-130	12/21/2014 1239
Styrene	50	49		1	99	54-136	12/21/2014 1239
1,1,2,2-Tetrachloroethane	50	47		1	94	69-132	12/21/2014 1239
Tetrachloroethene	50	47		1	94	45-150	12/21/2014 1239
Toluene	50	46		1	92	61-129	12/21/2014 1239
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	49-136	12/21/2014 1239
1,2,4-Trichlorobenzene	50	43		1	87	34-145	12/21/2014 1239
1,1,1-Trichloroethane	50	48		1	96	63-128	12/21/2014 1239
1,1,2-Trichloroethane	50	47		1	94	55-128	12/21/2014 1239

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	94	62-126	12/21/2014 1239
Trichlorofluoromethane	50	52		1	104	45-138	12/21/2014 1239
Vinyl chloride	50	53		1	106	42-132	12/21/2014 1239
Xylenes (total)	100	96		1	96	58-128	12/21/2014 1239
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	47-138				
1,2-Dichloroethane-d4		105	53-142				
Toluene-d8		110	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63946-001

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/24/2014 1106
Benzene	ND		1	5.0	1.1	ug/kg	12/24/2014 1106
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Bromoform	ND		1	5.0	0.70	ug/kg	12/24/2014 1106
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/24/2014 1106
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/24/2014 1106
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/24/2014 1106
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/24/2014 1106
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Chloroethane	ND		1	5.0	1.3	ug/kg	12/24/2014 1106
Chloroform	ND		1	5.0	0.83	ug/kg	12/24/2014 1106
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/24/2014 1106
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/24/2014 1106
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/24/2014 1106
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/24/2014 1106
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/24/2014 1106
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/24/2014 1106
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/24/2014 1106
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/24/2014 1106
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/24/2014 1106
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/24/2014 1106
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
2-Hexanone	1.6	J	1	10	1.3	ug/kg	12/24/2014 1106
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/24/2014 1106
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/24/2014 1106
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/24/2014 1106
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/24/2014 1106
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/24/2014 1106
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/24/2014 1106
Styrene	ND		1	5.0	1.1	ug/kg	12/24/2014 1106
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/24/2014 1106
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/24/2014 1106
Toluene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/24/2014 1106
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/24/2014 1106
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/24/2014 1106

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63946-001

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/24/2014 1106
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/24/2014 1106
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/24/2014 1106
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		92	47-138				
1,2-Dichloroethane-d4		93	53-142				
Toluene-d8		91	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63946-002

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	98		1	98	60-140	12/24/2014 1009
Benzene	50	47		1	94	69-123	12/24/2014 1009
Bromodichloromethane	50	48		1	96	69-121	12/24/2014 1009
Bromoform	50	46		1	92	61-119	12/24/2014 1009
Bromomethane (Methyl bromide)	50	54		1	107	10-168	12/24/2014 1009
2-Butanone (MEK)	100	95		1	95	57-148	12/24/2014 1009
Carbon disulfide	50	49		1	99	58-122	12/24/2014 1009
Carbon tetrachloride	50	48		1	96	58-136	12/24/2014 1009
Chlorobenzene	50	47		1	95	59-129	12/24/2014 1009
Chloroethane	50	52		1	104	42-163	12/24/2014 1009
Chloroform	50	47		1	93	71-125	12/24/2014 1009
Chloromethane (Methyl chloride)	50	53		1	107	34-134	12/24/2014 1009
Cyclohexane	50	51		1	102	53-139	12/24/2014 1009
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	55-125	12/24/2014 1009
Dibromochloromethane	50	48		1	95	66-119	12/24/2014 1009
1,2-Dibromoethane (EDB)	50	46		1	93	74-124	12/24/2014 1009
1,3-Dichlorobenzene	50	48		1	96	51-134	12/24/2014 1009
1,2-Dichlorobenzene	50	47		1	93	57-131	12/24/2014 1009
1,4-Dichlorobenzene	50	46		1	93	52-133	12/24/2014 1009
Dichlorodifluoromethane	50	58		1	117	10-157	12/24/2014 1009
1,1-Dichloroethane	50	47		1	95	71-127	12/24/2014 1009
1,2-Dichloroethane	50	46		1	92	67-129	12/24/2014 1009
1,1-Dichloroethene	50	51		1	101	69-138	12/24/2014 1009
cis-1,2-Dichloroethene	50	48		1	95	70-122	12/24/2014 1009
trans-1,2-Dichloroethene	50	48		1	96	68-131	12/24/2014 1009
1,2-Dichloropropane	50	47		1	94	72-124	12/24/2014 1009
cis-1,3-Dichloropropene	50	48		1	96	70-126	12/24/2014 1009
trans-1,3-Dichloropropene	50	49		1	97	70-124	12/24/2014 1009
Ethylbenzene	50	49		1	99	59-128	12/24/2014 1009
2-Hexanone	100	90		1	90	54-137	12/24/2014 1009
Isopropylbenzene	50	50		1	101	50-136	12/24/2014 1009
Methyl acetate	50	49		1	97	59-137	12/24/2014 1009
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	12/24/2014 1009
4-Methyl-2-pentanone	100	90		1	90	60-134	12/24/2014 1009
Methylcyclohexane	50	50		1	99	41-144	12/24/2014 1009
Methylene chloride	50	47		1	93	70-130	12/24/2014 1009
Styrene	50	49		1	99	54-136	12/24/2014 1009
1,1,2,2-Tetrachloroethane	50	46		1	91	69-132	12/24/2014 1009
Tetrachloroethene	50	49		1	98	45-150	12/24/2014 1009
Toluene	50	48		1	95	61-129	12/24/2014 1009
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	103	49-136	12/24/2014 1009
1,2,4-Trichlorobenzene	50	50		1	100	34-145	12/24/2014 1009
1,1,2-Trichloroethane	50	46		1	93	55-128	12/24/2014 1009
1,1,1-Trichloroethane	50	49		1	98	63-128	12/24/2014 1009

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63946-002

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	95	62-126	12/24/2014 1009
Trichlorofluoromethane	50	52		1	103	45-138	12/24/2014 1009
Vinyl chloride	50	53		1	106	42-132	12/24/2014 1009
Xylenes (total)	100	99		1	99	58-128	12/24/2014 1009
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		90	47-138				
1,2-Dichloroethane-d4		86	53-142				
Toluene-d8		93	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64151-001

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/29/2014 1042
Benzene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Bromoform	ND		1	1.0	0.66	ug/L	12/29/2014 1042
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/29/2014 1042
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/29/2014 1042
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/29/2014 1042
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/29/2014 1042
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/29/2014 1042
Chloroethane	ND		1	2.0	0.47	ug/L	12/29/2014 1042
Chloroform	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/29/2014 1042
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/29/2014 1042
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/29/2014 1042
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/29/2014 1042
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/29/2014 1042
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/29/2014 1042
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/29/2014 1042
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
2-Hexanone	ND		1	10	0.27	ug/L	12/29/2014 1042
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/29/2014 1042
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/29/2014 1042
Methylene chloride	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Styrene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/29/2014 1042
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Toluene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/29/2014 1042
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/29/2014 1042
Trichloroethene	ND		1	1.0	0.18	ug/L	12/29/2014 1042
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/29/2014 1042
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		113	70-130				
1,2-Dichloroethane-d4		105	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64151-002

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	95		1	95	60-140	12/29/2014 0946
Benzene	50	44		1	89	70-130	12/29/2014 0946
Bromodichloromethane	50	45		1	90	70-130	12/29/2014 0946
Bromoform	50	49		1	99	70-130	12/29/2014 0946
Bromomethane (Methyl bromide)	50	52		1	103	60-140	12/29/2014 0946
2-Butanone (MEK)	100	95		1	95	60-140	12/29/2014 0946
Carbon disulfide	50	48		1	95	60-140	12/29/2014 0946
Carbon tetrachloride	50	47		1	94	70-130	12/29/2014 0946
Chlorobenzene	50	45		1	90	70-130	12/29/2014 0946
Chloroethane	50	53		1	107	42-163	12/29/2014 0946
Chloroform	50	45		1	90	70-130	12/29/2014 0946
Chloromethane (Methyl chloride)	50	54		1	107	60-140	12/29/2014 0946
Dibromochloromethane	50	47		1	94	70-130	12/29/2014 0946
1,4-Dichlorobenzene	50	44		1	87	70-130	12/29/2014 0946
1,3-Dichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,2-Dichlorobenzene	50	44		1	89	70-130	12/29/2014 0946
1,2-Dichloroethane	50	47		1	94	70-130	12/29/2014 0946
1,1-Dichloroethane	50	46		1	92	70-130	12/29/2014 0946
cis-1,2-Dichloroethene	50	45		1	89	70-130	12/29/2014 0946
trans-1,2-Dichloroethene	50	44		1	89	70-130	12/29/2014 0946
1,1-Dichloroethene	50	46		1	91	70-130	12/29/2014 0946
1,2-Dichloropropane	50	45		1	91	70-130	12/29/2014 0946
trans-1,3-Dichloropropene	50	47		1	94	70-130	12/29/2014 0946
cis-1,3-Dichloropropene	50	47		1	93	70-130	12/29/2014 0946
Ethylbenzene	50	46		1	93	70-130	12/29/2014 0946
2-Hexanone	100	93		1	93	60-140	12/29/2014 0946
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	12/29/2014 0946
4-Methyl-2-pentanone	100	95		1	95	60-140	12/29/2014 0946
Methylene chloride	50	43		1	87	70-130	12/29/2014 0946
Styrene	50	46		1	93	70-130	12/29/2014 0946
1,1,2,2-Tetrachloroethane	50	46		1	93	60-140	12/29/2014 0946
Tetrachloroethene	50	46		1	92	70-130	12/29/2014 0946
Toluene	50	44		1	89	70-130	12/29/2014 0946
1,2,4-Trichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,1,2-Trichloroethane	50	46		1	91	70-130	12/29/2014 0946
1,1,1-Trichloroethane	50	46		1	92	70-130	12/29/2014 0946
Trichloroethene	50	45		1	90	70-130	12/29/2014 0946
Vinyl chloride	50	53		1	105	70-130	12/29/2014 0946
Xylenes (total)	100	91		1	91	70-130	12/29/2014 0946
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		103	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1237
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1237
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1237
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1237
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1237
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1237
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1237
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1237
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1237
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1237
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1237
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1237
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1237
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1237
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1237
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1237
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1237
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1237
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1237
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1237
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1237
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1237
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1237
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1237
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1237
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1237
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1237
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1237
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1237
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1237
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1237
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		62	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		71	24-127				
Nitrobenzene-d5		70	38-127				
Phenol-d5		72	28-128				
Terphenyl-d14		80	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	12/30/2014 1300
2,4,6-Trichlorophenol	20	17		1	83	36-123	12/30/2014 1300
2,4-Dichlorophenol	20	16		1	82	38-127	12/30/2014 1300
2,4-Dimethylphenol	20	24	N	1	118	36-110	12/30/2014 1300
2,4-Dinitrophenol	100	83		1	83	33-143	12/30/2014 1300
2,4-Dinitrotoluene	40	35		1	87	55-137	12/30/2014 1300
2,6-Dinitrotoluene	40	34		1	86	53-128	12/30/2014 1300
2-Chloronaphthalene	20	14		1	71	42-132	12/30/2014 1300
2-Chlorophenol	20	17		1	83	40-128	12/30/2014 1300
2-Methylnaphthalene	20	17		1	84	40-132	12/30/2014 1300
2-Methylphenol	20	17		1	84	33-122	12/30/2014 1300
2-Nitroaniline	40	34		1	85	48-126	12/30/2014 1300
2-Nitrophenol	40	33		1	81	44-131	12/30/2014 1300
3 & 4-Methylphenol	40	35		1	88	48-112	12/30/2014 1300
3-Nitroaniline	40	29		1	73	29-109	12/30/2014 1300
4,6-Dinitro-2-methylphenol	100	88		1	88	46-151	12/30/2014 1300
4-Bromophenyl phenyl ether	20	15		1	76	49-123	12/30/2014 1300
4-Chloro-3-methyl phenol	20	17		1	86	48-136	12/30/2014 1300
4-Chloroaniline	20	18	N	1	89	18-73	12/30/2014 1300
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	12/30/2014 1300
4-Nitroaniline	40	37		1	91	42-154	12/30/2014 1300
4-Nitrophenol	100	87		1	87	43-145	12/30/2014 1300
Acenaphthene	20	17		1	84	51-130	12/30/2014 1300
Acenaphthylene	20	20		1	102	46-131	12/30/2014 1300
Anthracene	20	17		1	87	48-122	12/30/2014 1300
Benzo(a)anthracene	20	16		1	80	50-143	12/30/2014 1300
Benzo(a)pyrene	20	16		1	80	55-141	12/30/2014 1300
Benzo(b)fluoranthene	20	17		1	85	48-147	12/30/2014 1300
Benzo(g,h,i)perylene	20	16		1	80	48-139	12/30/2014 1300
Benzo(k)fluoranthene	20	18		1	90	48-148	12/30/2014 1300
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	12/30/2014 1300
bis(2-Chloroisopropyl)ether	20	17		1	85	36-133	12/30/2014 1300
bis(2-Ethylhexyl)phthalate	20	15		1	73	40-141	12/30/2014 1300
Butyl benzyl phthalate	20	17		1	86	52-142	12/30/2014 1300
Carbazole	20	18		1	89	45-101	12/30/2014 1300
Chrysene	20	17		1	83	51-137	12/30/2014 1300
Di-n-butyl phthalate	20	16		1	81	50-134	12/30/2014 1300
Di-n-octylphthalate	20	14		1	72	50-136	12/30/2014 1300
Dibenzo(a,h)anthracene	20	16		1	80	48-139	12/30/2014 1300
Dibenzofuran	20	16		1	82	45-142	12/30/2014 1300
Diethylphthalate	20	17		1	87	48-124	12/30/2014 1300
Dimethyl phthalate	20	17		1	85	43-122	12/30/2014 1300
Fluoranthene	20	16		1	82	50-124	12/30/2014 1300
Fluorene	20	18		1	88	39-122	12/30/2014 1300

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	18		1	91	46-125	12/30/2014 1300
Hexachlorobutadiene	20	15		1	76	38-121	12/30/2014 1300
Hexachlorocyclopentadiene	100	59		1	59	24-110	12/30/2014 1300
Hexachloroethane	20	15		1	77	32-109	12/30/2014 1300
Indeno(1,2,3-c,d)pyrene	20	16		1	78	49-146	12/30/2014 1300
Isophorone	20	17		1	86	43-118	12/30/2014 1300
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	12/30/2014 1300
N-Nitrosodiphenylamine (Diphenylamine)	20	20		1	98	44-124	12/30/2014 1300
Naphthalene	20	16		1	81	45-118	12/30/2014 1300
Nitrobenzene	20	16		1	81	46-131	12/30/2014 1300
Pentachlorophenol	100	71		1	71	30-137	12/30/2014 1300
Phenanthrene	20	17		1	83	49-122	12/30/2014 1300
Phenol	20	16		1	82	35-118	12/30/2014 1300
Pyrene	20	16		1	79	50-130	12/30/2014 1300
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		84	41-144				
2-Fluorobiphenyl		80	37-129				
2-Fluorophenol		74	24-127				
Nitrobenzene-d5		83	38-127				
Phenol-d5		80	28-128				
Terphenyl-d14		88	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,1'-Biphenyl	ND		1	33	10	ug/kg	12/30/2014 1150
2,4,5-Trichlorophenol	ND		1	33	9.3	ug/kg	12/30/2014 1150
2,4,6-Trichlorophenol	ND		1	33	9.8	ug/kg	12/30/2014 1150
2,4-Dichlorophenol	ND		1	33	10	ug/kg	12/30/2014 1150
2,4-Dimethylphenol	ND		1	33	12	ug/kg	12/30/2014 1150
2,4-Dinitrophenol	ND		1	170	110	ug/kg	12/30/2014 1150
2,4-Dinitrotoluene	ND		1	67	18	ug/kg	12/30/2014 1150
2,6-Dinitrotoluene	ND		1	67	17	ug/kg	12/30/2014 1150
2-Chloronaphthalene	ND		1	33	11	ug/kg	12/30/2014 1150
2-Chlorophenol	ND		1	33	9.2	ug/kg	12/30/2014 1150
2-Methylnaphthalene	ND		1	33	9.9	ug/kg	12/30/2014 1150
2-Methylphenol	ND		1	33	6.0	ug/kg	12/30/2014 1150
2-Nitroaniline	ND		1	67	23	ug/kg	12/30/2014 1150
2-Nitrophenol	ND		1	67	18	ug/kg	12/30/2014 1150
3 & 4-Methylphenol	ND		1	67	12	ug/kg	12/30/2014 1150
3,3'-Dichlorobenzidine	ND		1	170	36	ug/kg	12/30/2014 1150
3-Nitroaniline	ND		1	67	39	ug/kg	12/30/2014 1150
4,6-Dinitro-2-methylphenol	ND		1	170	130	ug/kg	12/30/2014 1150
4-Bromophenyl phenyl ether	ND		1	33	9.8	ug/kg	12/30/2014 1150
4-Chloro-3-methyl phenol	ND		1	33	8.4	ug/kg	12/30/2014 1150
4-Chloroaniline	ND		1	33	6.8	ug/kg	12/30/2014 1150
4-Chlorophenyl phenyl ether	ND		1	33	11	ug/kg	12/30/2014 1150
4-Nitroaniline	ND		1	67	19	ug/kg	12/30/2014 1150
4-Nitrophenol	ND		1	170	96	ug/kg	12/30/2014 1150
Acenaphthene	ND		1	33	11	ug/kg	12/30/2014 1150
Acenaphthylene	ND		1	33	10	ug/kg	12/30/2014 1150
Acetophenone	ND		1	33	18	ug/kg	12/30/2014 1150
Anthracene	ND		1	33	7.4	ug/kg	12/30/2014 1150
Atrazine	ND		1	33	17	ug/kg	12/30/2014 1150
Benzaldehyde	ND		1	33	17	ug/kg	12/30/2014 1150
Benzo(a)anthracene	ND		1	33	8.8	ug/kg	12/30/2014 1150
Benzo(a)pyrene	ND		1	33	9.3	ug/kg	12/30/2014 1150
Benzo(b)fluoranthene	ND		1	33	9.6	ug/kg	12/30/2014 1150
Benzo(g,h,i)perylene	ND		1	33	12	ug/kg	12/30/2014 1150
Benzo(k)fluoranthene	ND		1	33	9.5	ug/kg	12/30/2014 1150
bis(2-Chloroethoxy)methane	ND		1	33	10	ug/kg	12/30/2014 1150
bis(2-Chloroethyl)ether	ND		1	33	9.2	ug/kg	12/30/2014 1150
bis(2-Chloroisopropyl)ether	ND		1	33	11	ug/kg	12/30/2014 1150
bis(2-Ethylhexyl)phthalate	ND		1	33	12	ug/kg	12/30/2014 1150
Butyl benzyl phthalate	ND		1	67	22	ug/kg	12/30/2014 1150
Caprolactam	ND		1	33	17	ug/kg	12/30/2014 1150
Carbazole	ND		1	33	14	ug/kg	12/30/2014 1150
Chrysene	ND		1	33	11	ug/kg	12/30/2014 1150
Di-n-butyl phthalate	ND		1	33	18	ug/kg	12/30/2014 1150

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Di-n-octylphthalate	ND		1	33	32	ug/kg	12/30/2014 1150
Dibenzo(a,h)anthracene	ND		1	33	9.1	ug/kg	12/30/2014 1150
Dibenzofuran	ND		1	33	10	ug/kg	12/30/2014 1150
Diethylphthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Dimethyl phthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Fluoranthene	ND		1	33	11	ug/kg	12/30/2014 1150
Fluorene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Hexachlorobenzene	ND		1	33	15	ug/kg	12/30/2014 1150
Hexachlorobutadiene	ND		1	33	11	ug/kg	12/30/2014 1150
Hexachlorocyclopentadiene	ND		1	170	25	ug/kg	12/30/2014 1150
Hexachloroethane	ND		1	33	8.9	ug/kg	12/30/2014 1150
Indeno(1,2,3-c,d)pyrene	ND		1	33	9.7	ug/kg	12/30/2014 1150
Isophorone	ND		1	33	7.4	ug/kg	12/30/2014 1150
N-Nitrosodi-n-propylamine	ND		1	33	13	ug/kg	12/30/2014 1150
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	33	8.3	ug/kg	12/30/2014 1150
Naphthalene	ND		1	33	10	ug/kg	12/30/2014 1150
Nitrobenzene	ND		1	33	5.4	ug/kg	12/30/2014 1150
Pentachlorophenol	ND		1	170	140	ug/kg	12/30/2014 1150
Phenanthrene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Phenol	ND		1	33	9.1	ug/kg	12/30/2014 1150
Pyrene	ND		1	33	13	ug/kg	12/30/2014 1150

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		42	30-117
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		44	28-104
Nitrobenzene-d5		39	22-109
Phenol-d5		47	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	670	300		1	45	30-130	12/30/2014 1213
2,4,5-Trichlorophenol	670	400		1	60	46-122	12/30/2014 1213
2,4,6-Trichlorophenol	670	380		1	57	38-115	12/30/2014 1213
2,4-Dichlorophenol	670	320		1	48	41-113	12/30/2014 1213
2,4-Dimethylphenol	670	490		1	74	33-123	12/30/2014 1213
2,4-Dinitrophenol	3300	2300		1	70	30-130	12/30/2014 1213
2,4-Dinitrotoluene	1300	1000		1	75	48-124	12/30/2014 1213
2,6-Dinitrotoluene	1300	880		1	66	47-125	12/30/2014 1213
2-Chloronaphthalene	670	280		1	42	31-127	12/30/2014 1213
2-Chlorophenol	670	300		1	45	37-106	12/30/2014 1213
2-Methylnaphthalene	670	300		1	46	40-106	12/30/2014 1213
2-Methylphenol	670	310		1	47	32-107	12/30/2014 1213
2-Nitroaniline	1300	870		1	66	45-128	12/30/2014 1213
2-Nitrophenol	1300	550		1	41	35-108	12/30/2014 1213
3 & 4-Methylphenol	1300	670		1	50	39-108	12/30/2014 1213
3,3'-Dichlorobenzidine	1300	1000		1	76	30-130	12/30/2014 1213
3-Nitroaniline	1300	870		1	65	24-127	12/30/2014 1213
4,6-Dinitro-2-methylphenol	3300	2600		1	78	40-130	12/30/2014 1213
4-Bromophenyl phenyl ether	670	390		1	59	46-118	12/30/2014 1213
4-Chloro-3-methyl phenol	670	410		1	62	49-118	12/30/2014 1213
4-Chloroaniline	670	370		1	55	10-125	12/30/2014 1213
4-Chlorophenyl phenyl ether	670	380		1	57	47-116	12/30/2014 1213
4-Nitroaniline	1300	1100		1	86	48-127	12/30/2014 1213
4-Nitrophenol	3300	2800		1	84	18-154	12/30/2014 1213
Acenaphthene	670	360		1	54	46-114	12/30/2014 1213
Acenaphthylene	670	450		1	68	44-122	12/30/2014 1213
Acetophenone	670	280		1	42	30-130	12/30/2014 1213
Anthracene	670	500		1	76	50-119	12/30/2014 1213
Atrazine	670	450		1	67	30-130	12/30/2014 1213
Benzaldehyde	670	280		1	42	40-117	12/30/2014 1213
Benzo(a)anthracene	670	540		1	80	47-121	12/30/2014 1213
Benzo(a)pyrene	670	590		1	89	55-134	12/30/2014 1213
Benzo(b)fluoranthene	670	570		1	85	28-139	12/30/2014 1213
Benzo(g,h,i)perylene	670	540		1	81	36-125	12/30/2014 1213
Benzo(k)fluoranthene	670	590		1	89	47-130	12/30/2014 1213
bis(2-Chloroethoxy)methane	670	290		1	44	39-108	12/30/2014 1213
bis(2-Chloroethyl)ether	670	280		1	42	32-105	12/30/2014 1213
bis(2-Chloroisopropyl)ether	670	280		1	43	31-102	12/30/2014 1213
bis(2-Ethylhexyl)phthalate	670	570		1	85	45-128	12/30/2014 1213
Butyl benzyl phthalate	670	570		1	86	46-128	12/30/2014 1213
Caprolactam	670	650		1	98	30-130	12/30/2014 1213
Carbazole	670	570		1	86	30-130	12/30/2014 1213
Chrysene	670	550		1	82	45-126	12/30/2014 1213
Di-n-butyl phthalate	670	550		1	82	51-129	12/30/2014 1213

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	670	550		1	82	49-142	12/30/2014 1213
Dibenzo(a,h)anthracene	670	540		1	81	30-130	12/30/2014 1213
Dibenzofuran	670	370		1	56	45-112	12/30/2014 1213
Diethylphthalate	670	500		1	75	49-123	12/30/2014 1213
Dimethyl phthalate	670	460		1	69	48-120	12/30/2014 1213
Fluoranthene	670	540		1	80	50-123	12/30/2014 1213
Fluorene	670	420		1	63	48-117	12/30/2014 1213
Hexachlorobenzene	670	490		1	73	44-122	12/30/2014 1213
Hexachlorobutadiene	670	250		1	37	33-103	12/30/2014 1213
Hexachlorocyclopentadiene	3300	1300		1	39	18-121	12/30/2014 1213
Hexachloroethane	670	240		1	36	30-96	12/30/2014 1213
Indeno(1,2,3-c,d)pyrene	670	530		1	80	45-123	12/30/2014 1213
Isophorone	670	330		1	49	30-130	12/30/2014 1213
N-Nitrosodi-n-propylamine	670	310		1	46	32-115	12/30/2014 1213
N-Nitrosodiphenylamine (Diphenylamine)	670	570		1	86	53-150	12/30/2014 1213
Naphthalene	670	270		1	41	36-110	12/30/2014 1213
Nitrobenzene	670	280		1	42	33-114	12/30/2014 1213
Pentachlorophenol	3300	2200		1	65	27-138	12/30/2014 1213
Phenanthrene	670	470		1	71	49-117	12/30/2014 1213
Phenol	670	320		1	48	36-108	12/30/2014 1213
Pyrene	670	530		1	79	47-119	12/30/2014 1213
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		69	30-117				
2-Fluorobiphenyl		46	33-102				
2-Fluorophenol		42	28-104				
Nitrobenzene-d5		41	22-109				
Phenol-d5		46	27-103				
Terphenyl-d14		85	41-120				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ63984-001

Matrix: Aqueous

Batch: 63984

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/24/2014 1857

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
4,4'-DDE	ND		1	0.025	0.011	ug/L	12/29/2014 1130
4,4'-DDT	ND		1	0.025	0.0020	ug/L	12/29/2014 1130
Aldrin	ND		1	0.025	0.0017	ug/L	12/29/2014 1130
alpha-BHC	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	12/29/2014 1130
beta-BHC	ND		1	0.025	0.0039	ug/L	12/29/2014 1130
delta-BHC	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
Dieldrin	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
Endosulfan I	ND		1	0.025	0.0022	ug/L	12/29/2014 1130
Endosulfan II	ND		1	0.025	0.0015	ug/L	12/29/2014 1130
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
Endrin	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	12/29/2014 1130
Endrin ketone	ND		1	0.025	0.0012	ug/L	12/29/2014 1130
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	12/29/2014 1130
Heptachlor	ND		1	0.025	0.013	ug/L	12/29/2014 1130
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	12/29/2014 1130
Methoxychlor	ND		1	0.10	0.0020	ug/L	12/29/2014 1130
Toxaphene	ND		1	0.25	0.11	ug/L	12/29/2014 1130
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		40	10-122				
Tetrachloro-m-xylene		84	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ63984-002

Matrix: Aqueous

Batch: 63984

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/24/2014 1857

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	93	70-130	12/29/2014 1145
4,4'-DDE	0.50	0.45		1	90	70-130	12/29/2014 1145
4,4'-DDT	0.50	0.51		1	103	70-130	12/29/2014 1145
Aldrin	0.50	0.44		1	88	70-130	12/29/2014 1145
alpha-BHC	0.50	0.41		1	81	70-130	12/29/2014 1145
alpha-Chlordane	0.50	0.44		1	88	70-130	12/29/2014 1145
beta-BHC	0.50	0.43		1	87	70-130	12/29/2014 1145
delta-BHC	0.50	0.39		1	78	70-130	12/29/2014 1145
Dieldrin	0.50	0.46		1	92	70-130	12/29/2014 1145
Endosulfan I	0.50	0.45		1	89	70-130	12/29/2014 1145
Endosulfan II	0.50	0.44		1	89	70-130	12/29/2014 1145
Endosulfan sulfate	0.50	0.42		1	84	70-130	12/29/2014 1145
Endrin	0.50	0.19	N	1	37	70-130	12/29/2014 1145
Endrin aldehyde	0.50	0.46		1	92	70-130	12/29/2014 1145
Endrin ketone	0.50	0.67	N	1	134	70-130	12/29/2014 1145
gamma-BHC (Lindane)	0.50	0.43		1	86	70-130	12/29/2014 1145
gamma-Chlordane	0.50	0.44		1	89	70-130	12/29/2014 1145
Heptachlor	0.50	0.40		1	80	70-130	12/29/2014 1145
Heptachlor epoxide	0.50	0.44		1	87	70-130	12/29/2014 1145
Methoxychlor	0.50	0.55		1	111	70-130	12/29/2014 1145
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		82	10-122				
Tetrachloro-m-xylene		81	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64120-001

Batch: 64120

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
4,4'-DDE	ND		1	1.7	0.32	ug/kg	01/07/2015 1043
4,4'-DDT	ND		1	1.7	0.070	ug/kg	01/07/2015 1043
Aldrin	ND		1	1.7	0.042	ug/kg	01/07/2015 1043
alpha-BHC	ND		1	1.7	0.045	ug/kg	01/07/2015 1043
alpha-Chlordane	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
beta-BHC	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
delta-BHC	ND		1	1.7	0.021	ug/kg	01/07/2015 1043
Dieldrin	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
Endosulfan I	ND		1	1.7	0.041	ug/kg	01/07/2015 1043
Endosulfan II	ND		1	1.7	0.032	ug/kg	01/07/2015 1043
Endosulfan sulfate	ND		1	1.7	0.037	ug/kg	01/07/2015 1043
Endrin	ND		1	1.7	0.022	ug/kg	01/07/2015 1043
Endrin aldehyde	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Endrin ketone	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
gamma-BHC (Lindane)	ND		1	1.7	0.075	ug/kg	01/07/2015 1043
gamma-Chlordane	ND		1	1.7	0.025	ug/kg	01/07/2015 1043
Heptachlor	ND		1	1.7	0.057	ug/kg	01/07/2015 1043
Heptachlor epoxide	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Methoxychlor	ND		1	6.7	0.067	ug/kg	01/07/2015 1043
Toxaphene	ND		1	83	1.7	ug/kg	01/07/2015 1043
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64120-002

Batch: 64120

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 930

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	15		1	91	70-130	01/07/2015 1057
4,4'-DDE	17	15		1	89	70-130	01/07/2015 1057
4,4'-DDT	17	15		1	87	70-130	01/07/2015 1057
Aldrin	17	15		1	87	70-130	01/07/2015 1057
alpha-BHC	17	14		1	80	70-130	01/07/2015 1057
alpha-Chlordane	17	15		1	88	70-130	01/07/2015 1057
beta-BHC	17	13		1	79	70-130	01/07/2015 1057
delta-BHC	17	14		1	82	70-130	01/07/2015 1057
Dieldrin	17	16		1	92	70-130	01/07/2015 1057
Endosulfan I	17	15		1	88	70-130	01/07/2015 1057
Endosulfan II	17	15		1	90	70-130	01/07/2015 1057
Endosulfan sulfate	17	14		1	84	70-130	01/07/2015 1057
Endrin	17	15		1	90	70-130	01/07/2015 1057
Endrin aldehyde	17	14		1	81	70-130	01/07/2015 1057
Endrin ketone	17	15		1	87	70-130	01/07/2015 1057
gamma-BHC (Lindane)	17	14		1	84	70-130	01/07/2015 1057
gamma-Chlordane	17	15		1	86	70-130	01/07/2015 1057
Heptachlor	17	14		1	80	70-130	01/07/2015 1057
Heptachlor epoxide	17	14		1	85	70-130	01/07/2015 1057
Methoxychlor	17	15		1	88	70-130	01/07/2015 1057
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64252-001

Matrix: Aqueous

Batch: 64252

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/30/2014 1824

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
4,4'-DDE	ND		1	0.025	0.011	ug/L	01/05/2015 2145
4,4'-DDT	ND		1	0.025	0.0020	ug/L	01/05/2015 2145
Aldrin	ND		1	0.025	0.0017	ug/L	01/05/2015 2145
alpha-BHC	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	01/05/2015 2145
beta-BHC	ND		1	0.025	0.0039	ug/L	01/05/2015 2145
delta-BHC	0.0062	J	1	0.025	0.0011	ug/L	01/05/2015 2145
Dieldrin	0.0015	J	1	0.025	0.0010	ug/L	01/05/2015 2145
Endosulfan I	ND		1	0.025	0.0022	ug/L	01/05/2015 2145
Endosulfan II	ND		1	0.025	0.0015	ug/L	01/05/2015 2145
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	01/05/2015 2145
Endrin	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
Endrin aldehyde	0.049		1	0.025	0.0019	ug/L	01/05/2015 2145
Endrin ketone	ND		1	0.025	0.0012	ug/L	01/05/2015 2145
gamma-BHC (Lindane)	0.0024	J	1	0.025	0.0011	ug/L	01/05/2015 2145
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	01/05/2015 2145
Heptachlor	ND		1	0.025	0.013	ug/L	01/05/2015 2145
Heptachlor epoxide	0.0020	J	1	0.025	0.0020	ug/L	01/05/2015 2145
Methoxychlor	ND		1	0.10	0.0020	ug/L	01/05/2015 2145
Toxaphene	ND		1	0.25	0.11	ug/L	01/05/2015 2145
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		78	10-122				
Tetrachloro-m-xylene		70	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64252-002

Matrix: Aqueous

Batch: 64252

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/30/2014 1824

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.52		1	103	70-130	01/05/2015 2159
4,4'-DDE	0.50	0.51		1	101	70-130	01/05/2015 2159
4,4'-DDT	0.50	0.50		1	101	70-130	01/05/2015 2159
Aldrin	0.50	0.49		1	98	70-130	01/05/2015 2159
alpha-BHC	0.50	0.47		1	95	70-130	01/05/2015 2159
alpha-Chlordane	0.50	0.49		1	99	70-130	01/05/2015 2159
beta-BHC	0.50	0.45		1	91	70-130	01/05/2015 2159
delta-BHC	0.50	0.52		1	103	70-130	01/05/2015 2159
Dieldrin	0.50	0.52		1	105	70-130	01/05/2015 2159
Endosulfan I	0.50	0.50		1	100	70-130	01/05/2015 2159
Endosulfan II	0.50	0.52		1	105	70-130	01/05/2015 2159
Endosulfan sulfate	0.50	0.50		1	100	70-130	01/05/2015 2159
Endrin	0.50	0.50		1	101	70-130	01/05/2015 2159
Endrin aldehyde	0.50	0.51		1	102	70-130	01/05/2015 2159
Endrin ketone	0.50	0.54		1	107	70-130	01/05/2015 2159
gamma-BHC (Lindane)	0.50	0.49		1	98	70-130	01/05/2015 2159
gamma-Chlordane	0.50	0.49		1	98	70-130	01/05/2015 2159
Heptachlor	0.50	0.46		1	92	70-130	01/05/2015 2159
Heptachlor epoxide	0.50	0.49		1	98	70-130	01/05/2015 2159
Methoxychlor	0.50	0.50		1	100	70-130	01/05/2015 2159
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		77	10-122				
Tetrachloro-m-xylene		68	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: PL19009-001MS

Batch: 64252

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/30/2014 1824

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	1.0	0.91		1	91	70-130	01/06/2015 1400
gamma-BHC (Lindane)	ND	1.0	0.91		1	91	70-130	01/06/2015 1400
alpha-BHC	ND	1.0	0.86		1	86	70-130	01/06/2015 1400
beta-BHC	ND	1.0	0.90		1	90	70-130	01/06/2015 1400
delta-BHC	ND	1.0	1.0		1	102	70-130	01/06/2015 1400
alpha-Chlordane	ND	1.0	0.94		1	94	70-130	01/06/2015 1400
gamma-Chlordane	ND	1.0	0.95		1	95	70-130	01/06/2015 1400
4,4'-DDD	ND	1.0	0.99		1	99	70-130	01/06/2015 1400
4,4'-DDE	ND	1.0	0.94		1	94	70-130	01/06/2015 1400
4,4'-DDT	ND	1.0	1.0		1	101	70-130	01/06/2015 1400
Dieldrin	ND	1.0	1.0		1	101	70-130	01/06/2015 1400
Endosulfan I	ND	1.0	0.95		1	95	70-130	01/06/2015 1400
Endosulfan II	ND	1.0	0.99		1	99	70-130	01/06/2015 1400
Endosulfan sulfate	ND	1.0	1.0		1	100	70-130	01/06/2015 1400
Endrin	ND	1.0	0.98		1	98	70-130	01/06/2015 1400
Endrin aldehyde	ND	1.0	1.0		1	99	70-130	01/06/2015 1400
Endrin ketone	ND	1.0	1.1		1	112	70-130	01/06/2015 1400
Heptachlor	ND	1.0	0.83		1	83	70-130	01/06/2015 1400
Heptachlor epoxide	ND	1.0	0.94		1	94	70-130	01/06/2015 1400
Methoxychlor	0.070	1.0	1.0		1	103	70-130	01/06/2015 1400
Surrogate	Q	% Rec	Acceptance Limit					
Decachlorobiphenyl		61	10-122					
Tetrachloro-m-xylene		64	46-119					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: PL19009-001MD

Matrix: Aqueous

Batch: 64252

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/30/2014 1824

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	1.0	0.82		1	82	10	70-130	30	01/06/2015 1414
gamma-BHC (Lindane)	ND	1.0	0.88		1	88	3.6	70-130	30	01/06/2015 1414
alpha-BHC	ND	1.0	0.85		1	85	1.9	70-130	30	01/06/2015 1414
beta-BHC	ND	1.0	0.87		1	87	2.3	70-130	30	01/06/2015 1414
delta-BHC	ND	1.0	0.97		1	97	4.6	70-130	30	01/06/2015 1414
alpha-Chlordane	ND	1.0	0.84		1	84	11	70-130	30	01/06/2015 1414
gamma-Chlordane	ND	1.0	0.82		1	82	15	70-130	30	01/06/2015 1414
4,4'-DDD	ND	1.0	0.87		1	87	12	70-130	30	01/06/2015 1414
4,4'-DDE	ND	1.0	0.89		1	89	5.7	70-130	30	01/06/2015 1414
4,4'-DDT	ND	1.0	0.88		1	88	13	70-130	30	01/06/2015 1414
Dieldrin	ND	1.0	0.92		1	92	9.9	70-130	30	01/06/2015 1414
Endosulfan I	ND	1.0	0.78		1	78	19	70-130	30	01/06/2015 1414
Endosulfan II	ND	1.0	0.92		1	92	7.7	70-130	30	01/06/2015 1414
Endosulfan sulfate	ND	1.0	0.93		1	93	8.1	70-130	30	01/06/2015 1414
Endrin	ND	1.0	0.90		1	90	8.1	70-130	30	01/06/2015 1414
Endrin aldehyde	ND	1.0	0.95		1	95	5.0	70-130	30	01/06/2015 1414
Endrin ketone	ND	1.0	1.1		1	105	6.7	70-130	30	01/06/2015 1414
Heptachlor	ND	1.0	0.76		1	76	8.6	70-130	30	01/06/2015 1414
Heptachlor epoxide	ND	1.0	0.87		1	87	8.3	70-130	30	01/06/2015 1414
Methoxychlor	0.070	1.0	0.94		1	93	10	70-130	30	01/06/2015 1414
Surrogate	Q	% Rec	Acceptance Limit							
Decachlorobiphenyl		56	10-122							
Tetrachloro-m-xylene		61	46-119							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63996-001

Batch: 63996

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 12/29/2014 1651

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.50	0.19	mg/kg	12/31/2014 1356
Barium	ND		1	1.3	0.091	mg/kg	12/31/2014 1356
Cadmium	0.018	J	1	0.10	0.011	mg/kg	12/31/2014 1356
Chromium	ND		1	0.25	0.051	mg/kg	12/31/2014 1356
Lead	0.11	J	1	0.50	0.093	mg/kg	12/31/2014 1356
Selenium	ND		1	0.50	0.17	mg/kg	12/31/2014 1356
Silver	ND		1	0.25	0.042	mg/kg	12/31/2014 1356

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63996-002

Matrix: Solid

Batch: 63996

Prep Method: 3050B

Analytical Method: 6010C

Prep Date: 12/29/2014 1651

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	240	240		1	99	80-120	12/31/2014 1400
Barium	480	480		1	99	80-120	12/31/2014 1400
Cadmium	48	48		1	99	80-120	12/31/2014 1400
Chromium	240	230		1	96	80-120	12/31/2014 1400
Lead	240	250		1	102	80-120	12/31/2014 1400
Selenium	48	49		1	101	80-120	12/31/2014 1400
Silver	240	240		1	98	80-120	12/31/2014 1400

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: QQ64841-001

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	1.0	0.26	ug/L	01/09/2015 0207
Barium	0.29	J	1	5.0	0.045	ug/L	01/09/2015 0207
Cadmium	ND		1	0.10	0.059	ug/L	01/09/2015 0207
Chromium	ND		1	5.0	0.35	ug/L	01/09/2015 0207
Lead	ND		1	1.0	0.047	ug/L	01/09/2015 0207
Selenium	ND		1	1.0	0.25	ug/L	01/09/2015 0207
Silver	ND		1	1.0	0.011	ug/L	01/09/2015 1743

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCS

Sample ID: QQ64841-002

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	100		1	101	80-120	01/09/2015 0212
Barium	100	100		1	105	80-120	01/09/2015 0212
Cadmium	100	100		1	101	80-120	01/09/2015 0212
Chromium	100	98		1	98	80-120	01/09/2015 0212
Lead	100	100		1	101	80-120	01/09/2015 0212
Selenium	100	100		1	100	80-120	01/09/2015 0212
Silver	100	110		1	109	80-120	01/09/2015 1748

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64167-001

Batch: 64167

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	0.0092	J	1	0.083	0.0059	mg/kg	12/31/2014 1217

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 96 of 99
Level 1 Report v2.1

RCRA Metals - LCS

Sample ID: PQ64167-002

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.78	0.83		1	107	80-120	12/31/2014 1219

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 97 of 99
Level 1 Report v2.1

CVAA - MB

Sample ID: PQ64180-001

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 98 of 99
Level 1 Report v2.1

CVAA - LCS

Sample ID: PQ64180-002

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 99 of 99
Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Arcadis Cooler Inspected by/date: mam/12/18/14 Lot #: PL19009

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☐ No ☒		1. Were custody seals present on the cooler?
Yes ☐ No ☐ NA ☒		2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>11211.7</u> °C / / °C / / °C / / °C		
Method: ☐ Temperature Blank ☒ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: <u>0.1</u> °C		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Yes ☐ No ☐ NA ☒		3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☒ No ☐ NA ☐		4. Is the commercial courier's packing slip attached to this form?
Yes ☒ No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐ No ☒ NA ☐		5a Were samples relinquished by client to commercial courier?
Yes ☒ No ☐		6. Were sample IDs listed on the COC?
Yes ☒ No ☐		7. Were sample IDs listed on all sample containers?
Yes ☒ No ☐		8. Was collection date & time listed on the COC?
Yes ☒ No ☐		9. Was collection date & time listed on all sample containers?
Yes ☒ No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☒ No ☐		11. Were tests to be performed listed on the COC?
Yes ☒ No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☒ No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒ No ☐		14. Was adequate sample volume available?
Yes ☒ No ☐		15. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
Yes ☐ No ☒		16. Were any samples containers missing?
Yes ☐ No ☒		17. Were there any excess samples not listed on COC?
Yes ☐ No ☒ NA ☐		18. Were bubbles present > "pea-size" (1/4" or 6mm in diameter) in any VOA vials?
Yes ☒ No ☐ NA ☐		19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐ No ☐ NA ☒		20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐ No ☐ NA ☒		21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐ No ☐ NA ☒		22. Were collection temperatures documented on the COC for NC samples?
Yes ☐ No ☐ NA ☒		23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐ No ☒		24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) using SR # _____		
Sample(s) _____ were received with bubbles > 6 mm in diameter.		
Sample(s) _____ were received with TRC > 0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>mam</u> Verified by: _____ Date: <u>12/18/14</u>		

Comments:

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: HAA-01

Project Number: 1015300.0001.DE001

Lot Number: PL20001

Date Completed: 01/05/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL 20001 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL20001

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batches 63608 and 63607 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL20001

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01COEMW08(121914)	Aqueous	12/19/2014 0911	12/20/2014
002	HA01MW12D(121914)	Aqueous	12/19/2014 1011	12/20/2014
003	HA01MW12(121914)	Aqueous	12/19/2014 1047	12/20/2014
004	HA01COEMW06(121914)	Aqueous	12/19/2014 1137	12/20/2014
005	HA01MW13(121914)	Aqueous	12/19/2014 0922	12/20/2014
006	HA01COEMW07(121914)	Aqueous	12/19/2014 1006	12/20/2014
007	HA01HMW21(121914)	Aqueous	12/19/2014 1106	12/20/2014
008	HA01COEMW05(121914)	Aqueous	12/19/2014 1212	12/20/2014
009	HA01COEMW04(121914)	Aqueous	12/19/2014 1231	12/20/2014
010	TRIP BLANK	Aqueous	12/19/2014	12/20/2014

(10 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL20001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HA01COEMW08(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	110		ug/L	7
001	HA01COEMW08(121914)	Aqueous	Dissolved Barium	6010C	0.099		mg/L	9
001	HA01COEMW08(121914)	Aqueous	Dissolved Lead	6010C	0.0053	J	mg/L	9
001	HA01COEMW08(121914)	Aqueous	Dissolved Mercury	7470A	0.000024	J	mg/L	9
001	HA01COEMW08(121914)	Aqueous	Barium	6010C	0.13		mg/L	10
001	HA01COEMW08(121914)	Aqueous	Lead	6010C	0.0057	J	mg/L	10
003	HA01MW12(121914)	Aqueous	Barium	6010C	0.074		mg/L	16
003	HA01MW12(121914)	Aqueous	Lead	6010C	0.0054	J	mg/L	16
003	HA01MW12(121914)	Aqueous	Mercury	7470A	0.000016	J	mg/L	16
004	HA01COEMW06(121914)	Aqueous	trans-1,2-Dichloroethene	8260B	2.4	J	ug/L	18
004	HA01COEMW06(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	850		ug/L	18
004	HA01COEMW06(121914)	Aqueous	1,1-Dichloroethene	8260B	2.1	J	ug/L	18
004	HA01COEMW06(121914)	Aqueous	Vinyl chloride	8260B	2.1	J	ug/L	18
004	HA01COEMW06(121914)	Aqueous	Barium	6010C	0.046		mg/L	20
004	HA01COEMW06(121914)	Aqueous	Lead	6010C	0.0055	J	mg/L	20
005	HA01MW13(121914)	Aqueous	Barium	6010C	0.079		mg/L	24
005	HA01MW13(121914)	Aqueous	Lead	6010C	0.0070	J	mg/L	24
006	HA01COEMW07(121914)	Aqueous	trans-1,2-Dichloroethene	8260B	6.9	J	ug/L	25
006	HA01COEMW07(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	1500		ug/L	25
006	HA01COEMW07(121914)	Aqueous	1,1-Dichloroethene	8260B	4.3	J	ug/L	25
007	HA01HMW21(121914)	Aqueous	trans-1,2-Dichloroethene	8260B	10	J	ug/L	28
007	HA01HMW21(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	2300		ug/L	28
007	HA01HMW21(121914)	Aqueous	1,1-Dichloroethene	8260B	3.7	J	ug/L	28
007	HA01HMW21(121914)	Aqueous	Vinyl chloride	8260B	20		ug/L	28
007	HA01HMW21(121914)	Aqueous	Dissolved Barium	6010C	0.016	J	mg/L	30
007	HA01HMW21(121914)	Aqueous	Dissolved Lead	6010C	0.0054	J	mg/L	30
007	HA01HMW21(121914)	Aqueous	Barium	6010C	0.069		mg/L	31
007	HA01HMW21(121914)	Aqueous	Chromium	6010C	0.0043	J	mg/L	31
007	HA01HMW21(121914)	Aqueous	Lead	6010C	0.010		mg/L	31
007	HA01HMW21(121914)	Aqueous	Mercury	7470A	0.00010		mg/L	31
008	HA01COEMW05(121914)	Aqueous	Benzene	8260B	0.46	J	ug/L	33
008	HA01COEMW05(121914)	Aqueous	trans-1,2-Dichloroethene	8260B	1.1		ug/L	33
008	HA01COEMW05(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	180		ug/L	33
008	HA01COEMW05(121914)	Aqueous	1,1-Dichloroethene	8260B	0.26	J	ug/L	33
008	HA01COEMW05(121914)	Aqueous	Vinyl chloride	8260B	9.6		ug/L	33
008	HA01COEMW05(121914)	Aqueous	Barium	6010C	0.026		mg/L	35
008	HA01COEMW05(121914)	Aqueous	Lead	6010C	0.0059	J	mg/L	35
008	HA01COEMW05(121914)	Aqueous	Mercury	7470A	0.000037	J	mg/L	35
009	HA01COEMW04(121914)	Aqueous	trans-1,2-Dichloroethene	8260B	12	J	ug/L	37
009	HA01COEMW04(121914)	Aqueous	cis-1,2-Dichloroethene	8260B	1400		ug/L	37
009	HA01COEMW04(121914)	Aqueous	Vinyl chloride	8260B	59		ug/L	37
009	HA01COEMW04(121914)	Aqueous	Barium	6010C	0.019	J	mg/L	39
009	HA01COEMW04(121914)	Aqueous	Lead	6010C	0.0044	J	mg/L	39
009	HA01COEMW04(121914)	Aqueous	Mercury	7470A	0.000016	J	mg/L	39
010	TRIP BLANK	Aqueous	Carbon disulfide	8260B	0.25	J	ug/L	40

Executive Summary (Continued)

Lot Number: PL20001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
(45 detections)								

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-001			
Description: HA01COEMW08(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 0911							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63607
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-001			
Description: HA01COEMW08(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 0911							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	20	12/31/2014 0051	PMM2		64324		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		400	130	ug/L	2	
Benzene	71-43-2	8260B	ND		20	2.6	ug/L	2	
Bromodichloromethane	75-27-4	8260B	ND		20	6.6	ug/L	2	
Bromoform	75-25-2	8260B	ND		20	13	ug/L	2	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		40	16	ug/L	2	
2-Butanone (MEK)	78-93-3	8260B	ND		200	41	ug/L	2	
Carbon disulfide	75-15-0	8260B	ND		20	1.9	ug/L	2	
Carbon tetrachloride	56-23-5	8260B	ND		20	2.7	ug/L	2	
Chlorobenzene	108-90-7	8260B	ND		40	6.6	ug/L	2	
Chloroethane	75-00-3	8260B	ND		40	9.4	ug/L	2	
Chloroform	67-66-3	8260B	ND		20	6.6	ug/L	2	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		20	7.0	ug/L	2	
Dibromochloromethane	124-48-1	8260B	ND		20	6.6	ug/L	2	
1,4-Dichlorobenzene	106-46-7	8260B	ND		20	6.6	ug/L	2	
1,3-Dichlorobenzene	541-73-1	8260B	ND		20	6.6	ug/L	2	
1,2-Dichlorobenzene	95-50-1	8260B	ND		20	6.6	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		20	2.9	ug/L	2	
1,1-Dichloroethane	75-34-3	8260B	ND		20	2.6	ug/L	2	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		20	4.1	ug/L	2	
cis-1,2-Dichloroethene	156-59-2	8260B	110		20	2.4	ug/L	2	
1,1-Dichloroethene	75-35-4	8260B	ND		20	3.2	ug/L	2	
1,2-Dichloropropane	78-87-5	8260B	ND		20	3.8	ug/L	2	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		20	2.1	ug/L	2	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		20	1.8	ug/L	2	
Ethylbenzene	100-41-4	8260B	ND		20	6.6	ug/L	2	
2-Hexanone	591-78-6	8260B	ND		200	5.5	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	2	
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	6.2	ug/L	2	
Methylene chloride	75-09-2	8260B	ND		20	6.6	ug/L	2	
Styrene	100-42-5	8260B	ND		20	2.4	ug/L	2	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		20	3.3	ug/L	2	
Tetrachloroethene	127-18-4	8260B	ND		20	2.6	ug/L	2	
Toluene	108-88-3	8260B	ND		20	6.6	ug/L	2	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		20	10	ug/L	2	
1,1,2-Trichloroethane	79-00-5	8260B	ND		20	4.2	ug/L	2	
1,1,1-Trichloroethane	71-55-6	8260B	ND		20	1.5	ug/L	2	
Trichloroethene	79-01-6	8260B	ND		20	3.6	ug/L	2	
Vinyl chloride	75-01-4	8260B	ND		20	1.1	ug/L	2	
Xylenes (total)	1330-20-7	8260B	ND		20	6.6	ug/L	2	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-001
Description: HA01COEMW08(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 0911	
Date Received: 12/20/2014	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-001
Description: HA01COEMW08(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 0911	
Date Received: 12/20/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1324	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1928	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1054	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.099		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Dissolved Lead	7439-92-1	6010C	0.0053	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	0.000024	J	0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-001

Description: HA01COEMW08(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 0911

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1319	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1924	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1050	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.13		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0057	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 10 of 68

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-002			
Description: HA01MW12D(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1011							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 0006	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-002
Description: HA01MW12D(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1011	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-003			
Description: HA01MW12(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1047							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63607		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-003			
Description: HA01MW12(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1047							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 0029	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-003
Description: HA01MW12(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1047	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-003
Description: HA01MW12(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1047	
Date Received: 12/20/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1326	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1932	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1058	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.074		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0054	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000016	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-004			
Description: HA01COEMW06(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1137							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/20/2014 1021	MJI		63607		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-004			
Description: HA01COEMW06(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1137							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/30/2014 0506	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		200	67	ug/L	1
Benzene	71-43-2	8260B	ND		10	1.3	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		10	3.3	ug/L	1
Bromoform	75-25-2	8260B	ND		10	6.6	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		20	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		100	20	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		10	0.97	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		10	1.4	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		20	3.3	ug/L	1
Chloroethane	75-00-3	8260B	ND		20	4.7	ug/L	1
Chloroform	67-66-3	8260B	ND		10	3.3	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	3.5	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	3.3	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		10	3.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		10	3.3	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		10	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		10	1.5	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		10	1.3	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	2.4	J	10	2.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	850		10	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	2.1	J	10	1.6	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		10	1.9	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		10	1.1	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		10	0.92	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		10	3.3	ug/L	1
2-Hexanone	591-78-6	8260B	ND		100	2.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		10	4.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		100	3.1	ug/L	1
Methylene chloride	75-09-2	8260B	ND		10	3.3	ug/L	1
Styrene	100-42-5	8260B	ND		10	1.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		10	1.6	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		10	1.3	ug/L	1
Toluene	108-88-3	8260B	ND		10	3.3	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		10	5.1	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		10	2.1	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		10	0.74	ug/L	1
Trichloroethene	79-01-6	8260B	ND		10	1.8	ug/L	1
Vinyl chloride	75-01-4	8260B	2.1	J	10	0.54	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		10	3.3	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-004
Description: HA01COEMW06(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1137	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-004

Description: HA01COEMW06(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 1137

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1332	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1945	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1110	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.046		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0055	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-005			
Description: HA01MW13(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 0922							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63607		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-005
Description: HA01MW13(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 0922	
Date Received: 12/20/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 0052	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-005
Description: HA01MW13(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 0922	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-005

Description: HA01MW13(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 0922

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1334	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1949	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1115	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.079		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0070	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 24 of 68

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-006
Description: HA01COEMW07(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1006	
Date Received: 12/20/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/30/2014 0529	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		200	67	ug/L	1
Benzene	71-43-2	8260B	ND		10	1.3	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		10	3.3	ug/L	1
Bromoform	75-25-2	8260B	ND		10	6.6	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		20	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		100	20	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		10	0.97	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		10	1.4	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		20	3.3	ug/L	1
Chloroethane	75-00-3	8260B	ND		20	4.7	ug/L	1
Chloroform	67-66-3	8260B	ND		10	3.3	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	3.5	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		10	3.3	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		10	3.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		10	3.3	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		10	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		10	1.5	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		10	1.3	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	6.9	J	10	2.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1500		10	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	4.3	J	10	1.6	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		10	1.9	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		10	1.1	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		10	0.92	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		10	3.3	ug/L	1
2-Hexanone	591-78-6	8260B	ND		100	2.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		10	4.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		100	3.1	ug/L	1
Methylene chloride	75-09-2	8260B	ND		10	3.3	ug/L	1
Styrene	100-42-5	8260B	ND		10	1.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		10	1.6	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		10	1.3	ug/L	1
Toluene	108-88-3	8260B	ND		10	3.3	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		10	5.1	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		10	2.1	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		10	0.74	ug/L	1
Trichloroethene	79-01-6	8260B	ND		10	1.8	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	0.54	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		10	3.3	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-006
Description: HA01COEMW07(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1006	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-007			
Description: HA01HMW21(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1106							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63607
1		(Hexavalent C) 7196A	1	12/20/2014 1016	MJI		63608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-007			
Description: HA01HMW21(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1106							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/30/2014 0552	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		400	130	ug/L	1
Benzene	71-43-2	8260B	ND		20	2.6	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		20	6.6	ug/L	1
Bromoform	75-25-2	8260B	ND		20	13	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		40	16	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		200	41	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		20	1.9	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		20	2.7	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		40	6.6	ug/L	1
Chloroethane	75-00-3	8260B	ND		40	9.4	ug/L	1
Chloroform	67-66-3	8260B	ND		20	6.6	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		20	7.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		20	6.6	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		20	6.6	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	2.9	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		20	2.6	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	10	J	20	4.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2300		20	2.4	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	3.7	J	20	3.2	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		20	3.8	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		20	2.1	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		20	1.8	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		20	6.6	ug/L	1
2-Hexanone	591-78-6	8260B	ND		200	5.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	6.2	ug/L	1
Methylene chloride	75-09-2	8260B	ND		20	6.6	ug/L	1
Styrene	100-42-5	8260B	ND		20	2.4	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		20	3.3	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		20	2.6	ug/L	1
Toluene	108-88-3	8260B	ND		20	6.6	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		20	10	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		20	4.2	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		20	1.5	ug/L	1
Trichloroethene	79-01-6	8260B	ND		20	3.6	ug/L	1
Vinyl chloride	75-01-4	8260B	20		20	1.1	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		20	6.6	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-007
Description: HA01HMW21(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1106	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-007
Description: HA01HWMW21(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1106	
Date Received: 12/20/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1337	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1957	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1123	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.016	J	0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Dissolved Lead	7439-92-1	6010C	0.0054	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-007

Description: HA01HMW21(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 1106

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1335	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 1953	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1119	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.069		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.0043	J	0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.010		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.00010		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 31 of 68

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-008			
Description: HA01COEMW05(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1212							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/20/2014 1021	MJI		63607		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-008			
Description: HA01COEMW05(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1212							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 0443	PMM2		64227
2	5030B	8260B	5	12/31/2014 0113	PMM2		64324

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.46	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	1.1		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	180		5.0	0.61	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	0.26	J	1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	9.6		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-008
Description: HA01COEMW05(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1212	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130		100	70-130
Bromofluorobenzene		100	70-130		107	70-130
Toluene-d8		103	70-130		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-008

Description: HA01COEMW05(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 1212

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1339	HKB	12/30/2014 0946	64238
1	3005A	6010C	1	12/31/2014 2001	ECS	12/23/2014 1605	63839
2	3005A	6010C	1	01/02/2015 1127	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.026		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0059	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000037	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 35 of 68

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-009			
Description: HA01COEMW04(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1231							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/20/2014 1021	MJI		63607		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-009			
Description: HA01COEMW04(121914)				Matrix: Aqueous			
Date Sampled: 12/19/2014 1231							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/30/2014 0615	PMM2		64227

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		400	130	ug/L	1
Benzene	71-43-2	8260B	ND		20	2.6	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		20	6.6	ug/L	1
Bromoform	75-25-2	8260B	ND		20	13	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		40	16	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		200	41	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		20	1.9	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		20	2.7	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		40	6.6	ug/L	1
Chloroethane	75-00-3	8260B	ND		40	9.4	ug/L	1
Chloroform	67-66-3	8260B	ND		20	6.6	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		20	7.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		20	6.6	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		20	6.6	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	2.9	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		20	2.6	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	12	J	20	4.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1400		20	2.4	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		20	3.2	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		20	3.8	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		20	2.1	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		20	1.8	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		20	6.6	ug/L	1
2-Hexanone	591-78-6	8260B	ND		200	5.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	6.2	ug/L	1
Methylene chloride	75-09-2	8260B	ND		20	6.6	ug/L	1
Styrene	100-42-5	8260B	ND		20	2.4	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		20	3.3	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		20	2.6	ug/L	1
Toluene	108-88-3	8260B	ND		20	6.6	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		20	10	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		20	4.2	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		20	1.5	ug/L	1
Trichloroethene	79-01-6	8260B	ND		20	3.6	ug/L	1
Vinyl chloride	75-01-4	8260B	59		20	1.1	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		20	6.6	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-009
Description: HA01COEMW04(121914)	Matrix: Aqueous
Date Sampled: 12/19/2014 1231	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL20001-009

Description: HA01COEMW04(121914)

Matrix: Aqueous

Date Sampled: 12/19/2014 1231

Date Received: 12/20/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1341	HKB	12/30/2014 0946	64238
2	3005A	6010C	1	01/02/2015 1131	ECS	12/23/2014 1605	63839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	2
Barium	7440-39-3	6010C	0.019	J	0.025	0.0075	mg/L	2
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	2
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	2
Lead	7439-92-1	6010C	0.0044	J	0.010	0.0019	mg/L	2
Mercury	7439-97-6	7470A	0.000016	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	2
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 39 of 68

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL20001-010			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/19/2014							
Date Received: 12/20/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1141	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.25	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL20001-010
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/19/2014	
Date Received: 12/20/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63607-001

Matrix: Aqueous

Batch: 63607

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63607-002

Matrix: Aqueous

Batch: 63607

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.098		1	98	90-110	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL20001-009MS

Matrix: Aqueous

Batch: 63607

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	ND	N	1	0.00	75-125	12/20/2014 1021

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL20001-009MD

Matrix: Aqueous

Batch: 63607

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	ND	N	1	0.00	0.00	75-125	20	12/20/2014 1021

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: PQ63608-001

Matrix: Aqueous

Batch: 63608

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium - Dissolved	ND		1	0.020	0.0081	mg/L	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63608-002

Matrix: Aqueous

Batch: 63608

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	0.10	0.098		1	98	90-110	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 48 of 68
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL20001-007MS

Matrix: Aqueous

Batch: 63608

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	ND	N	1	0.00	75-125	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL20001-007MD

Matrix: Aqueous

Batch: 63608

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	ND	N	1	0.00	0.00	75-125	20	12/20/2014 1016

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64151-001

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/29/2014 1042
Benzene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Bromoform	ND		1	1.0	0.66	ug/L	12/29/2014 1042
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/29/2014 1042
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/29/2014 1042
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/29/2014 1042
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/29/2014 1042
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/29/2014 1042
Chloroethane	ND		1	2.0	0.47	ug/L	12/29/2014 1042
Chloroform	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/29/2014 1042
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/29/2014 1042
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/29/2014 1042
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/29/2014 1042
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/29/2014 1042
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/29/2014 1042
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/29/2014 1042
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
2-Hexanone	ND		1	10	0.27	ug/L	12/29/2014 1042
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/29/2014 1042
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/29/2014 1042
Methylene chloride	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Styrene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/29/2014 1042
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Toluene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/29/2014 1042
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/29/2014 1042
Trichloroethene	ND		1	1.0	0.18	ug/L	12/29/2014 1042
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/29/2014 1042
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		113	70-130				
1,2-Dichloroethane-d4		105	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64151-002

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	95		1	95	60-140	12/29/2014 0946
Benzene	50	44		1	89	70-130	12/29/2014 0946
Bromodichloromethane	50	45		1	90	70-130	12/29/2014 0946
Bromoform	50	49		1	99	70-130	12/29/2014 0946
Bromomethane (Methyl bromide)	50	52		1	103	60-140	12/29/2014 0946
2-Butanone (MEK)	100	95		1	95	60-140	12/29/2014 0946
Carbon disulfide	50	48		1	95	60-140	12/29/2014 0946
Carbon tetrachloride	50	47		1	94	70-130	12/29/2014 0946
Chlorobenzene	50	45		1	90	70-130	12/29/2014 0946
Chloroethane	50	53		1	107	42-163	12/29/2014 0946
Chloroform	50	45		1	90	70-130	12/29/2014 0946
Chloromethane (Methyl chloride)	50	54		1	107	60-140	12/29/2014 0946
Dibromochloromethane	50	47		1	94	70-130	12/29/2014 0946
1,4-Dichlorobenzene	50	44		1	87	70-130	12/29/2014 0946
1,3-Dichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,2-Dichlorobenzene	50	44		1	89	70-130	12/29/2014 0946
1,2-Dichloroethane	50	47		1	94	70-130	12/29/2014 0946
1,1-Dichloroethane	50	46		1	92	70-130	12/29/2014 0946
cis-1,2-Dichloroethene	50	45		1	89	70-130	12/29/2014 0946
trans-1,2-Dichloroethene	50	44		1	89	70-130	12/29/2014 0946
1,1-Dichloroethene	50	46		1	91	70-130	12/29/2014 0946
1,2-Dichloropropane	50	45		1	91	70-130	12/29/2014 0946
trans-1,3-Dichloropropene	50	47		1	94	70-130	12/29/2014 0946
cis-1,3-Dichloropropene	50	47		1	93	70-130	12/29/2014 0946
Ethylbenzene	50	46		1	93	70-130	12/29/2014 0946
2-Hexanone	100	93		1	93	60-140	12/29/2014 0946
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	12/29/2014 0946
4-Methyl-2-pentanone	100	95		1	95	60-140	12/29/2014 0946
Methylene chloride	50	43		1	87	70-130	12/29/2014 0946
Styrene	50	46		1	93	70-130	12/29/2014 0946
1,1,2,2-Tetrachloroethane	50	46		1	93	60-140	12/29/2014 0946
Tetrachloroethene	50	46		1	92	70-130	12/29/2014 0946
Toluene	50	44		1	89	70-130	12/29/2014 0946
1,2,4-Trichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,1,2-Trichloroethane	50	46		1	91	70-130	12/29/2014 0946
1,1,1-Trichloroethane	50	46		1	92	70-130	12/29/2014 0946
Trichloroethene	50	45		1	90	70-130	12/29/2014 0946
Vinyl chloride	50	53		1	105	70-130	12/29/2014 0946
Xylenes (total)	100	91		1	91	70-130	12/29/2014 0946
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		103	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL20001-001MS

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	500000	440000		5000	88	60-140	12/29/2014 1832
Benzene	ND	250000	230000		5000	92	72-127	12/29/2014 1832
Bromodichloromethane	ND	250000	230000		5000	93	71-143	12/29/2014 1832
Bromoform	ND	250000	250000		5000	99	65-131	12/29/2014 1832
Bromomethane (Methyl bromide)	ND	250000	270000		5000	110	36-168	12/29/2014 1832
2-Butanone (MEK)	ND	500000	460000		5000	92	60-140	12/29/2014 1832
Carbon disulfide	ND	250000	250000		5000	99	60-140	12/29/2014 1832
Carbon tetrachloride	ND	250000	240000		5000	97	37-166	12/29/2014 1832
Chlorobenzene	ND	250000	230000		5000	92	78-129	12/29/2014 1832
Chloroethane	ND	250000	280000		5000	114	60-140	12/29/2014 1832
Chloroform	ND	250000	240000		5000	94	63-123	12/29/2014 1832
Chloromethane (Methyl chloride)	ND	250000	290000		5000	115	20-158	12/29/2014 1832
Dibromochloromethane	ND	250000	240000		5000	97	74-134	12/29/2014 1832
1,4-Dichlorobenzene	ND	250000	220000		5000	88	70-130	12/29/2014 1832
1,3-Dichlorobenzene	ND	250000	220000		5000	89	70-130	12/29/2014 1832
1,2-Dichlorobenzene	ND	250000	230000		5000	91	70-130	12/29/2014 1832
1,2-Dichloroethane	ND	250000	240000		5000	97	59-143	12/29/2014 1832
1,1-Dichloroethane	ND	250000	240000		5000	98	69-132	12/29/2014 1832
trans-1,2-Dichloroethene	ND	250000	230000		5000	93	67-141	12/29/2014 1832
cis-1,2-Dichloroethene	110	250000	230000		5000	93	70-130	12/29/2014 1832
1,1-Dichloroethene	ND	250000	240000		5000	97	50-132	12/29/2014 1832
1,2-Dichloropropane	ND	250000	240000		5000	95	71-126	12/29/2014 1832
trans-1,3-Dichloropropene	ND	250000	230000		5000	94	73-131	12/29/2014 1832
cis-1,3-Dichloropropene	ND	250000	230000		5000	92	69-130	12/29/2014 1832
Ethylbenzene	ND	250000	230000		5000	94	79-132	12/29/2014 1832
2-Hexanone	ND	500000	470000		5000	95	60-140	12/29/2014 1832
Methyl tertiary butyl ether (MTBE)	ND	250000	240000		5000	95	60-140	12/29/2014 1832
4-Methyl-2-pentanone	ND	500000	480000		5000	95	60-140	12/29/2014 1832
Methylene chloride	ND	250000	230000		5000	92	69-129	12/29/2014 1832
Styrene	ND	250000	230000		5000	93	70-130	12/29/2014 1832
1,1,2,2-Tetrachloroethane	ND	250000	240000		5000	95	60-155	12/29/2014 1832
Tetrachloroethene	ND	250000	230000		5000	90	70-130	12/29/2014 1832
Toluene	ND	250000	220000		5000	89	75-125	12/29/2014 1832
1,2,4-Trichlorobenzene	ND	250000	220000		5000	88	70-130	12/29/2014 1832
1,1,2-Trichloroethane	ND	250000	230000		5000	93	77-132	12/29/2014 1832
1,1,1-Trichloroethane	ND	250000	240000		5000	97	77-132	12/29/2014 1832
Trichloroethene	ND	250000	230000		5000	92	73-124	12/29/2014 1832
Vinyl chloride	ND	250000	280000		5000	113	29-159	12/29/2014 1832
Xylenes (total)	ND	500000	460000		5000	91	70-130	12/29/2014 1832
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		104	70-130					
Bromofluorobenzene		111	70-130					
Toluene-d8		105	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL20001-001MD

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	500000	420000		5000	83	5.5	60-140	20	12/29/2014 1854
Benzene	ND	250000	230000		5000	92	0.021	72-127	20	12/29/2014 1854
Bromodichloromethane	ND	250000	230000		5000	92	1.2	71-143	20	12/29/2014 1854
Bromoform	ND	250000	250000		5000	100	1.3	65-131	20	12/29/2014 1854
Bromomethane (Methyl bromide)	ND	250000	280000		5000	113	3.1	36-168	20	12/29/2014 1854
2-Butanone (MEK)	ND	500000	450000		5000	91	1.5	60-140	20	12/29/2014 1854
Carbon disulfide	ND	250000	250000		5000	98	1.2	60-140	20	12/29/2014 1854
Carbon tetrachloride	ND	250000	240000		5000	98	0.81	37-166	20	12/29/2014 1854
Chlorobenzene	ND	250000	230000		5000	92	0.076	78-129	20	12/29/2014 1854
Chloroethane	ND	250000	290000		5000	118	3.5	60-140	20	12/29/2014 1854
Chloroform	ND	250000	240000		5000	95	1.0	63-123	20	12/29/2014 1854
Chloromethane (Methyl chloride)	ND	250000	290000		5000	118	2.4	20-158	20	12/29/2014 1854
Dibromochloromethane	ND	250000	240000		5000	97	0.27	74-134	20	12/29/2014 1854
1,4-Dichlorobenzene	ND	250000	230000		5000	90	2.3	70-130	20	12/29/2014 1854
1,3-Dichlorobenzene	ND	250000	230000		5000	91	1.7	70-130	20	12/29/2014 1854
1,2-Dichlorobenzene	ND	250000	230000		5000	93	2.0	70-130	20	12/29/2014 1854
1,2-Dichloroethane	ND	250000	240000		5000	98	1.0	59-143	20	12/29/2014 1854
1,1-Dichloroethane	ND	250000	250000		5000	99	1.3	69-132	20	12/29/2014 1854
trans-1,2-Dichloroethene	ND	250000	230000		5000	94	0.51	67-141	20	12/29/2014 1854
cis-1,2-Dichloroethene	110	250000	240000		5000	95	2.2	70-130	20	12/29/2014 1854
1,1-Dichloroethene	ND	250000	240000		5000	98	0.29	50-132	20	12/29/2014 1854
1,2-Dichloropropane	ND	250000	240000		5000	95	0.23	71-126	20	12/29/2014 1854
trans-1,3-Dichloropropene	ND	250000	240000		5000	95	1.2	73-131	20	12/29/2014 1854
cis-1,3-Dichloropropene	ND	250000	230000		5000	92	0.12	69-130	20	12/29/2014 1854
Ethylbenzene	ND	250000	230000		5000	93	0.33	79-132	20	12/29/2014 1854
2-Hexanone	ND	500000	470000		5000	93	1.9	60-140	20	12/29/2014 1854
Methyl tertiary butyl ether (MTBE)	ND	250000	240000		5000	96	0.47	60-140	20	12/29/2014 1854
4-Methyl-2-pentanone	ND	500000	470000		5000	95	0.52	60-140	20	12/29/2014 1854
Methylene chloride	ND	250000	230000		5000	92	0.21	69-129	20	12/29/2014 1854
Styrene	ND	250000	230000		5000	93	0.88	70-130	20	12/29/2014 1854
1,1,2,2-Tetrachloroethane	ND	250000	240000		5000	98	2.9	60-155	20	12/29/2014 1854
Tetrachloroethene	ND	250000	230000		5000	92	1.4	70-130	20	12/29/2014 1854
Toluene	ND	250000	220000		5000	89	0.017	75-125	20	12/29/2014 1854
1,2,4-Trichlorobenzene	ND	250000	230000		5000	92	4.7	70-130	20	12/29/2014 1854
1,1,2-Trichloroethane	ND	250000	240000		5000	94	1.5	77-132	20	12/29/2014 1854
1,1,1-Trichloroethane	ND	250000	240000		5000	97	0.52	77-132	20	12/29/2014 1854
Trichloroethene	ND	250000	230000		5000	92	0.51	73-124	20	12/29/2014 1854
Vinyl chloride	ND	250000	290000		5000	117	3.0	29-159	20	12/29/2014 1854
Xylenes (total)	ND	500000	460000		5000	92	1.1	70-130	20	12/29/2014 1854
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		104	70-130							
Bromofluorobenzene		111	70-130							
Toluene-d8		104	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64227-001

Matrix: Aqueous

Batch: 64227

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/29/2014 2309
Benzene	ND		1	1.0	0.13	ug/L	12/29/2014 2309
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Bromoform	ND		1	1.0	0.66	ug/L	12/29/2014 2309
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/29/2014 2309
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/29/2014 2309
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/29/2014 2309
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/29/2014 2309
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/29/2014 2309
Chloroethane	ND		1	2.0	0.47	ug/L	12/29/2014 2309
Chloroform	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/29/2014 2309
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/29/2014 2309
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/29/2014 2309
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/29/2014 2309
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/29/2014 2309
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/29/2014 2309
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/29/2014 2309
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/29/2014 2309
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/29/2014 2309
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
2-Hexanone	ND		1	10	0.27	ug/L	12/29/2014 2309
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/29/2014 2309
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/29/2014 2309
Methylene chloride	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Styrene	ND		1	1.0	0.12	ug/L	12/29/2014 2309
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/29/2014 2309
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/29/2014 2309
Toluene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/29/2014 2309
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/29/2014 2309
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/29/2014 2309
Trichloroethene	ND		1	1.0	0.18	ug/L	12/29/2014 2309
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/29/2014 2309
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64227-002

Matrix: Aqueous

Batch: 64227

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	91		1	91	60-140	12/29/2014 2145
Benzene	50	46		1	92	70-130	12/29/2014 2145
Bromodichloromethane	50	50		1	100	70-130	12/29/2014 2145
Bromoform	50	49		1	98	70-130	12/29/2014 2145
Bromomethane (Methyl bromide)	50	49		1	99	60-140	12/29/2014 2145
2-Butanone (MEK)	100	87		1	87	60-140	12/29/2014 2145
Carbon disulfide	50	47		1	93	60-140	12/29/2014 2145
Carbon tetrachloride	50	52		1	105	70-130	12/29/2014 2145
Chlorobenzene	50	48		1	95	70-130	12/29/2014 2145
Chloroethane	50	50		1	100	42-163	12/29/2014 2145
Chloroform	50	47		1	93	70-130	12/29/2014 2145
Chloromethane (Methyl chloride)	50	55		1	110	60-140	12/29/2014 2145
Dibromochloromethane	50	51		1	102	70-130	12/29/2014 2145
1,4-Dichlorobenzene	50	48		1	97	70-130	12/29/2014 2145
1,3-Dichlorobenzene	50	51		1	102	70-130	12/29/2014 2145
1,2-Dichlorobenzene	50	53		1	105	70-130	12/29/2014 2145
1,2-Dichloroethane	50	46		1	92	70-130	12/29/2014 2145
1,1-Dichloroethane	50	46		1	92	70-130	12/29/2014 2145
trans-1,2-Dichloroethene	50	47		1	95	70-130	12/29/2014 2145
cis-1,2-Dichloroethene	50	45		1	90	70-130	12/29/2014 2145
1,1-Dichloroethene	50	47		1	95	70-130	12/29/2014 2145
1,2-Dichloropropane	50	48		1	96	70-130	12/29/2014 2145
trans-1,3-Dichloropropene	50	49		1	98	70-130	12/29/2014 2145
cis-1,3-Dichloropropene	50	49		1	98	70-130	12/29/2014 2145
Ethylbenzene	50	49		1	97	70-130	12/29/2014 2145
2-Hexanone	100	96		1	96	60-140	12/29/2014 2145
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	12/29/2014 2145
4-Methyl-2-pentanone	100	96		1	96	60-140	12/29/2014 2145
Methylene chloride	50	43		1	86	70-130	12/29/2014 2145
Styrene	50	51		1	102	70-130	12/29/2014 2145
1,1,2,2-Tetrachloroethane	50	49		1	98	60-140	12/29/2014 2145
Tetrachloroethene	50	50		1	100	70-130	12/29/2014 2145
Toluene	50	49		1	98	70-130	12/29/2014 2145
1,2,4-Trichlorobenzene	50	58		1	116	70-130	12/29/2014 2145
1,1,2-Trichloroethane	50	47		1	94	70-130	12/29/2014 2145
1,1,1-Trichloroethane	50	50		1	99	70-130	12/29/2014 2145
Trichloroethene	50	48		1	96	70-130	12/29/2014 2145
Vinyl chloride	50	52		1	104	70-130	12/29/2014 2145
Xylenes (total)	100	98		1	98	70-130	12/29/2014 2145
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		106	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64324-001

Matrix: Aqueous

Batch: 64324

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/31/2014 0007
Benzene	ND		1	1.0	0.13	ug/L	12/31/2014 0007
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/31/2014 0007
Bromoform	ND		1	1.0	0.66	ug/L	12/31/2014 0007
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/31/2014 0007
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/31/2014 0007
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/31/2014 0007
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/31/2014 0007
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/31/2014 0007
Chloroethane	ND		1	2.0	0.47	ug/L	12/31/2014 0007
Chloroform	ND		1	1.0	0.33	ug/L	12/31/2014 0007
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/31/2014 0007
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/31/2014 0007
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/31/2014 0007
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/31/2014 0007
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/31/2014 0007
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/31/2014 0007
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/31/2014 0007
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/31/2014 0007
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/31/2014 0007
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/31/2014 0007
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/31/2014 0007
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/31/2014 0007
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/31/2014 0007
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/31/2014 0007
2-Hexanone	ND		1	10	0.27	ug/L	12/31/2014 0007
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/31/2014 0007
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/31/2014 0007
Methylene chloride	ND		1	1.0	0.33	ug/L	12/31/2014 0007
Styrene	ND		1	1.0	0.12	ug/L	12/31/2014 0007
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/31/2014 0007
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/31/2014 0007
Toluene	ND		1	1.0	0.33	ug/L	12/31/2014 0007
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/31/2014 0007
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/31/2014 0007
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/31/2014 0007
Trichloroethene	ND		1	1.0	0.18	ug/L	12/31/2014 0007
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/31/2014 0007
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/31/2014 0007
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		111	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64324-002

Matrix: Aqueous

Batch: 64324

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	107	60-140	12/30/2014 2250
Benzene	50	47		1	93	70-130	12/30/2014 2250
Bromodichloromethane	50	47		1	95	70-130	12/30/2014 2250
Bromoform	50	51		1	101	70-130	12/30/2014 2250
Bromomethane (Methyl bromide)	50	49		1	97	60-140	12/30/2014 2250
2-Butanone (MEK)	100	99		1	99	60-140	12/30/2014 2250
Carbon disulfide	50	49		1	98	60-140	12/30/2014 2250
Carbon tetrachloride	50	47		1	95	70-130	12/30/2014 2250
Chlorobenzene	50	47		1	94	70-130	12/30/2014 2250
Chloroethane	50	50		1	100	42-163	12/30/2014 2250
Chloroform	50	46		1	92	70-130	12/30/2014 2250
Chloromethane (Methyl chloride)	50	51		1	101	60-140	12/30/2014 2250
Dibromochloromethane	50	50		1	100	70-130	12/30/2014 2250
1,3-Dichlorobenzene	50	47		1	93	70-130	12/30/2014 2250
1,4-Dichlorobenzene	50	46		1	92	70-130	12/30/2014 2250
1,2-Dichlorobenzene	50	47		1	95	70-130	12/30/2014 2250
1,1-Dichloroethane	50	47		1	95	70-130	12/30/2014 2250
1,2-Dichloroethane	50	48		1	96	70-130	12/30/2014 2250
trans-1,2-Dichloroethene	50	46		1	91	70-130	12/30/2014 2250
cis-1,2-Dichloroethene	50	46		1	92	70-130	12/30/2014 2250
1,1-Dichloroethene	50	48		1	96	70-130	12/30/2014 2250
1,2-Dichloropropane	50	48		1	96	70-130	12/30/2014 2250
cis-1,3-Dichloropropene	50	48		1	97	70-130	12/30/2014 2250
trans-1,3-Dichloropropene	50	49		1	98	70-130	12/30/2014 2250
Ethylbenzene	50	48		1	97	70-130	12/30/2014 2250
2-Hexanone	100	99		1	99	60-140	12/30/2014 2250
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	12/30/2014 2250
4-Methyl-2-pentanone	100	100		1	100	60-140	12/30/2014 2250
Methylene chloride	50	45		1	91	70-130	12/30/2014 2250
Styrene	50	48		1	96	70-130	12/30/2014 2250
1,1,2,2-Tetrachloroethane	50	49		1	98	60-140	12/30/2014 2250
Tetrachloroethene	50	48		1	95	70-130	12/30/2014 2250
Toluene	50	46		1	92	70-130	12/30/2014 2250
1,2,4-Trichlorobenzene	50	48		1	95	70-130	12/30/2014 2250
1,1,1-Trichloroethane	50	46		1	93	70-130	12/30/2014 2250
1,1,2-Trichloroethane	50	48		1	95	70-130	12/30/2014 2250
Trichloroethene	50	48		1	96	70-130	12/30/2014 2250
Vinyl chloride	50	50		1	100	70-130	12/30/2014 2250
Xylenes (total)	100	95		1	95	70-130	12/30/2014 2250
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		108	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		104	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63839-001

Matrix: Aqueous

Batch: 63839

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.010	0.0040	mg/L	12/31/2014 1814
Barium	ND		1	0.025	0.0075	mg/L	12/31/2014 1814
Cadmium	ND		1	0.0020	0.00060	mg/L	12/31/2014 1814
Chromium	ND		1	0.0050	0.0021	mg/L	01/02/2015 0938
Lead	ND		1	0.010	0.0019	mg/L	12/31/2014 1814
Selenium	ND		1	0.010	0.0026	mg/L	12/31/2014 1814
Silver	ND		1	0.0050	0.00040	mg/L	12/31/2014 1814

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63839-002

Matrix: Aqueous

Batch: 63839

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.42		5	104	80-120	12/31/2014 1818
Barium	2.0	2.2		5	108	80-120	12/31/2014 1818
Cadmium	0.40	0.43		5	107	80-120	12/31/2014 1818
Chromium	2.0	2.0		1	101	80-120	01/02/2015 0942
Lead	0.40	0.44		5	111	80-120	12/31/2014 1818
Selenium	0.40	0.45		5	112	80-120	12/31/2014 1818
Silver	0.40	0.37		5	93	80-120	12/31/2014 1818

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 60 of 68

Level 1 Report v2.1

Dissolved RCRA Metals - MB

Sample ID: PQ63839-001

Matrix: Aqueous

Batch: 63839

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Arsenic	ND		1	0.010	0.0040	mg/L	12/31/2014 1814
Dissolved Barium	ND		1	0.025	0.0075	mg/L	12/31/2014 1814
Dissolved Cadmium	ND		1	0.0020	0.00060	mg/L	12/31/2014 1814
Dissolved Chromium	ND		1	0.0050	0.0021	mg/L	01/02/2015 0938
Dissolved Lead	ND		1	0.010	0.0019	mg/L	12/31/2014 1814
Dissolved Selenium	ND		1	0.010	0.0026	mg/L	12/31/2014 1814
Dissolved Silver	ND		1	0.0050	0.00040	mg/L	12/31/2014 1814

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ63839-002

Matrix: Aqueous

Batch: 63839

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	0.40	0.42		5	104	80-120	12/31/2014 1818
Dissolved Barium	2.0	2.2		5	108	80-120	12/31/2014 1818
Dissolved Cadmium	0.40	0.43		5	107	80-120	12/31/2014 1818
Dissolved Chromium	2.0	2.0		1	101	80-120	01/02/2015 0942
Dissolved Lead	0.40	0.44		5	111	80-120	12/31/2014 1818
Dissolved Selenium	0.40	0.45		5	112	80-120	12/31/2014 1818
Dissolved Silver	0.40	0.37		5	93	80-120	12/31/2014 1818

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64238-001

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/30/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64238-002

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	96	85-115	12/30/2014 1317

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MS

Sample ID: PL20001-001MS

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0019		1	94	85-115	12/30/2014 1320

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MSD

Sample ID: PL20001-001MD

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.0020	0.0019		1	95	0.84	85-115	20	12/30/2014 1322

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 66 of 68
Level 1 Report v2.1

Dissolved RCRA Metals - MB

Sample ID: PQ64238-001

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Mercury	ND		1	0.00010	0.000015	mg/L	12/30/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ64238-002

Matrix: Aqueous

Batch: 64238

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	0.0020	0.0019		1	96	85-115	12/30/2014 1317

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 68 of 68
Level 1 Report v2.1



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43713

Client	Report to Contact	Telephone No. / E-mail	Quote No.
ARCADIS	Scott Bastian	Scott.Bastian@arcadis-us.com	
Address	Analysis (Attach list if more space is needed)		
801 Corporate Center Dr. #300			
City	State	Zip Code	Page 1 of 1
Raleigh	NC	27607	
Project Name	Contract Name	Contract No.	
HAA-01	Jerry Fine / Danny May	PL20001	
Project No.	P.O. No.	Material	No. of Containers by Preservative Type
10153001.0001.00001			
Sample ID / Description	Date	Time	
(Containers for each sample may be combined on one line.)			
HAA1COEMW08(121914)	12/19/14	0911	2 2 3
HAA1MW120(121914)		1011	3
HAA1MW12(121914)		1017	1 1 3
HAA1COEMW06(121914)		1137	1 1 3
HAA1MW13(121914)		0922	1 1 3
HAA1COEMW07(121914)		1006	3
HAA1HMW21(121914)		1106	2 2 3
HAA1COEMW05(121914)		1212	1 1 3
HAA1COEMW04(121914)		1231	1 1 3
TRIP BLANK			2
Turn Around Time Required (Prior lab approval required for expedited TAT.)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
Standard ☒ Rush ☐ (Specify)	☐ Return to Client ☒ Discard by Lab	1. Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	
1. Relinquished by	Date	Time	Date
	12/19/14	1500	
2. Relinquished by	Date	Time	Date
3. Relinquished by	Date	Time	Date
4. Relinquished by	Date	Time	Date
FedEx	12/20/14	0840	12/20/14 0840
Note: All samples are retained for four weeks from receipt unless other arrangements are made.			
Received on (Date) 12/23/14 No. of Pack 23 Receipt Temp. 23 °C			

Remarks / Cooler ID.

Mobile Tolu + Disposal

DISTRIBUTION: WHITE & YELLOW-Return to Laboratory with Samples(s); PINK-Field/Client Copy

Document Number: F-AU-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Arcadis Cooler Inspected by/date: mam/12/01/14 Lot #: 9220001

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☐	No ☒	1. Were custody seals present on the cooler?
Yes ☐	No ☐	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>18.5/24/23</u> °C / / °C / / °C / / °C		
Method: ☒ Temperature Blank ☐ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: <u>0.4</u> °C		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Yes ☐	No ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☒	No ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☒	No ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☒	5a Were samples relinquished by client to commercial courier?
Yes ☒	No ☐	6. Were sample IDs listed on the COC?
Yes ☒	No ☐	7. Were sample IDs listed on all sample containers?
Yes ☒	No ☐	8. Was collection date & time listed on the COC?
Yes ☒	No ☐	9. Was collection date & time listed on all sample containers?
Yes ☒	No ☐	10. Did all container label information (ID, date, time) agree with the COC?
Yes ☒	No ☐	11. Were tests to be performed listed on the COC?
Yes ☒	No ☐	12. Did all samples arrive in the proper containers for each test?
Yes ☒	No ☐	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒	No ☐	14. Was adequate sample volume available?
Yes ☒	No ☐	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☒	16. Were any samples containers missing?
Yes ☐	No ☒	17. Were there any excess samples not listed on COC?
Yes ☐	No ☒	18. Were bubbles present > "pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☒	No ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☒	24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) using SR # _____.		
Sample(s) _____ were received with bubbles > 6 mm in diameter.		
Sample(s) _____ were received with TRC > 0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>mam</u> Verified by: _____ Date: <u>12/01/14</u>		

Comments:

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: HAA-01

Project Number: 1015300.0001.DE001

Lot Number: PL24008

Date Completed: 01/08/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL 24008 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL24008

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batches 63961 and 64178 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Semivolatile Organic Compounds

LCS recovery for many compounds was outside method control limits in batch 64194. The associated sample is -004. No sample remained for re-extraction.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL24008

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01COEMW02(122314)	Aqueous	12/23/2014 0951	12/24/2014
002	HA01COEMW03(122314)	Aqueous	12/23/2014 1051	12/24/2014
003	HA01HMW14R(122314)	Aqueous	12/23/2014 1151	12/24/2014
004	HA01HMW09(122314)	Aqueous	12/23/2014 1036	12/24/2014
005	HA01MW09(122314)	Aqueous	12/23/2014 0922	12/24/2014
006	HA01HMW08(122314)	Aqueous	12/23/2014 1142	12/24/2014
007	HA01COEMW01(122214)	Aqueous	12/22/2014 1611	12/24/2014
008	HA01MW10(122214)	Aqueous	12/22/2014 1642	12/24/2014
009	HA01MW11(122214)	Aqueous	12/22/2014 1550	12/24/2014
010	TRIP BLANK	Aqueous	12/23/2014	12/24/2014

(10 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL24008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HA01COEMW02(122314)	Aqueous	Benzene	8260B	0.99	J	ug/L	6
001	HA01COEMW02(122314)	Aqueous	trans-1,2-Dichloroethene	8260B	2.1		ug/L	6
001	HA01COEMW02(122314)	Aqueous	cis-1,2-Dichloroethene	8260B	51		ug/L	6
001	HA01COEMW02(122314)	Aqueous	2-Hexanone	8260B	1.2	J	ug/L	6
001	HA01COEMW02(122314)	Aqueous	Vinyl chloride	8260B	0.31	J	ug/L	6
001	HA01COEMW02(122314)	Aqueous	Aldrin	8081B	0.0065	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	gamma-BHC (Lindane)	8081B	0.0090	J	ug/L	8
001	HA01COEMW02(122314)	Aqueous	alpha-BHC	8081B	0.0032	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	beta-BHC	8081B	0.020	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	delta-BHC	8081B	0.013	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	gamma-Chlordane	8081B	0.0022	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	Endosulfan sulfate	8081B	0.010	JP	ug/L	8
001	HA01COEMW02(122314)	Aqueous	Endrin	8081B	0.0035	J	ug/L	8
001	HA01COEMW02(122314)	Aqueous	Endrin aldehyde	8081B	0.0054	BJP	ug/L	8
002	HA01COEMW03(122314)	Aqueous	Benzene	8260B	3.1	J	ug/L	10
002	HA01COEMW03(122314)	Aqueous	trans-1,2-Dichloroethene	8260B	98		ug/L	10
002	HA01COEMW03(122314)	Aqueous	cis-1,2-Dichloroethene	8260B	1900		ug/L	10
002	HA01COEMW03(122314)	Aqueous	Toluene	8260B	6.9	J	ug/L	10
002	HA01COEMW03(122314)	Aqueous	Vinyl chloride	8260B	120		ug/L	10
002	HA01COEMW03(122314)	Aqueous	Dissolved Barium	6010C	0.064		mg/L	13
002	HA01COEMW03(122314)	Aqueous	Dissolved Silver	6010C	0.00040	J	mg/L	13
002	HA01COEMW03(122314)	Aqueous	Barium	6010C	0.062		mg/L	14
002	HA01COEMW03(122314)	Aqueous	Chromium	6010C	0.0043	J	mg/L	14
002	HA01COEMW03(122314)	Aqueous	Mercury	7470A	0.000018	J	mg/L	14
002	HA01COEMW03(122314)	Aqueous	Silver	6010C	0.00066	J	mg/L	14
003	HA01HMW14R(122314)	Aqueous	trans-1,2-Dichloroethene	8260B	3.4		ug/L	15
003	HA01HMW14R(122314)	Aqueous	cis-1,2-Dichloroethene	8260B	27		ug/L	15
003	HA01HMW14R(122314)	Aqueous	Trichloroethene	8260B	0.30	J	ug/L	15
003	HA01HMW14R(122314)	Aqueous	Aldrin	8081B	0.0018	JP	ug/L	17
003	HA01HMW14R(122314)	Aqueous	gamma-BHC (Lindane)	8081B	0.0039	J	ug/L	17
003	HA01HMW14R(122314)	Aqueous	beta-BHC	8081B	0.0058	JP	ug/L	17
003	HA01HMW14R(122314)	Aqueous	delta-BHC	8081B	0.0095	JP	ug/L	17
003	HA01HMW14R(122314)	Aqueous	gamma-Chlordane	8081B	0.0018	JP	ug/L	17
003	HA01HMW14R(122314)	Aqueous	Endosulfan sulfate	8081B	0.0017	JP	ug/L	17
003	HA01HMW14R(122314)	Aqueous	Endrin aldehyde	8081B	0.0082	BJ	ug/L	17
003	HA01HMW14R(122314)	Aqueous	Heptachlor epoxide	8081B	0.0023	JP	ug/L	17
004	HA01HMW09(122314)	Aqueous	Benzene	8260B	0.44	J	ug/L	18
004	HA01HMW09(122314)	Aqueous	Ethylbenzene	8260B	0.83	J	ug/L	18
004	HA01HMW09(122314)	Aqueous	2-Methylnaphthalene	8270D	0.21	J	ug/L	20
004	HA01HMW09(122314)	Aqueous	Naphthalene	8270D	4.1		ug/L	21
005	HA01MW09(122314)	Aqueous	Toluene	8260B	1.4		ug/L	22
005	HA01MW09(122314)	Aqueous	gamma-BHC (Lindane)	8081B	0.014	J	ug/L	24
005	HA01MW09(122314)	Aqueous	alpha-BHC	8081B	0.021	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	beta-BHC	8081B	0.079		ug/L	24
005	HA01MW09(122314)	Aqueous	delta-BHC	8081B	0.0061	JP	ug/L	24

Executive Summary (Continued)

Lot Number: PL24008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	HA01MW09(122314)	Aqueous	gamma-Chlordane	8081B	0.0028	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	4,4'-DDD	8081B	0.0064	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	Dieldrin	8081B	0.0032	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	Endosulfan sulfate	8081B	0.0071	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	Endrin	8081B	0.017	JP	ug/L	24
005	HA01MW09(122314)	Aqueous	Endrin aldehyde	8081B	0.011	BJP	ug/L	24
005	HA01MW09(122314)	Aqueous	Methoxychlor	8081B	0.021	J	ug/L	24
007	HA01COEMW01(122214)	Aqueous	cis-1,2-Dichloroethene	8260B	2.5		ug/L	27
007	HA01COEMW01(122214)	Aqueous	Aldrin	8081B	0.0080	J	ug/L	29
007	HA01COEMW01(122214)	Aqueous	gamma-BHC (Lindane)	8081B	0.0043	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	alpha-BHC	8081B	0.0031	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	beta-BHC	8081B	0.018	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	delta-BHC	8081B	0.013	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	gamma-Chlordane	8081B	0.0029	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	Dieldrin	8081B	0.0015	J	ug/L	29
007	HA01COEMW01(122214)	Aqueous	Endrin aldehyde	8081B	0.0062	BJP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	Heptachlor epoxide	8081B	0.0043	JP	ug/L	29
007	HA01COEMW01(122214)	Aqueous	Methoxychlor	8081B	0.0084	J	ug/L	29

(63 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-001			
Description: HA01COEMW02(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 0951							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 0457	PMM2		64226

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.99	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	2.1		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	51		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	1.2	J	10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	0.31	J	1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-001
Description: HA01COEMW02(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 0951	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-001
Description: HA01COEMW02(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 0951	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	01/06/2015 1202	MEM	12/29/2014 1702	64188

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	0.0065	JP	0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0090	J	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0032	JP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.020	JP	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.013	JP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0022	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.010	JP	0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	0.0035	J	0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.0054	BJP	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		47	10-122					
Tetrachloro-m-xylene		59	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis is reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-002			
Description: HA01COEMW03(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 1051							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/24/2014 1332	BWS		63961
1		(Hexavalent C) 7196A	1	12/24/2014 1332	BLB		64178

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-002			
Description: HA01COEMW03(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 1051							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/30/2014 0625	PMM2		64226

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		400	130	ug/L	1
Benzene	71-43-2	8260B	3.1	J	20	2.6	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		20	6.6	ug/L	1
Bromoform	75-25-2	8260B	ND		20	13	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		40	16	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		200	41	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		20	1.9	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		20	2.7	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		40	6.6	ug/L	1
Chloroethane	75-00-3	8260B	ND		40	9.4	ug/L	1
Chloroform	67-66-3	8260B	ND		20	6.6	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		20	7.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		20	6.6	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		20	6.6	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		20	6.6	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	2.9	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		20	2.6	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	98		20	4.1	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1900		20	2.4	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		20	3.2	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		20	3.8	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		20	2.1	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		20	1.8	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		20	6.6	ug/L	1
2-Hexanone	591-78-6	8260B	ND		200	5.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	6.2	ug/L	1
Methylene chloride	75-09-2	8260B	ND		20	6.6	ug/L	1
Styrene	100-42-5	8260B	ND		20	2.4	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		20	3.3	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		20	2.6	ug/L	1
Toluene	108-88-3	8260B	6.9	J	20	6.6	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		20	10	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		20	4.2	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		20	1.5	ug/L	1
Trichloroethene	79-01-6	8260B	ND		20	3.6	ug/L	1
Vinyl chloride	75-01-4	8260B	120		20	1.1	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		20	6.6	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-002
Description: HA01COEMW03(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1051	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-002
Description: HA01COEMW03(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1051	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/30/2014 0625	ALL		64417

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,4-Dioxane	123-91-1	8260B	ND		100	34	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-002
Description: HA01COEMW03(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1051	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1313	HKB	12/30/2014 0946	64240
1	3005A	6010C	1	01/01/2015 0010	RKT	12/26/2014 0912	63991

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.064		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	0.00040	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL24008-002

Description: HA01COEMW03(122314)

Matrix: Aqueous

Date Sampled: 12/23/2014 1051

Date Received: 12/24/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/30/2014 1304	HKB	12/30/2014 0946	64240
1	3005A	6010C	1	01/01/2015 0005	RKT	12/26/2014 0912	63991

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.062		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.0043	J	0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000018	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	0.00066	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 74

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-003			
Description: HA01HMW14R(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 1151							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1358	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	3.4		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	27		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	0.30	J	1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL24008-003

Description: HA01HMW14R(122314)

Matrix: Aqueous

Date Sampled: 12/23/2014 1151

Date Received: 12/24/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 16 of 74

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-003
Description: HA01HMW14R(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1151	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	01/06/2015 1245	MEM	12/29/2014 1702	64188

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	0.0018	JP	0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0039	J	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.0058	JP	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0095	JP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0018	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.0017	JP	0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.0082	BJ	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	0.0023	JP	0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		51	10-122					
Tetrachloro-m-xylene		65	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-004			
Description: HA01HMW09(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 1036							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1420	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.44	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.83	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-004
Description: HA01HMW09(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1036	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL24008-004

Description: HA01HMW09(122314)

Matrix: Aqueous

Date Sampled: 12/23/2014 1036

Date Received: 12/24/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	01/02/2015 1517	DRB1	12/29/2014 1637	64194		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	0.21	J	1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 20 of 74

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL24008-004

Description: HA01HMW09(122314)

Matrix: Aqueous

Date Sampled: 12/23/2014 1036

Date Received: 12/24/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	01/02/2015 1517	DRB1	12/29/2014 1637	64194

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	4.1		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		106	37-129					
2-Fluorophenol		92	24-127					
Nitrobenzene-d5		89	38-127					
Phenol-d5		95	28-128					
Terphenyl-d14		106	10-148					
2,4,6-Tribromophenol		112	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 21 of 74

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-005
Description: HA01MW09(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 0922	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1442	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	1.4		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-005
Description: HA01MW09(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 0922	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-005
Description: HA01MW09(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 0922	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	01/06/2015 1259	MEM	12/29/2014 1702	64188

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.014	J	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.021	JP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.079		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0061	JP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0028	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	0.0064	JP	0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	0.0032	JP	0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.0071	JP	0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	0.017	JP	0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.011	BJP	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.021	J	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		49	10-122					
Tetrachloro-m-xylene		76	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-006			
Description: HA01HMW08(122314)				Matrix: Aqueous			
Date Sampled: 12/23/2014 1142							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1503	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis is reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-006
Description: HA01HMW08(122314)	Matrix: Aqueous
Date Sampled: 12/23/2014 1142	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-007			
Description: HA01COEMW01(122214)				Matrix: Aqueous			
Date Sampled: 12/22/2014 1611							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1525	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.5		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-007
Description: HA01COEMW01(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1611	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-007
Description: HA01COEMW01(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1611	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	01/06/2015 1314	MEM	12/29/2014 1702	64188

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	0.0080	J	0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0043	JP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0031	JP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.018	JP	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.013	JP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0029	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	0.0015	J	0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.0062	BJP	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	0.0043	JP	0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.0084	J	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		49	10-122					
Tetrachloro-m-xylene		65	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-008
Description: HA01MW10(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1642	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1546	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-008
Description: HA01MW10(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1642	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-009
Description: HA01MW11(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1550	
Date Received: 12/24/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1608	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-009
Description: HA01MW11(122214)	Matrix: Aqueous
Date Sampled: 12/22/2014 1550	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL24008-010			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/23/2014							
Date Received: 12/24/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/30/2014 1337	PAP		64288

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL24008-010
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/23/2014	
Date Received: 12/24/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63961-001

Matrix: Aqueous

Batch: 63961

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63961-002

Matrix: Aqueous

Batch: 63961

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.090		1	90	90-110	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 38 of 74
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL24008-002MS

Matrix: Aqueous

Batch: 63961

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	ND	N	1	0.00	75-125	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL24008-002MD

Matrix: Aqueous

Batch: 63961

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	ND	N	1	0.00	0.00	75-125	20	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: PQ64178-001

Matrix: Aqueous

Batch: 64178

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium - Dissolved	ND		1	0.020	0.0081	mg/L	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ64178-002

Matrix: Aqueous

Batch: 64178

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	0.10	0.090		1	90	90-110	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL24008-002MS

Matrix: Aqueous

Batch: 64178

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0019	N	1	1.9	75-125	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 43 of 74
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL24008-002MD

Matrix: Aqueous

Batch: 64178

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0018	N	1	1.8	5.6	75-125	20	12/24/2014 1332

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 44 of 74
Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64226-001

Matrix: Aqueous

Batch: 64226

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/29/2014 2309
Benzene	ND		1	1.0	0.13	ug/L	12/29/2014 2309
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Bromoform	ND		1	1.0	0.66	ug/L	12/29/2014 2309
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/29/2014 2309
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/29/2014 2309
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/29/2014 2309
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/29/2014 2309
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/29/2014 2309
Chloroethane	ND		1	2.0	0.47	ug/L	12/29/2014 2309
Chloroform	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/29/2014 2309
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/29/2014 2309
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/29/2014 2309
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/29/2014 2309
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/29/2014 2309
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/29/2014 2309
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/29/2014 2309
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/29/2014 2309
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/29/2014 2309
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
2-Hexanone	ND		1	10	0.27	ug/L	12/29/2014 2309
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/29/2014 2309
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/29/2014 2309
Methylene chloride	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Styrene	ND		1	1.0	0.12	ug/L	12/29/2014 2309
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/29/2014 2309
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/29/2014 2309
Toluene	ND		1	1.0	0.33	ug/L	12/29/2014 2309
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/29/2014 2309
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/29/2014 2309
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/29/2014 2309
Trichloroethene	ND		1	1.0	0.18	ug/L	12/29/2014 2309
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/29/2014 2309
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/29/2014 2309
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		109	70-130				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64226-002

Matrix: Aqueous

Batch: 64226

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	106	60-140	12/29/2014 2149
Benzene	50	45		1	90	70-130	12/29/2014 2149
Bromodichloromethane	50	47		1	94	70-130	12/29/2014 2149
Bromoform	50	51		1	103	70-130	12/29/2014 2149
Bromomethane (Methyl bromide)	50	53		1	107	60-140	12/29/2014 2149
2-Butanone (MEK)	100	100		1	100	60-140	12/29/2014 2149
Carbon disulfide	50	49		1	99	60-140	12/29/2014 2149
Carbon tetrachloride	50	47		1	95	70-130	12/29/2014 2149
Chlorobenzene	50	47		1	93	70-130	12/29/2014 2149
Chloroethane	50	55		1	109	42-163	12/29/2014 2149
Chloroform	50	46		1	93	70-130	12/29/2014 2149
Chloromethane (Methyl chloride)	50	56		1	112	60-140	12/29/2014 2149
Dibromochloromethane	50	49		1	98	70-130	12/29/2014 2149
1,3-Dichlorobenzene	50	47		1	94	70-130	12/29/2014 2149
1,4-Dichlorobenzene	50	47		1	94	70-130	12/29/2014 2149
1,2-Dichlorobenzene	50	48		1	96	70-130	12/29/2014 2149
1,2-Dichloroethane	50	49		1	98	70-130	12/29/2014 2149
1,1-Dichloroethane	50	47		1	94	70-130	12/29/2014 2149
cis-1,2-Dichloroethene	50	46		1	92	70-130	12/29/2014 2149
trans-1,2-Dichloroethene	50	45		1	90	70-130	12/29/2014 2149
1,1-Dichloroethene	50	47		1	95	70-130	12/29/2014 2149
1,2-Dichloropropane	50	47		1	94	70-130	12/29/2014 2149
trans-1,3-Dichloropropene	50	48		1	97	70-130	12/29/2014 2149
cis-1,3-Dichloropropene	50	48		1	95	70-130	12/29/2014 2149
Ethylbenzene	50	48		1	96	70-130	12/29/2014 2149
2-Hexanone	100	100		1	101	60-140	12/29/2014 2149
Methyl tertiary butyl ether (MTBE)	50	48		1	97	70-130	12/29/2014 2149
4-Methyl-2-pentanone	100	100		1	101	60-140	12/29/2014 2149
Methylene chloride	50	45		1	90	70-130	12/29/2014 2149
Styrene	50	48		1	97	70-130	12/29/2014 2149
1,1,2,2-Tetrachloroethane	50	51		1	101	60-140	12/29/2014 2149
Tetrachloroethene	50	47		1	93	70-130	12/29/2014 2149
Toluene	50	45		1	90	70-130	12/29/2014 2149
1,2,4-Trichlorobenzene	50	50		1	100	70-130	12/29/2014 2149
1,1,1-Trichloroethane	50	47		1	94	70-130	12/29/2014 2149
1,1,2-Trichloroethane	50	48		1	96	70-130	12/29/2014 2149
Trichloroethene	50	46		1	91	70-130	12/29/2014 2149
Vinyl chloride	50	55		1	109	70-130	12/29/2014 2149
Xylenes (total)	100	95		1	95	70-130	12/29/2014 2149
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL24008-002MS

Matrix: Aqueous

Batch: 64226

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	2000	1700		20	85	60-140	12/30/2014 0647
Benzene	3.1	1000	960		20	96	72-127	12/30/2014 0647
Bromodichloromethane	ND	1000	970		20	97	71-143	12/30/2014 0647
Bromoform	ND	1000	1000		20	102	65-131	12/30/2014 0647
Bromomethane (Methyl bromide)	ND	1000	1100		20	112	36-168	12/30/2014 0647
2-Butanone (MEK)	ND	2000	1900		20	96	60-140	12/30/2014 0647
Carbon disulfide	ND	1000	1100		20	105	60-140	12/30/2014 0647
Carbon tetrachloride	ND	1000	1000		20	101	37-166	12/30/2014 0647
Chlorobenzene	ND	1000	970		20	97	78-129	12/30/2014 0647
Chloroethane	ND	1000	1200		20	117	60-140	12/30/2014 0647
Chloroform	ND	1000	960		20	96	63-123	12/30/2014 0647
Chloromethane (Methyl chloride)	ND	1000	1200		20	119	20-158	12/30/2014 0647
Dibromochloromethane	ND	1000	1000		20	101	74-134	12/30/2014 0647
1,4-Dichlorobenzene	ND	1000	990		20	99	70-130	12/30/2014 0647
1,3-Dichlorobenzene	ND	1000	990		20	99	70-130	12/30/2014 0647
1,2-Dichlorobenzene	ND	1000	1000		20	101	70-130	12/30/2014 0647
1,2-Dichloroethane	ND	1000	990		20	99	59-143	12/30/2014 0647
1,1-Dichloroethane	ND	1000	990		20	99	69-132	12/30/2014 0647
trans-1,2-Dichloroethene	98	1000	1100		20	96	67-141	12/30/2014 0647
cis-1,2-Dichloroethene	1900	1000	2800		20	91	70-130	12/30/2014 0647
1,1-Dichloroethene	ND	1000	1000		20	102	50-132	12/30/2014 0647
1,2-Dichloropropane	ND	1000	990		20	99	71-126	12/30/2014 0647
trans-1,3-Dichloropropene	ND	1000	970		20	97	73-131	12/30/2014 0647
cis-1,3-Dichloropropene	ND	1000	960		20	96	69-130	12/30/2014 0647
Ethylbenzene	ND	1000	1000		20	102	79-132	12/30/2014 0647
2-Hexanone	ND	2000	2000		20	100	60-140	12/30/2014 0647
Methyl tertiary butyl ether (MTBE)	ND	1000	980		20	98	60-140	12/30/2014 0647
4-Methyl-2-pentanone	ND	2000	2000		20	102	60-140	12/30/2014 0647
Methylene chloride	ND	1000	930		20	93	69-129	12/30/2014 0647
Styrene	ND	1000	1000		20	101	70-130	12/30/2014 0647
1,1,2,2-Tetrachloroethane	ND	1000	1000		20	104	60-155	12/30/2014 0647
Tetrachloroethene	ND	1000	990		20	99	70-130	12/30/2014 0647
Toluene	6.9	1000	950		20	94	75-125	12/30/2014 0647
1,2,4-Trichlorobenzene	ND	1000	1000		20	100	70-130	12/30/2014 0647
1,1,2-Trichloroethane	ND	1000	990		20	99	77-132	12/30/2014 0647
1,1,1-Trichloroethane	ND	1000	1000		20	101	77-132	12/30/2014 0647
Trichloroethene	ND	1000	970		20	97	73-124	12/30/2014 0647
Vinyl chloride	120	1000	1300		20	116	29-159	12/30/2014 0647
Xylenes (total)	ND	2000	2000		20	100	70-130	12/30/2014 0647
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		105	70-130					
Bromofluorobenzene		111	70-130					
Toluene-d8		106	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL24008-002MD

Matrix: Aqueous

Batch: 64226

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	2000	1700		20	83	2.7	60-140	20	12/30/2014 0709
Benzene	3.1	1000	950		20	95	1.1	72-127	20	12/30/2014 0709
Bromodichloromethane	ND	1000	960		20	96	0.84	71-143	20	12/30/2014 0709
Bromoform	ND	1000	1000		20	103	1.1	65-131	20	12/30/2014 0709
Bromomethane (Methyl bromide)	ND	1000	1100		20	114	1.4	36-168	20	12/30/2014 0709
2-Butanone (MEK)	ND	2000	1900		20	94	2.4	60-140	20	12/30/2014 0709
Carbon disulfide	ND	1000	1000		20	104	0.81	60-140	20	12/30/2014 0709
Carbon tetrachloride	ND	1000	1000		20	102	0.58	37-166	20	12/30/2014 0709
Chlorobenzene	ND	1000	970		20	97	0.10	78-129	20	12/30/2014 0709
Chloroethane	ND	1000	1200		20	117	0.11	60-140	20	12/30/2014 0709
Chloroform	ND	1000	970		20	97	0.96	63-123	20	12/30/2014 0709
Chloromethane (Methyl chloride)	ND	1000	1200		20	119	0.37	20-158	20	12/30/2014 0709
Dibromochloromethane	ND	1000	1000		20	100	1.1	74-134	20	12/30/2014 0709
1,4-Dichlorobenzene	ND	1000	960		20	96	2.5	70-130	20	12/30/2014 0709
1,3-Dichlorobenzene	ND	1000	970		20	97	2.3	70-130	20	12/30/2014 0709
1,2-Dichlorobenzene	ND	1000	990		20	99	1.9	70-130	20	12/30/2014 0709
1,2-Dichloroethane	ND	1000	990		20	99	0.24	59-143	20	12/30/2014 0709
1,1-Dichloroethane	ND	1000	1000		20	100	1.1	69-132	20	12/30/2014 0709
trans-1,2-Dichloroethene	98	1000	1100		20	96	0.32	67-141	20	12/30/2014 0709
cis-1,2-Dichloroethene	1900	1000	2800		20	88	1.1	70-130	20	12/30/2014 0709
1,1-Dichloroethene	ND	1000	1000		20	100	1.8	50-132	20	12/30/2014 0709
1,2-Dichloropropane	ND	1000	980		20	98	1.5	71-126	20	12/30/2014 0709
trans-1,3-Dichloropropene	ND	1000	970		20	97	0.67	73-131	20	12/30/2014 0709
cis-1,3-Dichloropropene	ND	1000	950		20	95	1.6	69-130	20	12/30/2014 0709
Ethylbenzene	ND	1000	1000		20	100	1.6	79-132	20	12/30/2014 0709
2-Hexanone	ND	2000	2000		20	98	1.9	60-140	20	12/30/2014 0709
Methyl tertiary butyl ether (MTBE)	ND	1000	970		20	97	0.69	60-140	20	12/30/2014 0709
4-Methyl-2-pentanone	ND	2000	2000		20	99	3.3	60-140	20	12/30/2014 0709
Methylene chloride	ND	1000	930		20	93	0.52	69-129	20	12/30/2014 0709
Styrene	ND	1000	1000		20	100	0.78	70-130	20	12/30/2014 0709
1,1,2,2-Tetrachloroethane	ND	1000	1000		20	102	2.6	60-155	20	12/30/2014 0709
Tetrachloroethene	ND	1000	980		20	98	1.7	70-130	20	12/30/2014 0709
Toluene	6.9	1000	940		20	93	0.98	75-125	20	12/30/2014 0709
1,2,4-Trichlorobenzene	ND	1000	1000		20	100	0.083	70-130	20	12/30/2014 0709
1,1,2-Trichloroethane	ND	1000	980		20	98	0.93	77-132	20	12/30/2014 0709
1,1,1-Trichloroethane	ND	1000	1000		20	101	0.11	77-132	20	12/30/2014 0709
Trichloroethene	ND	1000	960		20	96	1.0	73-124	20	12/30/2014 0709
Vinyl chloride	120	1000	1300		20	115	0.45	29-159	20	12/30/2014 0709
Xylenes (total)	ND	2000	2000		20	98	1.4	70-130	20	12/30/2014 0709
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		103	70-130							
Bromofluorobenzene		111	70-130							
Toluene-d8		104	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64288-001

Matrix: Aqueous

Batch: 64288

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/30/2014 1212
Benzene	ND		1	1.0	0.13	ug/L	12/30/2014 1212
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/30/2014 1212
Bromoform	ND		1	1.0	0.66	ug/L	12/30/2014 1212
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/30/2014 1212
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/30/2014 1212
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/30/2014 1212
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/30/2014 1212
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/30/2014 1212
Chloroethane	ND		1	2.0	0.47	ug/L	12/30/2014 1212
Chloroform	ND		1	1.0	0.33	ug/L	12/30/2014 1212
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/30/2014 1212
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/30/2014 1212
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/30/2014 1212
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/30/2014 1212
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/30/2014 1212
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/30/2014 1212
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/30/2014 1212
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/30/2014 1212
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/30/2014 1212
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/30/2014 1212
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/30/2014 1212
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/30/2014 1212
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/30/2014 1212
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/30/2014 1212
2-Hexanone	ND		1	10	0.27	ug/L	12/30/2014 1212
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/30/2014 1212
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/30/2014 1212
Methylene chloride	ND		1	1.0	0.33	ug/L	12/30/2014 1212
Styrene	ND		1	1.0	0.12	ug/L	12/30/2014 1212
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/30/2014 1212
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/30/2014 1212
Toluene	ND		1	1.0	0.33	ug/L	12/30/2014 1212
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/30/2014 1212
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/30/2014 1212
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/30/2014 1212
Trichloroethene	ND		1	1.0	0.18	ug/L	12/30/2014 1212
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/30/2014 1212
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/30/2014 1212
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		115	70-130				
1,2-Dichloroethane-d4		105	70-130				
Toluene-d8		104	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64288-002

Matrix: Aqueous

Batch: 64288

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	109	60-140	12/30/2014 1111
Benzene	50	49		1	97	70-130	12/30/2014 1111
Bromodichloromethane	50	50		1	99	70-130	12/30/2014 1111
Bromoform	50	53		1	107	70-130	12/30/2014 1111
Bromomethane (Methyl bromide)	50	53		1	105	60-140	12/30/2014 1111
2-Butanone (MEK)	100	110		1	105	60-140	12/30/2014 1111
Carbon disulfide	50	52		1	105	60-140	12/30/2014 1111
Carbon tetrachloride	50	51		1	102	70-130	12/30/2014 1111
Chlorobenzene	50	49		1	97	70-130	12/30/2014 1111
Chloroethane	50	54		1	108	42-163	12/30/2014 1111
Chloroform	50	50		1	99	70-130	12/30/2014 1111
Chloromethane (Methyl chloride)	50	53		1	105	60-140	12/30/2014 1111
Dibromochloromethane	50	51		1	103	70-130	12/30/2014 1111
1,4-Dichlorobenzene	50	49		1	97	70-130	12/30/2014 1111
1,3-Dichlorobenzene	50	49		1	98	70-130	12/30/2014 1111
1,2-Dichlorobenzene	50	49		1	99	70-130	12/30/2014 1111
1,2-Dichloroethane	50	51		1	103	70-130	12/30/2014 1111
1,1-Dichloroethane	50	50		1	100	70-130	12/30/2014 1111
trans-1,2-Dichloroethene	50	48		1	96	70-130	12/30/2014 1111
cis-1,2-Dichloroethene	50	49		1	99	70-130	12/30/2014 1111
1,1-Dichloroethene	50	51		1	101	70-130	12/30/2014 1111
1,2-Dichloropropane	50	50		1	100	70-130	12/30/2014 1111
trans-1,3-Dichloropropene	50	51		1	102	70-130	12/30/2014 1111
cis-1,3-Dichloropropene	50	51		1	102	70-130	12/30/2014 1111
Ethylbenzene	50	51		1	101	70-130	12/30/2014 1111
2-Hexanone	100	100		1	102	60-140	12/30/2014 1111
Methyl tertiary butyl ether (MTBE)	50	51		1	103	70-130	12/30/2014 1111
4-Methyl-2-pentanone	100	100		1	104	60-140	12/30/2014 1111
Methylene chloride	50	48		1	96	70-130	12/30/2014 1111
Styrene	50	50		1	101	70-130	12/30/2014 1111
1,1,2,2-Tetrachloroethane	50	51		1	101	60-140	12/30/2014 1111
Tetrachloroethene	50	50		1	99	70-130	12/30/2014 1111
Toluene	50	48		1	97	70-130	12/30/2014 1111
1,2,4-Trichlorobenzene	50	50		1	101	70-130	12/30/2014 1111
1,1,2-Trichloroethane	50	50		1	99	70-130	12/30/2014 1111
1,1,1-Trichloroethane	50	51		1	101	70-130	12/30/2014 1111
Trichloroethene	50	50		1	100	70-130	12/30/2014 1111
Vinyl chloride	50	53		1	106	70-130	12/30/2014 1111
Xylenes (total)	100	100		1	100	70-130	12/30/2014 1111
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		104	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64417-001

Matrix: Aqueous

Batch: 64417

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,4-Dioxane	ND		1	5.0	1.7	ug/L	12/29/2014 2309
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		109	70-130				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64417-002

Matrix: Aqueous

Batch: 64417

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	500	470		1	94	43-173	12/29/2014 2149
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64194-001

Matrix: Aqueous

Batch: 64194

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/29/2014 1637

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	01/02/2015 1431
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	01/02/2015 1431
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	01/02/2015 1431
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	01/02/2015 1431
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	01/02/2015 1431
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	01/02/2015 1431
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	01/02/2015 1431
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	01/02/2015 1431
2-Chlorophenol	ND		1	1.0	0.13	ug/L	01/02/2015 1431
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	01/02/2015 1431
2-Methylphenol	ND		1	1.0	0.17	ug/L	01/02/2015 1431
2-Nitroaniline	ND		1	2.0	0.55	ug/L	01/02/2015 1431
2-Nitrophenol	ND		1	2.0	0.27	ug/L	01/02/2015 1431
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	01/02/2015 1431
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	01/02/2015 1431
3-Nitroaniline	ND		1	2.0	0.77	ug/L	01/02/2015 1431
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	01/02/2015 1431
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	01/02/2015 1431
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	01/02/2015 1431
4-Chloroaniline	ND		1	1.0	0.13	ug/L	01/02/2015 1431
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	01/02/2015 1431
4-Nitroaniline	ND		1	2.0	0.39	ug/L	01/02/2015 1431
4-Nitrophenol	ND		1	5.0	0.64	ug/L	01/02/2015 1431
Acenaphthene	ND		1	1.0	0.090	ug/L	01/02/2015 1431
Acenaphthylene	ND		1	1.0	0.16	ug/L	01/02/2015 1431
Anthracene	ND		1	1.0	0.13	ug/L	01/02/2015 1431
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	01/02/2015 1431
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	01/02/2015 1431
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	01/02/2015 1431
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	01/02/2015 1431
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	01/02/2015 1431
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	01/02/2015 1431
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	01/02/2015 1431
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Carbazole	ND		1	1.0	0.25	ug/L	01/02/2015 1431
Chrysene	ND		1	1.0	0.12	ug/L	01/02/2015 1431
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	01/02/2015 1431
Dibenzofuran	ND		1	1.0	0.16	ug/L	01/02/2015 1431
Diethylphthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	01/02/2015 1431
Fluoranthene	ND		1	1.0	0.21	ug/L	01/02/2015 1431

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64194-001

Batch: 64194

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1637

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	01/02/2015 1431
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	01/02/2015 1431
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	01/02/2015 1431
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	01/02/2015 1431
Hexachloroethane	ND		1	1.0	0.11	ug/L	01/02/2015 1431
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	01/02/2015 1431
Isophorone	ND		1	1.0	0.080	ug/L	01/02/2015 1431
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	01/02/2015 1431
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	01/02/2015 1431
Naphthalene	ND		1	1.0	0.070	ug/L	01/02/2015 1431
Nitrobenzene	ND		1	1.0	0.10	ug/L	01/02/2015 1431
Pentachlorophenol	ND		1	5.0	0.54	ug/L	01/02/2015 1431
Phenanthrene	ND		1	1.0	0.18	ug/L	01/02/2015 1431
Phenol	ND		1	1.0	0.11	ug/L	01/02/2015 1431
Pyrene	ND		1	1.0	0.16	ug/L	01/02/2015 1431
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		87	41-144				
2-Fluorobiphenyl		104	37-129				
2-Fluorophenol		91	24-127				
Nitrobenzene-d5		84	38-127				
Phenol-d5		91	28-128				
Terphenyl-d14		111	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64194-002

Batch: 64194

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1637

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	20		1	101	46-125	01/02/2015 1454
2,4,6-Trichlorophenol	20	21		1	103	36-123	01/02/2015 1454
2,4-Dichlorophenol	20	21		1	103	38-127	01/02/2015 1454
2,4-Dimethylphenol	20	28	N	1	138	36-110	01/02/2015 1454
2,4-Dinitrophenol	100	100		1	101	33-143	01/02/2015 1454
2,4-Dinitrotoluene	40	44		1	111	55-137	01/02/2015 1454
2,6-Dinitrotoluene	40	43		1	107	53-128	01/02/2015 1454
2-Chloronaphthalene	20	17		1	87	42-132	01/02/2015 1454
2-Chlorophenol	20	19		1	97	40-128	01/02/2015 1454
2-Methylnaphthalene	20	20		1	101	40-132	01/02/2015 1454
2-Methylphenol	20	18		1	91	33-122	01/02/2015 1454
2-Nitroaniline	40	38		1	94	48-126	01/02/2015 1454
2-Nitrophenol	40	39		1	98	44-131	01/02/2015 1454
3 & 4-Methylphenol	40	36		1	91	48-112	01/02/2015 1454
3-Nitroaniline	40	4.3	N	1	11	29-109	01/02/2015 1454
4,6-Dinitro-2-methylphenol	100	100		1	102	46-151	01/02/2015 1454
4-Bromophenyl phenyl ether	20	19		1	97	49-123	01/02/2015 1454
4-Chloro-3-methyl phenol	20	20		1	98	48-136	01/02/2015 1454
4-Chloroaniline	20	7.1		1	36	18-73	01/02/2015 1454
4-Chlorophenyl phenyl ether	20	20		1	102	34-124	01/02/2015 1454
4-Nitroaniline	40	19		1	48	42-154	01/02/2015 1454
4-Nitrophenol	100	100		1	100	43-145	01/02/2015 1454
Acenaphthene	20	21		1	103	51-130	01/02/2015 1454
Acenaphthylene	20	21		1	107	46-131	01/02/2015 1454
Anthracene	20	21		1	105	48-122	01/02/2015 1454
Benzo(a)anthracene	20	20		1	101	50-143	01/02/2015 1454
Benzo(a)pyrene	20	110	N	1	533	55-141	01/02/2015 1454
Benzo(b)fluoranthene	20	210	N	1	1040	48-147	01/02/2015 1454
Benzo(g,h,i)perylene	20	110	N	1	542	48-139	01/02/2015 1454
Benzo(k)fluoranthene	20	190	N	1	968	48-148	01/02/2015 1454
bis(2-Chloroethoxy)methane	20	11		1	57	46-130	01/02/2015 1454
bis(2-Chloroisopropyl)ether	20	17		1	87	36-133	01/02/2015 1454
bis(2-Ethylhexyl)phthalate	20	17		1	86	40-141	01/02/2015 1454
Butyl benzyl phthalate	20	20		1	100	52-142	01/02/2015 1454
Carbazole	20	2.3	N	1	11	45-101	01/02/2015 1454
Chrysene	20	22		1	111	51-137	01/02/2015 1454
Di-n-butyl phthalate	20	22		1	112	50-134	01/02/2015 1454
Di-n-octylphthalate	20	160	N	1	786	50-136	01/02/2015 1454
Dibenzo(a,h)anthracene	20	160	N	1	809	48-139	01/02/2015 1454
Dibenzofuran	20	20		1	102	45-142	01/02/2015 1454
Diethylphthalate	20	21		1	106	48-124	01/02/2015 1454
Dimethyl phthalate	20	21		1	106	43-122	01/02/2015 1454
Fluoranthene	20	22		1	109	50-124	01/02/2015 1454
Fluorene	20	21		1	106	39-122	01/02/2015 1454

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64194-002

Batch: 64194

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1637

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	21		1	104	46-125	01/02/2015 1454
Hexachlorobutadiene	20	18		1	90	38-121	01/02/2015 1454
Hexachlorocyclopentadiene	100	58		1	58	24-110	01/02/2015 1454
Hexachloroethane	20	17		1	85	32-109	01/02/2015 1454
Indeno(1,2,3-c,d)pyrene	20	120	N	1	599	49-146	01/02/2015 1454
Isophorone	20	18		1	91	43-118	01/02/2015 1454
N-Nitrosodi-n-propylamine	20	17		1	84	46-135	01/02/2015 1454
N-Nitrosodiphenylamine (Diphenylamine)	4.3	2.0		1	46	44-124	01/02/2015 1454
Naphthalene	20	19		1	95	45-118	01/02/2015 1454
Nitrobenzene	20	18		1	88	46-131	01/02/2015 1454
Pentachlorophenol	100	84		1	84	30-137	01/02/2015 1454
Phenanthrene	20	21		1	105	49-122	01/02/2015 1454
Phenol	20	17		1	87	35-118	01/02/2015 1454
Pyrene	20	19		1	95	50-130	01/02/2015 1454
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		112	41-144				
2-Fluorobiphenyl		102	37-129				
2-Fluorophenol		89	24-127				
Nitrobenzene-d5		90	38-127				
Phenol-d5		89	28-128				
Terphenyl-d14		120	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL24008-004MS

Batch: 64194

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1637

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	40	42		1	105	10-133	01/02/2015 1540
Acenaphthylene	ND	40	49		1	124	34-128	01/02/2015 1540
Anthracene	ND	40	39		1	98	48-122	01/02/2015 1540
Benzo(a)anthracene	ND	40	31		1	77	53-98	01/02/2015 1540
Benzo(a)pyrene	ND	40	24		1	61	11-160	01/02/2015 1540
Benzo(b)fluoranthene	ND	40	34		1	84	10-165	01/02/2015 1540
Benzo(g,h,i)perylene	ND	40	23		1	58	42-111	01/02/2015 1540
Benzo(k)fluoranthene	ND	40	32		1	81	13-175	01/02/2015 1540
4-Bromophenyl phenyl ether	ND	40	37		1	93	49-123	01/02/2015 1540
Butyl benzyl phthalate	ND	40	37		1	91	52-142	01/02/2015 1540
Carbazole	ND	40	41	N	1	104	45-101	01/02/2015 1540
4-Chloro-3-methyl phenol	ND	40	40	N	1	99	40-98	01/02/2015 1540
4-Chloroaniline	ND	40	11		1	28	10-98	01/02/2015 1540
bis(2-Chloroethoxy)methane	ND	40	36		1	91	43-93	01/02/2015 1540
bis(2-Chloroisopropyl)ether	ND	40	35		1	88	36-99	01/02/2015 1540
2-Chloronaphthalene	ND	40	35		1	86	40-89	01/02/2015 1540
2-Chlorophenol	ND	40	39	N	1	97	33-92	01/02/2015 1540
4-Chlorophenyl phenyl ether	ND	40	39		1	98	34-124	01/02/2015 1540
Chrysene	ND	40	32		1	80	51-107	01/02/2015 1540
Dibenzo(a,h)anthracene	ND	40	24		1	61	47-116	01/02/2015 1540
Dibenzofuran	ND	40	40	N	1	101	45-94	01/02/2015 1540
2,4-Dichlorophenol	ND	40	42		1	104	34-105	01/02/2015 1540
Diethylphthalate	ND	40	41		1	101	48-124	01/02/2015 1540
Dimethyl phthalate	ND	40	42		1	105	43-122	01/02/2015 1540
2,4-Dimethylphenol	ND	40	55	N	1	138	33-77	01/02/2015 1540
Di-n-butyl phthalate	ND	40	37		1	92	50-134	01/02/2015 1540
4,6-Dinitro-2-methylphenol	ND	200	210		1	103	33-118	01/02/2015 1540
2,4-Dinitrophenol	ND	200	200		1	101	19-119	01/02/2015 1540
2,4-Dinitrotoluene	ND	80	86	N	1	108	50-104	01/02/2015 1540
2,6-Dinitrotoluene	ND	80	86		1	108	53-128	01/02/2015 1540
Di-n-octylphthalate	ND	40	27		1	67	40-112	01/02/2015 1540
bis(2-Ethylhexyl)phthalate	ND	40	24		1	61	10-142	01/02/2015 1540
Fluoranthene	ND	40	39		1	97	50-124	01/02/2015 1540
Fluorene	ND	40	42		1	105	39-122	01/02/2015 1540
Hexachlorobenzene	ND	40	39		1	98	46-125	01/02/2015 1540
Hexachlorobutadiene	ND	40	35		1	87	42-94	01/02/2015 1540
Hexachlorocyclopentadiene	ND	200	100		1	52	14-89	01/02/2015 1540
Hexachloroethane	ND	40	35	N	1	87	39-86	01/02/2015 1540
Indeno(1,2,3-c,d)pyrene	ND	40	24		1	59	43-113	01/02/2015 1540
Isophorone	ND	40	37	N	1	92	42-84	01/02/2015 1540
2-Methylnaphthalene	0.21	40	41		1	101	40-132	01/02/2015 1540
2-Methylphenol	ND	40	38		1	95	33-122	01/02/2015 1540
3 & 4-Methylphenol	ND	80	77		1	96	24-97	01/02/2015 1540
Naphthalene	4.1	40	39		1	86	46-89	01/02/2015 1540

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL24008-004MS

Matrix: Aqueous

Batch: 64194

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/29/2014 1637

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	80	85		1	106	48-126	01/02/2015 1540
3-Nitroaniline	ND	80	32		1	40	10-110	01/02/2015 1540
4-Nitroaniline	ND	80	73		1	91	41-99	01/02/2015 1540
Nitrobenzene	ND	40	35		1	89	44-91	01/02/2015 1540
2-Nitrophenol	ND	80	79		1	99	34-102	01/02/2015 1540
4-Nitrophenol	ND	200	190		1	94	29-122	01/02/2015 1540
N-Nitrosodi-n-propylamine	ND	40	34		1	84	41-96	01/02/2015 1540
N-Nitrosodiphenylamine (Diphenylamine)	ND	83	24		1	29	10-150	01/02/2015 1540
Pentachlorophenol	ND	200	160		1	82	32-110	01/02/2015 1540
Phenanthrene	ND	40	41		1	102	49-122	01/02/2015 1540
Phenol	ND	40	35		1	88	33-92	01/02/2015 1540
Pyrene	ND	40	37		1	91	50-130	01/02/2015 1540
2,4,5-Trichlorophenol	ND	40	41		1	102	46-125	01/02/2015 1540
2,4,6-Trichlorophenol	ND	40	41		1	103	36-123	01/02/2015 1540
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl	N	20	37-129					
2-Fluorophenol	N	17	24-127					
Nitrobenzene-d5	N	18	38-127					
Phenol-d5	N	18	28-128					
Terphenyl-d14		16	10-148					
2,4,6-Tribromophenol	N	22	41-144					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL24008-004MD

Batch: 64194

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1637

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	40	43		1	108	2.6	10-133	40	01/02/2015 1603
Acenaphthylene	ND	40	51		1	127	2.8	34-128	40	01/02/2015 1603
Anthracene	ND	40	41		1	102	4.7	48-122	40	01/02/2015 1603
Benzo(a)anthracene	ND	40	35		1	87	12	53-98	40	01/02/2015 1603
Benzo(a)pyrene	ND	40	29		1	73	18	11-160	40	01/02/2015 1603
Benzo(b)fluoranthene	ND	40	36		1	90	6.3	10-165	40	01/02/2015 1603
Benzo(g,h,i)perylene	ND	40	25		1	62	7.2	42-111	40	01/02/2015 1603
Benzo(k)fluoranthene	ND	40	36		1	91	12	13-175	40	01/02/2015 1603
4-Bromophenyl phenyl ether	ND	40	38		1	96	3.5	49-123	40	01/02/2015 1603
Butyl benzyl phthalate	ND	40	39		1	98	7.1	52-142	40	01/02/2015 1603
Carbazole	ND	40	44	N	1	111	6.9	45-101	40	01/02/2015 1603
4-Chloro-3-methyl phenol	ND	40	40	N	1	99	0.18	40-98	40	01/02/2015 1603
4-Chloroaniline	ND	40	20	+	1	49	56	10-98	40	01/02/2015 1603
bis(2-Chloroethoxy)methane	ND	40	37		1	92	1.1	43-93	40	01/02/2015 1603
bis(2-Chloroisopropyl)ether	ND	40	34		1	86	2.3	36-99	40	01/02/2015 1603
2-Chloronaphthalene	ND	40	35		1	87	0.47	40-89	40	01/02/2015 1603
2-Chlorophenol	ND	40	38	N	1	95	1.8	33-92	40	01/02/2015 1603
4-Chlorophenyl phenyl ether	ND	40	40		1	101	3.2	34-124	40	01/02/2015 1603
Chrysene	ND	40	36		1	89	12	51-107	40	01/02/2015 1603
Dibenzo(a,h)anthracene	ND	40	27		1	66	9.1	47-116	40	01/02/2015 1603
Dibenzofuran	ND	40	41	N	1	102	0.91	45-94	40	01/02/2015 1603
2,4-Dichlorophenol	ND	40	41		1	101	2.4	34-105	40	01/02/2015 1603
Diethylphthalate	ND	40	41		1	103	1.5	48-124	40	01/02/2015 1603
Dimethyl phthalate	ND	40	42		1	106	0.61	43-122	40	01/02/2015 1603
2,4-Dimethylphenol	ND	40	52	N	1	130	5.5	33-77	40	01/02/2015 1603
Di-n-butyl phthalate	ND	40	37		1	92	0.033	50-134	40	01/02/2015 1603
4,6-Dinitro-2-methylphenol	ND	200	210		1	106	2.6	33-118	40	01/02/2015 1603
2,4-Dinitrophenol	ND	200	210		1	103	1.7	19-119	40	01/02/2015 1603
2,4-Dinitrotoluene	ND	80	88	N	1	110	1.6	50-104	40	01/02/2015 1603
2,6-Dinitrotoluene	ND	80	88		1	109	1.4	53-128	40	01/02/2015 1603
Di-n-octylphthalate	ND	40	30		1	76	13	40-112	40	01/02/2015 1603
bis(2-Ethylhexyl)phthalate	ND	40	30		1	76	21	10-142	40	01/02/2015 1603
Fluoranthene	ND	40	40		1	99	1.9	50-124	40	01/02/2015 1603
Fluorene	ND	40	43		1	106	1.3	39-122	40	01/02/2015 1603
Hexachlorobenzene	ND	40	42		1	104	6.5	46-125	40	01/02/2015 1603
Hexachlorobutadiene	ND	40	35		1	87	0.76	42-94	40	01/02/2015 1603
Hexachlorocyclopentadiene	ND	200	110		1	55	4.1	14-89	40	01/02/2015 1603
Hexachloroethane	ND	40	33		1	83	4.3	39-86	40	01/02/2015 1603
Indeno(1,2,3-c,d)pyrene	ND	40	26		1	64	8.6	43-113	40	01/02/2015 1603
Isophorone	ND	40	37	N	1	92	0.82	42-84	40	01/02/2015 1603
2-Methylnaphthalene	0.21	40	41		1	101	0.21	40-132	40	01/02/2015 1603
2-Methylphenol	ND	40	37		1	94	1.4	33-122	40	01/02/2015 1603
3 & 4-Methylphenol	ND	80	75		1	94	2.0	24-97	40	01/02/2015 1603
Naphthalene	4.1	40	37		1	82	3.9	46-89	40	01/02/2015 1603

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL24008-004MD

Matrix: Aqueous

Batch: 64194

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/29/2014 1637

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	80	87		1	108	2.1	48-126	40	01/02/2015 1603
3-Nitroaniline	ND	80	62	+	1	77	64	10-110	40	01/02/2015 1603
4-Nitroaniline	ND	80	86	N	1	107	16	41-99	40	01/02/2015 1603
Nitrobenzene	ND	40	34		1	86	3.3	44-91	40	01/02/2015 1603
2-Nitrophenol	ND	80	78		1	97	1.7	34-102	40	01/02/2015 1603
4-Nitrophenol	ND	200	190		1	95	1.1	29-122	40	01/02/2015 1603
N-Nitrosodi-n-propylamine	ND	40	33		1	83	2.0	41-96	40	01/02/2015 1603
N-Nitrosodiphenylamine (Diphenylamine)	ND	83	33		1	40	32	10-150	40	01/02/2015 1603
Pentachlorophenol	ND	200	160		1	82	0.93	32-110	40	01/02/2015 1603
Phenanthrene	ND	40	41		1	104	2.1	49-122	40	01/02/2015 1603
Phenol	ND	40	35		1	88	0.65	33-92	40	01/02/2015 1603
Pyrene	ND	40	38		1	95	3.6	50-130	40	01/02/2015 1603
2,4,5-Trichlorophenol	ND	40	41		1	101	0.35	46-125	40	01/02/2015 1603
2,4,6-Trichlorophenol	ND	40	42		1	105	1.8	36-123	40	01/02/2015 1603
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl	N	20	37-129							
2-Fluorophenol	N	17	24-127							
Nitrobenzene-d5	N	18	38-127							
Phenol-d5	N	18	28-128							
Terphenyl-d14		19	10-148							
2,4,6-Tribromophenol	N	22	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64188-001

Batch: 64188

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1702

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	01/06/2015 1134
4,4'-DDE	ND		1	0.025	0.011	ug/L	01/06/2015 1134
4,4'-DDT	ND		1	0.025	0.0020	ug/L	01/06/2015 1134
Aldrin	ND		1	0.025	0.0017	ug/L	01/06/2015 1134
alpha-BHC	ND		1	0.025	0.0010	ug/L	01/06/2015 1134
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	01/06/2015 1134
beta-BHC	ND		1	0.025	0.0039	ug/L	01/06/2015 1134
delta-BHC	ND		1	0.025	0.0011	ug/L	01/06/2015 1134
Dieldrin	ND		1	0.025	0.0010	ug/L	01/06/2015 1134
Endosulfan I	ND		1	0.025	0.0022	ug/L	01/06/2015 1134
Endosulfan II	ND		1	0.025	0.0015	ug/L	01/06/2015 1134
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	01/06/2015 1134
Endrin	ND		1	0.025	0.0010	ug/L	01/06/2015 1134
Endrin aldehyde	0.0042	J	1	0.025	0.0019	ug/L	01/06/2015 1134
Endrin ketone	ND		1	0.025	0.0012	ug/L	01/06/2015 1134
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	01/06/2015 1134
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	01/06/2015 1134
Heptachlor	ND		1	0.025	0.013	ug/L	01/06/2015 1134
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	01/06/2015 1134
Methoxychlor	ND		1	0.10	0.0020	ug/L	01/06/2015 1134
Toxaphene	ND		1	0.25	0.11	ug/L	01/06/2015 1134
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		55	10-122				
Tetrachloro-m-xylene		65	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64188-002

Matrix: Aqueous

Batch: 64188

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/29/2014 1702

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	94	70-130	01/06/2015 1148
4,4'-DDE	0.50	0.47		1	94	70-130	01/06/2015 1148
4,4'-DDT	0.50	0.50		1	100	70-130	01/06/2015 1148
Aldrin	0.50	0.46		1	92	70-130	01/06/2015 1148
alpha-BHC	0.50	0.44		1	88	70-130	01/06/2015 1148
alpha-Chlordane	0.50	0.48		1	95	70-130	01/06/2015 1148
beta-BHC	0.50	0.42		1	84	70-130	01/06/2015 1148
delta-BHC	0.50	0.47		1	95	70-130	01/06/2015 1148
Dieldrin	0.50	0.49		1	98	70-130	01/06/2015 1148
Endosulfan I	0.50	0.46		1	92	70-130	01/06/2015 1148
Endosulfan II	0.50	0.48		1	96	70-130	01/06/2015 1148
Endosulfan sulfate	0.50	0.49		1	98	70-130	01/06/2015 1148
Endrin	0.50	0.47		1	93	70-130	01/06/2015 1148
Endrin aldehyde	0.50	0.45		1	91	70-130	01/06/2015 1148
Endrin ketone	0.50	0.51		1	102	70-130	01/06/2015 1148
gamma-BHC (Lindane)	0.50	0.45		1	91	70-130	01/06/2015 1148
gamma-Chlordane	0.50	0.45		1	90	70-130	01/06/2015 1148
Heptachlor	0.50	0.42		1	85	70-130	01/06/2015 1148
Heptachlor epoxide	0.50	0.45		1	90	70-130	01/06/2015 1148
Methoxychlor	0.50	0.52		1	104	70-130	01/06/2015 1148
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		70	10-122				
Tetrachloro-m-xylene		64	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: PL24008-001MS

Batch: 64188

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1702

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	0.0065	1.0	0.80		1	79	70-130	01/06/2015 1217
gamma-BHC (Lindane)	0.0090	1.0	0.92		1	91	70-130	01/06/2015 1217
alpha-BHC	0.0032	1.0	0.94		1	94	70-130	01/06/2015 1217
beta-BHC	0.020	1.0	0.95		1	93	70-130	01/06/2015 1217
delta-BHC	0.013	1.0	1.1		1	110	70-130	01/06/2015 1217
alpha-Chlordane	ND	1.0	0.87		1	87	70-130	01/06/2015 1217
gamma-Chlordane	0.0022	1.0	0.84		1	84	70-130	01/06/2015 1217
4,4'-DDD	ND	1.0	0.92		1	92	70-130	01/06/2015 1217
4,4'-DDE	ND	1.0	0.88		1	88	70-130	01/06/2015 1217
4,4'-DDT	ND	1.0	1.0		1	100	70-130	01/06/2015 1217
Dieldrin	ND	1.0	0.93		1	93	70-130	01/06/2015 1217
Endosulfan I	ND	1.0	0.84		1	84	70-130	01/06/2015 1217
Endosulfan II	ND	1.0	0.92		1	92	70-130	01/06/2015 1217
Endosulfan sulfate	0.010	1.0	1.2		1	118	70-130	01/06/2015 1217
Endrin	0.0035	1.0	0.90		1	89	70-130	01/06/2015 1217
Endrin aldehyde	0.0054	1.0	1.0		1	100	70-130	01/06/2015 1217
Endrin ketone	ND	1.0	1.1		1	110	70-130	01/06/2015 1217
Heptachlor	ND	1.0	0.92		1	92	70-130	01/06/2015 1217
Heptachlor epoxide	ND	1.0	0.88		1	88	70-130	01/06/2015 1217
Methoxychlor	ND	1.0	1.0		1	102	70-130	01/06/2015 1217
Surrogate	Q	% Rec	Acceptance Limit					
Decachlorobiphenyl		39	10-122					
Tetrachloro-m-xylene		66	46-119					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: PL24008-001MD

Batch: 64188

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/29/2014 1702

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	0.0065	1.0	0.83		1	82	4.1	70-130	30	01/06/2015 1231
gamma-BHC (Lindane)	0.0090	1.0	0.92		1	91	0.76	70-130	30	01/06/2015 1231
alpha-BHC	0.0032	1.0	0.92		1	92	2.2	70-130	30	01/06/2015 1231
beta-BHC	0.020	1.0	0.94		1	92	0.51	70-130	30	01/06/2015 1231
delta-BHC	0.013	1.0	1.1		1	111	1.6	70-130	30	01/06/2015 1231
alpha-Chlordane	ND	1.0	0.89		1	89	2.5	70-130	30	01/06/2015 1231
gamma-Chlordane	0.0022	1.0	0.87		1	86	2.8	70-130	30	01/06/2015 1231
4,4'-DDD	ND	1.0	0.97		1	97	5.5	70-130	30	01/06/2015 1231
4,4'-DDE	ND	1.0	0.91		1	91	2.5	70-130	30	01/06/2015 1231
4,4'-DDT	ND	1.0	1.1		1	111	10	70-130	30	01/06/2015 1231
Dieldrin	ND	1.0	0.95		1	95	2.8	70-130	30	01/06/2015 1231
Endosulfan I	ND	1.0	0.90		1	90	7.1	70-130	30	01/06/2015 1231
Endosulfan II	ND	1.0	0.96		1	96	3.9	70-130	30	01/06/2015 1231
Endosulfan sulfate	0.010	1.0	1.2		1	119	0.39	70-130	30	01/06/2015 1231
Endrin	0.0035	1.0	0.93		1	93	3.6	70-130	30	01/06/2015 1231
Endrin aldehyde	0.0054	1.0	1.1		1	105	4.9	70-130	30	01/06/2015 1231
Endrin ketone	ND	1.0	1.2		1	118	6.9	70-130	30	01/06/2015 1231
Heptachlor	ND	1.0	0.96		1	96	3.7	70-130	30	01/06/2015 1231
Heptachlor epoxide	ND	1.0	0.92		1	92	4.2	70-130	30	01/06/2015 1231
Methoxychlor	ND	1.0	1.1		1	113	9.4	70-130	30	01/06/2015 1231
Surrogate	Q	% Rec	Acceptance Limit							
Decachlorobiphenyl		53	10-122							
Tetrachloro-m-xylene		65	46-119							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63991-001

Matrix: Aqueous

Batch: 63991

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/26/2014 912

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.010	0.0040	mg/L	12/31/2014 2218
Barium	ND		1	0.025	0.0075	mg/L	12/31/2014 2218
Cadmium	ND		1	0.0020	0.00060	mg/L	12/31/2014 2218
Chromium	ND		1	0.0050	0.0021	mg/L	12/31/2014 2218
Lead	ND		1	0.010	0.0019	mg/L	12/31/2014 2218
Selenium	ND		1	0.010	0.0026	mg/L	12/31/2014 2218
Silver	ND		1	0.0050	0.00040	mg/L	12/31/2014 2218

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 65 of 74
Level 1 Report v2.1

RCRA Metals - LCS

Sample ID: PQ63991-002

Matrix: Aqueous

Batch: 63991

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/26/2014 912

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.42		1	105	80-120	12/31/2014 2223
Barium	2.0	2.2		1	109	80-120	12/31/2014 2223
Cadmium	0.40	0.41		1	101	80-120	12/31/2014 2223
Chromium	2.0	2.1		1	107	80-120	12/31/2014 2223
Lead	0.40	0.43		1	107	80-120	12/31/2014 2223
Selenium	0.40	0.43		1	107	80-120	12/31/2014 2223
Silver	0.40	0.42		1	104	80-120	12/31/2014 2223

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MB

Sample ID: PQ63991-001

Matrix: Aqueous

Batch: 63991

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/26/2014 912

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Arsenic	ND		1	0.010	0.0040	mg/L	12/31/2014 2218
Dissolved Barium	ND		1	0.025	0.0075	mg/L	12/31/2014 2218
Dissolved Cadmium	ND		1	0.0020	0.00060	mg/L	12/31/2014 2218
Dissolved Chromium	ND		1	0.0050	0.0021	mg/L	12/31/2014 2218
Dissolved Lead	ND		1	0.010	0.0019	mg/L	12/31/2014 2218
Dissolved Selenium	ND		1	0.010	0.0026	mg/L	12/31/2014 2218
Dissolved Silver	ND		1	0.0050	0.00040	mg/L	12/31/2014 2218

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ63991-002

Matrix: Aqueous

Batch: 63991

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/26/2014 912

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	0.40	0.42		1	105	80-120	12/31/2014 2223
Dissolved Barium	2.0	2.2		1	109	80-120	12/31/2014 2223
Dissolved Cadmium	0.40	0.41		1	101	80-120	12/31/2014 2223
Dissolved Chromium	2.0	2.1		1	107	80-120	12/31/2014 2223
Dissolved Lead	0.40	0.43		1	107	80-120	12/31/2014 2223
Dissolved Selenium	0.40	0.43		1	107	80-120	12/31/2014 2223
Dissolved Silver	0.40	0.42		1	104	80-120	12/31/2014 2223

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64240-001

Batch: 64240

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/30/2014 1247

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64240-002

Batch: 64240

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	96	85-115	12/30/2014 1249

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 70 of 74
Level 1 Report v2.1

RCRA Metals - MS

Sample ID: PL24008-002MS

Matrix: Aqueous

Batch: 64240

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.000018	0.0020	0.0019		1	95	85-115	12/30/2014 1309

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MSD

Sample ID: PL24008-002MD

Matrix: Aqueous

Batch: 64240

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.000018	0.0020	0.0019		1	97	1.1	85-115	20	12/30/2014 1311

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 72 of 74
Level 1 Report v2.1

Dissolved RCRA Metals - MB

Sample ID: PQ64240-001

Matrix: Aqueous

Batch: 64240

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Mercury	ND		1	0.00010	0.000015	mg/L	12/30/2014 1247

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ64240-002

Matrix: Aqueous

Batch: 64240

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/30/2014 946

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	0.0020	0.0019		1	96	85-115	12/30/2014 1249

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 74 of 74
Level 1 Report v2.1



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43714

Client	ARCAOU	Report to Contact	Scott Boston	Telephone No. / E-mail	803-791-9700 / scott.boston@shealy.com	Quote No.	
Address	801 Corporate Center Dr. #300	Sampler's Signature	<i>[Signature]</i>	Analysis (Attach list if more space is needed)		Page	1 of 1
City	Raleigh NC	State	NC	Zip Code	27607		
Project Name	HAA-01	Printed Name	Sand Fin / Dang Nguyen				
Project No.	10153001.0001.0001	P.O. No.					
Sample ID / Description	(Containers for each sample may be combined on one line.)	Date	Time	Matrix	No. of Containers by Preservation Type		
					Unpres. Preserv. HCL H ₂ O ₂ NaOH 100% K ₂		
HAA01COEMW02(122314)	12/23/14	0951		G-X	2	3	
HAA01COEMW03(122314)	12/23/14	1051		G-X	2	23	X
HAA01HMMW14R(122314)	12/23/14	1151		G-X	2	3	X
HAA01HMMW09(122314)	12/23/14	1036		G-X	2	3	X
HAA01HMMW09(122314)	12/23/14	0922		G-X	2	3	X
HAA01HMMW08(122314)	12/23/14	1142		G-X	2	3	X
HAA01COEMW01(122314)	12/23/14	1611		G-X	2	3	X
HAA01HMMW10(122314)	12/23/14	1642		G-X	2	3	X
HAA01HMMW11(122314)	12/23/14	1550		G-X	2	3	X
TRAP BLANK	12/23/14			-X	2	2	X
Turn Around Time Required (Prior lab approval required for expedited TAT.)		Sample Disposal					
☒ Standard ☐ Rush (Specify)		☐ Return to Client ☒ Disposal by Lab					
1. Relinquished by	<i>[Signature]</i>	Date	Time	Possible Hazard Identification			
2. Relinquished by	<i>[Signature]</i>	Date	Time	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown			
3. Relinquished by		Date	Time	1. Received by			
4. Relinquished by		Date	Time	2. Received by			
		Date	Time	3. Received by			
		Date	Time	4. Laboratory received by			
	Fedex	12-24-14	1125	<i>[Signature]</i>			
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY			
				Received on ice (Circle)	Yes ☒ No ☐		
				Receipt Temp.	403.098		

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AO-133 Effective Date: 06-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Arcadis Cooler Inspected by/date: KWP / 12-24-14 Lot #: 224008

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒ No ☐		1. Were custody seals present on the cooler?
Yes ☒ No ☐ NA ☐		2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>403 / 1.7 / 1.6 °C</u> <u>098 / 2.0 / 1.9 °C</u> / / °C / / °C		
Method: ☒ Temperature Blank ☐ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: <u>0.1 °C</u>		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Yes ☐ No ☐ NA ☒		3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐ No ☒ NA ☐		4. Is the commercial courier's packing slip attached to this form?
Yes ☒ No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐ No ☒ NA ☐		5a. Were samples relinquished by client to commercial courier?
Yes ☒ No ☐		6. Were sample IDs listed on the COC?
Yes ☒ No ☐		7. Were sample IDs listed on all sample containers?
Yes ☒ No ☐		8. Was collection date & time listed on the COC?
Yes ☒ No ☐		9. Was collection date & time listed on all sample containers?
Yes ☒ No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☒ No ☐		11. Were tests to be performed listed on the COC?
Yes ☒ No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☐ No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒ No ☐		14. Was adequate sample volume available?
Yes ☐ No ☒		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐ No ☒		16. Were any samples containers missing?
Yes ☐ No ☒		17. Were there any excess samples not listed on COC?
Yes ☐ No ☒ NA ☐		18. Were bubbles present > "pca-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐ No ☐ NA ☒		19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐ No ☐ NA ☒		20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐ No ☐ NA ☒		21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐ No ☐ NA ☒		22. Were collection temperatures documented on the COC for NC samples?
Yes ☐ No ☐ NA ☒		23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐ No ☒		24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) using SR # _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>KWP</u> Verified by: _____ Date: <u>12-24-14</u>		

Comments:

Cr⁶⁺ received out of hold

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: HAA-01

Project Number: 10153001.0001.DE001

Lot Number: PL18008

Date Completed: 01/13/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL18008 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL18008

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Semivolatile Organic Compounds

The surrogate recovery for samples -003, -013 and -023 was outside the acceptance limit. This sample was diluted. The dilution impacted the surrogate recoveries, thus negating their usefulness concerning quality control. The sample results are reported and no corrective action is required.

The MS/MSD recoveries in batches 63730 and 63919 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

The LCS recovery for 2,4-Dimethylphenol and 4-Chloroaniline exceeded method control limits in batch 63919; however, all other QA/QC criteria for the LCS were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batch 63430 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL18008

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HA01HMW02(121614)	Aqueous	12/16/2014 1045	12/18/2014
002	HA01HMW13(121614)	Aqueous	12/16/2014 1347	12/18/2014
003	D1(121614)	Aqueous	12/16/2014	12/18/2014
004	HA01MW14(121614)	Aqueous	12/16/2014 1537	12/18/2014
005	HA01HMW04(121614)	Aqueous	12/16/2014 1006	12/18/2014
006	HA01MW17(121614)	Aqueous	12/16/2014 1106	12/18/2014
007	HA01HMW11(121614)	Aqueous	12/16/2014 1406	12/18/2014
008	HA01HMW06(121714)	Aqueous	12/16/2014 1452	12/18/2014
009	HA01MW14D(121714)	Aqueous	12/17/2014 1151	12/18/2014
010	D2(121614)	Aqueous	12/16/2014 1201	12/18/2014
012	HA01MW15(121714)	Aqueous	12/17/2014 1015	12/18/2014
013	HA01HMW24(121714)	Aqueous	12/17/2014 0942	12/18/2014
014	HA01HMW23(121714)	Aqueous	12/17/2014 1046	12/18/2014
015	HA01HMW10(121714)	Aqueous	12/17/2014 1156	12/18/2014
016	HA01SW03(121714)	Aqueous	12/17/2014 1415	12/18/2014
017	HA01SW02(121714)	Aqueous	12/17/2014 1445	12/18/2014
018	HA01SW01(121714)	Aqueous	12/17/2014 1520	12/18/2014
019	D1(121714)	Aqueous	12/17/2014 1201	12/18/2014
020	HA01SD03(121714)	Solid	12/17/2014 1410	12/18/2014
021	HA01SD02(121714)	Solid	12/17/2014 1440	12/18/2014
022	HA01SD01(121714)	Solid	12/17/2014 1520	12/18/2014
023	D2(121714)	Solid	12/17/2014	12/18/2014
024	TRIP BLANK	Aqueous	12/16/2014	12/18/2014

(23 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HA01HMW02(121614)	Aqueous	Carbon disulfide	8260B	0.18	J	ug/L	9
002	HA01HMW13(121614)	Aqueous	Acetone	8260B	8.9	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Benzene	8260B	30		ug/L	11
002	HA01HMW13(121614)	Aqueous	Chloroethane	8260B	0.55	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Chloromethane (Methyl chloride)	8260B	0.51	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	1,2-Dichlorobenzene	8260B	0.40	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Ethylbenzene	8260B	27		ug/L	11
002	HA01HMW13(121614)	Aqueous	1,1,2,2-Tetrachloroethane	8260B	0.34	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	11
002	HA01HMW13(121614)	Aqueous	2-Methylnaphthalene	8270D	13		ug/L	13
002	HA01HMW13(121614)	Aqueous	Naphthalene	8270D	88		ug/L	14
003	D1(121614)	Aqueous	Acetone	8260B	14	J	ug/L	15
003	D1(121614)	Aqueous	Benzene	8260B	29		ug/L	15
003	D1(121614)	Aqueous	Chloroethane	8260B	0.65	J	ug/L	15
003	D1(121614)	Aqueous	Chloromethane (Methyl chloride)	8260B	0.73	J	ug/L	15
003	D1(121614)	Aqueous	1,2-Dichlorobenzene	8260B	0.40	J	ug/L	15
003	D1(121614)	Aqueous	Ethylbenzene	8260B	26		ug/L	15
003	D1(121614)	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	15
003	D1(121614)	Aqueous	2-Methylnaphthalene	8270D	22		ug/L	17
003	D1(121614)	Aqueous	Naphthalene	8270D	120		ug/L	18
004	HA01MW14(121614)	Aqueous	gamma-BHC (Lindane)	8081B	0.0063	BJ	ug/L	22
004	HA01MW14(121614)	Aqueous	Dissolved Barium	6010C	0.074		mg/L	23
004	HA01MW14(121614)	Aqueous	Dissolved Chromium	6010C	0.0062		mg/L	23
004	HA01MW14(121614)	Aqueous	Dissolved Lead	6010C	0.0072	J	mg/L	23
004	HA01MW14(121614)	Aqueous	Barium	6010C	0.095		mg/L	24
004	HA01MW14(121614)	Aqueous	Chromium	6010C	0.010		mg/L	24
004	HA01MW14(121614)	Aqueous	Lead	6010C	0.012		mg/L	24
007	HA01HMW11(121614)	Aqueous	Acetone	8260B	56		ug/L	29
007	HA01HMW11(121614)	Aqueous	2-Butanone (MEK)	8260B	2.4	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	Carbon disulfide	8260B	0.57	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	1,1,2,2-Tetrachloroethane	8260B	0.16	J	ug/L	29
007	HA01HMW11(121614)	Aqueous	1,1,1-Trichloroethane	8260B	0.20	J	ug/L	29
008	HA01HMW06(121714)	Aqueous	Benzene	8260B	0.87	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	Carbon disulfide	8260B	0.33	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	0.39	J	ug/L	31
008	HA01HMW06(121714)	Aqueous	Vinyl chloride	8260B	0.34	J	ug/L	31
009	HA01MW14D(121714)	Aqueous	Carbon disulfide	8260B	0.35	J	ug/L	35
010	D2(121614)	Aqueous	Carbon disulfide	8260B	0.36	J	ug/L	38
010	D2(121614)	Aqueous	gamma-BHC (Lindane)	8081B	0.0083	BJP	ug/L	40
010	D2(121614)	Aqueous	alpha-BHC	8081B	0.0010	BJP	ug/L	40
010	D2(121614)	Aqueous	beta-BHC	8081B	0.0046	J	ug/L	40
010	D2(121614)	Aqueous	delta-BHC	8081B	0.0026	BJP	ug/L	40
010	D2(121614)	Aqueous	alpha-Chlordane	8081B	0.0018	JP	ug/L	40
010	D2(121614)	Aqueous	gamma-Chlordane	8081B	0.0034	JP	ug/L	40
010	D2(121614)	Aqueous	4,4'-DDT	8081B	0.0070	JP	ug/L	40

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
010	D2(121614)	Aqueous	Endosulfan I	8081B	0.0023	JP	ug/L	40
010	D2(121614)	Aqueous	Endosulfan II	8081B	0.0049	JP	ug/L	40
010	D2(121614)	Aqueous	Dissolved Barium	6010C	0.076		mg/L	41
010	D2(121614)	Aqueous	Dissolved Chromium	6010C	0.0066		mg/L	41
010	D2(121614)	Aqueous	Dissolved Lead	6010C	0.0067	J	mg/L	41
010	D2(121614)	Aqueous	Barium	6010C	0.12		mg/L	42
010	D2(121614)	Aqueous	Chromium	6010C	0.25		mg/L	42
010	D2(121614)	Aqueous	Lead	6010C	0.023		mg/L	42
010	D2(121614)	Aqueous	Mercury	7470A	0.000027	J	mg/L	42
012	HA01MW15(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	2.6		ug/L	44
012	HA01MW15(121714)	Aqueous	Dissolved Barium	6010C	0.036		mg/L	46
012	HA01MW15(121714)	Aqueous	Dissolved Lead	6010C	0.0041	J	mg/L	46
012	HA01MW15(121714)	Aqueous	Barium	6010C	0.040		mg/L	47
012	HA01MW15(121714)	Aqueous	Lead	6010C	0.0061	J	mg/L	47
012	HA01MW15(121714)	Aqueous	Mercury	7470A	0.000017	J	mg/L	47
012	HA01MW15(121714)	Aqueous	Silver	6010C	0.00040	J	mg/L	47
013	HA01HMW24(121714)	Aqueous	Benzene	8260B	6.1		ug/L	48
013	HA01HMW24(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	48
013	HA01HMW24(121714)	Aqueous	Ethylbenzene	8260B	5.6		ug/L	48
013	HA01HMW24(121714)	Aqueous	Xylenes (total)	8260B	0.35	J	ug/L	48
014	HA01HMW23(121714)	Aqueous	Benzene	8260B	1.1		ug/L	52
014	HA01HMW23(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	52
014	HA01HMW23(121714)	Aqueous	Chlorobenzene	8260B	2.9		ug/L	52
014	HA01HMW23(121714)	Aqueous	1,2-Dichlorobenzene	8260B	0.46	J	ug/L	52
014	HA01HMW23(121714)	Aqueous	Ethylbenzene	8260B	3.0		ug/L	52
014	HA01HMW23(121714)	Aqueous	Naphthalene	8270D	9.0	J	ug/L	55
015	HA01HMW10(121714)	Aqueous	Acetone	8260B	9.3	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Benzene	8260B	19		ug/L	56
015	HA01HMW10(121714)	Aqueous	Carbon disulfide	8260B	0.33	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Chlorobenzene	8260B	0.38	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	cis-1,2-Dichloroethene	8260B	0.54	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Ethylbenzene	8260B	0.42	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Toluene	8260B	0.35	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	1,1,1-Trichloroethane	8260B	0.20	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Vinyl chloride	8260B	0.23	J	ug/L	56
015	HA01HMW10(121714)	Aqueous	Xylenes (total)	8260B	0.62	J	ug/L	56
016	HA01SW03(121714)	Aqueous	Carbon disulfide	8260B	0.32	J	ug/L	59
016	HA01SW03(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0012	BJP	ug/L	63
016	HA01SW03(121714)	Aqueous	Arsenic	6020A	0.46	J	ug/L	64
016	HA01SW03(121714)	Aqueous	Barium	6020A	28	B	ug/L	64
016	HA01SW03(121714)	Aqueous	Lead	6020A	0.74	J	ug/L	64
016	HA01SW03(121714)	Aqueous	Selenium	6020A	0.80	J	ug/L	64
017	HA01SW02(121714)	Aqueous	Carbon disulfide	8260B	0.35	J	ug/L	67
017	HA01SW02(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0017	BJP	ug/L	71
017	HA01SW02(121714)	Aqueous	Arsenic	6020A	0.36	J	ug/L	72
017	HA01SW02(121714)	Aqueous	Barium	6020A	28	B	ug/L	72
017	HA01SW02(121714)	Aqueous	Lead	6020A	0.91	J	ug/L	72
017	HA01SW02(121714)	Aqueous	Selenium	6020A	1.5		ug/L	72

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
018	HA01SW01(121714)	Aqueous	Benzene	8260B	0.27	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Carbon disulfide	8260B	0.64	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Ethylbenzene	8260B	0.40	J	ug/L	75
018	HA01SW01(121714)	Aqueous	Xylenes (total)	8260B	1.8		ug/L	75
018	HA01SW01(121714)	Aqueous	beta-BHC	8081B	0.0048	J	ug/L	79
018	HA01SW01(121714)	Aqueous	Methoxychlor	8081B	0.0020	JP	ug/L	79
018	HA01SW01(121714)	Aqueous	Arsenic	6020A	0.53	J	ug/L	80
018	HA01SW01(121714)	Aqueous	Barium	6020A	29	B	ug/L	80
018	HA01SW01(121714)	Aqueous	Lead	6020A	1.1		ug/L	80
018	HA01SW01(121714)	Aqueous	Selenium	6020A	1.4		ug/L	80
019	D1(121714)	Aqueous	Benzene	8260B	0.31	J	ug/L	83
019	D1(121714)	Aqueous	Carbon disulfide	8260B	0.55	J	ug/L	83
019	D1(121714)	Aqueous	Ethylbenzene	8260B	0.34	J	ug/L	83
019	D1(121714)	Aqueous	Xylenes (total)	8260B	1.9		ug/L	83
019	D1(121714)	Aqueous	gamma-BHC (Lindane)	8081B	0.0020	BJP	ug/L	87
019	D1(121714)	Aqueous	alpha-BHC	8081B	0.0015	BJP	ug/L	87
019	D1(121714)	Aqueous	delta-BHC	8081B	0.0015	BJ	ug/L	87
019	D1(121714)	Aqueous	Endrin	8081B	0.0010	BJP	ug/L	87
019	D1(121714)	Aqueous	Endrin aldehyde	8081B	0.0019	JP	ug/L	87
019	D1(121714)	Aqueous	Barium	6010C	0.029		mg/L	88
019	D1(121714)	Aqueous	Lead	6010C	0.0030	J	mg/L	88
019	D1(121714)	Aqueous	Silver	6010C	0.00070	J	mg/L	88
020	HA01SD03(121714)	Solid	Hexavalent Chromium	7196A	0.60	J	mg/kg	89
020	HA01SD03(121714)	Solid	Benzo(a)anthracene	8270D	12	J	ug/kg	92
020	HA01SD03(121714)	Solid	Benzo(b)fluoranthene	8270D	14	J	ug/kg	92
020	HA01SD03(121714)	Solid	Caprolactam	8270D	42		ug/kg	92
020	HA01SD03(121714)	Solid	Fluoranthene	8270D	17	J	ug/kg	92
020	HA01SD03(121714)	Solid	Phenol	8270D	11	J	ug/kg	93
020	HA01SD03(121714)	Solid	Endrin ketone	8081B	0.56	JP	ug/kg	94
020	HA01SD03(121714)	Solid	Arsenic	6010C	0.23	J	mg/kg	95
020	HA01SD03(121714)	Solid	Barium	6010C	3.5		mg/kg	95
020	HA01SD03(121714)	Solid	Cadmium	6010C	0.037	J	mg/kg	95
020	HA01SD03(121714)	Solid	Chromium	6010C	1.2		mg/kg	95
020	HA01SD03(121714)	Solid	Lead	6010C	1.6		mg/kg	95
021	HA01SD02(121714)	Solid	Hexavalent Chromium	7196A	0.65	J	mg/kg	96
021	HA01SD02(121714)	Solid	Benzo(a)anthracene	8270D	13	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(a)pyrene	8270D	11	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(b)fluoranthene	8270D	15	J	ug/kg	99
021	HA01SD02(121714)	Solid	Benzo(g,h,i)perylene	8270D	14	J	ug/kg	99
021	HA01SD02(121714)	Solid	Fluoranthene	8270D	15	J	ug/kg	99
021	HA01SD02(121714)	Solid	Phenol	8270D	12	J	ug/kg	100
021	HA01SD02(121714)	Solid	Arsenic	6010C	0.29	J	mg/kg	102
021	HA01SD02(121714)	Solid	Barium	6010C	14		mg/kg	102
021	HA01SD02(121714)	Solid	Cadmium	6010C	0.063	J	mg/kg	102
021	HA01SD02(121714)	Solid	Chromium	6010C	3.5		mg/kg	102
021	HA01SD02(121714)	Solid	Lead	6010C	3.2		mg/kg	102
022	HA01SD01(121714)	Solid	Hexavalent Chromium	7196A	0.56	J	mg/kg	103
022	HA01SD01(121714)	Solid	Acetone	8260B	11	J	ug/kg	104

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
022	HA01SD01(121714)	Solid	Acenaphthene	8270D	34	J	ug/kg	106
022	HA01SD01(121714)	Solid	Anthracene	8270D	88		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(a)anthracene	8270D	630		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(a)pyrene	8270D	720		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(b)fluoranthene	8270D	1400		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(g,h,i)perylene	8270D	360		ug/kg	106
022	HA01SD01(121714)	Solid	Benzo(k)fluoranthene	8270D	610		ug/kg	106
022	HA01SD01(121714)	Solid	Carbazole	8270D	170		ug/kg	106
022	HA01SD01(121714)	Solid	Chrysene	8270D	840		ug/kg	106
022	HA01SD01(121714)	Solid	bis(2-Ethylhexyl)phthalate	8270D	150		ug/kg	106
022	HA01SD01(121714)	Solid	Fluoranthene	8270D	2000		ug/kg	106
022	HA01SD01(121714)	Solid	Fluorene	8270D	46	J	ug/kg	106
022	HA01SD01(121714)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	360		ug/kg	107
022	HA01SD01(121714)	Solid	Phenanthrene	8270D	920		ug/kg	107
022	HA01SD01(121714)	Solid	Pyrene	8270D	1200		ug/kg	107
022	HA01SD01(121714)	Solid	delta-BHC	8081B	0.62	JP	ug/kg	108
022	HA01SD01(121714)	Solid	gamma-BHC (Lindane)	8081B	2.4	JP	ug/kg	108
022	HA01SD01(121714)	Solid	4,4'-DDD	8081B	1.0	JP	ug/kg	108
022	HA01SD01(121714)	Solid	4,4'-DDT	8081B	2.7	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endosulfan sulfate	8081B	3.9	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin	8081B	1.8	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin aldehyde	8081B	2.0	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Endrin ketone	8081B	4.7	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Methoxychlor	8081B	13	JP	ug/kg	108
022	HA01SD01(121714)	Solid	Arsenic	6010C	0.47	J	mg/kg	109
022	HA01SD01(121714)	Solid	Barium	6010C	14		mg/kg	109
022	HA01SD01(121714)	Solid	Cadmium	6010C	0.12		mg/kg	109
022	HA01SD01(121714)	Solid	Chromium	6010C	4.3		mg/kg	109
022	HA01SD01(121714)	Solid	Lead	6010C	5.0		mg/kg	109
023	D2(121714)	Solid	Hexavalent Chromium	7196A	0.82	J	mg/kg	110
023	D2(121714)	Solid	Acenaphthene	8270D	63	J	ug/kg	113
023	D2(121714)	Solid	Anthracene	8270D	260		ug/kg	113
023	D2(121714)	Solid	Benzo(a)anthracene	8270D	960		ug/kg	113
023	D2(121714)	Solid	Benzo(a)pyrene	8270D	980		ug/kg	113
023	D2(121714)	Solid	Benzo(b)fluoranthene	8270D	2200		ug/kg	113
023	D2(121714)	Solid	Benzo(g,h,i)perylene	8270D	370		ug/kg	113
023	D2(121714)	Solid	Benzo(k)fluoranthene	8270D	820		ug/kg	113
023	D2(121714)	Solid	Carbazole	8270D	320		ug/kg	113
023	D2(121714)	Solid	Chrysene	8270D	1300		ug/kg	113
023	D2(121714)	Solid	Dibenzofuran	8270D	40	J	ug/kg	113
023	D2(121714)	Solid	bis(2-Ethylhexyl)phthalate	8270D	1100		ug/kg	113
023	D2(121714)	Solid	Fluoranthene	8270D	2900		ug/kg	113
023	D2(121714)	Solid	Fluorene	8270D	86		ug/kg	113
023	D2(121714)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	390		ug/kg	114
023	D2(121714)	Solid	Phenanthrene	8270D	1200		ug/kg	114
023	D2(121714)	Solid	Pyrene	8270D	1700		ug/kg	114
023	D2(121714)	Solid	4,4'-DDD	8081B	2.7	JP	ug/kg	115
023	D2(121714)	Solid	4,4'-DDT	8081B	4.1	JP	ug/kg	115

Executive Summary (Continued)

Lot Number: PL18008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
023	D2(121714)	Solid	Dieldrin	8081B	0.78	JP	ug/kg	115
023	D2(121714)	Solid	Endosulfan II	8081B	0.76	JP	ug/kg	115
023	D2(121714)	Solid	Endosulfan sulfate	8081B	5.3	JP	ug/kg	115
023	D2(121714)	Solid	Endrin	8081B	2.0	JP	ug/kg	115
023	D2(121714)	Solid	Endrin aldehyde	8081B	2.4	JP	ug/kg	115
023	D2(121714)	Solid	Endrin ketone	8081B	4.5	JP	ug/kg	115
023	D2(121714)	Solid	Methoxychlor	8081B	17	JP	ug/kg	115
023	D2(121714)	Solid	Arsenic	6010C	0.56	J	mg/kg	116
023	D2(121714)	Solid	Barium	6010C	10		mg/kg	116
023	D2(121714)	Solid	Cadmium	6010C	0.21		mg/kg	116
023	D2(121714)	Solid	Chromium	6010C	4.8		mg/kg	116
023	D2(121714)	Solid	Lead	6010C	6.2		mg/kg	116
024	TRIP BLANK	Aqueous	Carbon disulfide	8260B	0.43	J	ug/L	117

(202 detections)

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-001			
Description: HA01HMW02(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1045							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1224	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.18	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-001
Description: HA01HMW02(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1045	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-002			
Description: HA01HWMW13(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1347							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	12/24/2014 1535	PMM2		63929		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	8.9	J	20	6.7	ug/L	2	
Benzene	71-43-2	8260B	30		1.0	0.13	ug/L	2	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	2	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	2	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	2	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	2	
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	2	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	2	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	2	
Chloroethane	75-00-3	8260B	0.55	J	2.0	0.47	ug/L	2	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	2	
Chloromethane (Methyl chloride)	74-87-3	8260B	0.51	J	1.0	0.35	ug/L	2	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	2	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	2	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	2	
1,2-Dichlorobenzene	95-50-1	8260B	0.40	J	1.0	0.33	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	2	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	2	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	2	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	2	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	2	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	2	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	2	
Ethylbenzene	100-41-4	8260B	27		1.0	0.33	ug/L	2	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	2	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	2	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	2	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	0.34	J	1.0	0.16	ug/L	2	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	2	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	2	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	2	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	2	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	2	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	2	
Xylenes (total)	1330-20-7	8260B	0.81	J	1.0	0.33	ug/L	2	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-002
Description: HA01HMW13(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1347	
Date Received: 12/18/2014	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-002

Description: HA01HWMW13(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1347

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1510	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	13		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 13 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-002

Description: HA01HMW13(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1347

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1510	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	88		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		57	37-129
2-Fluorophenol		61	24-127
Nitrobenzene-d5	N	197	38-127
Phenol-d5		60	28-128
Terphenyl-d14		41	10-148
2,4,6-Tribromophenol		78	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-003			
Description: D1(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	12/24/2014 1558	PMM2		63929

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	14	J	20	6.7	ug/L	2
Benzene	71-43-2	8260B	29		1.0	0.13	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	2
Chloroethane	75-00-3	8260B	0.65	J	2.0	0.47	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	0.73	J	1.0	0.35	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	0.40	J	1.0	0.33	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	2
Ethylbenzene	100-41-4	8260B	26		1.0	0.33	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	2
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	2
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	2
Xylenes (total)	1330-20-7	8260B	0.81	J	1.0	0.33	ug/L	2

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-003
Description: D1(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014	
Date Received: 12/18/2014	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-003

Description: D1(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1557	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	22		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 17 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-003

Description: D1(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 1557	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	120		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		71	37-129
2-Fluorophenol		62	24-127
Nitrobenzene-d5	N	227	38-127
Phenol-d5		72	28-128
Terphenyl-d14		61	10-148
2,4,6-Tribromophenol		96	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 18 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-004			
Description: HA01MW14(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1537							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-004			
Description: HA01MW14(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1537							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2029	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 1945	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0063	BJ	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		15	10-122					
Tetrachloro-m-xylene		62	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-004
Description: HA01MW14(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1537	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1757	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1154	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.074		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	0.0062		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0072	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-004

Description: HA01MW14(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1537

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	12/30/2014 1540	ECS	12/23/2014 1605	63838
1		7470A	1	12/29/2014 1755	HKB	12/29/2014 1445	64180
2	3005A	6010C	1	01/02/2015 1139	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.095		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.010		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.012		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 24 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-005			
Description: HA01HMW04(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1006							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2052	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-005
Description: HA01HMW04(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1006	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-006
Description: HA01MW17(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1106	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2014 2117	JJG		63640

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-006
Description: HA01MW17(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1106	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-007			
Description: HA01HMW11(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1406							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1245	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	56		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	2.4	J	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.57	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	0.16	J	1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	0.20	J	1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-007
Description: HA01HMW11(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1406	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-008			
Description: HA01HMW06(121714)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1452							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1307	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.87	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.33	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.39	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	0.34	J	1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-008
Description: HA01HMW06(121714)	Matrix: Aqueous
Date Sampled: 12/16/2014 1452	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-008

Description: HA01HMW06(121714)

Matrix: Aqueous

Date Sampled: 12/16/2014 1452

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1603	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 33 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-008

Description: HA01HMW06(121714)

Matrix: Aqueous

Date Sampled: 12/16/2014 1452

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1603	DRB1	12/22/2014 1616	63730

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		93	37-129					
2-Fluorophenol		86	24-127					
Nitrobenzene-d5		92	38-127					
Phenol-d5		83	28-128					
Terphenyl-d14		56	10-148					
2,4,6-Tribromophenol		103	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 34 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-009			
Description: HA01MW14D(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1151							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1329	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.35	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-009
Description: HA01MW14D(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1151	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1350	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.36	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-010
Description: D2(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1201	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-010			
Description: D2(121614)				Matrix: Aqueous			
Date Sampled: 12/16/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 1959	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0083	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0010	BJP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.0046	J	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0026	BJP	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	0.0018	JP	0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	0.0034	JP	0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	0.0070	JP	0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	0.0023	JP	0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	0.0049	JP	0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		17	10-122
Tetrachloro-m-xylene	N	43	46-119

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-010
Description: D2(121614)	Matrix: Aqueous
Date Sampled: 12/16/2014 1201	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1801	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1214	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.076		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	0.0066		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0067	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-010

Description: D2(121614)

Matrix: Aqueous

Date Sampled: 12/16/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1759	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1158	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.12		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	0.25		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.023		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000027	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 42 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-012			
Description: HA01MW15(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1015							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63424
1		(Hexavalent C) 7196A	1	12/18/2014 1341	BLB		63430

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1
Hexavalent Chromium - Dissolved	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-012			
Description: HA01MW15(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1015							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2014 1621	PMM2		63929

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.6		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-012
Description: HA01MW15(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1015	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Dissolved RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-012
Description: HA01MW15(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1015	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1812	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1236	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Dissolved Barium	7440-39-3	6010C	0.036		0.025	0.0075	mg/L	1
Dissolved Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Dissolved Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Dissolved Lead	7439-92-1	6010C	0.0041	J	0.010	0.0019	mg/L	1
Dissolved Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Dissolved Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Dissolved Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-012

Description: HA01MW15(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1015

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1803	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1219	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.040		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.0061	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000017	J	0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	0.00040	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 47 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-013			
Description: HA01HMW24(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 0942							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	12/22/2014 1412	DCS		63707		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	6.1		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	5.6		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.35	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-013

Description: HA01HMW24(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 0942

Date Received: 12/18/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 49 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-013

Description: HA01HMW24(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 0942

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2012	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 50 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-013

Description: HA01HMW24(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 0942

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2012	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		76	24-127
Nitrobenzene-d5	N	186	38-127
Phenol-d5		73	28-128
Terphenyl-d14		61	10-148
2,4,6-Tribromophenol		82	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 51 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-014			
Description: HA01HMW23(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1046							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1433	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	1.1		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	2.9		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	0.46	J	1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	3.0		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-014
Description: HA01HMW23(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1046	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-014

Description: HA01HMW23(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1046

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2035	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		10	0.90	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		10	1.6	ug/L	1
Anthracene	120-12-7	8270D	ND		10	1.3	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		10	1.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		10	1.6	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		10	2.0	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		10	2.3	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		10	1.2	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		10	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		50	17	ug/L	1
Carbazole	86-74-8	8270D	ND		10	2.5	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		10	2.2	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		10	1.3	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		10	0.80	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		10	1.2	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		10	1.3	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		10	1.1	ug/L	1
Chrysene	218-01-9	8270D	ND		10	1.2	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		10	1.3	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		10	1.6	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		50	8.1	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		10	1.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		50	17	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		50	17	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		10	3.1	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		50	17	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		50	15	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		50	2.5	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		20	4.5	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		20	4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		50	17	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		50	17	ug/L	1
Fluoranthene	206-44-0	8270D	ND		10	2.1	ug/L	1
Fluorene	86-73-7	8270D	ND		10	1.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		10	2.1	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		10	0.90	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		50	2.3	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		10	1.1	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		10	2.3	ug/L	1
Isophorone	78-59-1	8270D	ND		10	0.80	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		10	0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		10	1.7	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		20	5.7	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 54 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-014

Description: HA01HMW23(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1046

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	10	12/30/2014 2035	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	9.0	J	10	0.70	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		20	5.5	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		20	7.7	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		20	3.9	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		10	1.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		20	2.7	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		50	6.4	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		10	0.80	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		10	3.8	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		50	5.4	ug/L	1
Phenanthrene	85-01-8	8270D	ND		10	1.8	ug/L	1
Phenol	108-95-2	8270D	ND		10	1.1	ug/L	1
Pyrene	129-00-0	8270D	ND		10	1.6	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		10	1.8	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		10	2.2	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		71	37-129					
2-Fluorophenol		77	24-127					
Nitrobenzene-d5		75	38-127					
Phenol-d5		75	28-128					
Terphenyl-d14		65	10-148					
2,4,6-Tribromophenol		77	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 55 of 202

Level 1 Report v2.1

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-015			
Description: HA01HWMW10(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1156							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1455	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	9.3	J	20	6.7	ug/L	1
Benzene	71-43-2	8260B	19		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.33	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	0.38	J	2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	0.54	J	1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.42	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	0.35	J	1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	0.20	J	1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	0.23	J	1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.62	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-015
Description: HA01HMW10(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1156	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-016			
Description: HA01SW03(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1415							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-016			
Description: HA01SW03(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1415							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1517	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.32	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 60 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1626	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 61 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1626	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		84	37-129
2-Fluorophenol		85	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		86	28-128
Terphenyl-d14		82	10-148
2,4,6-Tribromophenol		74	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 62 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-016
Description: HA01SW03(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1415	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2014	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0012	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		58	10-122					
Tetrachloro-m-xylene		66	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-016

Description: HA01SW03(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1415

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0218	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1754	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.46	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	28	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.74	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.80	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 64 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-016
Description: HA01SW03(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1415	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1816	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-017			
Description: HA01SW02(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1445							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-017			
Description: HA01SW02(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1445							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1538	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.35	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1738	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 69 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1738	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		68	37-129					
2-Fluorophenol		70	24-127					
Nitrobenzene-d5		73	38-127					
Phenol-d5		68	28-128					
Terphenyl-d14		73	10-148					
2,4,6-Tribromophenol		61	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 70 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2029	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0017	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		54	10-122					
Tetrachloro-m-xylene		66	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-017

Description: HA01SW02(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1445

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0223	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1759	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.36	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	28	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.91	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	1.5		1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 72 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-017
Description: HA01SW02(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1445	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1818	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-018			
Description: HA01SW01(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1520							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-018			
Description: HA01SW01(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1520							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1601	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.27	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.64	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.40	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.8		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1802	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 77 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1802	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		78	37-129					
2-Fluorophenol		77	24-127					
Nitrobenzene-d5		86	38-127					
Phenol-d5		76	28-128					
Terphenyl-d14		81	10-148					
2,4,6-Tribromophenol		75	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 78 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2043	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	0.0048	J	0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.0020	JP	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		50	10-122					
Tetrachloro-m-xylene		60	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-018

Description: HA01SW01(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1520

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0229	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1805	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.53	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	29	B	5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	ND		5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.1		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	1.4		1.0	0.25	ug/L	2
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 80 of 202

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-018
Description: HA01SW01(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1520	
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1819	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/18/2014 1324	BLB		63424		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1623	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	0.31	J	1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.55	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	0.34	J	1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.9		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-019
Description: D1(121714)	Matrix: Aqueous
Date Sampled: 12/17/2014 1201	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3520C	8270D	1	12/30/2014 1826	DRB1	12/24/2014 0938	63919		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1	
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1	
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1	
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1	
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1	
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1	
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1	
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1	
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1	
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1	
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1	
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1	
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1	
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1	
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1	
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1	
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1	
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1	
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1	
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1	
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1	
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 85 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/30/2014 1826	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		75	37-129					
2-Fluorophenol		69	24-127					
Nitrobenzene-d5		83	38-127					
Phenol-d5		71	28-128					
Terphenyl-d14		86	10-148					
2,4,6-Tribromophenol		76	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 86 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-019			
Description: D1(121714)				Matrix: Aqueous			
Date Sampled: 12/17/2014 1201							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/26/2014 2058	MEM	12/23/2014 1200	63824

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0020	BJP	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	0.0015	BJP	0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	0.0015	BJ	0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	0.0010	BJP	0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.0019	JP	0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		48	10-122					
Tetrachloro-m-xylene		70	46-119					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-019

Description: D1(121714)

Matrix: Aqueous

Date Sampled: 12/17/2014 1201

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1821	HKB	12/29/2014 1445	64180
1	3005A	6010C	1	12/30/2014 1309	ECS	12/23/2014 1605	63838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.029		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.0030	J	0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	0.00070	J	0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 88 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.60	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/19/2014 1829	DCS		63558	6.09

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		21	6.9	ug/kg	1
Benzene	71-43-2	8260B	ND		5.1	1.1	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.1	1.7	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.1	0.72	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.1	1.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5.1	1.3	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5.1	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.1	1.7	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.1	1.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.1	0.85	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.1	1.0	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		5.1	0.69	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.1	1.5	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.1	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.1	0.87	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.1	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.1	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.1	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.1	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.1	0.75	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.1	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.1	0.78	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.1	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.1	0.94	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.1	0.70	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.1	0.84	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.1	1.7	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		10	1.3	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		5.1	0.24	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5.1	1.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.1	0.41	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	1.5	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		5.1	0.42	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.1	2.7	ug/kg	1
Styrene	100-42-5	8260B	ND		5.1	1.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.1	0.48	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.1	0.51	ug/kg	1
Toluene	108-88-3	8260B	ND		5.1	1.7	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.1	0.65	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.1	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.1	0.87	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.1	0.81	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-020			
Description: HA01SD03(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1410				% Solids: 79.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/19/2014 1829	DCS		63558	6.09

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.1	1.5	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.1	0.89	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.1	3.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		88	47-138
Toluene-d8		94	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	12/31/2014 1713	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		40	13	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		40	13	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		40	22	ug/kg	1	
Anthracene	120-12-7	8270D	ND		40	9.0	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		40	21	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		40	21	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	12	J	40	11	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	ND		40	11	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	14	J	40	12	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		40	14	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		40	12	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		40	12	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		40	12	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		82	27	ug/kg	1	
Caprolactam	105-60-2	8270D	42		40	21	ug/kg	1	
Carbazole	86-74-8	8270D	ND		40	17	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		40	10	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		40	8.3	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		40	12	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		40	11	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		40	13	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		40	13	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		40	11	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		40	14	ug/kg	1	
Chrysene	218-01-9	8270D	ND		40	14	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		40	11	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		40	13	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		210	44	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		40	13	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		40	13	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		40	13	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		40	15	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		40	21	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		210	160	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		210	140	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		82	22	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		82	21	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		40	39	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		40	14	ug/kg	1	
Fluoranthene	206-44-0	8270D	17	J	40	13	ug/kg	1	
Fluorene	86-73-7	8270D	ND		40	11	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		40	18	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		40	13	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		210	30	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 92 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	12/31/2014 1713	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		40	11	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		40	12	ug/kg	1
Isophorone	78-59-1	8270D	ND		40	9.0	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		40	12	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		40	7.4	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		82	15	ug/kg	1
Naphthalene	91-20-3	8270D	ND		40	12	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		82	28	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		82	47	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		82	23	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		40	6.6	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		82	22	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		210	120	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		40	16	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		40	10	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		210	170	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		40	11	ug/kg	1
Phenol	108-95-2	8270D	11	J	40	11	ug/kg	1
Pyrene	129-00-0	8270D	ND		40	16	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		40	11	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		40	12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		57	33-102
2-Fluorophenol		60	28-104
Nitrobenzene-d5		51	22-109
Phenol-d5		61	27-103
Terphenyl-d14		82	41-120
2,4,6-Tribromophenol		68	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 93 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-020
Description: HA01SD03(121714)	Matrix: Solid
Date Sampled: 12/17/2014 1410	% Solids: 79.8 12/18/2014 2018
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1220	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	ND		21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		21	0.46	ug/kg	1
Endrin	72-20-8	8081B	ND		21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	0.56	JP	21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		72	57-110					
Tetrachloro-m-xylene		55	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-020

Description: HA01SD03(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1410

% Solids: 79.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1227	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1859	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.23	J	0.62	0.23	mg/kg	1
Barium	7440-39-3	6010C	3.5		1.6	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.037	J	0.12	0.013	mg/kg	1
Chromium	7440-47-3	6010C	1.2		0.31	0.063	mg/kg	1
Lead	7439-92-1	6010C	1.6		0.62	0.12	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.097	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.62	0.22	mg/kg	1
Silver	7440-22-4	6010C	ND		0.31	0.052	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 95 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.65	J	1.2	0.31	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and $\geq$ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1544	DCS		63634	6.52

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		19	6.4	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		9.5	2.3	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.79	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.95	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		4.7	0.64	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.81	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		4.7	1.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.95	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.65	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.78	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.5	1.2	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		4.7	0.22	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		4.7	0.93	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.7	0.38	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.5	1.4	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		4.7	0.39	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.5	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.45	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	0.47	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		4.7	0.60	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.81	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.75	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-021			
Description: HA01SD02(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1440				% Solids: 80.8 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1544	DCS		63634	6.52

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.7	0.82	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		4.7	2.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		97	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	01/02/2015 1211	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		40	13	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		40	13	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		40	22	ug/kg	1	
Anthracene	120-12-7	8270D	ND		40	9.0	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		40	21	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		40	21	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	13	J	40	11	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	11	J	40	11	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	15	J	40	12	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	14	J	40	14	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		40	12	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		40	12	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		40	12	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		82	27	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		40	21	ug/kg	1	
Carbazole	86-74-8	8270D	ND		40	17	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		40	10	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		40	8.2	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		40	12	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		40	11	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		40	13	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		40	13	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		40	11	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		40	14	ug/kg	1	
Chrysene	218-01-9	8270D	ND		40	13	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		40	11	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		40	13	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		210	44	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		40	13	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		40	13	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		40	13	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		40	15	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		40	21	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		210	160	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		210	140	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		82	22	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		82	21	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		40	39	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		40	14	ug/kg	1	
Fluoranthene	206-44-0	8270D	15	J	40	13	ug/kg	1	
Fluorene	86-73-7	8270D	ND		40	11	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		40	18	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		40	13	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		210	30	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 99 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	01/02/2015 1211	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		40	11	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		40	12	ug/kg	1
Isophorone	78-59-1	8270D	ND		40	9.0	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		40	12	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		40	7.3	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		82	15	ug/kg	1
Naphthalene	91-20-3	8270D	ND		40	12	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		82	28	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		82	47	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		82	23	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		40	6.5	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		82	22	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		210	120	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		40	16	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		40	10	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		210	170	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		40	11	ug/kg	1
Phenol	108-95-2	8270D	12	J	40	11	ug/kg	1
Pyrene	129-00-0	8270D	ND		40	16	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		40	11	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		40	12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		68	33-102
2-Fluorophenol		69	28-104
Nitrobenzene-d5		59	22-109
Phenol-d5		73	27-103
Terphenyl-d14		101	41-120
2,4,6-Tribromophenol		81	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 100 of 202

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-021
Description: HA01SD02(121714)	Matrix: Solid
Date Sampled: 12/17/2014 1440	% Solids: 80.8 12/18/2014 2018
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1234	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	ND		21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		21	0.46	ug/kg	1
Endrin	72-20-8	8081B	ND		21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		70	57-110					
Tetrachloro-m-xylene		58	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-021

Description: HA01SD02(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1440

% Solids: 80.8 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1229	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1904	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.29	J	0.57	0.21	mg/kg	1
Barium	7440-39-3	6010C	14		1.5	0.10	mg/kg	1
Cadmium	7440-43-9	6010C	0.063	J	0.11	0.012	mg/kg	1
Chromium	7440-47-3	6010C	3.5		0.29	0.058	mg/kg	1
Lead	7439-92-1	6010C	3.2		0.57	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.096	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.57	0.20	mg/kg	1
Silver	7440-22-4	6010C	ND		0.29	0.048	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 102 of 202

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.56	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1605	DCS		63634	5.23

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	11	J	25	8.2	ug/kg	1
Benzene	71-43-2	8260B	ND		6.1	1.3	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.1	2.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.1	0.86	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.1	2.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		12	2.9	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.1	1.6	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.1	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.1	2.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.1	1.6	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.1	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.1	1.2	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.1	0.83	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.1	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.1	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.1	1.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.1	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.1	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.1	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.1	2.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.1	0.90	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.1	1.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.1	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.1	0.93	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.1	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.1	1.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.1	0.83	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.1	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.1	2.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		12	1.6	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		6.1	0.28	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.1	1.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.1	0.49	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		12	1.8	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.1	0.50	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.1	3.2	ug/kg	1
Styrene	100-42-5	8260B	ND		6.1	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.1	0.58	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.1	0.61	ug/kg	1
Toluene	108-88-3	8260B	ND		6.1	2.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.1	0.77	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.1	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.1	1.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.1	0.97	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1605	DCS		63634	5.23

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.1	2.3	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.1	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.1	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.1	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		94	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-022

Description: HA01SD01(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1520

% Solids: 77.9 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1639	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	34	J	84	27	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		84	26	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		84	46	ug/kg	1	
Anthracene	120-12-7	8270D	88		84	19	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		84	43	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		84	43	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	630		84	22	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	720		84	24	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	1400		84	24	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	360		84	29	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	610		84	24	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		84	25	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		84	25	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		170	56	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		84	43	ug/kg	1	
Carbazole	86-74-8	8270D	170		84	36	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		84	21	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		84	17	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		84	26	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		84	23	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		84	28	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		84	28	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		84	23	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		84	29	ug/kg	1	
Chrysene	218-01-9	8270D	840		84	28	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		84	23	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		84	27	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		430	92	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		84	26	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		84	28	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		84	28	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		84	32	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		84	45	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		430	330	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		430	290	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		170	46	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		170	44	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		84	81	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	150		84	30	ug/kg	1	
Fluoranthene	206-44-0	8270D	2000		84	27	ug/kg	1	
Fluorene	86-73-7	8270D	46	J	84	23	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		84	37	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		84	28	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		430	62	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-022

Description: HA01SD01(121714)

Matrix: Solid

Date Sampled: 12/17/2014 1520

% Solids: 77.9 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	01/02/2015 1639	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		84	23	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	360		84	25	ug/kg	1
Isophorone	78-59-1	8270D	ND		84	19	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		84	25	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		84	15	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		170	30	ug/kg	1
Naphthalene	91-20-3	8270D	ND		84	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		170	58	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		170	98	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		170	48	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		84	14	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		170	47	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		430	240	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		84	32	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		84	21	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		430	350	ug/kg	1
Phenanthrene	85-01-8	8270D	920		84	23	ug/kg	1
Phenol	108-95-2	8270D	ND		84	23	ug/kg	1
Pyrene	129-00-0	8270D	1200		84	34	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		84	24	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		84	25	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		66	33-102
2-Fluorophenol		66	28-104
Nitrobenzene-d5		62	22-109
Phenol-d5		72	27-103
Terphenyl-d14		86	41-120
2,4,6-Tribromophenol		72	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-022			
Description: HA01SD01(121714)				Matrix: Solid			
Date Sampled: 12/17/2014 1520				% Solids: 77.9 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1249	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		22	0.53	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		22	0.57	ug/kg	1
beta-BHC	319-85-7	8081B	ND		22	0.46	ug/kg	1
delta-BHC	319-86-8	8081B	0.62	JP	22	0.27	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	2.4	JP	22	0.95	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		22	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		22	0.32	ug/kg	1
4,4'-DDD	72-54-8	8081B	1.0	JP	22	0.46	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		22	4.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	2.7	JP	22	0.89	ug/kg	1
Dieldrin	60-57-1	8081B	ND		22	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		22	0.52	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		22	0.41	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	3.9	JP	22	0.47	ug/kg	1
Endrin	72-20-8	8081B	1.8	JP	22	0.28	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	2.0	JP	22	0.46	ug/kg	1
Endrin ketone	53494-70-5	8081B	4.7	JP	22	0.46	ug/kg	1
Heptachlor	76-44-8	8081B	ND		22	0.72	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		22	0.46	ug/kg	1
Methoxychlor	72-43-5	8081B	13	JP	85	0.85	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1100	22	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	140	57-110					
Tetrachloro-m-xylene		63	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-022
Description: HA01SD01(121714)	Matrix: Solid
Date Sampled: 12/17/2014 1520	% Solids: 77.9 12/18/2014 2018
Date Received: 12/18/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1241	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1918	RKT	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.47	J	0.59	0.22	mg/kg	1
Barium	7440-39-3	6010C	14		1.5	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.12		0.12	0.012	mg/kg	1
Chromium	7440-47-3	6010C	4.3		0.29	0.059	mg/kg	1
Lead	7439-92-1	6010C	5.0		0.59	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.097	0.0069	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.59	0.20	mg/kg	1
Silver	7440-22-4	6010C	ND		0.29	0.049	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	0.82	J	1.3	0.32	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1626	DCS		63634	5.65

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		22	7.5	ug/kg	1
Benzene	71-43-2	8260B	ND		5.6	1.2	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.6	1.9	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.6	0.79	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.6	2.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		11	2.7	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5.6	1.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5.6	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.6	1.9	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.6	1.5	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.6	0.93	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.6	1.1	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		5.6	0.76	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.6	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.6	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.6	0.96	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.6	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.6	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.6	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.6	1.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.6	0.82	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.6	1.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.6	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.6	0.85	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.6	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.6	1.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.6	0.76	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.6	0.92	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.6	1.9	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		11	1.5	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		5.6	0.26	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5.6	1.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.6	0.45	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		11	1.7	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		5.6	0.46	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.6	2.9	ug/kg	1
Styrene	100-42-5	8260B	ND		5.6	1.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.6	0.53	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.6	0.56	ug/kg	1
Toluene	108-88-3	8260B	ND		5.6	1.9	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.6	0.71	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.6	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.6	0.96	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.6	0.89	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1626	DCS		63634	5.65

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.6	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.6	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.6	0.97	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.6	3.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		93	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-023

Description: D2(121714)

Matrix: Solid

Date Sampled: 12/17/2014

% Solids: 78.7 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1703	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	63	J	83	27	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		83	26	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		83	45	ug/kg	1	
Anthracene	120-12-7	8270D	260		83	19	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		83	43	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		83	43	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	960		83	22	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	980		83	23	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	2200		83	24	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	370		83	29	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	820		83	24	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		83	25	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		83	25	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		170	55	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		83	43	ug/kg	1	
Carbazole	86-74-8	8270D	320		83	36	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		83	21	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		83	17	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		83	25	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		83	23	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		83	28	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		83	28	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		83	23	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		83	29	ug/kg	1	
Chrysene	218-01-9	8270D	1300		83	28	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		83	23	ug/kg	1	
Dibenzofuran	132-64-9	8270D	40	J	83	26	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		430	91	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		83	26	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		83	28	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		83	28	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		83	31	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		83	44	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		430	320	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		430	280	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		170	46	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		170	43	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		83	80	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	1100		83	29	ug/kg	1	
Fluoranthene	206-44-0	8270D	2900		83	26	ug/kg	1	
Fluorene	86-73-7	8270D	86		83	23	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		83	37	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		83	27	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		430	61	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 113 of 202

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL18008-023

Description: D2(121714)

Matrix: Solid

Date Sampled: 12/17/2014

% Solids: 78.7 12/18/2014 2018

Date Received: 12/18/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	01/02/2015 1703	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		83	22	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	390		83	24	ug/kg	1
Isophorone	78-59-1	8270D	ND		83	18	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		83	25	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		83	15	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		170	30	ug/kg	1
Naphthalene	91-20-3	8270D	ND		83	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		170	57	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		170	97	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		170	48	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		83	13	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		170	46	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		430	240	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		83	32	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		83	21	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		430	350	ug/kg	1
Phenanthrene	85-01-8	8270D	1200		83	22	ug/kg	1
Phenol	108-95-2	8270D	ND		83	23	ug/kg	1
Pyrene	129-00-0	8270D	1700		83	33	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		83	23	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		83	25	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		35	33-102
2-Fluorophenol	N	25	28-104
Nitrobenzene-d5		22	22-109
Phenol-d5		32	27-103
Terphenyl-d14		81	41-120
2,4,6-Tribromophenol		66	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	01/07/2015 1303	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		21	0.52	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		21	0.56	ug/kg	1
beta-BHC	319-85-7	8081B	ND		21	0.45	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	0.26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		21	0.93	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		21	0.35	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	0.31	ug/kg	1
4,4'-DDD	72-54-8	8081B	2.7	JP	21	0.45	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		21	4.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	4.1	JP	21	0.87	ug/kg	1
Dieldrin	60-57-1	8081B	0.78	JP	21	0.35	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		21	0.51	ug/kg	1
Endosulfan II	33213-65-9	8081B	0.76	JP	21	0.40	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	5.3	JP	21	0.46	ug/kg	1
Endrin	72-20-8	8081B	2.0	JP	21	0.27	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	2.4	JP	21	0.45	ug/kg	1
Endrin ketone	53494-70-5	8081B	4.5	JP	21	0.45	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	0.71	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	0.45	ug/kg	1
Methoxychlor	72-43-5	8081B	17	JP	83	0.83	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1000	21	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	124	57-110					
Tetrachloro-m-xylene		65	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-023			
Description: D2(121714)				Matrix: Solid			
Date Sampled: 12/17/2014				% Solids: 78.7 12/18/2014 2018			
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1244	COH	12/30/2014 1244	64167
1	3050B	6010C	1	12/26/2014 1923	RKT	12/23/2014 0901	63790
2	3050B	6010C	1	12/31/2014 1426	ECS	12/23/2014 0901	63790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.56	J	0.61	0.23	mg/kg	2
Barium	7440-39-3	6010C	10		1.6	0.11	mg/kg	1
Cadmium	7440-43-9	6010C	0.21		0.12	0.013	mg/kg	1
Chromium	7440-47-3	6010C	4.8		0.31	0.062	mg/kg	1
Lead	7439-92-1	6010C	6.2		0.61	0.11	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.10	0.0073	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.61	0.21	mg/kg	2
Silver	7440-22-4	6010C	ND		0.31	0.051	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL18008-024			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/16/2014							
Date Received: 12/18/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2014 1644	DCS		63707

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	0.43	J	1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL18008-024
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/16/2014	
Date Received: 12/18/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63424-001

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 120 of 202
Level 1 Report v2.1

Inorganic non-metals - LCS

Sample ID: PQ63424-002

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.098		1	98	90-110	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 121 of 202

Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.076		1	76	75-125	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 122 of 202
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.079		1	79	3.3	75-125	20	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL18008-018MS

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.094		1	94	75-125	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 124 of 202

Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL18008-018MD

Matrix: Aqueous

Batch: 63424

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.095		1	95	0.92	75-125	20	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: PQ63430-001

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium - Dissolved	ND		1	0.020	0.0081	mg/L	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63430-002

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	0.10	0.098		1	98	90-110	12/18/2014 1324

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0017	N	1	1.7	75-125	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 128 of 202
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63430

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium - Dissolved	ND	0.10	0.0020	N	1	2.0	13	75-125	20	12/18/2014 1341

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 129 of 202
Level 1 Report v2.1

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63558-001

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/19/2014 1210
Benzene	ND		1	5.0	1.1	ug/kg	12/19/2014 1210
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Bromoform	ND		1	5.0	0.70	ug/kg	12/19/2014 1210
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/19/2014 1210
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/19/2014 1210
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/19/2014 1210
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/19/2014 1210
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Chloroethane	ND		1	5.0	1.3	ug/kg	12/19/2014 1210
Chloroform	ND		1	5.0	0.83	ug/kg	12/19/2014 1210
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/19/2014 1210
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/19/2014 1210
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/19/2014 1210
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/19/2014 1210
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/19/2014 1210
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/19/2014 1210
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/19/2014 1210
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/19/2014 1210
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/19/2014 1210
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/19/2014 1210
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
2-Hexanone	1.5	J	1	10	1.3	ug/kg	12/19/2014 1210
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/19/2014 1210
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/19/2014 1210
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/19/2014 1210
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/19/2014 1210
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/19/2014 1210
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/19/2014 1210
Styrene	ND		1	5.0	1.1	ug/kg	12/19/2014 1210
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/19/2014 1210
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/19/2014 1210
Toluene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/19/2014 1210
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/19/2014 1210
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/19/2014 1210
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/19/2014 1210

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63558-001

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/19/2014 1210
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/19/2014 1210
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/19/2014 1210
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/19/2014 1210
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		88	47-138				
1,2-Dichloroethane-d4		93	53-142				
Toluene-d8		93	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63558-002

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	130	60-140	12/19/2014 1109
Benzene	50	54		1	109	69-123	12/19/2014 1109
Bromodichloromethane	50	52		1	104	69-121	12/19/2014 1109
Bromoform	50	51		1	101	61-119	12/19/2014 1109
Bromomethane (Methyl bromide)	50	57		1	114	10-168	12/19/2014 1109
2-Butanone (MEK)	100	110		1	111	57-148	12/19/2014 1109
Carbon disulfide	50	60		1	119	58-122	12/19/2014 1109
Carbon tetrachloride	50	57		1	113	58-136	12/19/2014 1109
Chlorobenzene	50	52		1	104	59-129	12/19/2014 1109
Chloroethane	50	57		1	113	42-163	12/19/2014 1109
Chloroform	50	55		1	111	71-125	12/19/2014 1109
Chloromethane (Methyl chloride)	50	59		1	117	34-134	12/19/2014 1109
Cyclohexane	50	54		1	108	53-139	12/19/2014 1109
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	103	55-125	12/19/2014 1109
Dibromochloromethane	50	50		1	101	66-119	12/19/2014 1109
1,2-Dibromoethane (EDB)	50	50		1	100	74-124	12/19/2014 1109
1,2-Dichlorobenzene	50	52		1	105	57-131	12/19/2014 1109
1,4-Dichlorobenzene	50	50		1	101	52-133	12/19/2014 1109
1,3-Dichlorobenzene	50	53		1	106	51-134	12/19/2014 1109
Dichlorodifluoromethane	50	64		1	129	10-157	12/19/2014 1109
1,2-Dichloroethane	50	53		1	105	67-129	12/19/2014 1109
1,1-Dichloroethane	50	57		1	113	71-127	12/19/2014 1109
1,1-Dichloroethene	50	60		1	121	69-138	12/19/2014 1109
cis-1,2-Dichloroethene	50	58		1	115	70-122	12/19/2014 1109
trans-1,2-Dichloroethene	50	60		1	120	68-131	12/19/2014 1109
1,2-Dichloropropane	50	53		1	106	72-124	12/19/2014 1109
trans-1,3-Dichloropropene	50	52		1	105	70-124	12/19/2014 1109
cis-1,3-Dichloropropene	50	53		1	106	70-126	12/19/2014 1109
Ethylbenzene	50	53		1	106	59-128	12/19/2014 1109
2-Hexanone	100	110		1	105	54-137	12/19/2014 1109
Isopropylbenzene	50	55		1	110	50-136	12/19/2014 1109
Methyl acetate	50	57		1	114	59-137	12/19/2014 1109
Methyl tertiary butyl ether (MTBE)	50	56		1	113	70-130	12/19/2014 1109
4-Methyl-2-pentanone	100	110		1	105	60-134	12/19/2014 1109
Methylcyclohexane	50	61		1	121	41-144	12/19/2014 1109
Methylene chloride	50	55		1	110	70-130	12/19/2014 1109
Styrene	50	55		1	109	54-136	12/19/2014 1109
1,1,2,2-Tetrachloroethane	50	49		1	98	69-132	12/19/2014 1109
Tetrachloroethene	50	55		1	109	45-150	12/19/2014 1109
Toluene	50	55		1	109	61-129	12/19/2014 1109
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	64		1	129	49-136	12/19/2014 1109
1,2,4-Trichlorobenzene	50	54		1	108	34-145	12/19/2014 1109
1,1,1-Trichloroethane	50	58		1	115	63-128	12/19/2014 1109
1,1,2-Trichloroethane	50	50		1	99	55-128	12/19/2014 1109

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63558-002

Matrix: Solid

Batch: 63558

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	55		1	109	62-126	12/19/2014 1109
Trichlorofluoromethane	50	56		1	112	45-138	12/19/2014 1109
Vinyl chloride	50	59		1	117	42-132	12/19/2014 1109
Xylenes (total)	100	110		1	110	58-128	12/19/2014 1109
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		88	47-138				
1,2-Dichloroethane-d4		86	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/21/2014 1335
Benzene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Bromoform	ND		1	5.0	0.70	ug/kg	12/21/2014 1335
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/21/2014 1335
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Chloroethane	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Chloroform	ND		1	5.0	0.83	ug/kg	12/21/2014 1335
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/21/2014 1335
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/21/2014 1335
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/21/2014 1335
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/21/2014 1335
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/21/2014 1335
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/21/2014 1335
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/21/2014 1335
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
2-Hexanone	2.0	J	1	10	1.3	ug/kg	12/21/2014 1335
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/21/2014 1335
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/21/2014 1335
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/21/2014 1335
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/21/2014 1335
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/21/2014 1335
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/21/2014 1335
Styrene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/21/2014 1335
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/21/2014 1335
Toluene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/21/2014 1335
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/21/2014 1335

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/21/2014 1335
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/21/2014 1335
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/21/2014 1335
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	126	60-140	12/21/2014 1239
Benzene	50	47		1	95	69-123	12/21/2014 1239
Bromodichloromethane	50	47		1	95	69-121	12/21/2014 1239
Bromoform	50	48		1	96	61-119	12/21/2014 1239
Bromomethane (Methyl bromide)	50	53		1	106	10-168	12/21/2014 1239
2-Butanone (MEK)	100	110		1	106	57-148	12/21/2014 1239
Carbon disulfide	50	49		1	97	58-122	12/21/2014 1239
Carbon tetrachloride	50	48		1	95	58-136	12/21/2014 1239
Chlorobenzene	50	46		1	92	59-129	12/21/2014 1239
Chloroethane	50	53		1	106	42-163	12/21/2014 1239
Chloroform	50	49		1	98	71-125	12/21/2014 1239
Chloromethane (Methyl chloride)	50	55		1	109	34-134	12/21/2014 1239
Cyclohexane	50	46		1	91	53-139	12/21/2014 1239
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	55-125	12/21/2014 1239
Dibromochloromethane	50	47		1	94	66-119	12/21/2014 1239
1,2-Dibromoethane (EDB)	50	47		1	93	74-124	12/21/2014 1239
1,4-Dichlorobenzene	50	46		1	92	52-133	12/21/2014 1239
1,2-Dichlorobenzene	50	46		1	92	57-131	12/21/2014 1239
1,3-Dichlorobenzene	50	47		1	93	51-134	12/21/2014 1239
Dichlorodifluoromethane	50	59		1	117	10-157	12/21/2014 1239
1,2-Dichloroethane	50	48		1	96	67-129	12/21/2014 1239
1,1-Dichloroethane	50	49		1	99	71-127	12/21/2014 1239
1,1-Dichloroethene	50	50		1	100	69-138	12/21/2014 1239
trans-1,2-Dichloroethene	50	50		1	100	68-131	12/21/2014 1239
cis-1,2-Dichloroethene	50	50		1	100	70-122	12/21/2014 1239
1,2-Dichloropropane	50	47		1	95	72-124	12/21/2014 1239
trans-1,3-Dichloropropene	50	47		1	94	70-124	12/21/2014 1239
cis-1,3-Dichloropropene	50	47		1	93	70-126	12/21/2014 1239
Ethylbenzene	50	46		1	92	59-128	12/21/2014 1239
2-Hexanone	100	100		1	103	54-137	12/21/2014 1239
Isopropylbenzene	50	46		1	92	50-136	12/21/2014 1239
Methyl acetate	50	56		1	113	59-137	12/21/2014 1239
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	12/21/2014 1239
4-Methyl-2-pentanone	100	100		1	102	60-134	12/21/2014 1239
Methylcyclohexane	50	49		1	98	41-144	12/21/2014 1239
Methylene chloride	50	50		1	99	70-130	12/21/2014 1239
Styrene	50	49		1	99	54-136	12/21/2014 1239
1,1,2,2-Tetrachloroethane	50	47		1	94	69-132	12/21/2014 1239
Tetrachloroethene	50	47		1	94	45-150	12/21/2014 1239
Toluene	50	46		1	92	61-129	12/21/2014 1239
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	49-136	12/21/2014 1239
1,2,4-Trichlorobenzene	50	43		1	87	34-145	12/21/2014 1239
1,1,1-Trichloroethane	50	48		1	96	63-128	12/21/2014 1239
1,1,2-Trichloroethane	50	47		1	94	55-128	12/21/2014 1239

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	94	62-126	12/21/2014 1239
Trichlorofluoromethane	50	52		1	104	45-138	12/21/2014 1239
Vinyl chloride	50	53		1	106	42-132	12/21/2014 1239
Xylenes (total)	100	96		1	96	58-128	12/21/2014 1239
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	47-138				
1,2-Dichloroethane-d4		105	53-142				
Toluene-d8		110	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63640-001

Matrix: Aqueous

Batch: 63640

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/21/2014 1340
Benzene	ND		1	1.0	0.13	ug/L	12/21/2014 1340
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Bromoform	ND		1	1.0	0.66	ug/L	12/21/2014 1340
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/21/2014 1340
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/21/2014 1340
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/21/2014 1340
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/21/2014 1340
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/21/2014 1340
Chloroethane	ND		1	2.0	0.47	ug/L	12/21/2014 1340
Chloroform	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/21/2014 1340
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/21/2014 1340
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/21/2014 1340
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/21/2014 1340
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/21/2014 1340
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/21/2014 1340
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/21/2014 1340
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/21/2014 1340
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/21/2014 1340
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
2-Hexanone	ND		1	10	0.27	ug/L	12/21/2014 1340
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/21/2014 1340
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/21/2014 1340
Methylene chloride	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Styrene	ND		1	1.0	0.12	ug/L	12/21/2014 1340
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/21/2014 1340
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/21/2014 1340
Toluene	ND		1	1.0	0.33	ug/L	12/21/2014 1340
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/21/2014 1340
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/21/2014 1340
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/21/2014 1340
Trichloroethene	ND		1	1.0	0.18	ug/L	12/21/2014 1340
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/21/2014 1340
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/21/2014 1340
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63640-002

Matrix: Aqueous

Batch: 63640

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	97		1	97	60-140	12/21/2014 1253
Benzene	50	52		1	105	70-130	12/21/2014 1253
Bromodichloromethane	50	53		1	107	70-130	12/21/2014 1253
Bromoform	50	49		1	97	70-130	12/21/2014 1253
Bromomethane (Methyl bromide)	50	48		1	96	60-140	12/21/2014 1253
2-Butanone (MEK)	100	97		1	97	60-140	12/21/2014 1253
Carbon disulfide	50	53		1	106	60-140	12/21/2014 1253
Carbon tetrachloride	50	55		1	109	70-130	12/21/2014 1253
Chlorobenzene	50	51		1	102	70-130	12/21/2014 1253
Chloroethane	50	51		1	102	42-163	12/21/2014 1253
Chloroform	50	50		1	101	70-130	12/21/2014 1253
Chloromethane (Methyl chloride)	50	53		1	107	60-140	12/21/2014 1253
Dibromochloromethane	50	52		1	104	70-130	12/21/2014 1253
1,2-Dichlorobenzene	50	51		1	102	70-130	12/21/2014 1253
1,3-Dichlorobenzene	50	51		1	103	70-130	12/21/2014 1253
1,4-Dichlorobenzene	50	49		1	97	70-130	12/21/2014 1253
1,2-Dichloroethane	50	49		1	98	70-130	12/21/2014 1253
1,1-Dichloroethane	50	51		1	101	70-130	12/21/2014 1253
trans-1,2-Dichloroethene	50	52		1	104	70-130	12/21/2014 1253
1,1-Dichloroethene	50	53		1	105	70-130	12/21/2014 1253
cis-1,2-Dichloroethene	50	49		1	99	70-130	12/21/2014 1253
1,2-Dichloropropane	50	53		1	106	70-130	12/21/2014 1253
cis-1,3-Dichloropropene	50	56		1	112	70-130	12/21/2014 1253
trans-1,3-Dichloropropene	50	54		1	107	70-130	12/21/2014 1253
Ethylbenzene	50	53		1	105	70-130	12/21/2014 1253
2-Hexanone	100	100		1	103	60-140	12/21/2014 1253
Methyl tertiary butyl ether (MTBE)	50	49		1	97	70-130	12/21/2014 1253
4-Methyl-2-pentanone	100	99		1	99	60-140	12/21/2014 1253
Methylene chloride	50	47		1	95	70-130	12/21/2014 1253
Styrene	50	54		1	108	70-130	12/21/2014 1253
1,1,2,2-Tetrachloroethane	50	49		1	97	60-140	12/21/2014 1253
Tetrachloroethene	50	52		1	103	70-130	12/21/2014 1253
Toluene	50	55		1	110	70-130	12/21/2014 1253
1,2,4-Trichlorobenzene	50	51		1	102	70-130	12/21/2014 1253
1,1,2-Trichloroethane	50	50		1	99	70-130	12/21/2014 1253
1,1,1-Trichloroethane	50	52		1	104	70-130	12/21/2014 1253
Trichloroethene	50	52		1	104	70-130	12/21/2014 1253
Vinyl chloride	50	53		1	107	70-130	12/21/2014 1253
Xylenes (total)	100	100		1	104	70-130	12/21/2014 1253
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		98	70-130				
Toluene-d8		110	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63707-001

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/22/2014 1202
Benzene	ND		1	1.0	0.13	ug/L	12/22/2014 1202
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Bromoform	ND		1	1.0	0.66	ug/L	12/22/2014 1202
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/22/2014 1202
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/22/2014 1202
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/22/2014 1202
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/22/2014 1202
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/22/2014 1202
Chloroethane	ND		1	2.0	0.47	ug/L	12/22/2014 1202
Chloroform	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/22/2014 1202
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/22/2014 1202
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/22/2014 1202
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/22/2014 1202
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/22/2014 1202
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/22/2014 1202
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/22/2014 1202
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/22/2014 1202
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/22/2014 1202
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
2-Hexanone	ND		1	10	0.27	ug/L	12/22/2014 1202
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/22/2014 1202
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/22/2014 1202
Methylene chloride	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Styrene	ND		1	1.0	0.12	ug/L	12/22/2014 1202
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/22/2014 1202
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/22/2014 1202
Toluene	ND		1	1.0	0.33	ug/L	12/22/2014 1202
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/22/2014 1202
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/22/2014 1202
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/22/2014 1202
Trichloroethene	ND		1	1.0	0.18	ug/L	12/22/2014 1202
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/22/2014 1202
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/22/2014 1202
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		109	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		105	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63707-002

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	128	60-140	12/22/2014 1058
Benzene	50	51		1	101	70-130	12/22/2014 1058
Bromodichloromethane	50	47		1	93	70-130	12/22/2014 1058
Bromoform	50	47		1	95	70-130	12/22/2014 1058
Bromomethane (Methyl bromide)	50	51		1	102	60-140	12/22/2014 1058
2-Butanone (MEK)	100	110		1	105	60-140	12/22/2014 1058
Carbon disulfide	50	50		1	99	60-140	12/22/2014 1058
Carbon tetrachloride	50	46		1	93	70-130	12/22/2014 1058
Chlorobenzene	50	50		1	99	70-130	12/22/2014 1058
Chloroethane	50	49		1	98	42-163	12/22/2014 1058
Chloroform	50	50		1	101	70-130	12/22/2014 1058
Chloromethane (Methyl chloride)	50	52		1	104	60-140	12/22/2014 1058
Dibromochloromethane	50	47		1	94	70-130	12/22/2014 1058
1,2-Dichlorobenzene	50	49		1	99	70-130	12/22/2014 1058
1,4-Dichlorobenzene	50	50		1	100	70-130	12/22/2014 1058
1,3-Dichlorobenzene	50	50		1	100	70-130	12/22/2014 1058
1,2-Dichloroethane	50	52		1	103	70-130	12/22/2014 1058
1,1-Dichloroethane	50	52		1	103	70-130	12/22/2014 1058
1,1-Dichloroethene	50	48		1	97	70-130	12/22/2014 1058
cis-1,2-Dichloroethene	50	51		1	102	70-130	12/22/2014 1058
trans-1,2-Dichloroethene	50	51		1	103	70-130	12/22/2014 1058
1,2-Dichloropropane	50	47		1	93	70-130	12/22/2014 1058
cis-1,3-Dichloropropene	50	53		1	105	70-130	12/22/2014 1058
trans-1,3-Dichloropropene	50	47		1	95	70-130	12/22/2014 1058
Ethylbenzene	50	51		1	101	70-130	12/22/2014 1058
2-Hexanone	100	98		1	98	60-140	12/22/2014 1058
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	12/22/2014 1058
4-Methyl-2-pentanone	100	96		1	96	60-140	12/22/2014 1058
Methylene chloride	50	50		1	99	70-130	12/22/2014 1058
Styrene	50	50		1	100	70-130	12/22/2014 1058
1,1,2,2-Tetrachloroethane	50	52		1	105	60-140	12/22/2014 1058
Tetrachloroethene	50	46		1	92	70-130	12/22/2014 1058
Toluene	50	44		1	89	70-130	12/22/2014 1058
1,2,4-Trichlorobenzene	50	49		1	98	70-130	12/22/2014 1058
1,1,1-Trichloroethane	50	47		1	94	70-130	12/22/2014 1058
1,1,2-Trichloroethane	50	50		1	100	70-130	12/22/2014 1058
Trichloroethene	50	45		1	91	70-130	12/22/2014 1058
Vinyl chloride	50	52		1	104	70-130	12/22/2014 1058
Xylenes (total)	100	100		1	100	70-130	12/22/2014 1058
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		107	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	120		1	116	60-140	12/22/2014 1851
Benzene	0.87	50	56		1	111	72-127	12/22/2014 1851
Bromodichloromethane	ND	50	50		1	100	71-143	12/22/2014 1851
Bromoform	ND	50	48		1	96	65-131	12/22/2014 1851
Bromomethane (Methyl bromide)	ND	50	56		1	112	36-168	12/22/2014 1851
2-Butanone (MEK)	ND	100	100		1	101	60-140	12/22/2014 1851
Carbon disulfide	0.33	50	60		1	118	60-140	12/22/2014 1851
Carbon tetrachloride	ND	50	53		1	106	37-166	12/22/2014 1851
Chlorobenzene	ND	50	53		1	105	78-129	12/22/2014 1851
Chloroethane	ND	50	56		1	111	60-140	12/22/2014 1851
Chloroform	ND	50	56		1	111	63-123	12/22/2014 1851
Chloromethane (Methyl chloride)	ND	50	59		1	119	20-158	12/22/2014 1851
Dibromochloromethane	ND	50	49		1	98	74-134	12/22/2014 1851
1,4-Dichlorobenzene	ND	50	51		1	102	70-130	12/22/2014 1851
1,3-Dichlorobenzene	ND	50	52		1	104	70-130	12/22/2014 1851
1,2-Dichlorobenzene	ND	50	51		1	102	70-130	12/22/2014 1851
1,2-Dichloroethane	ND	50	56		1	112	59-143	12/22/2014 1851
1,1-Dichloroethane	ND	50	59		1	117	69-132	12/22/2014 1851
trans-1,2-Dichloroethene	ND	50	59		1	117	67-141	12/22/2014 1851
cis-1,2-Dichloroethene	0.39	50	57		1	114	70-130	12/22/2014 1851
1,1-Dichloroethene	ND	50	57		1	114	50-132	12/22/2014 1851
1,2-Dichloropropane	ND	50	50		1	100	71-126	12/22/2014 1851
trans-1,3-Dichloropropene	ND	50	48		1	96	73-131	12/22/2014 1851
cis-1,3-Dichloropropene	ND	50	54		1	108	69-130	12/22/2014 1851
Ethylbenzene	ND	50	55		1	109	79-132	12/22/2014 1851
2-Hexanone	ND	100	100		1	102	60-140	12/22/2014 1851
Methyl tertiary butyl ether (MTBE)	ND	50	57		1	113	60-140	12/22/2014 1851
4-Methyl-2-pentanone	ND	100	98		1	98	60-140	12/22/2014 1851
Methylene chloride	ND	50	55		1	111	69-129	12/22/2014 1851
Styrene	ND	50	52		1	104	70-130	12/22/2014 1851
1,1,2,2-Tetrachloroethane	ND	50	53		1	106	60-155	12/22/2014 1851
Tetrachloroethene	ND	50	51		1	101	70-130	12/22/2014 1851
Toluene	ND	50	48		1	96	75-125	12/22/2014 1851
1,2,4-Trichlorobenzene	ND	50	49		1	97	70-130	12/22/2014 1851
1,1,2-Trichloroethane	ND	50	53		1	106	77-132	12/22/2014 1851
1,1,1-Trichloroethane	ND	50	56		1	111	77-132	12/22/2014 1851
Trichloroethene	ND	50	50		1	100	73-124	12/22/2014 1851
Vinyl chloride	0.34	50	61		1	121	29-159	12/22/2014 1851
Xylenes (total)	ND	100	110		1	107	70-130	12/22/2014 1851
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		103	70-130					
Bromofluorobenzene		102	70-130					
Toluene-d8		105	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63707

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	120		1	117	0.97	60-140	20	12/22/2014 1912
Benzene	0.87	50	58		1	114	2.4	72-127	20	12/22/2014 1912
Bromodichloromethane	ND	50	51		1	101	1.9	71-143	20	12/22/2014 1912
Bromoform	ND	50	48		1	95	0.29	65-131	20	12/22/2014 1912
Bromomethane (Methyl bromide)	ND	50	58		1	116	3.6	36-168	20	12/22/2014 1912
2-Butanone (MEK)	ND	100	100		1	101	0.059	60-140	20	12/22/2014 1912
Carbon disulfide	0.33	50	63		1	125	5.3	60-140	20	12/22/2014 1912
Carbon tetrachloride	ND	50	55		1	110	3.4	37-166	20	12/22/2014 1912
Chlorobenzene	ND	50	55		1	109	3.7	78-129	20	12/22/2014 1912
Chloroethane	ND	50	58		1	116	4.2	60-140	20	12/22/2014 1912
Chloroform	ND	50	58		1	116	4.1	63-123	20	12/22/2014 1912
Chloromethane (Methyl chloride)	ND	50	60		1	120	1.6	20-158	20	12/22/2014 1912
Dibromochloromethane	ND	50	50		1	101	2.8	74-134	20	12/22/2014 1912
1,4-Dichlorobenzene	ND	50	53		1	106	4.1	70-130	20	12/22/2014 1912
1,3-Dichlorobenzene	ND	50	54		1	109	4.8	70-130	20	12/22/2014 1912
1,2-Dichlorobenzene	ND	50	54		1	108	5.4	70-130	20	12/22/2014 1912
1,2-Dichloroethane	ND	50	58		1	115	2.5	59-143	20	12/22/2014 1912
1,1-Dichloroethane	ND	50	60		1	120	2.4	69-132	20	12/22/2014 1912
trans-1,2-Dichloroethene	ND	50	61		1	122	3.9	67-141	20	12/22/2014 1912
cis-1,2-Dichloroethene	0.39	50	59		1	117	2.8	70-130	20	12/22/2014 1912
1,1-Dichloroethene	ND	50	58		1	115	1.3	50-132	20	12/22/2014 1912
1,2-Dichloropropane	ND	50	51		1	102	1.7	71-126	20	12/22/2014 1912
trans-1,3-Dichloropropene	ND	50	49		1	97	1.1	73-131	20	12/22/2014 1912
cis-1,3-Dichloropropene	ND	50	55		1	110	1.9	69-130	20	12/22/2014 1912
Ethylbenzene	ND	50	56		1	113	3.2	79-132	20	12/22/2014 1912
2-Hexanone	ND	100	100		1	102	0.71	60-140	20	12/22/2014 1912
Methyl tertiary butyl ether (MTBE)	ND	50	58		1	117	3.2	60-140	20	12/22/2014 1912
4-Methyl-2-pentanone	ND	100	98		1	98	0.098	60-140	20	12/22/2014 1912
Methylene chloride	ND	50	57		1	114	2.3	69-129	20	12/22/2014 1912
Styrene	ND	50	53		1	106	2.0	70-130	20	12/22/2014 1912
1,1,2,2-Tetrachloroethane	ND	50	56		1	111	4.9	60-155	20	12/22/2014 1912
Tetrachloroethene	ND	50	53		1	105	3.8	70-130	20	12/22/2014 1912
Toluene	ND	50	49		1	98	2.2	75-125	20	12/22/2014 1912
1,2,4-Trichlorobenzene	ND	50	52		1	105	7.3	70-130	20	12/22/2014 1912
1,1,2-Trichloroethane	ND	50	54		1	109	2.3	77-132	20	12/22/2014 1912
1,1,1-Trichloroethane	ND	50	58		1	116	3.7	77-132	20	12/22/2014 1912
Trichloroethene	ND	50	52		1	103	3.5	73-124	20	12/22/2014 1912
Vinyl chloride	0.34	50	63		1	125	3.0	29-159	20	12/22/2014 1912
Xylenes (total)	ND	100	110		1	111	3.4	70-130	20	12/22/2014 1912
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		107	70-130							
Bromofluorobenzene		107	70-130							
Toluene-d8		107	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63929-001

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/24/2014 1037
Benzene	ND		1	1.0	0.13	ug/L	12/24/2014 1037
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Bromoform	ND		1	1.0	0.66	ug/L	12/24/2014 1037
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/24/2014 1037
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/24/2014 1037
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/24/2014 1037
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/24/2014 1037
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/24/2014 1037
Chloroethane	ND		1	2.0	0.47	ug/L	12/24/2014 1037
Chloroform	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/24/2014 1037
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/24/2014 1037
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/24/2014 1037
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/24/2014 1037
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/24/2014 1037
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/24/2014 1037
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/24/2014 1037
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/24/2014 1037
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/24/2014 1037
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
2-Hexanone	ND		1	10	0.27	ug/L	12/24/2014 1037
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/24/2014 1037
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/24/2014 1037
Methylene chloride	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Styrene	ND		1	1.0	0.12	ug/L	12/24/2014 1037
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/24/2014 1037
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/24/2014 1037
Toluene	ND		1	1.0	0.33	ug/L	12/24/2014 1037
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/24/2014 1037
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/24/2014 1037
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/24/2014 1037
Trichloroethene	ND		1	1.0	0.18	ug/L	12/24/2014 1037
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/24/2014 1037
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/24/2014 1037
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		108	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63929-002

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	87		1	87	60-140	12/24/2014 0912
Benzene	50	47		1	95	70-130	12/24/2014 0912
Bromodichloromethane	50	47		1	95	70-130	12/24/2014 0912
Bromoform	50	45		1	89	70-130	12/24/2014 0912
Bromomethane (Methyl bromide)	50	50		1	101	60-140	12/24/2014 0912
2-Butanone (MEK)	100	84		1	84	60-140	12/24/2014 0912
Carbon disulfide	50	47		1	94	60-140	12/24/2014 0912
Carbon tetrachloride	50	50		1	101	70-130	12/24/2014 0912
Chlorobenzene	50	46		1	92	70-130	12/24/2014 0912
Chloroethane	50	51		1	102	42-163	12/24/2014 0912
Chloroform	50	47		1	94	70-130	12/24/2014 0912
Chloromethane (Methyl chloride)	50	53		1	105	60-140	12/24/2014 0912
Dibromochloromethane	50	47		1	93	70-130	12/24/2014 0912
1,4-Dichlorobenzene	50	45		1	90	70-130	12/24/2014 0912
1,2-Dichlorobenzene	50	49		1	98	70-130	12/24/2014 0912
1,3-Dichlorobenzene	50	47		1	95	70-130	12/24/2014 0912
1,2-Dichloroethane	50	45		1	89	70-130	12/24/2014 0912
1,1-Dichloroethane	50	47		1	94	70-130	12/24/2014 0912
cis-1,2-Dichloroethene	50	46		1	92	70-130	12/24/2014 0912
1,1-Dichloroethene	50	48		1	95	70-130	12/24/2014 0912
trans-1,2-Dichloroethene	50	47		1	94	70-130	12/24/2014 0912
1,2-Dichloropropane	50	47		1	94	70-130	12/24/2014 0912
cis-1,3-Dichloropropene	50	46		1	92	70-130	12/24/2014 0912
trans-1,3-Dichloropropene	50	45		1	91	70-130	12/24/2014 0912
Ethylbenzene	50	48		1	96	70-130	12/24/2014 0912
2-Hexanone	100	92		1	92	60-140	12/24/2014 0912
Methyl tertiary butyl ether (MTBE)	50	47		1	93	70-130	12/24/2014 0912
4-Methyl-2-pentanone	100	90		1	90	60-140	12/24/2014 0912
Methylene chloride	50	45		1	90	70-130	12/24/2014 0912
Styrene	50	50		1	100	70-130	12/24/2014 0912
1,1,2,2-Tetrachloroethane	50	45		1	90	60-140	12/24/2014 0912
Tetrachloroethene	50	48		1	95	70-130	12/24/2014 0912
Toluene	50	48		1	96	70-130	12/24/2014 0912
1,2,4-Trichlorobenzene	50	53		1	106	70-130	12/24/2014 0912
1,1,2-Trichloroethane	50	45		1	89	70-130	12/24/2014 0912
1,1,1-Trichloroethane	50	49		1	98	70-130	12/24/2014 0912
Trichloroethene	50	48		1	96	70-130	12/24/2014 0912
Vinyl chloride	50	51		1	102	70-130	12/24/2014 0912
Xylenes (total)	100	96		1	96	70-130	12/24/2014 0912
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		106	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	87		1	87	60-140	12/24/2014 1841
Benzene	ND	50	51		1	102	72-127	12/24/2014 1841
Bromodichloromethane	ND	50	49		1	97	71-143	12/24/2014 1841
Bromoform	ND	50	40		1	79	65-131	12/24/2014 1841
Bromomethane (Methyl bromide)	ND	50	48		1	95	36-168	12/24/2014 1841
2-Butanone (MEK)	ND	100	92		1	92	60-140	12/24/2014 1841
Carbon disulfide	ND	50	45		1	91	60-140	12/24/2014 1841
Carbon tetrachloride	ND	50	53		1	106	37-166	12/24/2014 1841
Chlorobenzene	ND	50	50		1	100	78-129	12/24/2014 1841
Chloroethane	ND	50	54		1	107	60-140	12/24/2014 1841
Chloroform	ND	50	50		1	101	63-123	12/24/2014 1841
Chloromethane (Methyl chloride)	ND	50	54		1	108	20-158	12/24/2014 1841
Dibromochloromethane	ND	50	46		1	93	74-134	12/24/2014 1841
1,4-Dichlorobenzene	ND	50	48		1	96	70-130	12/24/2014 1841
1,3-Dichlorobenzene	ND	50	51		1	101	70-130	12/24/2014 1841
1,2-Dichlorobenzene	ND	50	52		1	104	70-130	12/24/2014 1841
1,2-Dichloroethane	ND	50	49		1	97	59-143	12/24/2014 1841
1,1-Dichloroethane	ND	50	52		1	103	69-132	12/24/2014 1841
trans-1,2-Dichloroethene	ND	50	53		1	106	67-141	12/24/2014 1841
cis-1,2-Dichloroethene	2.6	50	53		1	101	70-130	12/24/2014 1841
1,1-Dichloroethene	ND	50	54		1	108	50-132	12/24/2014 1841
1,2-Dichloropropane	ND	50	50		1	101	71-126	12/24/2014 1841
trans-1,3-Dichloropropene	ND	50	40		1	80	73-131	12/24/2014 1841
cis-1,3-Dichloropropene	ND	50	40		1	80	69-130	12/24/2014 1841
Ethylbenzene	ND	50	51		1	102	79-132	12/24/2014 1841
2-Hexanone	ND	100	100		1	100	60-140	12/24/2014 1841
Methyl tertiary butyl ether (MTBE)	ND	50	51		1	103	60-140	12/24/2014 1841
4-Methyl-2-pentanone	ND	100	100		1	101	60-140	12/24/2014 1841
Methylene chloride	ND	50	48		1	95	69-129	12/24/2014 1841
Styrene	ND	50	42		1	83	70-130	12/24/2014 1841
1,1,2,2-Tetrachloroethane	ND	50	51		1	101	60-155	12/24/2014 1841
Tetrachloroethene	ND	50	54		1	108	70-130	12/24/2014 1841
Toluene	ND	50	49		1	98	75-125	12/24/2014 1841
1,2,4-Trichlorobenzene	ND	50	59		1	117	70-130	12/24/2014 1841
1,1,2-Trichloroethane	ND	50	50		1	100	77-132	12/24/2014 1841
1,1,1-Trichloroethane	ND	50	52		1	105	77-132	12/24/2014 1841
Trichloroethene	ND	50	51		1	102	73-124	12/24/2014 1841
Vinyl chloride	ND	50	56		1	113	29-159	12/24/2014 1841
Xylenes (total)	ND	100	100		1	100	70-130	12/24/2014 1841
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		103	70-130					
Bromofluorobenzene		100	70-130					
Toluene-d8		102	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63929

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	97		1	97	12	60-140	20	12/24/2014 1904
Benzene	ND	50	50		1	100	2.3	72-127	20	12/24/2014 1904
Bromodichloromethane	ND	50	49		1	98	1.3	71-143	20	12/24/2014 1904
Bromoform	ND	50	40		1	80	0.77	65-131	20	12/24/2014 1904
Bromomethane (Methyl bromide)	ND	50	48		1	95	0.44	36-168	20	12/24/2014 1904
2-Butanone (MEK)	ND	100	96		1	96	3.8	60-140	20	12/24/2014 1904
Carbon disulfide	ND	50	43		1	85	6.3	60-140	20	12/24/2014 1904
Carbon tetrachloride	ND	50	52		1	103	2.5	37-166	20	12/24/2014 1904
Chlorobenzene	ND	50	49		1	98	2.8	78-129	20	12/24/2014 1904
Chloroethane	ND	50	52		1	104	2.6	60-140	20	12/24/2014 1904
Chloroform	ND	50	49		1	97	3.4	63-123	20	12/24/2014 1904
Chloromethane (Methyl chloride)	ND	50	51		1	101	6.8	20-158	20	12/24/2014 1904
Dibromochloromethane	ND	50	47		1	94	0.91	74-134	20	12/24/2014 1904
1,4-Dichlorobenzene	ND	50	47		1	94	1.4	70-130	20	12/24/2014 1904
1,3-Dichlorobenzene	ND	50	50		1	99	1.7	70-130	20	12/24/2014 1904
1,2-Dichlorobenzene	ND	50	52		1	105	0.85	70-130	20	12/24/2014 1904
1,2-Dichloroethane	ND	50	48		1	96	1.5	59-143	20	12/24/2014 1904
1,1-Dichloroethane	ND	50	49		1	98	5.1	69-132	20	12/24/2014 1904
trans-1,2-Dichloroethene	ND	50	51		1	102	3.8	67-141	20	12/24/2014 1904
cis-1,2-Dichloroethene	2.6	50	51		1	96	4.7	70-130	20	12/24/2014 1904
1,1-Dichloroethene	ND	50	50		1	101	7.1	50-132	20	12/24/2014 1904
1,2-Dichloropropane	ND	50	50		1	101	0.036	71-126	20	12/24/2014 1904
trans-1,3-Dichloropropene	ND	50	43		1	85	5.7	73-131	20	12/24/2014 1904
cis-1,3-Dichloropropene	ND	50	43		1	86	6.7	69-130	20	12/24/2014 1904
Ethylbenzene	ND	50	49		1	99	3.3	79-132	20	12/24/2014 1904
2-Hexanone	ND	100	100		1	100	0.066	60-140	20	12/24/2014 1904
Methyl tertiary butyl ether (MTBE)	ND	50	49		1	99	3.7	60-140	20	12/24/2014 1904
4-Methyl-2-pentanone	ND	100	100		1	102	1.2	60-140	20	12/24/2014 1904
Methylene chloride	ND	50	46		1	92	3.8	69-129	20	12/24/2014 1904
Styrene	ND	50	40		1	80	3.8	70-130	20	12/24/2014 1904
1,1,2,2-Tetrachloroethane	ND	50	51		1	102	0.75	60-155	20	12/24/2014 1904
Tetrachloroethene	ND	50	52		1	104	4.5	70-130	20	12/24/2014 1904
Toluene	ND	50	50		1	101	2.5	75-125	20	12/24/2014 1904
1,2,4-Trichlorobenzene	ND	50	56		1	111	5.3	70-130	20	12/24/2014 1904
1,1,2-Trichloroethane	ND	50	49		1	98	1.3	77-132	20	12/24/2014 1904
1,1,1-Trichloroethane	ND	50	51		1	101	3.2	77-132	20	12/24/2014 1904
Trichloroethene	ND	50	51		1	103	0.52	73-124	20	12/24/2014 1904
Vinyl chloride	ND	50	54		1	108	4.6	29-159	20	12/24/2014 1904
Xylenes (total)	ND	100	94		1	94	6.1	70-130	20	12/24/2014 1904
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		101	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		106	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63730-001

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1323
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1323
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1323
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1323
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1323
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1323
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1323
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1323
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1323
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1323
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1323
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1323
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1323
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1323
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1323
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1323
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1323
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1323
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1323
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1323
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1323
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1323
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1323
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1323
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1323
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1323
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1323
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1323
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1323
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1323
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1323
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1323
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1323
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1323

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63730-001

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1323
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1323
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1323
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1323
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1323
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1323
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1323
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1323
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1323
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1323
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1323
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1323
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1323
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1323
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1323
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		70	41-144				
2-Fluorobiphenyl		88	37-129				
2-Fluorophenol		87	24-127				
Nitrobenzene-d5		87	38-127				
Phenol-d5		91	28-128				
Terphenyl-d14		94	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63730-002

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	79	46-125	01/05/2015 1248
2,4,6-Trichlorophenol	20	16		1	80	36-123	01/05/2015 1248
2,4-Dichlorophenol	20	16		1	82	38-127	01/05/2015 1248
2,4-Dimethylphenol	20	21		1	106	36-110	01/05/2015 1248
2,4-Dinitrophenol	100	77		1	77	33-143	01/05/2015 1248
2,4-Dinitrotoluene	40	34		1	86	55-137	01/05/2015 1248
2,6-Dinitrotoluene	40	34		1	85	53-128	01/05/2015 1248
2-Chloronaphthalene	20	14		1	70	42-132	01/05/2015 1248
2-Chlorophenol	20	16		1	81	40-128	01/05/2015 1248
2-Methylnaphthalene	20	17		1	83	40-132	01/05/2015 1248
2-Methylphenol	20	16		1	80	33-122	01/05/2015 1248
2-Nitroaniline	40	34		1	85	48-126	01/05/2015 1248
2-Nitrophenol	40	32		1	80	44-131	01/05/2015 1248
3 & 4-Methylphenol	40	33		1	81	48-112	01/05/2015 1248
3-Nitroaniline	40	27		1	66	29-109	01/05/2015 1248
4,6-Dinitro-2-methylphenol	100	81		1	81	46-151	01/05/2015 1248
4-Bromophenyl phenyl ether	20	15		1	76	49-123	01/05/2015 1248
4-Chloro-3-methyl phenol	20	16		1	82	48-136	01/05/2015 1248
4-Chloroaniline	20	8.9		1	45	18-73	01/05/2015 1248
4-Chlorophenyl phenyl ether	20	16		1	79	34-124	01/05/2015 1248
4-Nitroaniline	40	34		1	85	42-154	01/05/2015 1248
4-Nitrophenol	100	77		1	77	43-145	01/05/2015 1248
Acenaphthene	20	16		1	81	51-130	01/05/2015 1248
Acenaphthylene	20	20		1	102	46-131	01/05/2015 1248
Anthracene	20	17		1	85	48-122	01/05/2015 1248
Benzo(a)anthracene	20	15		1	77	50-143	01/05/2015 1248
Benzo(a)pyrene	20	14		1	71	55-141	01/05/2015 1248
Benzo(b)fluoranthene	20	16		1	82	48-147	01/05/2015 1248
Benzo(g,h,i)perylene	20	13		1	63	48-139	01/05/2015 1248
Benzo(k)fluoranthene	20	16		1	79	48-148	01/05/2015 1248
bis(2-Chloroethoxy)methane	20	16		1	78	46-130	01/05/2015 1248
bis(2-Chloroisopropyl)ether	20	15		1	77	36-133	01/05/2015 1248
bis(2-Ethylhexyl)phthalate	20	11		1	57	40-141	01/05/2015 1248
Butyl benzyl phthalate	20	16		1	82	52-142	01/05/2015 1248
Carbazole	20	17		1	87	45-101	01/05/2015 1248
Chrysene	20	16		1	80	51-137	01/05/2015 1248
Di-n-butyl phthalate	20	16		1	81	50-134	01/05/2015 1248
Di-n-octylphthalate	20	11		1	55	50-136	01/05/2015 1248
Dibenzo(a,h)anthracene	20	13		1	64	48-139	01/05/2015 1248
Dibenzofuran	20	16		1	80	45-142	01/05/2015 1248
Diethylphthalate	20	17		1	83	48-124	01/05/2015 1248
Dimethyl phthalate	20	17		1	83	43-122	01/05/2015 1248
Fluoranthene	20	16		1	82	50-124	01/05/2015 1248
Fluorene	20	17		1	83	39-122	01/05/2015 1248

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63730-002

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	17		1	87	46-125	01/05/2015 1248
Hexachlorobutadiene	20	15		1	74	38-121	01/05/2015 1248
Hexachlorocyclopentadiene	100	47		1	47	24-110	01/05/2015 1248
Hexachloroethane	20	15		1	73	32-109	01/05/2015 1248
Indeno(1,2,3-c,d)pyrene	20	13		1	63	49-146	01/05/2015 1248
Isophorone	20	16		1	79	43-118	01/05/2015 1248
N-Nitrosodi-n-propylamine	20	15		1	76	46-135	01/05/2015 1248
N-Nitrosodiphenylamine (Diphenylamine)	20	19		1	93	44-124	01/05/2015 1248
Naphthalene	20	16		1	78	45-118	01/05/2015 1248
Nitrobenzene	20	15		1	74	46-131	01/05/2015 1248
Pentachlorophenol	100	63		1	63	30-137	01/05/2015 1248
Phenanthrene	20	16		1	81	49-122	01/05/2015 1248
Phenol	20	15		1	75	35-118	01/05/2015 1248
Pyrene	20	16		1	78	50-130	01/05/2015 1248
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		85	41-144				
2-Fluorobiphenyl		82	37-129				
2-Fluorophenol		75	24-127				
Nitrobenzene-d5		79	38-127				
Phenol-d5		79	28-128				
Terphenyl-d14		86	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Batch: 63730

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	20	17		1	83	10-133	12/31/2014 1626
Acenaphthylene	ND	20	18		1	91	34-128	12/31/2014 1626
Anthracene	ND	20	15		1	73	48-122	12/31/2014 1626
Benzo(a)anthracene	ND	20	9.2	N	1	46	53-98	12/31/2014 1626
Benzo(a)pyrene	ND	20	11		1	57	11-160	12/31/2014 1626
Benzo(b)fluoranthene	ND	20	16		1	82	10-165	12/31/2014 1626
Benzo(g,h,i)perylene	ND	20	5.9	N	1	29	42-111	12/31/2014 1626
Benzo(k)fluoranthene	ND	20	15		1	75	13-175	12/31/2014 1626
4-Bromophenyl phenyl ether	ND	20	15		1	73	49-123	12/31/2014 1626
Butyl benzyl phthalate	ND	20	11		1	53	52-142	12/31/2014 1626
Carbazole	ND	20	1.8	N	1	9.0	45-101	12/31/2014 1626
4-Chloro-3-methyl phenol	ND	20	15		1	77	40-98	12/31/2014 1626
4-Chloroaniline	ND	20	6.4		1	32	10-98	12/31/2014 1626
bis(2-Chloroethoxy)methane	ND	20	6.5	N	1	32	43-93	12/31/2014 1626
bis(2-Chloroisopropyl)ether	ND	20	20	N	1	101	36-99	12/31/2014 1626
2-Chloronaphthalene	ND	20	15		1	76	40-89	12/31/2014 1626
2-Chlorophenol	ND	20	16		1	81	33-92	12/31/2014 1626
4-Chlorophenyl phenyl ether	ND	20	16		1	82	34-124	12/31/2014 1626
Chrysene	ND	20	8.7	N	1	43	51-107	12/31/2014 1626
Dibenzo(a,h)anthracene	ND	20	5.7	N	1	29	47-116	12/31/2014 1626
Dibenzofuran	ND	20	17		1	87	45-94	12/31/2014 1626
2,4-Dichlorophenol	ND	20	16		1	82	34-105	12/31/2014 1626
Diethylphthalate	ND	20	18		1	88	48-124	12/31/2014 1626
Dimethyl phthalate	ND	20	19		1	93	43-122	12/31/2014 1626
2,4-Dimethylphenol	ND	20	22	N	1	112	33-77	12/31/2014 1626
Di-n-butyl phthalate	ND	20	15		1	73	50-134	12/31/2014 1626
4,6-Dinitro-2-methylphenol	ND	100	86		1	86	33-118	12/31/2014 1626
2,4-Dinitrophenol	ND	100	88		1	88	19-119	12/31/2014 1626
2,4-Dinitrotoluene	ND	40	37		1	93	50-104	12/31/2014 1626
2,6-Dinitrotoluene	ND	40	37		1	93	53-128	12/31/2014 1626
Di-n-octylphthalate	ND	20	7.2	N	1	36	40-112	12/31/2014 1626
bis(2-Ethylhexyl)phthalate	ND	20	2.9		1	15	10-142	12/31/2014 1626
Fluoranthene	ND	20	15		1	77	50-124	12/31/2014 1626
Fluorene	ND	20	18		1	88	39-122	12/31/2014 1626
Hexachlorobenzene	ND	20	13		1	64	46-125	12/31/2014 1626
Hexachlorobutadiene	ND	20	14		1	68	42-94	12/31/2014 1626
Hexachlorocyclopentadiene	ND	100	44		1	44	14-89	12/31/2014 1626
Hexachloroethane	ND	20	18	N	1	89	39-86	12/31/2014 1626
Indeno(1,2,3-c,d)pyrene	ND	20	6.2	N	1	31	43-113	12/31/2014 1626
Isophorone	ND	20	16		1	82	42-84	12/31/2014 1626
2-Methylnaphthalene	ND	20	17		1	84	40-132	12/31/2014 1626
2-Methylphenol	ND	20	16		1	79	33-122	12/31/2014 1626
3 & 4-Methylphenol	ND	40	29		1	73	24-97	12/31/2014 1626
Naphthalene	ND	20	16		1	79	46-89	12/31/2014 1626

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-008MS

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	40	6.6	N	1	17	48-126	12/31/2014 1626
3-Nitroaniline	ND	40	2.9	N	1	7.3	10-110	12/31/2014 1626
4-Nitroaniline	ND	40	1.4	N	1	3.5	41-99	12/31/2014 1626
Nitrobenzene	ND	20	15		1	76	44-91	12/31/2014 1626
2-Nitrophenol	ND	40	33		1	82	34-102	12/31/2014 1626
4-Nitrophenol	ND	100	86		1	86	29-122	12/31/2014 1626
N-Nitrosodi-n-propylamine	ND	20	16		1	79	41-96	12/31/2014 1626
N-Nitrosodiphenylamine (Diphenylamine)	ND	20	1.4	N	1	7.1	10-150	12/31/2014 1626
Pentachlorophenol	ND	100	75		1	75	32-110	12/31/2014 1626
Phenanthrene	ND	20	17		1	84	49-122	12/31/2014 1626
Phenol	ND	20	15		1	75	33-92	12/31/2014 1626
Pyrene	ND	20	13		1	67	50-130	12/31/2014 1626
2,4,5-Trichlorophenol	ND	20	18		1	92	46-125	12/31/2014 1626
2,4,6-Trichlorophenol	ND	20	18		1	92	36-123	12/31/2014 1626

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		90	37-129
2-Fluorophenol		77	24-127
Nitrobenzene-d5		85	38-127
Phenol-d5		76	28-128
Terphenyl-d14		40	10-148
2,4,6-Tribromophenol		99	41-144

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	20	18		1	88	5.9	10-133	40	12/31/2014 1649
Acenaphthylene	ND	20	22		1	109	19	34-128	40	12/31/2014 1649
Anthracene	ND	20	16		1	80	8.8	48-122	40	12/31/2014 1649
Benzo(a)anthracene	ND	20	9.7	N	1	49	5.3	53-98	40	12/31/2014 1649
Benzo(a)pyrene	ND	20	6.7	+	1	34	51	11-160	40	12/31/2014 1649
Benzo(b)fluoranthene	ND	20	8.5	+	1	43	63	10-165	40	12/31/2014 1649
Benzo(g,h,i)perylene	ND	20	3.1	N,+	1	15	62	42-111	40	12/31/2014 1649
Benzo(k)fluoranthene	ND	20	7.9	+	1	40	62	13-175	40	12/31/2014 1649
4-Bromophenyl phenyl ether	ND	20	15		1	74	0.75	49-123	40	12/31/2014 1649
Butyl benzyl phthalate	ND	20	13		1	63	18	52-142	40	12/31/2014 1649
Carbazole	ND	20	18	+	1	90	160	45-101	40	12/31/2014 1649
4-Chloro-3-methyl phenol	ND	20	17		1	84	8.5	40-98	40	12/31/2014 1649
4-Chloroaniline	ND	20	6.7		1	33	3.8	10-98	40	12/31/2014 1649
bis(2-Chloroethoxy)methane	ND	20	16	+	1	79	83	43-93	40	12/31/2014 1649
bis(2-Chloroisopropyl)ether	ND	20	21	N	1	107	5.8	36-99	40	12/31/2014 1649
2-Chloronaphthalene	ND	20	15		1	76	0.43	40-89	40	12/31/2014 1649
2-Chlorophenol	ND	20	18		1	90	11	33-92	40	12/31/2014 1649
4-Chlorophenyl phenyl ether	ND	20	17		1	83	1.5	34-124	40	12/31/2014 1649
Chrysene	ND	20	9.3	N	1	47	7.7	51-107	40	12/31/2014 1649
Dibenzo(a,h)anthracene	ND	20	3.1	N,+	1	15	60	47-116	40	12/31/2014 1649
Dibenzofuran	ND	20	18		1	89	2.0	45-94	40	12/31/2014 1649
2,4-Dichlorophenol	ND	20	18		1	88	6.1	34-105	40	12/31/2014 1649
Diethylphthalate	ND	20	18		1	90	2.2	48-124	40	12/31/2014 1649
Dimethyl phthalate	ND	20	18		1	92	0.093	43-122	40	12/31/2014 1649
2,4-Dimethylphenol	ND	20	24	N	1	119	5.6	33-77	40	12/31/2014 1649
Di-n-butyl phthalate	ND	20	15		1	74	1.8	50-134	40	12/31/2014 1649
4,6-Dinitro-2-methylphenol	ND	100	90		1	90	3.9	33-118	40	12/31/2014 1649
2,4-Dinitrophenol	ND	100	91		1	91	3.8	19-119	40	12/31/2014 1649
2,4-Dinitrotoluene	ND	40	37		1	93	0.011	50-104	40	12/31/2014 1649
2,6-Dinitrotoluene	ND	40	37		1	93	0.31	53-128	40	12/31/2014 1649
Di-n-octylphthalate	ND	20	3.6	N,+	1	18	67	40-112	40	12/31/2014 1649
bis(2-Ethylhexyl)phthalate	ND	20	3.3		1	16	12	10-142	40	12/31/2014 1649
Fluoranthene	ND	20	16		1	79	3.0	50-124	40	12/31/2014 1649
Fluorene	ND	20	18		1	89	0.56	39-122	40	12/31/2014 1649
Hexachlorobenzene	ND	20	13		1	66	1.9	46-125	40	12/31/2014 1649
Hexachlorobutadiene	ND	20	15		1	76	11	42-94	40	12/31/2014 1649
Hexachlorocyclopentadiene	ND	100	38		1	38	15	14-89	40	12/31/2014 1649
Hexachloroethane	ND	20	20	N	1	99	11	39-86	40	12/31/2014 1649
Indeno(1,2,3-c,d)pyrene	ND	20	3.3	N,+	1	16	62	43-113	40	12/31/2014 1649
Isophorone	ND	20	16		1	81	0.28	42-84	40	12/31/2014 1649
2-Methylnaphthalene	ND	20	18		1	88	5.2	40-132	40	12/31/2014 1649
2-Methylphenol	ND	20	18		1	91	14	33-122	40	12/31/2014 1649
3 & 4-Methylphenol	ND	40	33		1	82	11	24-97	40	12/31/2014 1649
Naphthalene	ND	20	17		1	86	8.0	46-89	40	12/31/2014 1649

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-008MD

Matrix: Aqueous

Batch: 63730

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/22/2014 1616

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	40	35	+	1	88	140	48-126	40	12/31/2014 1649
3-Nitroaniline	ND	40	0.37	N _i +	1	0.94	160	10-110	40	12/31/2014 1649
4-Nitroaniline	ND	40	2.1	N _i +	1	5.3	41	41-99	40	12/31/2014 1649
Nitrobenzene	ND	20	16		1	78	2.2	44-91	40	12/31/2014 1649
2-Nitrophenol	ND	40	34		1	85	4.5	34-102	40	12/31/2014 1649
4-Nitrophenol	ND	100	91		1	91	6.1	29-122	40	12/31/2014 1649
N-Nitrosodi-n-propylamine	ND	20	15		1	77	1.6	41-96	40	12/31/2014 1649
N-Nitrosodiphenylamine (Diphenylamine)	ND	20	9.5	+	1	47	150	10-150	40	12/31/2014 1649
Pentachlorophenol	ND	100	82		1	82	8.6	32-110	40	12/31/2014 1649
Phenanthrene	ND	20	17		1	87	3.9	49-122	40	12/31/2014 1649
Phenol	ND	20	16		1	82	8.6	33-92	40	12/31/2014 1649
Pyrene	ND	20	14		1	71	5.2	50-130	40	12/31/2014 1649
2,4,5-Trichlorophenol	ND	20	18		1	91	1.1	46-125	40	12/31/2014 1649
2,4,6-Trichlorophenol	ND	20	18		1	92	0.87	36-123	40	12/31/2014 1649
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		92	37-129							
2-Fluorophenol		84	24-127							
Nitrobenzene-d5		91	38-127							
Phenol-d5		85	28-128							
Terphenyl-d14		43	10-148							
2,4,6-Tribromophenol		104	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Batch: 63919

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1237
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1237
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1237
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1237
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1237
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1237
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1237
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1237
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1237
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1237
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1237
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1237
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1237
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1237
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1237
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1237
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1237
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1237
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1237
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1237
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1237
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1237
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1237
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1237
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1237
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1237
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1237
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1237
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1237
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1237
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1237
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		62	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		71	24-127				
Nitrobenzene-d5		70	38-127				
Phenol-d5		72	28-128				
Terphenyl-d14		80	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	12/30/2014 1300
2,4,6-Trichlorophenol	20	17		1	83	36-123	12/30/2014 1300
2,4-Dichlorophenol	20	16		1	82	38-127	12/30/2014 1300
2,4-Dimethylphenol	20	24	N	1	118	36-110	12/30/2014 1300
2,4-Dinitrophenol	100	83		1	83	33-143	12/30/2014 1300
2,4-Dinitrotoluene	40	35		1	87	55-137	12/30/2014 1300
2,6-Dinitrotoluene	40	34		1	86	53-128	12/30/2014 1300
2-Chloronaphthalene	20	14		1	71	42-132	12/30/2014 1300
2-Chlorophenol	20	17		1	83	40-128	12/30/2014 1300
2-Methylnaphthalene	20	17		1	84	40-132	12/30/2014 1300
2-Methylphenol	20	17		1	84	33-122	12/30/2014 1300
2-Nitroaniline	40	34		1	85	48-126	12/30/2014 1300
2-Nitrophenol	40	33		1	81	44-131	12/30/2014 1300
3 & 4-Methylphenol	40	35		1	88	48-112	12/30/2014 1300
3-Nitroaniline	40	29		1	73	29-109	12/30/2014 1300
4,6-Dinitro-2-methylphenol	100	88		1	88	46-151	12/30/2014 1300
4-Bromophenyl phenyl ether	20	15		1	76	49-123	12/30/2014 1300
4-Chloro-3-methyl phenol	20	17		1	86	48-136	12/30/2014 1300
4-Chloroaniline	20	18	N	1	89	18-73	12/30/2014 1300
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	12/30/2014 1300
4-Nitroaniline	40	37		1	91	42-154	12/30/2014 1300
4-Nitrophenol	100	87		1	87	43-145	12/30/2014 1300
Acenaphthene	20	17		1	84	51-130	12/30/2014 1300
Acenaphthylene	20	20		1	102	46-131	12/30/2014 1300
Anthracene	20	17		1	87	48-122	12/30/2014 1300
Benzo(a)anthracene	20	16		1	80	50-143	12/30/2014 1300
Benzo(a)pyrene	20	16		1	80	55-141	12/30/2014 1300
Benzo(b)fluoranthene	20	17		1	85	48-147	12/30/2014 1300
Benzo(g,h,i)perylene	20	16		1	80	48-139	12/30/2014 1300
Benzo(k)fluoranthene	20	18		1	90	48-148	12/30/2014 1300
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	12/30/2014 1300
bis(2-Chloroisopropyl)ether	20	17		1	85	36-133	12/30/2014 1300
bis(2-Ethylhexyl)phthalate	20	15		1	73	40-141	12/30/2014 1300
Butyl benzyl phthalate	20	17		1	86	52-142	12/30/2014 1300
Carbazole	20	18		1	89	45-101	12/30/2014 1300
Chrysene	20	17		1	83	51-137	12/30/2014 1300
Di-n-butyl phthalate	20	16		1	81	50-134	12/30/2014 1300
Di-n-octylphthalate	20	14		1	72	50-136	12/30/2014 1300
Dibenzo(a,h)anthracene	20	16		1	80	48-139	12/30/2014 1300
Dibenzofuran	20	16		1	82	45-142	12/30/2014 1300
Diethylphthalate	20	17		1	87	48-124	12/30/2014 1300
Dimethyl phthalate	20	17		1	85	43-122	12/30/2014 1300
Fluoranthene	20	16		1	82	50-124	12/30/2014 1300
Fluorene	20	18		1	88	39-122	12/30/2014 1300

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	18		1	91	46-125	12/30/2014 1300
Hexachlorobutadiene	20	15		1	76	38-121	12/30/2014 1300
Hexachlorocyclopentadiene	100	59		1	59	24-110	12/30/2014 1300
Hexachloroethane	20	15		1	77	32-109	12/30/2014 1300
Indeno(1,2,3-c,d)pyrene	20	16		1	78	49-146	12/30/2014 1300
Isophorone	20	17		1	86	43-118	12/30/2014 1300
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	12/30/2014 1300
N-Nitrosodiphenylamine (Diphenylamine)	20	20		1	98	44-124	12/30/2014 1300
Naphthalene	20	16		1	81	45-118	12/30/2014 1300
Nitrobenzene	20	16		1	81	46-131	12/30/2014 1300
Pentachlorophenol	100	71		1	71	30-137	12/30/2014 1300
Phenanthrene	20	17		1	83	49-122	12/30/2014 1300
Phenol	20	16		1	82	35-118	12/30/2014 1300
Pyrene	20	16		1	79	50-130	12/30/2014 1300
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		84	41-144				
2-Fluorobiphenyl		80	37-129				
2-Fluorophenol		74	24-127				
Nitrobenzene-d5		83	38-127				
Phenol-d5		80	28-128				
Terphenyl-d14		88	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-016MS

Batch: 63919

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	40	37		1	91	10-133	12/30/2014 1650
Acenaphthylene	ND	40	42		1	104	34-128	12/30/2014 1650
Anthracene	ND	40	36		1	90	48-122	12/30/2014 1650
Benzo(a)anthracene	ND	40	36		1	90	53-98	12/30/2014 1650
Benzo(a)pyrene	ND	40	35		1	88	11-160	12/30/2014 1650
Benzo(b)fluoranthene	ND	40	41		1	103	10-165	12/30/2014 1650
Benzo(g,h,i)perylene	ND	40	39		1	99	42-111	12/30/2014 1650
Benzo(k)fluoranthene	ND	40	40		1	99	13-175	12/30/2014 1650
4-Bromophenyl phenyl ether	ND	40	32		1	81	49-123	12/30/2014 1650
Butyl benzyl phthalate	ND	40	40		1	101	52-142	12/30/2014 1650
Carbazole	ND	40	39		1	97	45-101	12/30/2014 1650
4-Chloro-3-methyl phenol	ND	40	35		1	89	40-98	12/30/2014 1650
4-Chloroaniline	ND	40	9.4		1	23	10-98	12/30/2014 1650
bis(2-Chloroethoxy)methane	ND	40	34		1	86	43-93	12/30/2014 1650
bis(2-Chloroisopropyl)ether	ND	40	35		1	87	36-99	12/30/2014 1650
2-Chloronaphthalene	ND	40	30		1	74	40-89	12/30/2014 1650
2-Chlorophenol	ND	40	35		1	88	33-92	12/30/2014 1650
4-Chlorophenyl phenyl ether	ND	40	35		1	86	34-124	12/30/2014 1650
Chrysene	ND	40	37		1	91	51-107	12/30/2014 1650
Dibenzo(a,h)anthracene	ND	40	42		1	104	47-116	12/30/2014 1650
Dibenzofuran	ND	40	34		1	86	45-94	12/30/2014 1650
2,4-Dichlorophenol	ND	40	35		1	89	34-105	12/30/2014 1650
Diethylphthalate	ND	40	37		1	92	48-124	12/30/2014 1650
Dimethyl phthalate	ND	40	36		1	89	43-122	12/30/2014 1650
2,4-Dimethylphenol	ND	40	51	N	1	128	33-77	12/30/2014 1650
Di-n-butyl phthalate	ND	40	37		1	93	50-134	12/30/2014 1650
4,6-Dinitro-2-methylphenol	ND	200	170		1	87	33-118	12/30/2014 1650
2,4-Dinitrophenol	ND	200	170		1	86	19-119	12/30/2014 1650
2,4-Dinitrotoluene	ND	80	78		1	97	50-104	12/30/2014 1650
2,6-Dinitrotoluene	ND	80	73		1	91	53-128	12/30/2014 1650
Di-n-octylphthalate	ND	40	39		1	97	40-112	12/30/2014 1650
bis(2-Ethylhexyl)phthalate	ND	40	39		1	99	10-142	12/30/2014 1650
Fluoranthene	ND	40	36		1	90	50-124	12/30/2014 1650
Fluorene	ND	40	35		1	88	39-122	12/30/2014 1650
Hexachlorobenzene	ND	40	34		1	85	46-125	12/30/2014 1650
Hexachlorobutadiene	ND	40	33		1	83	42-94	12/30/2014 1650
Hexachlorocyclopentadiene	ND	200	94		1	47	14-89	12/30/2014 1650
Hexachloroethane	ND	40	33		1	81	39-86	12/30/2014 1650
Indeno(1,2,3-c,d)pyrene	ND	40	40		1	100	43-113	12/30/2014 1650
Isophorone	ND	40	37	N	1	93	42-84	12/30/2014 1650
2-Methylnaphthalene	ND	40	36		1	90	40-132	12/30/2014 1650
2-Methylphenol	ND	40	40		1	99	33-122	12/30/2014 1650
3 & 4-Methylphenol	ND	80	74		1	92	24-97	12/30/2014 1650
Naphthalene	ND	40	34		1	84	46-89	12/30/2014 1650

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-016MS

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2-Nitroaniline	ND	80	68		1	85	48-126	12/30/2014 1650
3-Nitroaniline	ND	80	44		1	55	10-110	12/30/2014 1650
4-Nitroaniline	ND	80	69		1	87	41-99	12/30/2014 1650
Nitrobenzene	ND	40	37	N	1	92	44-91	12/30/2014 1650
2-Nitrophenol	ND	80	70		1	87	34-102	12/30/2014 1650
4-Nitrophenol	ND	200	190		1	94	29-122	12/30/2014 1650
N-Nitrosodi-n-propylamine	ND	40	38		1	96	41-96	12/30/2014 1650
N-Nitrosodiphenylamine (Diphenylamine)	ND	40	37		1	92	10-150	12/30/2014 1650
Pentachlorophenol	ND	200	160		1	82	32-110	12/30/2014 1650
Phenanthrene	ND	40	35		1	88	49-122	12/30/2014 1650
Phenol	ND	40	34		1	85	33-92	12/30/2014 1650
Pyrene	ND	40	34		1	85	50-130	12/30/2014 1650
2,4,5-Trichlorophenol	ND	40	35		1	86	46-125	12/30/2014 1650
2,4,6-Trichlorophenol	ND	40	33		1	84	36-123	12/30/2014 1650
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		86	37-129					
2-Fluorophenol		84	24-127					
Nitrobenzene-d5		82	38-127					
Phenol-d5		86	28-128					
Terphenyl-d14		95	10-148					
2,4,6-Tribromophenol		79	41-144					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-016MD

Batch: 63919

Analytical Method: 8270D

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	40	29		1	72	23	10-133	40	12/30/2014 1714
Acenaphthylene	ND	40	33		1	83	22	34-128	40	12/30/2014 1714
Anthracene	ND	40	28		1	70	25	48-122	40	12/30/2014 1714
Benzo(a)anthracene	ND	40	27		1	68	27	53-98	40	12/30/2014 1714
Benzo(a)pyrene	ND	40	25		1	63	33	11-160	40	12/30/2014 1714
Benzo(b)fluoranthene	ND	40	30		1	76	30	10-165	40	12/30/2014 1714
Benzo(g,h,i)perylene	ND	40	27		1	68	37	42-111	40	12/30/2014 1714
Benzo(k)fluoranthene	ND	40	29		1	72	32	13-175	40	12/30/2014 1714
4-Bromophenyl phenyl ether	ND	40	25		1	63	25	49-123	40	12/30/2014 1714
Butyl benzyl phthalate	ND	40	31		1	77	28	52-142	40	12/30/2014 1714
Carbazole	ND	40	30		1	75	25	45-101	40	12/30/2014 1714
4-Chloro-3-methyl phenol	ND	40	28		1	70	24	40-98	40	12/30/2014 1714
4-Chloroaniline	ND	40	11		1	27	15	10-98	40	12/30/2014 1714
bis(2-Chloroethoxy)methane	ND	40	27		1	68	23	43-93	40	12/30/2014 1714
bis(2-Chloroisopropyl)ether	ND	40	27		1	68	24	36-99	40	12/30/2014 1714
2-Chloronaphthalene	ND	40	23		1	58	24	40-89	40	12/30/2014 1714
2-Chlorophenol	ND	40	28		1	70	23	33-92	40	12/30/2014 1714
4-Chlorophenyl phenyl ether	ND	40	27		1	68	24	34-124	40	12/30/2014 1714
Chrysene	ND	40	27		1	69	28	51-107	40	12/30/2014 1714
Dibenzo(a,h)anthracene	ND	40	29		1	72	37	47-116	40	12/30/2014 1714
Dibenzofuran	ND	40	27		1	68	23	45-94	40	12/30/2014 1714
2,4-Dichlorophenol	ND	40	28		1	70	23	34-105	40	12/30/2014 1714
Diethylphthalate	ND	40	28		1	71	26	48-124	40	12/30/2014 1714
Dimethyl phthalate	ND	40	28		1	70	24	43-122	40	12/30/2014 1714
2,4-Dimethylphenol	ND	40	40	N	1	99	25	33-77	40	12/30/2014 1714
Di-n-butyl phthalate	ND	40	29		1	72	25	50-134	40	12/30/2014 1714
4,6-Dinitro-2-methylphenol	ND	200	140		1	69	24	33-118	40	12/30/2014 1714
2,4-Dinitrophenol	ND	200	140		1	69	22	19-119	40	12/30/2014 1714
2,4-Dinitrotoluene	ND	80	60		1	76	25	50-104	40	12/30/2014 1714
2,6-Dinitrotoluene	ND	80	57		1	71	24	53-128	40	12/30/2014 1714
Di-n-octylphthalate	ND	40	27		1	68	36	40-112	40	12/30/2014 1714
bis(2-Ethylhexyl)phthalate	ND	40	28		1	69	36	10-142	40	12/30/2014 1714
Fluoranthene	ND	40	28		1	69	26	50-124	40	12/30/2014 1714
Fluorene	ND	40	27		1	69	24	39-122	40	12/30/2014 1714
Hexachlorobenzene	ND	40	27		1	67	24	46-125	40	12/30/2014 1714
Hexachlorobutadiene	ND	40	27		1	66	23	42-94	40	12/30/2014 1714
Hexachlorocyclopentadiene	ND	200	77		1	39	19	14-89	40	12/30/2014 1714
Hexachloroethane	ND	40	26		1	66	21	39-86	40	12/30/2014 1714
Indeno(1,2,3-c,d)pyrene	ND	40	28		1	69	37	43-113	40	12/30/2014 1714
Isophorone	ND	40	30		1	75	22	42-84	40	12/30/2014 1714
2-Methylnaphthalene	ND	40	29		1	72	22	40-132	40	12/30/2014 1714
2-Methylphenol	ND	40	31		1	78	23	33-122	40	12/30/2014 1714
3 & 4-Methylphenol	ND	80	58		1	73	23	24-97	40	12/30/2014 1714
Naphthalene	ND	40	27		1	67	22	46-89	40	12/30/2014 1714

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-016MD

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2-Nitroaniline	ND	80	54		1	68	23	48-126	40	12/30/2014 1714
3-Nitroaniline	ND	80	38		1	47	16	10-110	40	12/30/2014 1714
4-Nitroaniline	ND	80	57		1	71	20	41-99	40	12/30/2014 1714
Nitrobenzene	ND	40	29		1	72	25	44-91	40	12/30/2014 1714
2-Nitrophenol	ND	80	56		1	70	22	34-102	40	12/30/2014 1714
4-Nitrophenol	ND	200	140		1	69	30	29-122	40	12/30/2014 1714
N-Nitrosodi-n-propylamine	ND	40	30		1	76	23	41-96	40	12/30/2014 1714
N-Nitrosodiphenylamine (Diphenylamine)	ND	40	31		1	76	18	10-150	40	12/30/2014 1714
Pentachlorophenol	ND	200	120		1	62	27	32-110	40	12/30/2014 1714
Phenanthrene	ND	40	27		1	69	24	49-122	40	12/30/2014 1714
Phenol	ND	40	27		1	68	23	33-92	40	12/30/2014 1714
Pyrene	ND	40	26		1	66	26	50-130	40	12/30/2014 1714
2,4,5-Trichlorophenol	ND	40	27		1	68	24	46-125	40	12/30/2014 1714
2,4,6-Trichlorophenol	ND	40	26		1	66	23	36-123	40	12/30/2014 1714
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	37-129							
2-Fluorophenol		67	24-127							
Nitrobenzene-d5		66	38-127							
Phenol-d5		69	28-128							
Terphenyl-d14		72	10-148							
2,4,6-Tribromophenol		61	41-144							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,1'-Biphenyl	ND		1	33	10	ug/kg	12/30/2014 1150
2,4,5-Trichlorophenol	ND		1	33	9.3	ug/kg	12/30/2014 1150
2,4,6-Trichlorophenol	ND		1	33	9.8	ug/kg	12/30/2014 1150
2,4-Dichlorophenol	ND		1	33	10	ug/kg	12/30/2014 1150
2,4-Dimethylphenol	ND		1	33	12	ug/kg	12/30/2014 1150
2,4-Dinitrophenol	ND		1	170	110	ug/kg	12/30/2014 1150
2,4-Dinitrotoluene	ND		1	67	18	ug/kg	12/30/2014 1150
2,6-Dinitrotoluene	ND		1	67	17	ug/kg	12/30/2014 1150
2-Chloronaphthalene	ND		1	33	11	ug/kg	12/30/2014 1150
2-Chlorophenol	ND		1	33	9.2	ug/kg	12/30/2014 1150
2-Methylnaphthalene	ND		1	33	9.9	ug/kg	12/30/2014 1150
2-Methylphenol	ND		1	33	6.0	ug/kg	12/30/2014 1150
2-Nitroaniline	ND		1	67	23	ug/kg	12/30/2014 1150
2-Nitrophenol	ND		1	67	18	ug/kg	12/30/2014 1150
3 & 4-Methylphenol	ND		1	67	12	ug/kg	12/30/2014 1150
3,3'-Dichlorobenzidine	ND		1	170	36	ug/kg	12/30/2014 1150
3-Nitroaniline	ND		1	67	39	ug/kg	12/30/2014 1150
4,6-Dinitro-2-methylphenol	ND		1	170	130	ug/kg	12/30/2014 1150
4-Bromophenyl phenyl ether	ND		1	33	9.8	ug/kg	12/30/2014 1150
4-Chloro-3-methyl phenol	ND		1	33	8.4	ug/kg	12/30/2014 1150
4-Chloroaniline	ND		1	33	6.8	ug/kg	12/30/2014 1150
4-Chlorophenyl phenyl ether	ND		1	33	11	ug/kg	12/30/2014 1150
4-Nitroaniline	ND		1	67	19	ug/kg	12/30/2014 1150
4-Nitrophenol	ND		1	170	96	ug/kg	12/30/2014 1150
Acenaphthene	ND		1	33	11	ug/kg	12/30/2014 1150
Acenaphthylene	ND		1	33	10	ug/kg	12/30/2014 1150
Acetophenone	ND		1	33	18	ug/kg	12/30/2014 1150
Anthracene	ND		1	33	7.4	ug/kg	12/30/2014 1150
Atrazine	ND		1	33	17	ug/kg	12/30/2014 1150
Benzaldehyde	ND		1	33	17	ug/kg	12/30/2014 1150
Benzo(a)anthracene	ND		1	33	8.8	ug/kg	12/30/2014 1150
Benzo(a)pyrene	ND		1	33	9.3	ug/kg	12/30/2014 1150
Benzo(b)fluoranthene	ND		1	33	9.6	ug/kg	12/30/2014 1150
Benzo(g,h,i)perylene	ND		1	33	12	ug/kg	12/30/2014 1150
Benzo(k)fluoranthene	ND		1	33	9.5	ug/kg	12/30/2014 1150
bis(2-Chloroethoxy)methane	ND		1	33	10	ug/kg	12/30/2014 1150
bis(2-Chloroethyl)ether	ND		1	33	9.2	ug/kg	12/30/2014 1150
bis(2-Chloroisopropyl)ether	ND		1	33	11	ug/kg	12/30/2014 1150
bis(2-Ethylhexyl)phthalate	ND		1	33	12	ug/kg	12/30/2014 1150
Butyl benzyl phthalate	ND		1	67	22	ug/kg	12/30/2014 1150
Caprolactam	ND		1	33	17	ug/kg	12/30/2014 1150
Carbazole	ND		1	33	14	ug/kg	12/30/2014 1150
Chrysene	ND		1	33	11	ug/kg	12/30/2014 1150
Di-n-butyl phthalate	ND		1	33	18	ug/kg	12/30/2014 1150

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Di-n-octylphthalate	ND		1	33	32	ug/kg	12/30/2014 1150
Dibenzo(a,h)anthracene	ND		1	33	9.1	ug/kg	12/30/2014 1150
Dibenzofuran	ND		1	33	10	ug/kg	12/30/2014 1150
Diethylphthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Dimethyl phthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Fluoranthene	ND		1	33	11	ug/kg	12/30/2014 1150
Fluorene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Hexachlorobenzene	ND		1	33	15	ug/kg	12/30/2014 1150
Hexachlorobutadiene	ND		1	33	11	ug/kg	12/30/2014 1150
Hexachlorocyclopentadiene	ND		1	170	25	ug/kg	12/30/2014 1150
Hexachloroethane	ND		1	33	8.9	ug/kg	12/30/2014 1150
Indeno(1,2,3-c,d)pyrene	ND		1	33	9.7	ug/kg	12/30/2014 1150
Isophorone	ND		1	33	7.4	ug/kg	12/30/2014 1150
N-Nitrosodi-n-propylamine	ND		1	33	13	ug/kg	12/30/2014 1150
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	33	8.3	ug/kg	12/30/2014 1150
Naphthalene	ND		1	33	10	ug/kg	12/30/2014 1150
Nitrobenzene	ND		1	33	5.4	ug/kg	12/30/2014 1150
Pentachlorophenol	ND		1	170	140	ug/kg	12/30/2014 1150
Phenanthrene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Phenol	ND		1	33	9.1	ug/kg	12/30/2014 1150
Pyrene	ND		1	33	13	ug/kg	12/30/2014 1150

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		42	30-117
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		44	28-104
Nitrobenzene-d5		39	22-109
Phenol-d5		47	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	670	300		1	45	30-130	12/30/2014 1213
2,4,5-Trichlorophenol	670	400		1	60	46-122	12/30/2014 1213
2,4,6-Trichlorophenol	670	380		1	57	38-115	12/30/2014 1213
2,4-Dichlorophenol	670	320		1	48	41-113	12/30/2014 1213
2,4-Dimethylphenol	670	490		1	74	33-123	12/30/2014 1213
2,4-Dinitrophenol	3300	2300		1	70	30-130	12/30/2014 1213
2,4-Dinitrotoluene	1300	1000		1	75	48-124	12/30/2014 1213
2,6-Dinitrotoluene	1300	880		1	66	47-125	12/30/2014 1213
2-Chloronaphthalene	670	280		1	42	31-127	12/30/2014 1213
2-Chlorophenol	670	300		1	45	37-106	12/30/2014 1213
2-Methylnaphthalene	670	300		1	46	40-106	12/30/2014 1213
2-Methylphenol	670	310		1	47	32-107	12/30/2014 1213
2-Nitroaniline	1300	870		1	66	45-128	12/30/2014 1213
2-Nitrophenol	1300	550		1	41	35-108	12/30/2014 1213
3 & 4-Methylphenol	1300	670		1	50	39-108	12/30/2014 1213
3,3'-Dichlorobenzidine	1300	1000		1	76	30-130	12/30/2014 1213
3-Nitroaniline	1300	870		1	65	24-127	12/30/2014 1213
4,6-Dinitro-2-methylphenol	3300	2600		1	78	40-130	12/30/2014 1213
4-Bromophenyl phenyl ether	670	390		1	59	46-118	12/30/2014 1213
4-Chloro-3-methyl phenol	670	410		1	62	49-118	12/30/2014 1213
4-Chloroaniline	670	370		1	55	10-125	12/30/2014 1213
4-Chlorophenyl phenyl ether	670	380		1	57	47-116	12/30/2014 1213
4-Nitroaniline	1300	1100		1	86	48-127	12/30/2014 1213
4-Nitrophenol	3300	2800		1	84	18-154	12/30/2014 1213
Acenaphthene	670	360		1	54	46-114	12/30/2014 1213
Acenaphthylene	670	450		1	68	44-122	12/30/2014 1213
Acetophenone	670	280		1	42	30-130	12/30/2014 1213
Anthracene	670	500		1	76	50-119	12/30/2014 1213
Atrazine	670	450		1	67	30-130	12/30/2014 1213
Benzaldehyde	670	280		1	42	40-117	12/30/2014 1213
Benzo(a)anthracene	670	540		1	80	47-121	12/30/2014 1213
Benzo(a)pyrene	670	590		1	89	55-134	12/30/2014 1213
Benzo(b)fluoranthene	670	570		1	85	28-139	12/30/2014 1213
Benzo(g,h,i)perylene	670	540		1	81	36-125	12/30/2014 1213
Benzo(k)fluoranthene	670	590		1	89	47-130	12/30/2014 1213
bis(2-Chloroethoxy)methane	670	290		1	44	39-108	12/30/2014 1213
bis(2-Chloroethyl)ether	670	280		1	42	32-105	12/30/2014 1213
bis(2-Chloroisopropyl)ether	670	280		1	43	31-102	12/30/2014 1213
bis(2-Ethylhexyl)phthalate	670	570		1	85	45-128	12/30/2014 1213
Butyl benzyl phthalate	670	570		1	86	46-128	12/30/2014 1213
Caprolactam	670	650		1	98	30-130	12/30/2014 1213
Carbazole	670	570		1	86	30-130	12/30/2014 1213
Chrysene	670	550		1	82	45-126	12/30/2014 1213
Di-n-butyl phthalate	670	550		1	82	51-129	12/30/2014 1213

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	670	550		1	82	49-142	12/30/2014 1213
Dibenzo(a,h)anthracene	670	540		1	81	30-130	12/30/2014 1213
Dibenzofuran	670	370		1	56	45-112	12/30/2014 1213
Diethylphthalate	670	500		1	75	49-123	12/30/2014 1213
Dimethyl phthalate	670	460		1	69	48-120	12/30/2014 1213
Fluoranthene	670	540		1	80	50-123	12/30/2014 1213
Fluorene	670	420		1	63	48-117	12/30/2014 1213
Hexachlorobenzene	670	490		1	73	44-122	12/30/2014 1213
Hexachlorobutadiene	670	250		1	37	33-103	12/30/2014 1213
Hexachlorocyclopentadiene	3300	1300		1	39	18-121	12/30/2014 1213
Hexachloroethane	670	240		1	36	30-96	12/30/2014 1213
Indeno(1,2,3-c,d)pyrene	670	530		1	80	45-123	12/30/2014 1213
Isophorone	670	330		1	49	30-130	12/30/2014 1213
N-Nitrosodi-n-propylamine	670	310		1	46	32-115	12/30/2014 1213
N-Nitrosodiphenylamine (Diphenylamine)	670	570		1	86	53-150	12/30/2014 1213
Naphthalene	670	270		1	41	36-110	12/30/2014 1213
Nitrobenzene	670	280		1	42	33-114	12/30/2014 1213
Pentachlorophenol	3300	2200		1	65	27-138	12/30/2014 1213
Phenanthrene	670	470		1	71	49-117	12/30/2014 1213
Phenol	670	320		1	48	36-108	12/30/2014 1213
Pyrene	670	530		1	79	47-119	12/30/2014 1213
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		69	30-117				
2-Fluorobiphenyl		46	33-102				
2-Fluorophenol		42	28-104				
Nitrobenzene-d5		41	22-109				
Phenol-d5		46	27-103				
Terphenyl-d14		85	41-120				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-021MS

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	800	470		1	59	30-130	01/02/2015 1235
Acenaphthylene	ND	800	630		1	79	30-130	01/02/2015 1235
Acetophenone	ND	800	460		1	58	30-130	01/02/2015 1235
Anthracene	ND	800	620		1	77	30-130	01/02/2015 1235
Atrazine	ND	800	500		1	63	30-130	01/02/2015 1235
Benzaldehyde	ND	800	360		1	45	40-117	01/02/2015 1235
Benzo(a)anthracene	13	800	660		1	81	30-130	01/02/2015 1235
Benzo(a)pyrene	11	800	740		1	93	30-130	01/02/2015 1235
Benzo(b)fluoranthene	15	800	730		1	90	30-130	01/02/2015 1235
Benzo(g,h,i)perylene	14	800	670		1	83	30-130	01/02/2015 1235
Benzo(k)fluoranthene	ND	800	710		1	89	30-130	01/02/2015 1235
1,1'-Biphenyl	ND	800	450		1	56	30-130	01/02/2015 1235
4-Bromophenyl phenyl ether	ND	800	490		1	61	30-130	01/02/2015 1235
Butyl benzyl phthalate	ND	800	700		1	87	30-130	01/02/2015 1235
Caprolactam	ND	800	780		1	97	30-130	01/02/2015 1235
Carbazole	ND	800	690		1	86	30-130	01/02/2015 1235
4-Chloro-3-methyl phenol	ND	800	550		1	68	30-130	01/02/2015 1235
4-Chloroaniline	ND	800	160		1	20	10-130	01/02/2015 1235
bis(2-Chloroethoxy)methane	ND	800	470		1	58	30-130	01/02/2015 1235
bis(2-Chloroethyl)ether	ND	800	380		1	48	30-130	01/02/2015 1235
bis(2-Chloroisopropyl)ether	ND	800	410		1	51	30-130	01/02/2015 1235
2-Chloronaphthalene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Chlorophenol	ND	800	500		1	62	30-130	01/02/2015 1235
4-Chlorophenyl phenyl ether	ND	800	490		1	61	30-130	01/02/2015 1235
Chrysene	ND	800	690		1	86	30-130	01/02/2015 1235
Dibenzo(a,h)anthracene	ND	800	660		1	83	30-130	01/02/2015 1235
Dibenzofuran	ND	800	500		1	62	30-130	01/02/2015 1235
3,3'-Dichlorobenzidine	ND	1600	1100		1	67	30-130	01/02/2015 1235
2,4-Dichlorophenol	ND	800	510		1	64	30-130	01/02/2015 1235
Diethylphthalate	ND	800	600		1	75	30-130	01/02/2015 1235
Dimethyl phthalate	ND	800	590		1	74	30-130	01/02/2015 1235
2,4-Dimethylphenol	ND	800	760		1	95	30-130	01/02/2015 1235
Di-n-butyl phthalate	ND	800	680		1	85	30-130	01/02/2015 1235
4,6-Dinitro-2-methylphenol	ND	4000	2900		1	73	30-130	01/02/2015 1235
2,4-Dinitrophenol	ND	4000	2800		1	71	30-130	01/02/2015 1235
2,4-Dinitrotoluene	ND	1600	1200		1	77	30-130	01/02/2015 1235
2,6-Dinitrotoluene	ND	1600	1100		1	71	30-130	01/02/2015 1235
Di-n-octylphthalate	ND	800	650		1	82	30-130	01/02/2015 1235
bis(2-Ethylhexyl)phthalate	ND	800	710		1	88	30-130	01/02/2015 1235
Fluoranthene	15	800	670		1	82	30-130	01/02/2015 1235
Fluorene	ND	800	520		1	65	30-130	01/02/2015 1235
Hexachlorobenzene	ND	800	570		1	71	30-130	01/02/2015 1235
Hexachlorobutadiene	ND	800	380		1	48	30-130	01/02/2015 1235
Hexachlorocyclopentadiene	ND	4000	1100	N	1	27	30-130	01/02/2015 1235

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: PL18008-021MS

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	ND	800	310		1	38	30-130	01/02/2015 1235
Indeno(1,2,3-c,d)pyrene	ND	800	680		1	84	30-130	01/02/2015 1235
Isophorone	ND	800	460		1	57	30-130	01/02/2015 1235
2-Methylnaphthalene	ND	800	460		1	58	30-130	01/02/2015 1235
2-Methylphenol	ND	800	510		1	64	30-130	01/02/2015 1235
3 & 4-Methylphenol	ND	1600	1000		1	64	30-130	01/02/2015 1235
Naphthalene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Nitroaniline	ND	1600	1200		1	73	30-130	01/02/2015 1235
3-Nitroaniline	ND	1600	820		1	51	30-130	01/02/2015 1235
4-Nitroaniline	ND	1600	1300		1	81	30-130	01/02/2015 1235
Nitrobenzene	ND	800	410		1	51	30-130	01/02/2015 1235
2-Nitrophenol	ND	1600	940		1	59	30-130	01/02/2015 1235
4-Nitrophenol	ND	4000	3200		1	79	30-130	01/02/2015 1235
N-Nitrosodi-n-propylamine	ND	800	420		1	53	30-130	01/02/2015 1235
N-Nitrosodiphenylamine (Diphenylamine)	ND	800	680		1	85	30-130	01/02/2015 1235
Pentachlorophenol	ND	4000	2500		1	62	30-130	01/02/2015 1235
Phenanthrene	ND	800	590		1	73	30-130	01/02/2015 1235
Phenol	12	800	500		1	61	30-130	01/02/2015 1235
Pyrene	ND	800	630		1	79	30-130	01/02/2015 1235
2,4,5-Trichlorophenol	ND	800	530		1	66	30-130	01/02/2015 1235
2,4,6-Trichlorophenol	ND	800	540		1	67	30-130	01/02/2015 1235
Surrogate	Q	% Rec	Acceptance Limit					
2-Fluorobiphenyl		58	33-102					
2-Fluorophenol		60	28-104					
Nitrobenzene-d5		52	22-109					
Phenol-d5		65	27-103					
Terphenyl-d14		90	41-120					
2,4,6-Tribromophenol		77	30-117					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-021MD

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	820	640		1	78	30	30-130	40	01/02/2015 1258
Acenaphthylene	ND	820	820		1	100	26	30-130	40	01/02/2015 1258
Acetophenone	ND	820	600		1	73	26	30-130	40	01/02/2015 1258
Anthracene	ND	820	770		1	94	22	30-130	40	01/02/2015 1258
Atrazine	ND	820	600		1	73	17	30-130	40	01/02/2015 1258
Benzaldehyde	ND	820	470		1	57	25	40-117	40	01/02/2015 1258
Benzo(a)anthracene	13	820	800		1	96	20	30-130	40	01/02/2015 1258
Benzo(a)pyrene	11	820	910		1	111	20	30-130	40	01/02/2015 1258
Benzo(b)fluoranthene	15	820	890		1	107	19	30-130	40	01/02/2015 1258
Benzo(g,h,i)perylene	14	820	790		1	97	17	30-130	40	01/02/2015 1258
Benzo(k)fluoranthene	ND	820	870		1	107	21	30-130	40	01/02/2015 1258
1,1'-Biphenyl	ND	820	580		1	70	24	30-130	40	01/02/2015 1258
4-Bromophenyl phenyl ether	ND	820	650		1	79	28	30-130	40	01/02/2015 1258
Butyl benzyl phthalate	ND	820	840		1	103	19	30-130	40	01/02/2015 1258
Caprolactam	ND	820	1000		1	121	25	30-130	40	01/02/2015 1258
Carbazole	ND	820	850		1	104	20	30-130	40	01/02/2015 1258
4-Chloro-3-methyl phenol	ND	820	710		1	87	26	30-130	40	01/02/2015 1258
4-Chloroaniline	ND	820	210		1	25	25	10-130	40	01/02/2015 1258
bis(2-Chloroethoxy)methane	ND	820	610		1	74	26	30-130	40	01/02/2015 1258
bis(2-Chloroethyl)ether	ND	820	510		1	63	29	30-130	40	01/02/2015 1258
bis(2-Chloroisopropyl)ether	ND	820	540		1	66	28	30-130	40	01/02/2015 1258
2-Chloronaphthalene	ND	820	520		1	63	22	30-130	40	01/02/2015 1258
2-Chlorophenol	ND	820	660		1	81	29	30-130	40	01/02/2015 1258
4-Chlorophenyl phenyl ether	ND	820	630		1	77	25	30-130	40	01/02/2015 1258
Chrysene	ND	820	840		1	102	20	30-130	40	01/02/2015 1258
Dibenzo(a,h)anthracene	ND	820	800		1	98	19	30-130	40	01/02/2015 1258
Dibenzofuran	ND	820	640		1	78	25	30-130	40	01/02/2015 1258
3,3'-Dichlorobenzidine	ND	1600	1300		1	80	21	30-130	40	01/02/2015 1258
2,4-Dichlorophenol	ND	820	670		1	81	26	30-130	40	01/02/2015 1258
Diethylphthalate	ND	820	760		1	92	23	30-130	40	01/02/2015 1258
Dimethyl phthalate	ND	820	750		1	92	24	30-130	40	01/02/2015 1258
2,4-Dimethylphenol	ND	820	970		1	119	24	30-130	40	01/02/2015 1258
Di-n-butyl phthalate	ND	820	830		1	101	19	30-130	40	01/02/2015 1258
4,6-Dinitro-2-methylphenol	ND	4100	3900		1	94	27	30-130	40	01/02/2015 1258
2,4-Dinitrophenol	ND	4100	3700		1	89	25	30-130	40	01/02/2015 1258
2,4-Dinitrotoluene	ND	1600	1600		1	97	24	30-130	40	01/02/2015 1258
2,6-Dinitrotoluene	ND	1600	1500		1	91	27	30-130	40	01/02/2015 1258
Di-n-octylphthalate	ND	820	800		1	97	20	30-130	40	01/02/2015 1258
bis(2-Ethylhexyl)phthalate	ND	820	860		1	105	19	30-130	40	01/02/2015 1258
Fluoranthene	15	820	820		1	98	19	30-130	40	01/02/2015 1258
Fluorene	ND	820	680		1	82	25	30-130	40	01/02/2015 1258
Hexachlorobenzene	ND	820	740		1	90	26	30-130	40	01/02/2015 1258
Hexachlorobutadiene	ND	820	490		1	60	25	30-130	40	01/02/2015 1258
Hexachlorocyclopentadiene	ND	4100	1700	+	1	41	42	30-130	40	01/02/2015 1258

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: PL18008-021MD

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	ND	820	420		1	52	32	30-130	40	01/02/2015 1258
Indeno(1,2,3-c,d)pyrene	ND	820	800		1	98	17	30-130	40	01/02/2015 1258
Isophorone	ND	820	610		1	74	27	30-130	40	01/02/2015 1258
2-Methylnaphthalene	ND	820	590		1	71	24	30-130	40	01/02/2015 1258
2-Methylphenol	ND	820	670		1	81	26	30-130	40	01/02/2015 1258
3 & 4-Methylphenol	ND	1600	1300		1	82	28	30-130	40	01/02/2015 1258
Naphthalene	ND	820	540		1	65	26	30-130	40	01/02/2015 1258
2-Nitroaniline	ND	1600	1600		1	95	28	30-130	40	01/02/2015 1258
3-Nitroaniline	ND	1600	930		1	57	13	30-130	40	01/02/2015 1258
4-Nitroaniline	ND	1600	1600		1	97	20	30-130	40	01/02/2015 1258
Nitrobenzene	ND	820	530		1	64	25	30-130	40	01/02/2015 1258
2-Nitrophenol	ND	1600	1200		1	76	28	30-130	40	01/02/2015 1258
4-Nitrophenol	ND	4100	3800		1	93	19	30-130	40	01/02/2015 1258
N-Nitrosodi-n-propylamine	ND	820	560		1	68	27	30-130	40	01/02/2015 1258
N-Nitrosodiphenylamine (Diphenylamine)	ND	820	870		1	106	24	30-130	40	01/02/2015 1258
Pentachlorophenol	ND	4100	3100		1	76	22	30-130	40	01/02/2015 1258
Phenanthrene	ND	820	740		1	90	23	30-130	40	01/02/2015 1258
Phenol	12	820	650		1	78	26	30-130	40	01/02/2015 1258
Pyrene	ND	820	760		1	93	19	30-130	40	01/02/2015 1258
2,4,5-Trichlorophenol	ND	820	710		1	86	29	30-130	40	01/02/2015 1258
2,4,6-Trichlorophenol	ND	820	720		1	88	29	30-130	40	01/02/2015 1258
Surrogate	Q	% Rec	Acceptance Limit							
2-Fluorobiphenyl		69	33-102							
2-Fluorophenol		76	28-104							
Nitrobenzene-d5		65	22-109							
Phenol-d5		80	27-103							
Terphenyl-d14		103	41-120							
2,4,6-Tribromophenol		93	30-117							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ63824-001

Matrix: Aqueous

Batch: 63824

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2014 1200

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	12/26/2014 1914
4,4'-DDE	ND		1	0.025	0.011	ug/L	12/26/2014 1914
4,4'-DDT	ND		1	0.025	0.0020	ug/L	12/26/2014 1914
Aldrin	ND		1	0.025	0.0017	ug/L	12/26/2014 1914
alpha-BHC	0.0016	J	1	0.025	0.0010	ug/L	12/26/2014 1914
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	12/26/2014 1914
beta-BHC	ND		1	0.025	0.0039	ug/L	12/26/2014 1914
delta-BHC	0.0011	J	1	0.025	0.0011	ug/L	12/26/2014 1914
Dieldrin	ND		1	0.025	0.0010	ug/L	12/26/2014 1914
Endosulfan I	ND		1	0.025	0.0022	ug/L	12/26/2014 1914
Endosulfan II	ND		1	0.025	0.0015	ug/L	12/26/2014 1914
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	12/26/2014 1914
Endrin	0.0010	J	1	0.025	0.0010	ug/L	12/26/2014 1914
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	12/26/2014 1914
Endrin ketone	ND		1	0.025	0.0012	ug/L	12/26/2014 1914
gamma-BHC (Lindane)	0.0026	J	1	0.025	0.0011	ug/L	12/26/2014 1914
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	12/26/2014 1914
Heptachlor	ND		1	0.025	0.013	ug/L	12/26/2014 1914
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	12/26/2014 1914
Methoxychlor	ND		1	0.10	0.0020	ug/L	12/26/2014 1914
Toxaphene	ND		1	0.25	0.11	ug/L	12/26/2014 1914
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		81	10-122				
Tetrachloro-m-xylene		84	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ63824-002

Matrix: Aqueous

Batch: 63824

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/23/2014 1200

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	95	70-130	12/26/2014 1930
4,4'-DDE	0.50	0.44		1	89	70-130	12/26/2014 1930
4,4'-DDT	0.50	0.54		1	108	70-130	12/26/2014 1930
Aldrin	0.50	0.44		1	88	70-130	12/26/2014 1930
alpha-BHC	0.50	0.44		1	88	70-130	12/26/2014 1930
alpha-Chlordane	0.50	0.45		1	90	70-130	12/26/2014 1930
beta-BHC	0.50	0.43		1	86	70-130	12/26/2014 1930
delta-BHC	0.50	0.46		1	92	70-130	12/26/2014 1930
Dieldrin	0.50	0.46		1	93	70-130	12/26/2014 1930
Endosulfan I	0.50	0.46		1	91	70-130	12/26/2014 1930
Endosulfan II	0.50	0.48		1	96	70-130	12/26/2014 1930
Endosulfan sulfate	0.50	0.44		1	89	70-130	12/26/2014 1930
Endrin	0.50	0.44		1	89	70-130	12/26/2014 1930
Endrin aldehyde	0.50	0.48		1	96	70-130	12/26/2014 1930
Endrin ketone	0.50	0.51		1	103	70-130	12/26/2014 1930
gamma-BHC (Lindane)	0.50	0.55		1	110	70-130	12/26/2014 1930
gamma-Chlordane	0.50	0.45		1	91	70-130	12/26/2014 1930
Heptachlor	0.50	0.41		1	82	70-130	12/26/2014 1930
Heptachlor epoxide	0.50	0.44		1	87	70-130	12/26/2014 1930
Methoxychlor	0.50	0.52		1	104	70-130	12/26/2014 1930
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		79	10-122				
Tetrachloro-m-xylene		83	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: PL18008-019MS

Batch: 63824

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/23/2014 1200

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	1.0	0.85		1	85	70-130	12/26/2014 2113
gamma-BHC (Lindane)	0.0020	1.0	0.84		1	83	70-130	12/26/2014 2113
alpha-BHC	0.0015	1.0	0.74		1	73	70-130	12/26/2014 2113
beta-BHC	ND	1.0	0.79		1	79	70-130	12/26/2014 2113
delta-BHC	0.0015	1.0	0.90		1	90	70-130	12/26/2014 2113
alpha-Chlordane	ND	1.0	0.87		1	87	70-130	12/26/2014 2113
gamma-Chlordane	ND	1.0	0.88		1	88	70-130	12/26/2014 2113
4,4'-DDD	ND	1.0	0.94		1	94	70-130	12/26/2014 2113
4,4'-DDE	ND	1.0	0.86		1	86	70-130	12/26/2014 2113
4,4'-DDT	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Dieldrin	ND	1.0	0.89		1	89	70-130	12/26/2014 2113
Endosulfan I	ND	1.0	0.87		1	87	70-130	12/26/2014 2113
Endosulfan II	ND	1.0	0.94		1	94	70-130	12/26/2014 2113
Endosulfan sulfate	ND	1.0	0.92		1	92	70-130	12/26/2014 2113
Endrin	0.0010	1.0	0.89		1	88	70-130	12/26/2014 2113
Endrin aldehyde	0.0019	1.0	1.1		1	109	70-130	12/26/2014 2113
Endrin ketone	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Heptachlor	ND	1.0	0.75		1	75	70-130	12/26/2014 2113
Heptachlor epoxide	ND	1.0	0.85		1	85	70-130	12/26/2014 2113
Methoxychlor	ND	1.0	1.1		1	110	70-130	12/26/2014 2113
Surrogate	Q	% Rec	Acceptance Limit					
Decachlorobiphenyl		79	10-122					
Tetrachloro-m-xylene		71	46-119					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: PL18008-019MD

Batch: 63824

Analytical Method: 8081B

Matrix: Aqueous

Prep Method: 3520C

Prep Date: 12/23/2014 1200

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	1.0	0.86		1	86	1.0	70-130	30	12/26/2014 2128
gamma-BHC (Lindane)	0.0020	1.0	0.88		1	88	5.2	70-130	30	12/26/2014 2128
alpha-BHC	0.0015	1.0	0.75		1	75	2.0	70-130	30	12/26/2014 2128
beta-BHC	ND	1.0	0.80		1	80	2.3	70-130	30	12/26/2014 2128
delta-BHC	0.0015	1.0	0.92		1	92	2.9	70-130	30	12/26/2014 2128
alpha-Chlordane	ND	1.0	0.90		1	90	2.9	70-130	30	12/26/2014 2128
gamma-Chlordane	ND	1.0	0.90		1	90	2.1	70-130	30	12/26/2014 2128
4,4'-DDD	ND	1.0	0.95		1	95	2.0	70-130	30	12/26/2014 2128
4,4'-DDE	ND	1.0	0.89		1	89	2.8	70-130	30	12/26/2014 2128
4,4'-DDT	ND	1.0	1.1		1	112	1.6	70-130	30	12/26/2014 2128
Dieldrin	ND	1.0	0.92		1	92	3.7	70-130	30	12/26/2014 2128
Endosulfan I	ND	1.0	0.89		1	89	2.5	70-130	30	12/26/2014 2128
Endosulfan II	ND	1.0	0.95		1	95	1.1	70-130	30	12/26/2014 2128
Endosulfan sulfate	ND	1.0	0.93		1	93	1.5	70-130	30	12/26/2014 2128
Endrin	0.0010	1.0	0.90		1	90	1.9	70-130	30	12/26/2014 2128
Endrin aldehyde	0.0019	1.0	1.1		1	109	0.092	70-130	30	12/26/2014 2128
Endrin ketone	ND	1.0	1.1		1	112	2.3	70-130	30	12/26/2014 2128
Heptachlor	ND	1.0	0.77		1	77	1.7	70-130	30	12/26/2014 2128
Heptachlor epoxide	ND	1.0	0.88		1	88	3.0	70-130	30	12/26/2014 2128
Methoxychlor	ND	1.0	1.1		1	112	1.2	70-130	30	12/26/2014 2128
Surrogate	Q	% Rec	Acceptance Limit							
Decachlorobiphenyl		76	10-122							
Tetrachloro-m-xylene		72	46-119							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64120-001

Batch: 64120

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
4,4'-DDE	ND		1	1.7	0.32	ug/kg	01/07/2015 1043
4,4'-DDT	ND		1	1.7	0.070	ug/kg	01/07/2015 1043
Aldrin	ND		1	1.7	0.042	ug/kg	01/07/2015 1043
alpha-BHC	ND		1	1.7	0.045	ug/kg	01/07/2015 1043
alpha-Chlordane	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
beta-BHC	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
delta-BHC	ND		1	1.7	0.021	ug/kg	01/07/2015 1043
Dieldrin	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
Endosulfan I	ND		1	1.7	0.041	ug/kg	01/07/2015 1043
Endosulfan II	ND		1	1.7	0.032	ug/kg	01/07/2015 1043
Endosulfan sulfate	ND		1	1.7	0.037	ug/kg	01/07/2015 1043
Endrin	ND		1	1.7	0.022	ug/kg	01/07/2015 1043
Endrin aldehyde	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Endrin ketone	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
gamma-BHC (Lindane)	ND		1	1.7	0.075	ug/kg	01/07/2015 1043
gamma-Chlordane	ND		1	1.7	0.025	ug/kg	01/07/2015 1043
Heptachlor	ND		1	1.7	0.057	ug/kg	01/07/2015 1043
Heptachlor epoxide	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Methoxychlor	ND		1	6.7	0.067	ug/kg	01/07/2015 1043
Toxaphene	ND		1	83	1.7	ug/kg	01/07/2015 1043
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64120-002

Matrix: Solid

Batch: 64120

Prep Method: 3550C

Analytical Method: 8081B

Prep Date: 12/29/2014 930

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	15		1	91	70-130	01/07/2015 1057
4,4'-DDE	17	15		1	89	70-130	01/07/2015 1057
4,4'-DDT	17	15		1	87	70-130	01/07/2015 1057
Aldrin	17	15		1	87	70-130	01/07/2015 1057
alpha-BHC	17	14		1	80	70-130	01/07/2015 1057
alpha-Chlordane	17	15		1	88	70-130	01/07/2015 1057
beta-BHC	17	13		1	79	70-130	01/07/2015 1057
delta-BHC	17	14		1	82	70-130	01/07/2015 1057
Dieldrin	17	16		1	92	70-130	01/07/2015 1057
Endosulfan I	17	15		1	88	70-130	01/07/2015 1057
Endosulfan II	17	15		1	90	70-130	01/07/2015 1057
Endosulfan sulfate	17	14		1	84	70-130	01/07/2015 1057
Endrin	17	15		1	90	70-130	01/07/2015 1057
Endrin aldehyde	17	14		1	81	70-130	01/07/2015 1057
Endrin ketone	17	15		1	87	70-130	01/07/2015 1057
gamma-BHC (Lindane)	17	14		1	84	70-130	01/07/2015 1057
gamma-Chlordane	17	15		1	86	70-130	01/07/2015 1057
Heptachlor	17	14		1	80	70-130	01/07/2015 1057
Heptachlor epoxide	17	14		1	85	70-130	01/07/2015 1057
Methoxychlor	17	15		1	88	70-130	01/07/2015 1057
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63790-001

Batch: 63790

Analytical Method: 6010C

Matrix: Solid

Prep Method: 3050B

Prep Date: 12/23/2014 901

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.50	0.19	mg/kg	12/26/2014 1645
Barium	ND		1	1.3	0.091	mg/kg	12/26/2014 1645
Cadmium	ND		1	0.10	0.011	mg/kg	12/26/2014 1645
Chromium	ND		1	0.25	0.051	mg/kg	12/26/2014 1645
Lead	ND		1	0.50	0.093	mg/kg	12/26/2014 1645
Selenium	ND		1	0.50	0.17	mg/kg	12/26/2014 1645
Silver	ND		1	0.25	0.042	mg/kg	12/26/2014 1645

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63790-002

Matrix: Solid

Batch: 63790

Prep Method: 3050B

Analytical Method: 6010C

Prep Date: 12/23/2014 901

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	230	220		1	96	80-120	12/26/2014 1653
Barium	460	460		1	101	80-120	12/26/2014 1653
Cadmium	46	45		1	99	80-120	12/26/2014 1653
Chromium	230	230		1	101	80-120	12/26/2014 1653
Lead	230	230		1	99	80-120	12/26/2014 1653
Selenium	46	43		1	94	80-120	12/26/2014 1653
Silver	230	230		5	99	80-120	12/26/2014 1708

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ63838-001

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	0.010	0.0040	mg/L	12/30/2014 1127
Barium	ND		1	0.025	0.0075	mg/L	12/30/2014 1127
Cadmium	ND		1	0.0020	0.00060	mg/L	12/30/2014 1127
Chromium	ND		1	0.0050	0.0021	mg/L	12/30/2014 1127
Lead	ND		1	0.010	0.0019	mg/L	12/30/2014 1127
Selenium	ND		1	0.010	0.0026	mg/L	12/30/2014 1127
Silver	ND		1	0.0050	0.00040	mg/L	12/30/2014 1127

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ63838-002

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.38		5	96	80-120	12/30/2014 1131
Barium	2.0	2.0		5	99	80-120	12/30/2014 1131
Cadmium	0.40	0.39		5	96	80-120	12/30/2014 1131
Chromium	2.0	1.9		5	94	80-120	12/30/2014 1131
Lead	0.40	0.42		5	105	80-120	12/30/2014 1131
Selenium	0.40	0.39		5	97	80-120	12/30/2014 1131
Silver	0.40	0.40		5	99	80-120	12/30/2014 1131

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.39		5	97	75-125	12/30/2014 1224
Barium	0.040	2.0	2.1		5	101	75-125	12/30/2014 1224
Cadmium	ND	0.40	0.39		5	97	75-125	12/30/2014 1224
Chromium	ND	2.0	1.9		5	97	75-125	12/30/2014 1224
Lead	0.0061	0.40	0.43		5	107	75-125	12/30/2014 1224
Selenium	ND	0.40	0.38		5	94	75-125	12/30/2014 1224
Silver	0.00040	0.40	0.37		5	92	75-125	12/30/2014 1224

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 182 of 202

Level 1 Report v2.1

RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.36		5	90	8.1	75-125	20	12/30/2014 1228
Barium	0.040	2.0	2.0		5	96	5.1	75-125	20	12/30/2014 1228
Cadmium	ND	0.40	0.37		5	92	5.3	75-125	20	12/30/2014 1228
Chromium	ND	2.0	1.8		5	92	5.3	75-125	20	12/30/2014 1228
Lead	0.0061	0.40	0.41		5	102	5.0	75-125	20	12/30/2014 1228
Selenium	ND	0.40	0.39		5	96	2.1	75-125	20	12/30/2014 1228
Silver	0.00040	0.40	0.39		5	97	4.9	75-125	20	12/30/2014 1228

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MB

Sample ID: PQ63838-001

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Arsenic	ND		1	0.010	0.0040	mg/L	12/30/2014 1127
Dissolved Barium	ND		1	0.025	0.0075	mg/L	12/30/2014 1127
Dissolved Cadmium	ND		1	0.0020	0.00060	mg/L	12/30/2014 1127
Dissolved Chromium	ND		1	0.0050	0.0021	mg/L	12/30/2014 1127
Dissolved Lead	ND		1	0.010	0.0019	mg/L	12/30/2014 1127
Dissolved Selenium	ND		1	0.010	0.0026	mg/L	12/30/2014 1127
Dissolved Silver	ND		1	0.0050	0.00040	mg/L	12/30/2014 1127

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ63838-002

Batch: 63838

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 12/23/2014 1605

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	0.40	0.38		5	96	80-120	12/30/2014 1131
Dissolved Barium	2.0	2.0		5	99	80-120	12/30/2014 1131
Dissolved Cadmium	0.40	0.39		5	96	80-120	12/30/2014 1131
Dissolved Chromium	2.0	1.9		5	94	80-120	12/30/2014 1131
Dissolved Lead	0.40	0.42		5	105	80-120	12/30/2014 1131
Dissolved Selenium	0.40	0.39		5	97	80-120	12/30/2014 1131
Dissolved Silver	0.40	0.40		5	99	80-120	12/30/2014 1131

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Arsenic	ND	0.40	0.38		5	96	75-125	12/30/2014 1240
Dissolved Barium	0.036	2.0	2.1		5	101	75-125	12/30/2014 1240
Dissolved Cadmium	ND	0.40	0.39		5	97	75-125	12/30/2014 1240
Dissolved Chromium	ND	2.0	1.9		5	97	75-125	12/30/2014 1240
Dissolved Lead	0.0041	0.40	0.43		5	106	75-125	12/30/2014 1240
Dissolved Selenium	ND	0.40	0.38		5	96	75-125	12/30/2014 1240
Dissolved Silver	ND	0.40	0.38		5	95	75-125	12/30/2014 1240

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 63838

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 12/23/2014 1605

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Dissolved Arsenic	ND	0.40	0.41		5	102	6.8	75-125	20	12/30/2014 2049
Dissolved Barium	0.036	2.0	2.2		5	109	7.5	75-125	20	12/30/2014 2049
Dissolved Cadmium	ND	0.40	0.40		5	101	4.0	75-125	20	12/30/2014 2049
Dissolved Chromium	ND	2.0	2.0		5	102	5.4	75-125	20	12/30/2014 2049
Dissolved Lead	0.0041	0.40	0.45		5	110	3.9	75-125	20	12/30/2014 2049
Dissolved Selenium	ND	0.40	0.41		5	104	8.0	75-125	20	12/30/2014 2049
Dissolved Silver	ND	0.40	0.39		5	97	1.8	75-125	20	12/30/2014 2049

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: QQ64841-001

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Arsenic	ND		1	1.0	0.26	ug/L	01/09/2015 0207
Barium	0.29	J	1	5.0	0.045	ug/L	01/09/2015 0207
Cadmium	ND		1	0.10	0.059	ug/L	01/09/2015 0207
Chromium	ND		1	5.0	0.35	ug/L	01/09/2015 0207
Lead	ND		1	1.0	0.047	ug/L	01/09/2015 0207
Selenium	ND		1	1.0	0.25	ug/L	01/09/2015 0207
Silver	ND		1	1.0	0.011	ug/L	01/09/2015 1743

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCS

Sample ID: QQ64841-002

Matrix: Aqueous

Batch: 64841

Prep Method: 3005A

Analytical Method: 6020A

Prep Date: 01/08/2015 1415

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	100		1	101	80-120	01/09/2015 0212
Barium	100	100		1	105	80-120	01/09/2015 0212
Cadmium	100	100		1	101	80-120	01/09/2015 0212
Chromium	100	98		1	98	80-120	01/09/2015 0212
Lead	100	100		1	101	80-120	01/09/2015 0212
Selenium	100	100		1	100	80-120	01/09/2015 0212
Silver	100	110		1	109	80-120	01/09/2015 1748

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MB

Sample ID: PQ64167-001

Batch: 64167

Analytical Method: 7471B

Matrix: Solid

Prep Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	0.0092	J	1	0.083	0.0059	mg/kg	12/31/2014 1217

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64167-002

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.78	0.83		1	107	80-120	12/31/2014 1219

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 191 of 202

Level 1 Report v2.1

RCRA Metals - MS

Sample ID: PL18008-021MS

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.90	0.85		1	95	80-120	12/31/2014 1231

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MSD

Sample ID: PL18008-021MD

Matrix: Solid

Batch: 64167

Prep Method: 7471B

Analytical Method: 7471B

Prep Date: 12/30/2014 1244

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	1.0	0.99		1	98	15	80-120	20	12/31/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 193 of 202

Level 1 Report v2.1

CVAA - MB

Sample ID: PQ64180-001

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 194 of 202

Level 1 Report v2.1

CVAA - LCS

Sample ID: PQ64180-002

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 195 of 202

Level 1 Report v2.1

RCRA Metals - MB

Sample ID: PQ64180-001

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - LCS

Sample ID: PQ64180-002

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.000017	0.0020	0.0019		1	93	85-115	12/29/2014 1808

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 198 of 202

Level 1 Report v2.1

RCRA Metals - MSD

Sample ID: PL18008-012MD

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.000017	0.0020	0.0018		1	90	3.6	85-115	20	12/29/2014 1810

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 199 of 202

Level 1 Report v2.1

Dissolved RCRA Metals - MB

Sample ID: PQ64180-001

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Mercury	ND		1	0.00010	0.000015	mg/L	12/29/2014 1752

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - LCS

Sample ID: PQ64180-002

Batch: 64180

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	0.0020	0.0019		1	94	85-115	12/29/2014 1753

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved RCRA Metals - MS

Sample ID: PL18008-012MS

Matrix: Aqueous

Batch: 64180

Prep Method: 7470A

Analytical Method: 7470A

Prep Date: 12/29/2014 1445

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Mercury	ND	0.0020	0.0019		1	93	85-115	12/29/2014 1814

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 202 of 202
Level 1 Report v2.1



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43229

Client ARCADUS		Report to Contact Scott Bortice		Telephone No. / E-mail Scott.Bortice@cedi-usa.com		Quote No.	
Address 801 Corporate Center Dr. #506		Sampler's Signature <i>[Signature]</i>		Analysis (Attach list if more space is needed)		Page 1 of 3	
City Releigh	State NC	Zip Code 27603	Project Name HAA-01		Barcode 		PL18008
Project No. 10153001.0001-DE001		P.O. No.		No. of Containers by Preservative Type		Remarks / Cooler I.D.	
Sample ID / Description (Containers for each sample may be combined on one line.)		Date	Time	Matrix	Acid	Alkaline	Other
HAA01HAW02 (12/16/14)	12/16/14	1045	GK				
HAA01HAW13 (12/16/14)		1347	GK				
DZ (12/16/14)		—	GK				
HAA01HAW14 (12/16/14)		1537	GK				
HAA01HAW04 (12/16/14)		1006	GK				
HAA01HAW17 (12/16/14)		1106	GK				
HAA01HAW11 (12/16/14)		1406	GK				
HAA01HAW06 (12/16/14)		1452	GK				
HAA01HAW14D (12/17/14)	12/17/14	1151	GK				
DZ (12/16/14)	12/16/14	—	GK				
Turn Around Time Required (Prior to approval required for expedited TAT.)		Sample Disposal		Possible Hazard Identification		QC Requirements (Specify)	
Standard ☐ Rush ☐ (Specify)		Return to Client ☐ Dispose by Lab ☐		Non-Hazard ☐ Rammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐		Date	
1. Relinquished by <i>[Signature]</i>		Date 12/12/14 Time 1800		1. Received by		Date	
2. Relinquished by <i>[Signature]</i>		Date		2. Received by		Date	
3. Relinquished by		Date		3. Received by		Date	
4. Relinquished by		Date		4. Laboratory received by <i>[Signature]</i>		Date 12-18-14 Time 0930	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		Date		LAB USE ONLY		Receipt Temp. 34.0 °C	
Fedex		Date		No Ice Pack		Document Number: 21161519 Effective Date: 08-01-2014	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43230

Client	ARCADIS	Report to Contact	Scott Boston	Telephone No. / Email	Scott.boston@arcadis-us.com	Quote No.	
Address	801 Corporate Center Dr. #300	Sampler's Signature	<i>[Signature]</i>	Analysis (Attach list if more space is needed)		Page	2 of 3
City	Raleigh	State	NC	Zip Code	27607		
Project Name	HAA-01	Project No.	16153001.0001 - DECO				
Sample ID / Description	(Containers for each sample may be combined on one line.)	Date	Time	No. of Containers by Preservative Type			
				Ascorbic Acid	Starch	Boiling Water	Other
HAA01W140 (12/17/14)		12/17/14	1151	G-X			
HAA01W145 (12/17/14)			1015	G-X			
HAA01HMLW24 (12/17/14)			0942	G-X			
HAA01HMLW23 (12/17/14)			1046	G-X			
HAA01HMLW10 (12/17/14)			1156	G-X			
HAA01SW03 (12/17/14)			1415	G-X			
HAA01SW02 (12/17/14)			1445	G-X			
HAA01SW01 (12/17/14)			1520	G-X			
DZ (12/17/14)			—	G-X			
HAA01SD03 (12/17/14)			1410	G-X			
Turn Around Time Required (Prior lab approval required for expedited TAT.)		Sample Disposal		Return to Client			
Standard		Expedited		Disposal by Lab			
1. Relinquished by		Date	Time	1. Received by		Date	Time
2. Relinquished by		Date	Time	2. Received by		Date	Time
3. Relinquished by		Date	Time	3. Received by		Date	Time
4. Relinquished by	Fedex	Date	Time	4. Laboratory received by	Fedex Kelly	Date	Time
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY		Received on (Circle) Yes No Ice Pack		Receipt Temp. 34.0°C	
						2.1.16, 1.5.1.9	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PMK-Field/Client Copy

Document Number: FAD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 43231

[illegible]

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Cient Copy

Document Number: FAD-133 Effective Date: 09-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Page 1 of 1
Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Arcadis Cooler Inspected by/date: KWP / 12-18-14 Lot #: PL18008

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☒ FedEx ☐ Airborne Exp ☐ Other		
Yes ☒	No ☐	1. Were custody seals present on the cooler?
Yes ☒	No ☐	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>2008/3.5/3.4 °C</u> <u>090/10 °C</u> <u>0.9 °C</u> <u>1495/2.2/2.1 °C</u> <u>1952/1.7/1.6 °C</u> <u>1395/1.6/1.5 °C</u> <u>742/2.0/1.9 °C</u>		
Method: ☐ Temperature Blank ☒ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: <u>-0.1 °C</u>		
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Yes ☐	No ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☒	No ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☒	No ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☒	5a Were samples relinquished by client to commercial courier?
Yes ☒	No ☐	6. Were sample IDs listed on the COC?
Yes ☒	No ☐	7. Were sample IDs listed on all sample containers?
Yes ☒	No ☐	8. Was collection date & time listed on the COC?
Yes ☒	No ☐	9. Was collection date & time listed on all sample containers?
Yes ☒	No ☐	10. Did all container label information (ID, date, time) agree with the COC?
Yes ☒	No ☐	11. Were tests to be performed listed on the COC?
Yes ☒	No ☐	12. Did all samples arrive in the proper containers for each test?
Yes ☒	No ☐	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒	No ☐	14. Was adequate sample volume available?
Yes ☐	No ☒	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☒	No ☐	16. Were any samples containers missing?
Yes ☐	No ☒	17. Were there any excess samples not listed on COC?
Yes ☐	No ☒	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☒	No ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☒	24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H ₂ SO ₄ , HNO ₃ , HCl, NaOH) using SR # _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>KWP</u> Verified by: _____ Date: <u>12-18-14</u>		

Comments:

No vials recieved for PL18008-011

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Rachelle Borne

Project Name: Hunter Stewart HAA-01

Project Number: GP08HAFS

Lot Number: PL19009

Date Completed: 01/12/2015



Nisreen Saikaly
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

*** PL19009 ***

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARCADIS U.S., Inc. Lot Number: PL19009

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Hexavalent Chromium

Samples were received outside the holding time for Hexavalent Chromium analysis.

The MS/MSD recoveries in batch 63847 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Pesticides

The LCS recovery for endrin was outside method control limits in batch 64159. The associated sample (-001, -002 and -003) were re-extracted and re-analyzed outside the holding time. All runs are reported.

Semivolatile Organic Compounds

The surrogate recovery for samples -002 and -005 was outside the acceptance limit. This sample was diluted due to matrix. The dilution impacted the surrogate recoveries, thus negating their usefulness concerning quality control. The sample results are reported and no corrective action is required

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary ARCADIS U.S., Inc. Lot Number: PL19009

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	HAO1SW06(121814)	Aqueous	12/18/2014 0831	12/19/2014
002	HAO1SW05(121814)	Aqueous	12/18/2014 0905	12/19/2014
003	HAO1SW04(121814)	Aqueous	12/18/2014 0945	12/19/2014
004	HAO1SD06(121814)	Solid	12/18/2014 0840	12/19/2014
005	HAO1SD05(121814)	Solid	12/18/2014 0900	12/19/2014
006	HAO1SD04(121814)	Solid	12/18/2014 0930	12/19/2014
007	TRIP BLANK	Aqueous	12/18/2014	12/19/2014

(7 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary

ARCADIS U.S., Inc.

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	HAO1SW06(121814)	Aqueous	Methoxychlor	8081B	0.070	J	ug/L	12
001	HAO1SW06(121814)	Aqueous	Endrin aldehyde	8081B	0.0042	HJP	ug/L	13
001	HAO1SW06(121814)	Aqueous	Methoxychlor	8081B	0.0060	HJ	ug/L	13
001	HAO1SW06(121814)	Aqueous	Arsenic	6020A	0.77	J	ug/L	14
001	HAO1SW06(121814)	Aqueous	Barium	6020A	24		ug/L	14
001	HAO1SW06(121814)	Aqueous	Chromium	6020A	0.54	J	ug/L	14
001	HAO1SW06(121814)	Aqueous	Lead	6020A	1.5		ug/L	14
001	HAO1SW06(121814)	Aqueous	Selenium	6020A	0.25	J	ug/L	14
002	HAO1SW05(121814)	Aqueous	Endrin aldehyde	8081B	0.0028	HJP	ug/L	22
002	HAO1SW05(121814)	Aqueous	Arsenic	6020A	0.95	J	ug/L	23
002	HAO1SW05(121814)	Aqueous	Barium	6020A	26		ug/L	23
002	HAO1SW05(121814)	Aqueous	Chromium	6020A	0.85	J	ug/L	23
002	HAO1SW05(121814)	Aqueous	Lead	6020A	1.5		ug/L	23
002	HAO1SW05(121814)	Aqueous	Selenium	6020A	0.31	J	ug/L	23
003	HAO1SW04(121814)	Aqueous	Xylenes (total)	8260B	0.36	J	ug/L	26
003	HAO1SW04(121814)	Aqueous	gamma-BHC (Lindane)	8081B	0.0015	J	ug/L	30
003	HAO1SW04(121814)	Aqueous	Methoxychlor	8081B	0.0025	JP	ug/L	30
003	HAO1SW04(121814)	Aqueous	delta-BHC	8081B	0.0023	HJP	ug/L	31
003	HAO1SW04(121814)	Aqueous	Endrin aldehyde	8081B	0.0043	HJP	ug/L	31
003	HAO1SW04(121814)	Aqueous	Arsenic	6020A	0.70	J	ug/L	32
003	HAO1SW04(121814)	Aqueous	Barium	6020A	26		ug/L	32
003	HAO1SW04(121814)	Aqueous	Chromium	6020A	0.49	J	ug/L	32
003	HAO1SW04(121814)	Aqueous	Lead	6020A	0.86	J	ug/L	32
004	HAO1SD06(121814)	Solid	Acetone	8260B	42		ug/kg	35
004	HAO1SD06(121814)	Solid	Acenaphthylene	8270D	700		ug/kg	37
004	HAO1SD06(121814)	Solid	Anthracene	8270D	760		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(a)anthracene	8270D	4800		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(a)pyrene	8270D	5600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(b)fluoranthene	8270D	9600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(g,h,i)perylene	8270D	1600		ug/kg	37
004	HAO1SD06(121814)	Solid	Benzo(k)fluoranthene	8270D	4000		ug/kg	37
004	HAO1SD06(121814)	Solid	Carbazole	8270D	300	J	ug/kg	37
004	HAO1SD06(121814)	Solid	Chrysene	8270D	4900		ug/kg	37
004	HAO1SD06(121814)	Solid	Dibenzofuran	8270D	450	J	ug/kg	37
004	HAO1SD06(121814)	Solid	Fluoranthene	8270D	8200		ug/kg	37
004	HAO1SD06(121814)	Solid	Fluorene	8270D	1000		ug/kg	37
004	HAO1SD06(121814)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	1900		ug/kg	38
004	HAO1SD06(121814)	Solid	Phenanthrene	8270D	1100		ug/kg	38
004	HAO1SD06(121814)	Solid	Pyrene	8270D	5700		ug/kg	38
004	HAO1SD06(121814)	Solid	delta-BHC	8081B	2.4	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	4,4'-DDD	8081B	3.6	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	4,4'-DDT	8081B	6.2	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin	8081B	6.8	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin aldehyde	8081B	6.0	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Endrin ketone	8081B	15	JP	ug/kg	39

Executive Summary (Continued)

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	HAO1SD06(121814)	Solid	Methoxychlor	8081B	11	JP	ug/kg	39
004	HAO1SD06(121814)	Solid	Arsenic	6010C	2.9		mg/kg	40
004	HAO1SD06(121814)	Solid	Barium	6010C	18		mg/kg	40
004	HAO1SD06(121814)	Solid	Cadmium	6010C	0.26		mg/kg	40
004	HAO1SD06(121814)	Solid	Chromium	6010C	6.0		mg/kg	40
004	HAO1SD06(121814)	Solid	Lead	6010C	16		mg/kg	40
004	HAO1SD06(121814)	Solid	Mercury	7471B	0.019	J	mg/kg	40
004	HAO1SD06(121814)	Solid	Selenium	6010C	0.54	J	mg/kg	40
005	HAO1SD05(121814)	Solid	Acenaphthene	8270D	1200	J	ug/kg	44
005	HAO1SD05(121814)	Solid	Acenaphthylene	8270D	4400		ug/kg	44
005	HAO1SD05(121814)	Solid	Anthracene	8270D	9700		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(a)anthracene	8270D	39000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(a)pyrene	8270D	35000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(b)fluoranthene	8270D	51000		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(g,h,i)perylene	8270D	8700		ug/kg	44
005	HAO1SD05(121814)	Solid	Benzo(k)fluoranthene	8270D	23000		ug/kg	44
005	HAO1SD05(121814)	Solid	Carbazole	8270D	3800		ug/kg	44
005	HAO1SD05(121814)	Solid	Chrysene	8270D	39000		ug/kg	44
005	HAO1SD05(121814)	Solid	Dibenzofuran	8270D	2000	J	ug/kg	44
005	HAO1SD05(121814)	Solid	Fluoranthene	8270D	94000		ug/kg	44
005	HAO1SD05(121814)	Solid	Fluorene	8270D	4400		ug/kg	44
005	HAO1SD05(121814)	Solid	Indeno(1,2,3-c,d)pyrene	8270D	9600		ug/kg	45
005	HAO1SD05(121814)	Solid	Phenanthrene	8270D	36000		ug/kg	45
005	HAO1SD05(121814)	Solid	Pyrene	8270D	63000		ug/kg	45
005	HAO1SD05(121814)	Solid	alpha-Chlordane	8081B	5.5	J	ug/kg	46
005	HAO1SD05(121814)	Solid	gamma-Chlordane	8081B	3.6	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	4,4'-DDD	8081B	38	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	4,4'-DDT	8081B	13	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Dieldrin	8081B	5.1	J	ug/kg	46
005	HAO1SD05(121814)	Solid	Endosulfan II	8081B	3.9	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endosulfan sulfate	8081B	5.2	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin	8081B	5.9	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin aldehyde	8081B	17	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Endrin ketone	8081B	80		ug/kg	46
005	HAO1SD05(121814)	Solid	Methoxychlor	8081B	110	JP	ug/kg	46
005	HAO1SD05(121814)	Solid	Arsenic	6010C	1.0		mg/kg	47
005	HAO1SD05(121814)	Solid	Barium	6010C	16		mg/kg	47
005	HAO1SD05(121814)	Solid	Cadmium	6010C	0.33		mg/kg	47
005	HAO1SD05(121814)	Solid	Chromium	6010C	9.1		mg/kg	47
005	HAO1SD05(121814)	Solid	Lead	6010C	18		mg/kg	47
006	HAO1SD04(121814)	Solid	Isopropylbenzene	8260B	0.87	J	ug/kg	49
006	HAO1SD04(121814)	Solid	Aldrin	8081B	1.5	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	alpha-Chlordane	8081B	1.3	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	gamma-Chlordane	8081B	1.4	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	4,4'-DDD	8081B	11	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	4,4'-DDT	8081B	12	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Dieldrin	8081B	4.1	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endosulfan I	8081B	1.6	JP	ug/kg	53

Executive Summary (Continued)

Lot Number: PL19009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	HAO1SD04(121814)	Solid	Endosulfan II	8081B	2.8	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endosulfan sulfate	8081B	29	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin	8081B	14	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin aldehyde	8081B	21	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Endrin ketone	8081B	45	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Methoxychlor	8081B	80	JP	ug/kg	53
006	HAO1SD04(121814)	Solid	Arsenic	6010C	0.65	J	mg/kg	54
006	HAO1SD04(121814)	Solid	Barium	6010C	15		mg/kg	54
006	HAO1SD04(121814)	Solid	Cadmium	6010C	0.23		mg/kg	54
006	HAO1SD04(121814)	Solid	Chromium	6010C	3.8		mg/kg	54
006	HAO1SD04(121814)	Solid	Lead	6010C	10		mg/kg	54
006	HAO1SD04(121814)	Solid	Selenium	6010C	0.26	J	mg/kg	54
007	TRIP BLANK	Aqueous	Carbon disulfide	8260B	0.59	J	ug/L	55
007	TRIP BLANK	Aqueous	Toluene	8260B	0.36	J	ug/L	55

(107 detections)

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-001			
Description: HAO1SW06(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0831							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-001			
Description: HAO1SW06(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0831							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1308	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-001
Description: HAO1SW06(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0831	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1846	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1846	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
2-Fluorobiphenyl		54	37-129					
2-Fluorophenol		51	24-127					
Nitrobenzene-d5		47	38-127					
Phenol-d5		50	28-128					
Terphenyl-d14		51	10-148					
2,4,6-Tribromophenol		48	41-144					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 11 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.					Laboratory ID: PL19009-001				
Description: HAO1SW06(121814)					Matrix: Aqueous				
Date Sampled: 12/18/2014 0831									
Date Received: 12/19/2014									

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1300	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1345	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.25	0.017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.25	0.011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.25	0.010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.25	0.039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.25	0.011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.25	0.013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.25	0.015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.25	0.010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.25	0.11	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.25	0.020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.25	0.010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.25	0.022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.25	0.015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.25	0.011	ug/L	1
Endrin	72-20-8	8081B	ND		0.25	0.010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.25	0.019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.25	0.012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.25	0.13	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.25	0.020	ug/L	1
Methoxychlor	72-43-5	8081B	0.070	J	1.0	0.020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		2.5	1.1	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		61	10-122	H	60	10-122		
Tetrachloro-m-xylene		85	46-119	H	67	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-001
Description: HAO1SW06(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0831	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1300	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1345	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0042	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	0.0060	HJ	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		61	10-122	H	60	10-122		
Tetrachloro-m-xylene		85	46-119	H	67	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-001

Description: HAO1SW06(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0831

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0234	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1810	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.77	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	24		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.54	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.5		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.25	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-001
Description: HAO1SW06(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0831	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1834	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2014 1329	DCS		64151

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-002
Description: HAO1SW05(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0905	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	50	01/02/2015 1815	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		50	4.5	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		50	8.0	ug/L	1
Anthracene	120-12-7	8270D	ND		50	6.5	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		50	7.5	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		50	8.0	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		50	10	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		50	12	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		50	6.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		50	6.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		250	85	ug/L	1
Carbazole	86-74-8	8270D	ND		50	13	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		50	11	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		50	6.5	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		50	6.5	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		50	4.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		50	6.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		50	6.5	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		50	5.5	ug/L	1
Chrysene	218-01-9	8270D	ND		50	6.0	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		50	6.5	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		50	8.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		250	41	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		50	7.5	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		250	85	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		250	85	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		50	16	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		250	85	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		250	74	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		250	13	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		100	23	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		100	20	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		250	85	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		250	85	ug/L	1
Fluoranthene	206-44-0	8270D	ND		50	11	ug/L	1
Fluorene	86-73-7	8270D	ND		50	5.0	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		50	11	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		50	4.5	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		250	12	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		50	5.5	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		50	12	ug/L	1
Isophorone	78-59-1	8270D	ND		50	4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		50	4.0	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		50	8.5	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		100	29	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	50	01/02/2015 1815	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		50	3.5	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		100	28	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		100	39	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		100	20	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		50	5.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		100	14	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		250	32	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		50	4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		50	19	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		250	27	ug/L	1
Phenanthrene	85-01-8	8270D	ND		50	9.0	ug/L	1
Phenol	108-95-2	8270D	ND		50	5.5	ug/L	1
Pyrene	129-00-0	8270D	ND		50	8.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		50	9.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		50	11	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		65	37-129
2-Fluorophenol		59	24-127
Nitrobenzene-d5		67	38-127
Phenol-d5	N	157	28-128
Terphenyl-d14		49	10-148
2,4,6-Tribromophenol	N	209	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 20 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-002			
Description: HAO1SW05(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0905							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1315	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1428	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.25	0.017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.25	0.011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.25	0.010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.25	0.039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.25	0.011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.25	0.013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.25	0.015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.25	0.010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.25	0.11	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.25	0.020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.25	0.010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.25	0.022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.25	0.015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.25	0.011	ug/L	1
Endrin	72-20-8	8081B	ND		0.25	0.010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.25	0.019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.25	0.012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.25	0.13	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.25	0.020	ug/L	1
Methoxychlor	72-43-5	8081B	ND		1.0	0.020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		2.5	1.1	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		73	10-122	H	61	10-122		
Tetrachloro-m-xylene		83	46-119	H	65	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-002
Description: HAO1SW05(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0905	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	10	12/29/2014 1315	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/06/2015 1428	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0028	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		73	10-122	H	61	10-122		
Tetrachloro-m-xylene		83	46-119	H	65	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-002

Description: HAO1SW05(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0905

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0240	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1816	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.95	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	26		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.85	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	1.5		1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	0.31	J	1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 23 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-002
Description: HAO1SW05(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0905	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1836	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Hexavalent C) 7196A	1	12/19/2014 1315	BLB		63536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND	H	0.020	0.0081	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-003			
Description: HAO1SW04(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0945							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	12/29/2014 1351	DCS		64151		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.36	J	1.0	0.33	ug/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1909	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1.0	0.090	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		1.0	0.16	ug/L	1
Anthracene	120-12-7	8270D	ND		1.0	0.13	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		1.0	0.15	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		1.0	0.16	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1.0	0.20	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1.0	0.23	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1.0	0.12	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1.0	0.12	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		5.0	1.7	ug/L	1
Carbazole	86-74-8	8270D	ND		1.0	0.25	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1.0	0.22	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1.0	0.13	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		1.0	0.080	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		1.0	0.12	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		1.0	0.13	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1.0	0.11	ug/L	1
Chrysene	218-01-9	8270D	ND		1.0	0.12	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1.0	0.13	ug/L	1
Dibenzofuran	132-64-9	8270D	ND		1.0	0.16	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5.0	0.81	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1.0	0.15	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		5.0	1.7	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1.0	0.31	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		5.0	1.7	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5.0	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5.0	0.25	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2.0	0.45	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2.0	0.40	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		5.0	1.7	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270D	ND		1.0	0.21	ug/L	1
Fluorene	86-73-7	8270D	ND		1.0	0.10	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		1.0	0.21	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		1.0	0.090	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5.0	0.23	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		1.0	0.11	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1.0	0.23	ug/L	1
Isophorone	78-59-1	8270D	ND		1.0	0.080	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		1.0	0.080	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		1.0	0.17	ug/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		2.0	0.57	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	12/31/2014 1909	DRB1	12/24/2014 0938	63919

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Naphthalene	91-20-3	8270D	ND		1.0	0.070	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		2.0	0.55	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		2.0	0.77	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		2.0	0.39	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		1.0	0.10	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		2.0	0.27	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		5.0	0.64	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1.0	0.080	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1.0	0.38	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		5.0	0.54	ug/L	1
Phenanthrene	85-01-8	8270D	ND		1.0	0.18	ug/L	1
Phenol	108-95-2	8270D	ND		1.0	0.11	ug/L	1
Pyrene	129-00-0	8270D	ND		1.0	0.16	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1.0	0.18	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1.0	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		60	37-129
2-Fluorophenol		57	24-127
Nitrobenzene-d5		53	38-127
Phenol-d5		55	28-128
Terphenyl-d14		51	10-148
2,4,6-Tribromophenol		55	41-144

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-003			
Description: HAO1SW04(121814)				Matrix: Aqueous			
Date Sampled: 12/18/2014 0945							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/29/2014 1329	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/05/2015 2324	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	0.0017	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.0015	J	0.025	0.0011	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	0.0010	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	0.0039	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	0.0011	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	0.0013	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	0.0015	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	0.0010	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	0.011	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	0.0020	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	0.0010	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	0.0022	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	0.0015	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	0.0011	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	0.0010	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	0.0019	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	0.0012	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	0.013	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	0.0020	ug/L	1
Methoxychlor	72-43-5	8081B	0.0025	JP	0.10	0.0020	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	0.11	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		59	10-122	H	54	10-122		
Tetrachloro-m-xylene		79	46-119	H	60	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	12/29/2014 1329	MEM	12/24/2014 1857	63984
2	3520C	8081B	1	01/05/2015 2324	MEM	12/30/2014 1824	64252

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.025	0.0017	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.025	0.0011	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.025	0.0010	ug/L	2
beta-BHC	319-85-7	8081B	ND	H	0.025	0.0039	ug/L	2
delta-BHC	319-86-8	8081B	0.0023	HJP	0.025	0.0011	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.025	0.0013	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.025	0.0015	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.025	0.0010	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.025	0.011	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.025	0.0020	ug/L	2
Dieldrin	60-57-1	8081B	ND	H	0.025	0.0010	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.025	0.0022	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.025	0.0015	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.025	0.0011	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.025	0.0010	ug/L	2
Endrin aldehyde	7421-93-4	8081B	0.0043	HJP	0.025	0.0019	ug/L	2
Endrin ketone	53494-70-5	8081B	ND	H	0.025	0.0012	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.025	0.013	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.025	0.0020	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	0.0020	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.25	0.11	ug/L	2
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
Decachlorobiphenyl		59	10-122	H	54	10-122		
Tetrachloro-m-xylene		79	46-119	H	60	46-119		

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-003

Description: HAO1SW04(121814)

Matrix: Aqueous

Date Sampled: 12/18/2014 0945

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/09/2015 0245	BNW	01/08/2015 1415	64841
2	3005A	6020A	1	01/09/2015 1821	CDF	01/08/2015 1415	64841

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6020A	0.70	J	1.0	0.26	ug/L	1
Barium	7440-39-3	6020A	26		5.0	0.045	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.10	0.059	ug/L	1
Chromium	7440-47-3	6020A	0.49	J	5.0	0.35	ug/L	1
Lead	7439-92-1	6020A	0.86	J	1.0	0.047	ug/L	1
Selenium	7782-49-2	6020A	ND		1.0	0.25	ug/L	1
Silver	7440-22-4	6020A	ND		1.0	0.011	ug/L	2

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 32 of 99

Level 1 Report v2.1

CVAA

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-003
Description: HAO1SW04(121814)	Matrix: Aqueous
Date Sampled: 12/18/2014 0945	
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/29/2014 1838	HKB	12/29/2014 1445	64180

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-004			
Description: HAO1SD06(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0840				% Solids: 53.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.9	0.47	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-004			
Description: HAO1SD06(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0840				% Solids: 53.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1648	DCS		63634	4.94

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	42		38	13	ug/kg	1
Benzene	71-43-2	8260B	ND		9.4	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		9.4	3.2	ug/kg	1
Bromoform	75-25-2	8260B	ND		9.4	1.3	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		9.4	3.4	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		19	4.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		9.4	2.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		9.4	3.4	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		9.4	3.2	ug/kg	1
Chloroethane	75-00-3	8260B	ND		9.4	2.5	ug/kg	1
Chloroform	67-66-3	8260B	ND		9.4	1.6	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		9.4	1.9	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		9.4	1.3	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		9.4	2.8	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		9.4	3.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		9.4	1.6	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		9.4	3.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		9.4	3.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		9.4	3.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		9.4	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		9.4	1.4	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		9.4	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		9.4	3.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		9.4	1.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		9.4	2.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		9.4	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		9.4	1.3	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		9.4	1.5	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		9.4	3.2	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		19	2.5	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		9.4	0.43	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		9.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		9.4	0.75	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		19	2.8	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		9.4	0.77	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		9.4	4.9	ug/kg	1
Styrene	100-42-5	8260B	ND		9.4	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		9.4	0.89	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		9.4	0.94	ug/kg	1
Toluene	108-88-3	8260B	ND		9.4	3.2	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		9.4	1.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		9.4	3.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		9.4	1.6	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		9.4	1.5	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-004
Description: HAO1SD06(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0840	% Solids: 53.7 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1648	DCS		63634	4.94

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		9.4	3.6	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		9.4	2.8	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		9.4	1.6	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		9.4	5.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	53-142
Bromofluorobenzene		94	47-138
Toluene-d8		92	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1727	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		610	200	ug/kg	1	
Acenaphthylene	208-96-8	8270D	700		610	190	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		610	330	ug/kg	1	
Anthracene	120-12-7	8270D	760		610	140	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		610	310	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		610	310	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	4800		610	160	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	5600		610	170	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	9600		610	180	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	1600		610	210	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	4000		610	180	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		610	180	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		610	180	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		1200	410	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		610	310	ug/kg	1	
Carbazole	86-74-8	8270D	300	J	610	260	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		610	160	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		610	120	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		610	190	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		610	170	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		610	200	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		610	200	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		610	170	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		610	210	ug/kg	1	
Chrysene	218-01-9	8270D	4900		610	200	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		610	170	ug/kg	1	
Dibenzofuran	132-64-9	8270D	450	J	610	190	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		3100	670	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		610	190	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		610	200	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		610	200	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		610	230	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		610	320	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		3100	2400	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		3100	2100	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		1200	340	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		1200	320	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		610	590	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		610	220	ug/kg	1	
Fluoranthene	206-44-0	8270D	8200		610	190	ug/kg	1	
Fluorene	86-73-7	8270D	1000		610	170	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		610	270	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		610	200	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		3100	450	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	2	01/02/2015 1727	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Hexachloroethane	67-72-1	8270D	ND		610	160	ug/kg	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	1900		610	180	ug/kg	1	
Isophorone	78-59-1	8270D	ND		610	140	ug/kg	1	
2-Methylnaphthalene	91-57-6	8270D	ND		610	180	ug/kg	1	
2-Methylphenol	95-48-7	8270D	ND		610	110	ug/kg	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		1200	220	ug/kg	1	
Naphthalene	91-20-3	8270D	ND		610	190	ug/kg	1	
2-Nitroaniline	88-74-4	8270D	ND		1200	420	ug/kg	1	
3-Nitroaniline	99-09-2	8270D	ND		1200	710	ug/kg	1	
4-Nitroaniline	100-01-6	8270D	ND		1200	350	ug/kg	1	
Nitrobenzene	98-95-3	8270D	ND		610	99	ug/kg	1	
2-Nitrophenol	88-75-5	8270D	ND		1200	340	ug/kg	1	
4-Nitrophenol	100-02-7	8270D	ND		3100	1800	ug/kg	1	
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		610	240	ug/kg	1	
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		610	150	ug/kg	1	
Pentachlorophenol	87-86-5	8270D	ND		3100	2500	ug/kg	1	
Phenanthrene	85-01-8	8270D	1100		610	170	ug/kg	1	
Phenol	108-95-2	8270D	ND		610	170	ug/kg	1	
Pyrene	129-00-0	8270D	5700		610	240	ug/kg	1	
2,4,5-Trichlorophenol	95-95-4	8270D	ND		610	170	ug/kg	1	
2,4,6-Trichlorophenol	88-06-2	8270D	ND		610	180	ug/kg	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
2-Fluorobiphenyl		69	33-102						
2-Fluorophenol		61	28-104						
Nitrobenzene-d5		63	22-109						
Phenol-d5		74	27-103						
Terphenyl-d14		84	41-120						
2,4,6-Tribromophenol		86	30-117						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 38 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-004
Description: HAO1SD06(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0840	% Solids: 53.7 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1126	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		63	1.6	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		63	1.7	ug/kg	1
beta-BHC	319-85-7	8081B	ND		63	1.3	ug/kg	1
delta-BHC	319-86-8	8081B	2.4	JP	63	0.78	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		63	2.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		63	1.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		63	0.93	ug/kg	1
4,4'-DDD	72-54-8	8081B	3.6	JP	63	1.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		63	12	ug/kg	1
4,4'-DDT	50-29-3	8081B	6.2	JP	63	2.6	ug/kg	1
Dieldrin	60-57-1	8081B	ND		63	1.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		63	1.5	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		63	1.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		63	1.4	ug/kg	1
Endrin	72-20-8	8081B	6.8	JP	63	0.81	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	6.0	JP	63	1.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	15	JP	63	1.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		63	2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		63	1.3	ug/kg	1
Methoxychlor	72-43-5	8081B	11	JP	250	2.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		3100	63	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl		100	57-110					
Tetrachloro-m-xylene		54	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-004

Description: HAO1SD06(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0840

% Solids: 53.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1250	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1614	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	2.9		0.91	0.34	mg/kg	1
Barium	7440-39-3	6010C	18		2.4	0.16	mg/kg	1
Cadmium	7440-43-9	6010C	0.26		0.18	0.019	mg/kg	1
Chromium	7440-47-3	6010C	6.0		0.45	0.092	mg/kg	1
Lead	7439-92-1	6010C	16		0.91	0.17	mg/kg	1
Mercury	7439-97-6	7471B	0.019	J	0.15	0.011	mg/kg	1
Selenium	7782-49-2	6010C	0.54	J	0.91	0.31	mg/kg	1
Silver	7440-22-4	6010C	ND		0.45	0.076	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 40 of 99

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.5	0.37	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1709	DCS		63634	5.53

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		27	9.0	ug/kg	1
Benzene	71-43-2	8260B	ND		6.7	1.5	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.7	2.3	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.7	0.94	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.7	2.4	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		13	3.2	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.7	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.7	2.4	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.7	2.3	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.7	1.7	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.7	1.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.7	1.3	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.7	0.90	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.7	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.7	2.3	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.7	1.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.7	2.3	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.7	2.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.7	2.3	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.7	2.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.7	0.98	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.7	1.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.7	2.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.7	1.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.7	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.7	1.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.7	0.91	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.7	1.1	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.7	2.3	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		13	1.7	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		6.7	0.31	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.7	1.3	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.7	0.53	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		13	2.0	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.7	0.55	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.7	3.5	ug/kg	1
Styrene	100-42-5	8260B	ND		6.7	1.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.7	0.63	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.7	0.67	ug/kg	1
Toluene	108-88-3	8260B	ND		6.7	2.3	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.7	0.84	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.7	2.3	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.7	1.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.7	1.1	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-005			
Description: HAO1SD05(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0900				% Solids: 67.7 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/21/2014 1709	DCS		63634	5.53

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.7	2.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.7	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.7	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.7	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		93	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	10	01/02/2015 1751	DRB1	12/29/2014 2057	64207		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	1200	J	2400	780	ug/kg	1
Acenaphthylene	208-96-8	8270D	4400		2400	760	ug/kg	1
Acetophenone	98-86-2	8270D	ND		2400	1300	ug/kg	1
Anthracene	120-12-7	8270D	9700		2400	540	ug/kg	1
Atrazine	1912-24-9	8270D	ND		2400	1200	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		2400	1200	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	39000		2400	650	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	35000		2400	680	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	51000		2400	700	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	8700		2400	850	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	23000		2400	700	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		2400	730	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		2400	720	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4900	1600	ug/kg	1
Caprolactam	105-60-2	8270D	ND		2400	1200	ug/kg	1
Carbazole	86-74-8	8270D	3800		2400	1000	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		2400	620	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		2400	500	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		2400	740	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		2400	680	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		2400	810	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		2400	810	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		2400	680	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		2400	840	ug/kg	1
Chrysene	218-01-9	8270D	39000		2400	810	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		2400	670	ug/kg	1
Dibenzofuran	132-64-9	8270D	2000	J	2400	770	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		12000	2700	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		2400	760	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		2400	810	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		2400	810	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		2400	920	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		2400	1300	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		12000	9500	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		12000	8300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		4900	1300	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		4900	1300	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		2400	2300	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		2400	860	ug/kg	1
Fluoranthene	206-44-0	8270D	94000		2400	770	ug/kg	1
Fluorene	86-73-7	8270D	4400		2400	660	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		2400	1100	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		2400	800	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		12000	1800	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 44 of 99

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	10	01/02/2015 1751	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Hexachloroethane	67-72-1	8270D	ND		2400	650	ug/kg	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	9600		2400	710	ug/kg	1	
Isophorone	78-59-1	8270D	ND		2400	540	ug/kg	1	
2-Methylnaphthalene	91-57-6	8270D	ND		2400	730	ug/kg	1	
2-Methylphenol	95-48-7	8270D	ND		2400	440	ug/kg	1	
3 & 4-Methylphenol	106-44-5	8270D	ND		4900	870	ug/kg	1	
Naphthalene	91-20-3	8270D	ND		2400	750	ug/kg	1	
2-Nitroaniline	88-74-4	8270D	ND		4900	1700	ug/kg	1	
3-Nitroaniline	99-09-2	8270D	ND		4900	2800	ug/kg	1	
4-Nitroaniline	100-01-6	8270D	ND		4900	1400	ug/kg	1	
Nitrobenzene	98-95-3	8270D	ND		2400	390	ug/kg	1	
2-Nitrophenol	88-75-5	8270D	ND		4900	1300	ug/kg	1	
4-Nitrophenol	100-02-7	8270D	ND		12000	7100	ug/kg	1	
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		2400	940	ug/kg	1	
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		2400	610	ug/kg	1	
Pentachlorophenol	87-86-5	8270D	ND		12000	10000	ug/kg	1	
Phenanthrene	85-01-8	8270D	36000		2400	660	ug/kg	1	
Phenol	108-95-2	8270D	ND		2400	660	ug/kg	1	
Pyrene	129-00-0	8270D	63000		2400	970	ug/kg	1	
2,4,5-Trichlorophenol	95-95-4	8270D	ND		2400	680	ug/kg	1	
2,4,6-Trichlorophenol	88-06-2	8270D	ND		2400	720	ug/kg	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
2-Fluorobiphenyl		79	33-102						
2-Fluorophenol		62	28-104						
Nitrobenzene-d5		71	22-109						
Phenol-d5		70	27-103						
Terphenyl-d14		93	41-120						
2,4,6-Tribromophenol	N	211	30-117						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-005
Description: HAO1SD05(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0900	% Solids: 67.7 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1151	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	ND		49	1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		49	1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		49	1.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		49	0.60	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		49	2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	5.5	J	49	0.81	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	3.6	JP	49	0.72	ug/kg	1
4,4'-DDD	72-54-8	8081B	38	JP	49	1.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		49	9.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	13	JP	49	2.0	ug/kg	1
Dieldrin	60-57-1	8081B	5.1	J	49	0.81	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		49	1.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	3.9	JP	49	0.92	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	5.2	JP	49	1.1	ug/kg	1
Endrin	72-20-8	8081B	5.9	JP	49	0.63	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	17	JP	49	1.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	80		49	1.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		49	1.6	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		49	1.0	ug/kg	1
Methoxychlor	72-43-5	8081B	110	JP	190	1.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2400	49	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	181	57-110					
Tetrachloro-m-xylene		63	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-005

Description: HAO1SD05(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0900

% Solids: 67.7 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1252	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1631	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	1.0		0.71	0.27	mg/kg	1
Barium	7440-39-3	6010C	16		1.8	0.13	mg/kg	1
Cadmium	7440-43-9	6010C	0.33		0.14	0.015	mg/kg	1
Chromium	7440-47-3	6010C	9.1		0.35	0.072	mg/kg	1
Lead	7439-92-1	6010C	18		0.71	0.13	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.11	0.0080	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.71	0.25	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.059	mg/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 47 of 99

Level 1 Report v2.1

Inorganic non-metals

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-006			
Description: HAO1SD04(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0930				% Solids: 67.9 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	3060A	(Hexavalent C) 7196A	1	12/24/2014 1100	BLB	12/23/2014 1610	63847				

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexavalent Chromium	18540-29-9	7196A	ND		1.5	0.37	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-006			
Description: HAO1SD04(121814)				Matrix: Solid			
Date Sampled: 12/18/2014 0930				% Solids: 67.9 12/19/2014 2009			
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/24/2014 1432	DCS		63946	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		25	8.3	ug/kg	1
Benzene	71-43-2	8260B	ND		6.2	1.4	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		6.2	2.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		6.2	0.87	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		6.2	2.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		12	3.0	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		6.2	1.6	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		6.2	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		6.2	2.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		6.2	1.6	ug/kg	1
Chloroform	67-66-3	8260B	ND		6.2	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		6.2	1.2	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		6.2	0.84	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		6.2	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		6.2	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		6.2	1.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		6.2	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		6.2	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		6.2	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		6.2	2.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		6.2	0.91	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		6.2	1.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		6.2	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		6.2	0.95	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		6.2	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		6.2	1.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		6.2	0.85	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		6.2	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.2	2.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		12	1.6	ug/kg	1
Isopropylbenzene	98-82-8	8260B	0.87	J	6.2	0.29	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		6.2	1.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.2	0.50	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		12	1.9	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		6.2	0.51	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		6.2	3.2	ug/kg	1
Styrene	100-42-5	8260B	ND		6.2	1.4	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		6.2	0.59	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		6.2	0.62	ug/kg	1
Toluene	108-88-3	8260B	ND		6.2	2.1	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		6.2	0.78	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		6.2	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		6.2	1.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		6.2	0.98	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	12/24/2014 1432	DCS		63946	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		6.2	2.4	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		6.2	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		6.2	1.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.2	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		88	68-124

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-006

Description: HAO1SD04(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0930

% Solids: 67.9 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550C	8270D	1	12/30/2014 1533	DRB1	12/29/2014 2057	64207		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acenaphthene	83-32-9	8270D	ND		49	16	ug/kg	1	
Acenaphthylene	208-96-8	8270D	ND		49	15	ug/kg	1	
Acetophenone	98-86-2	8270D	ND		49	26	ug/kg	1	
Anthracene	120-12-7	8270D	ND		49	11	ug/kg	1	
Atrazine	1912-24-9	8270D	ND		49	25	ug/kg	1	
Benzaldehyde	100-52-7	8270D	ND		49	25	ug/kg	1	
Benzo(a)anthracene	56-55-3	8270D	ND		49	13	ug/kg	1	
Benzo(a)pyrene	50-32-8	8270D	ND		49	14	ug/kg	1	
Benzo(b)fluoranthene	205-99-2	8270D	ND		49	14	ug/kg	1	
Benzo(g,h,i)perylene	191-24-2	8270D	ND		49	17	ug/kg	1	
Benzo(k)fluoranthene	207-08-9	8270D	ND		49	14	ug/kg	1	
1,1'-Biphenyl	92-52-4	8270D	ND		49	15	ug/kg	1	
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		49	14	ug/kg	1	
Butyl benzyl phthalate	85-68-7	8270D	ND		99	32	ug/kg	1	
Caprolactam	105-60-2	8270D	ND		49	25	ug/kg	1	
Carbazole	86-74-8	8270D	ND		49	21	ug/kg	1	
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		49	12	ug/kg	1	
4-Chloroaniline	106-47-8	8270D	ND		49	10	ug/kg	1	
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		49	15	ug/kg	1	
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		49	14	ug/kg	1	
bis(2-Chloroisopropyl)ether	108-60-1	8270D	ND		49	16	ug/kg	1	
2-Chloronaphthalene	91-58-7	8270D	ND		49	16	ug/kg	1	
2-Chlorophenol	95-57-8	8270D	ND		49	14	ug/kg	1	
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		49	17	ug/kg	1	
Chrysene	218-01-9	8270D	ND		49	16	ug/kg	1	
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		49	13	ug/kg	1	
Dibenzofuran	132-64-9	8270D	ND		49	15	ug/kg	1	
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		250	53	ug/kg	1	
2,4-Dichlorophenol	120-83-2	8270D	ND		49	15	ug/kg	1	
Diethylphthalate	84-66-2	8270D	ND		49	16	ug/kg	1	
Dimethyl phthalate	131-11-3	8270D	ND		49	16	ug/kg	1	
2,4-Dimethylphenol	105-67-9	8270D	ND		49	18	ug/kg	1	
Di-n-butyl phthalate	84-74-2	8270D	ND		49	26	ug/kg	1	
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		250	190	ug/kg	1	
2,4-Dinitrophenol	51-28-5	8270D	ND		250	170	ug/kg	1	
2,4-Dinitrotoluene	121-14-2	8270D	ND		99	27	ug/kg	1	
2,6-Dinitrotoluene	606-20-2	8270D	ND		99	25	ug/kg	1	
Di-n-octylphthalate	117-84-0	8270D	ND		49	47	ug/kg	1	
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		49	17	ug/kg	1	
Fluoranthene	206-44-0	8270D	ND		49	16	ug/kg	1	
Fluorene	86-73-7	8270D	ND		49	13	ug/kg	1	
Hexachlorobenzene	118-74-1	8270D	ND		49	22	ug/kg	1	
Hexachlorobutadiene	87-68-3	8270D	ND		49	16	ug/kg	1	
Hexachlorocyclopentadiene	77-47-4	8270D	ND		250	36	ug/kg	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-006

Description: HAO1SD04(121814)

Matrix: Solid

Date Sampled: 12/18/2014 0930

% Solids: 67.9 12/19/2014 2009

Date Received: 12/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	12/30/2014 1533	DRB1	12/29/2014 2057	64207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		49	13	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		49	14	ug/kg	1
Isophorone	78-59-1	8270D	ND		49	11	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		49	15	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		49	8.9	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270D	ND		99	18	ug/kg	1
Naphthalene	91-20-3	8270D	ND		49	15	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		99	34	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		99	57	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		99	28	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		49	7.9	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		99	27	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		250	140	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		49	19	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		49	12	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		250	200	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		49	13	ug/kg	1
Phenol	108-95-2	8270D	ND		49	13	ug/kg	1
Pyrene	129-00-0	8270D	ND		49	19	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		49	14	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		49	14	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		43	33-102
2-Fluorophenol		46	28-104
Nitrobenzene-d5		40	22-109
Phenol-d5		47	27-103
Terphenyl-d14		55	41-120
2,4,6-Tribromophenol		46	30-117

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 52 of 99

Level 1 Report v2.1

Organochlorine Pesticides by GC

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	01/07/2015 1206	MEM	12/29/2014 0930	64120

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081B	1.5	JP	48	1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		48	1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		48	1.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		48	0.59	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		48	2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	1.3	JP	48	0.79	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	1.4	JP	48	0.70	ug/kg	1
4,4'-DDD	72-54-8	8081B	11	JP	48	1.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		48	9.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	12	JP	48	2.0	ug/kg	1
Dieldrin	60-57-1	8081B	4.1	JP	48	0.79	ug/kg	1
Endosulfan I	959-98-8	8081B	1.6	JP	48	1.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	2.8	JP	48	0.90	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	29	JP	48	1.0	ug/kg	1
Endrin	72-20-8	8081B	14	JP	48	0.62	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	21	JP	48	1.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	45	JP	48	1.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		48	1.6	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		48	1.0	ug/kg	1
Methoxychlor	72-43-5	8081B	80	JP	190	1.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2300	48	ug/kg	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
Decachlorobiphenyl	N	257	57-110					
Tetrachloro-m-xylene		62	37-91					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: ARCADIS U.S., Inc.	Laboratory ID: PL19009-006
Description: HAO1SD04(121814)	Matrix: Solid
Date Sampled: 12/18/2014 0930	% Solids: 67.9 12/19/2014 2009
Date Received: 12/19/2014	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	12/31/2014 1258	COH	12/30/2014 1244	64167
1	3050B	6010C	1	01/02/2015 1635	ECS	12/29/2014 1651	63996

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.65	J	0.71	0.27	mg/kg	1
Barium	7440-39-3	6010C	15		1.8	0.13	mg/kg	1
Cadmium	7440-43-9	6010C	0.23		0.14	0.015	mg/kg	1
Chromium	7440-47-3	6010C	3.8		0.35	0.072	mg/kg	1
Lead	7439-92-1	6010C	10		0.71	0.13	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.12	0.0086	mg/kg	1
Selenium	7782-49-2	6010C	0.26	J	0.71	0.25	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.060	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.				Laboratory ID: PL19009-007			
Description: TRIP BLANK				Matrix: Aqueous			
Date Sampled: 12/18/2014							
Date Received: 12/19/2014							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	12/29/2014 1120	DCS		64151		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	0.59	J	1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND		2.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1	
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	0.36	J	1.0	0.33	ug/L	1	
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1.0	0.51	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1	
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: ARCADIS U.S., Inc.

Laboratory ID: PL19009-007

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 12/18/2014

Date Received: 12/19/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 56 of 99

Level 1 Report v2.1

QC Summary

Inorganic non-metals - MB

Sample ID: PQ63536-001

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Hexavalent Chromium	ND		1	0.020	0.0081	mg/L	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: PQ63536-002

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	0.10	0.098		1	98	90-110	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 59 of 99
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL19009-001MS

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.093		1	93	75-125	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: PL19009-001MD

Matrix: Aqueous

Batch: 63536

Analytical Method: 7196A

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	0.10	0.091		1	91	1.9	75-125	20	12/19/2014 1315

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 61 of 99
Level 1 Report v2.1

Inorganic non-metals - MS

Sample ID: PL19009-004MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	7.5	ND	N	1	0.00	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 62 of 99
Level 1 Report v2.1

Inorganic non-metals - MSD

Sample ID: PL19009-004MD

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexavalent Chromium	ND	7.5	ND	N	1	0.00	0.00	75-125	20	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL19009-005MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	5.9	2.3	N	1	39	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: PL19009-006MS

Matrix: Solid

Batch: 63847

Prep Method: 3060A

Analytical Method: 7196A

Prep Date: 12/23/2014 1610

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexavalent Chromium	ND	5.9	400	N	50	6740	75-125	12/24/2014 1100

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/21/2014 1335
Benzene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Bromoform	ND		1	5.0	0.70	ug/kg	12/21/2014 1335
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/21/2014 1335
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/21/2014 1335
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Chloroethane	ND		1	5.0	1.3	ug/kg	12/21/2014 1335
Chloroform	ND		1	5.0	0.83	ug/kg	12/21/2014 1335
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/21/2014 1335
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/21/2014 1335
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/21/2014 1335
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/21/2014 1335
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/21/2014 1335
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/21/2014 1335
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/21/2014 1335
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/21/2014 1335
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
2-Hexanone	2.0	J	1	10	1.3	ug/kg	12/21/2014 1335
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/21/2014 1335
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/21/2014 1335
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/21/2014 1335
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/21/2014 1335
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/21/2014 1335
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/21/2014 1335
Styrene	ND		1	5.0	1.1	ug/kg	12/21/2014 1335
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/21/2014 1335
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/21/2014 1335
Toluene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/21/2014 1335
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/21/2014 1335
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/21/2014 1335
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/21/2014 1335

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63634-001

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/21/2014 1335
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/21/2014 1335
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/21/2014 1335
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/21/2014 1335
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		96	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	126	60-140	12/21/2014 1239
Benzene	50	47		1	95	69-123	12/21/2014 1239
Bromodichloromethane	50	47		1	95	69-121	12/21/2014 1239
Bromoform	50	48		1	96	61-119	12/21/2014 1239
Bromomethane (Methyl bromide)	50	53		1	106	10-168	12/21/2014 1239
2-Butanone (MEK)	100	110		1	106	57-148	12/21/2014 1239
Carbon disulfide	50	49		1	97	58-122	12/21/2014 1239
Carbon tetrachloride	50	48		1	95	58-136	12/21/2014 1239
Chlorobenzene	50	46		1	92	59-129	12/21/2014 1239
Chloroethane	50	53		1	106	42-163	12/21/2014 1239
Chloroform	50	49		1	98	71-125	12/21/2014 1239
Chloromethane (Methyl chloride)	50	55		1	109	34-134	12/21/2014 1239
Cyclohexane	50	46		1	91	53-139	12/21/2014 1239
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	55-125	12/21/2014 1239
Dibromochloromethane	50	47		1	94	66-119	12/21/2014 1239
1,2-Dibromoethane (EDB)	50	47		1	93	74-124	12/21/2014 1239
1,4-Dichlorobenzene	50	46		1	92	52-133	12/21/2014 1239
1,2-Dichlorobenzene	50	46		1	92	57-131	12/21/2014 1239
1,3-Dichlorobenzene	50	47		1	93	51-134	12/21/2014 1239
Dichlorodifluoromethane	50	59		1	117	10-157	12/21/2014 1239
1,2-Dichloroethane	50	48		1	96	67-129	12/21/2014 1239
1,1-Dichloroethane	50	49		1	99	71-127	12/21/2014 1239
1,1-Dichloroethene	50	50		1	100	69-138	12/21/2014 1239
trans-1,2-Dichloroethene	50	50		1	100	68-131	12/21/2014 1239
cis-1,2-Dichloroethene	50	50		1	100	70-122	12/21/2014 1239
1,2-Dichloropropane	50	47		1	95	72-124	12/21/2014 1239
trans-1,3-Dichloropropene	50	47		1	94	70-124	12/21/2014 1239
cis-1,3-Dichloropropene	50	47		1	93	70-126	12/21/2014 1239
Ethylbenzene	50	46		1	92	59-128	12/21/2014 1239
2-Hexanone	100	100		1	103	54-137	12/21/2014 1239
Isopropylbenzene	50	46		1	92	50-136	12/21/2014 1239
Methyl acetate	50	56		1	113	59-137	12/21/2014 1239
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	12/21/2014 1239
4-Methyl-2-pentanone	100	100		1	102	60-134	12/21/2014 1239
Methylcyclohexane	50	49		1	98	41-144	12/21/2014 1239
Methylene chloride	50	50		1	99	70-130	12/21/2014 1239
Styrene	50	49		1	99	54-136	12/21/2014 1239
1,1,2,2-Tetrachloroethane	50	47		1	94	69-132	12/21/2014 1239
Tetrachloroethene	50	47		1	94	45-150	12/21/2014 1239
Toluene	50	46		1	92	61-129	12/21/2014 1239
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	49-136	12/21/2014 1239
1,2,4-Trichlorobenzene	50	43		1	87	34-145	12/21/2014 1239
1,1,1-Trichloroethane	50	48		1	96	63-128	12/21/2014 1239
1,1,2-Trichloroethane	50	47		1	94	55-128	12/21/2014 1239

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63634-002

Matrix: Solid

Batch: 63634

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	94	62-126	12/21/2014 1239
Trichlorofluoromethane	50	52		1	104	45-138	12/21/2014 1239
Vinyl chloride	50	53		1	106	42-132	12/21/2014 1239
Xylenes (total)	100	96		1	96	58-128	12/21/2014 1239
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		107	47-138				
1,2-Dichloroethane-d4		105	53-142				
Toluene-d8		110	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63946-001

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/kg	12/24/2014 1106
Benzene	ND		1	5.0	1.1	ug/kg	12/24/2014 1106
Bromodichloromethane	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Bromoform	ND		1	5.0	0.70	ug/kg	12/24/2014 1106
Bromomethane (Methyl bromide)	ND		1	5.0	1.8	ug/kg	12/24/2014 1106
2-Butanone (MEK)	ND		1	10	2.4	ug/kg	12/24/2014 1106
Carbon disulfide	ND		1	5.0	1.3	ug/kg	12/24/2014 1106
Carbon tetrachloride	ND		1	5.0	1.8	ug/kg	12/24/2014 1106
Chlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Chloroethane	ND		1	5.0	1.3	ug/kg	12/24/2014 1106
Chloroform	ND		1	5.0	0.83	ug/kg	12/24/2014 1106
Chloromethane (Methyl chloride)	ND		1	5.0	1.0	ug/kg	12/24/2014 1106
Cyclohexane	ND		1	5.0	0.67	ug/kg	12/24/2014 1106
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
Dibromochloromethane	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,2-Dibromoethane (EDB)	ND		1	5.0	0.85	ug/kg	12/24/2014 1106
1,3-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,2-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,4-Dichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
Dichlorodifluoromethane	ND		1	5.0	1.6	ug/kg	12/24/2014 1106
1,1-Dichloroethane	ND		1	5.0	0.73	ug/kg	12/24/2014 1106
1,2-Dichloroethane	ND		1	5.0	1.0	ug/kg	12/24/2014 1106
1,1-Dichloroethene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
cis-1,2-Dichloroethene	ND		1	5.0	0.76	ug/kg	12/24/2014 1106
trans-1,2-Dichloroethene	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
1,2-Dichloropropane	ND		1	5.0	0.91	ug/kg	12/24/2014 1106
cis-1,3-Dichloropropene	ND		1	5.0	0.68	ug/kg	12/24/2014 1106
trans-1,3-Dichloropropene	ND		1	5.0	0.82	ug/kg	12/24/2014 1106
Ethylbenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
2-Hexanone	1.6	J	1	10	1.3	ug/kg	12/24/2014 1106
Isopropylbenzene	ND		1	5.0	0.23	ug/kg	12/24/2014 1106
Methyl acetate	ND		1	5.0	0.98	ug/kg	12/24/2014 1106
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	12/24/2014 1106
4-Methyl-2-pentanone	ND		1	10	1.5	ug/kg	12/24/2014 1106
Methylcyclohexane	ND		1	5.0	0.41	ug/kg	12/24/2014 1106
Methylene chloride	ND		1	5.0	2.6	ug/kg	12/24/2014 1106
Styrene	ND		1	5.0	1.1	ug/kg	12/24/2014 1106
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.47	ug/kg	12/24/2014 1106
Tetrachloroethene	ND		1	5.0	0.50	ug/kg	12/24/2014 1106
Toluene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.63	ug/kg	12/24/2014 1106
1,2,4-Trichlorobenzene	ND		1	5.0	1.7	ug/kg	12/24/2014 1106
1,1,2-Trichloroethane	ND		1	5.0	0.79	ug/kg	12/24/2014 1106
1,1,1-Trichloroethane	ND		1	5.0	0.85	ug/kg	12/24/2014 1106

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ63946-001

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	1.9	ug/kg	12/24/2014 1106
Trichlorofluoromethane	ND		1	5.0	1.5	ug/kg	12/24/2014 1106
Vinyl chloride	ND		1	5.0	0.86	ug/kg	12/24/2014 1106
Xylenes (total)	ND		1	5.0	2.9	ug/kg	12/24/2014 1106
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		92	47-138				
1,2-Dichloroethane-d4		93	53-142				
Toluene-d8		91	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63946-002

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	98		1	98	60-140	12/24/2014 1009
Benzene	50	47		1	94	69-123	12/24/2014 1009
Bromodichloromethane	50	48		1	96	69-121	12/24/2014 1009
Bromoform	50	46		1	92	61-119	12/24/2014 1009
Bromomethane (Methyl bromide)	50	54		1	107	10-168	12/24/2014 1009
2-Butanone (MEK)	100	95		1	95	57-148	12/24/2014 1009
Carbon disulfide	50	49		1	99	58-122	12/24/2014 1009
Carbon tetrachloride	50	48		1	96	58-136	12/24/2014 1009
Chlorobenzene	50	47		1	95	59-129	12/24/2014 1009
Chloroethane	50	52		1	104	42-163	12/24/2014 1009
Chloroform	50	47		1	93	71-125	12/24/2014 1009
Chloromethane (Methyl chloride)	50	53		1	107	34-134	12/24/2014 1009
Cyclohexane	50	51		1	102	53-139	12/24/2014 1009
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	55-125	12/24/2014 1009
Dibromochloromethane	50	48		1	95	66-119	12/24/2014 1009
1,2-Dibromoethane (EDB)	50	46		1	93	74-124	12/24/2014 1009
1,3-Dichlorobenzene	50	48		1	96	51-134	12/24/2014 1009
1,2-Dichlorobenzene	50	47		1	93	57-131	12/24/2014 1009
1,4-Dichlorobenzene	50	46		1	93	52-133	12/24/2014 1009
Dichlorodifluoromethane	50	58		1	117	10-157	12/24/2014 1009
1,1-Dichloroethane	50	47		1	95	71-127	12/24/2014 1009
1,2-Dichloroethane	50	46		1	92	67-129	12/24/2014 1009
1,1-Dichloroethene	50	51		1	101	69-138	12/24/2014 1009
cis-1,2-Dichloroethene	50	48		1	95	70-122	12/24/2014 1009
trans-1,2-Dichloroethene	50	48		1	96	68-131	12/24/2014 1009
1,2-Dichloropropane	50	47		1	94	72-124	12/24/2014 1009
cis-1,3-Dichloropropene	50	48		1	96	70-126	12/24/2014 1009
trans-1,3-Dichloropropene	50	49		1	97	70-124	12/24/2014 1009
Ethylbenzene	50	49		1	99	59-128	12/24/2014 1009
2-Hexanone	100	90		1	90	54-137	12/24/2014 1009
Isopropylbenzene	50	50		1	101	50-136	12/24/2014 1009
Methyl acetate	50	49		1	97	59-137	12/24/2014 1009
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	12/24/2014 1009
4-Methyl-2-pentanone	100	90		1	90	60-134	12/24/2014 1009
Methylcyclohexane	50	50		1	99	41-144	12/24/2014 1009
Methylene chloride	50	47		1	93	70-130	12/24/2014 1009
Styrene	50	49		1	99	54-136	12/24/2014 1009
1,1,2,2-Tetrachloroethane	50	46		1	91	69-132	12/24/2014 1009
Tetrachloroethene	50	49		1	98	45-150	12/24/2014 1009
Toluene	50	48		1	95	61-129	12/24/2014 1009
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	103	49-136	12/24/2014 1009
1,2,4-Trichlorobenzene	50	50		1	100	34-145	12/24/2014 1009
1,1,2-Trichloroethane	50	46		1	93	55-128	12/24/2014 1009
1,1,1-Trichloroethane	50	49		1	98	63-128	12/24/2014 1009

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63946-002

Matrix: Solid

Batch: 63946

Prep Method: 5035

Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	95	62-126	12/24/2014 1009
Trichlorofluoromethane	50	52		1	103	45-138	12/24/2014 1009
Vinyl chloride	50	53		1	106	42-132	12/24/2014 1009
Xylenes (total)	100	99		1	99	58-128	12/24/2014 1009
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		90	47-138				
1,2-Dichloroethane-d4		86	53-142				
Toluene-d8		93	68-124				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ64151-001

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	12/29/2014 1042
Benzene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Bromodichloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Bromoform	ND		1	1.0	0.66	ug/L	12/29/2014 1042
Bromomethane (Methyl bromide)	ND		1	2.0	0.80	ug/L	12/29/2014 1042
2-Butanone (MEK)	ND		1	10	2.0	ug/L	12/29/2014 1042
Carbon disulfide	ND		1	1.0	0.097	ug/L	12/29/2014 1042
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	12/29/2014 1042
Chlorobenzene	ND		1	2.0	0.33	ug/L	12/29/2014 1042
Chloroethane	ND		1	2.0	0.47	ug/L	12/29/2014 1042
Chloroform	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	12/29/2014 1042
Dibromochloromethane	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,3-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/29/2014 1042
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	12/29/2014 1042
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	12/29/2014 1042
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	12/29/2014 1042
trans-1,3-Dichloropropene	ND		1	1.0	0.11	ug/L	12/29/2014 1042
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	12/29/2014 1042
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
2-Hexanone	ND		1	10	0.27	ug/L	12/29/2014 1042
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/29/2014 1042
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	12/29/2014 1042
Methylene chloride	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Styrene	ND		1	1.0	0.12	ug/L	12/29/2014 1042
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	12/29/2014 1042
Tetrachloroethene	ND		1	1.0	0.13	ug/L	12/29/2014 1042
Toluene	ND		1	1.0	0.33	ug/L	12/29/2014 1042
1,2,4-Trichlorobenzene	ND		1	1.0	0.51	ug/L	12/29/2014 1042
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	12/29/2014 1042
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	12/29/2014 1042
Trichloroethene	ND		1	1.0	0.18	ug/L	12/29/2014 1042
Vinyl chloride	ND		1	1.0	0.054	ug/L	12/29/2014 1042
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/29/2014 1042
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		113	70-130				
1,2-Dichloroethane-d4		105	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64151-002

Matrix: Aqueous

Batch: 64151

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	95		1	95	60-140	12/29/2014 0946
Benzene	50	44		1	89	70-130	12/29/2014 0946
Bromodichloromethane	50	45		1	90	70-130	12/29/2014 0946
Bromoform	50	49		1	99	70-130	12/29/2014 0946
Bromomethane (Methyl bromide)	50	52		1	103	60-140	12/29/2014 0946
2-Butanone (MEK)	100	95		1	95	60-140	12/29/2014 0946
Carbon disulfide	50	48		1	95	60-140	12/29/2014 0946
Carbon tetrachloride	50	47		1	94	70-130	12/29/2014 0946
Chlorobenzene	50	45		1	90	70-130	12/29/2014 0946
Chloroethane	50	53		1	107	42-163	12/29/2014 0946
Chloroform	50	45		1	90	70-130	12/29/2014 0946
Chloromethane (Methyl chloride)	50	54		1	107	60-140	12/29/2014 0946
Dibromochloromethane	50	47		1	94	70-130	12/29/2014 0946
1,4-Dichlorobenzene	50	44		1	87	70-130	12/29/2014 0946
1,3-Dichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,2-Dichlorobenzene	50	44		1	89	70-130	12/29/2014 0946
1,2-Dichloroethane	50	47		1	94	70-130	12/29/2014 0946
1,1-Dichloroethane	50	46		1	92	70-130	12/29/2014 0946
cis-1,2-Dichloroethene	50	45		1	89	70-130	12/29/2014 0946
trans-1,2-Dichloroethene	50	44		1	89	70-130	12/29/2014 0946
1,1-Dichloroethene	50	46		1	91	70-130	12/29/2014 0946
1,2-Dichloropropane	50	45		1	91	70-130	12/29/2014 0946
trans-1,3-Dichloropropene	50	47		1	94	70-130	12/29/2014 0946
cis-1,3-Dichloropropene	50	47		1	93	70-130	12/29/2014 0946
Ethylbenzene	50	46		1	93	70-130	12/29/2014 0946
2-Hexanone	100	93		1	93	60-140	12/29/2014 0946
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	12/29/2014 0946
4-Methyl-2-pentanone	100	95		1	95	60-140	12/29/2014 0946
Methylene chloride	50	43		1	87	70-130	12/29/2014 0946
Styrene	50	46		1	93	70-130	12/29/2014 0946
1,1,2,2-Tetrachloroethane	50	46		1	93	60-140	12/29/2014 0946
Tetrachloroethene	50	46		1	92	70-130	12/29/2014 0946
Toluene	50	44		1	89	70-130	12/29/2014 0946
1,2,4-Trichlorobenzene	50	44		1	88	70-130	12/29/2014 0946
1,1,2-Trichloroethane	50	46		1	91	70-130	12/29/2014 0946
1,1,1-Trichloroethane	50	46		1	92	70-130	12/29/2014 0946
Trichloroethene	50	45		1	90	70-130	12/29/2014 0946
Vinyl chloride	50	53		1	105	70-130	12/29/2014 0946
Xylenes (total)	100	91		1	91	70-130	12/29/2014 0946
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		103	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
2,4,5-Trichlorophenol	ND		1	1.0	0.18	ug/L	12/30/2014 1237
2,4,6-Trichlorophenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
2,4-Dichlorophenol	ND		1	1.0	0.15	ug/L	12/30/2014 1237
2,4-Dimethylphenol	ND		1	1.0	0.31	ug/L	12/30/2014 1237
2,4-Dinitrophenol	ND		1	5.0	0.25	ug/L	12/30/2014 1237
2,4-Dinitrotoluene	ND		1	2.0	0.45	ug/L	12/30/2014 1237
2,6-Dinitrotoluene	ND		1	2.0	0.40	ug/L	12/30/2014 1237
2-Chloronaphthalene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
2-Chlorophenol	ND		1	1.0	0.13	ug/L	12/30/2014 1237
2-Methylnaphthalene	ND		1	1.0	0.080	ug/L	12/30/2014 1237
2-Methylphenol	ND		1	1.0	0.17	ug/L	12/30/2014 1237
2-Nitroaniline	ND		1	2.0	0.55	ug/L	12/30/2014 1237
2-Nitrophenol	ND		1	2.0	0.27	ug/L	12/30/2014 1237
3 & 4-Methylphenol	ND		1	2.0	0.57	ug/L	12/30/2014 1237
3,3'-Dichlorobenzidine	ND		1	5.0	0.81	ug/L	12/30/2014 1237
3-Nitroaniline	ND		1	2.0	0.77	ug/L	12/30/2014 1237
4,6-Dinitro-2-methylphenol	ND		1	5.0	1.5	ug/L	12/30/2014 1237
4-Bromophenyl phenyl ether	ND		1	1.0	0.12	ug/L	12/30/2014 1237
4-Chloro-3-methyl phenol	ND		1	1.0	0.22	ug/L	12/30/2014 1237
4-Chloroaniline	ND		1	1.0	0.13	ug/L	12/30/2014 1237
4-Chlorophenyl phenyl ether	ND		1	1.0	0.11	ug/L	12/30/2014 1237
4-Nitroaniline	ND		1	2.0	0.39	ug/L	12/30/2014 1237
4-Nitrophenol	ND		1	5.0	0.64	ug/L	12/30/2014 1237
Acenaphthene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Acenaphthylene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Benzo(a)anthracene	ND		1	1.0	0.15	ug/L	12/30/2014 1237
Benzo(a)pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Benzo(b)fluoranthene	ND		1	1.0	0.20	ug/L	12/30/2014 1237
Benzo(g,h,i)perylene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Benzo(k)fluoranthene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
bis(2-Chloroethoxy)methane	ND		1	1.0	0.13	ug/L	12/30/2014 1237
bis(2-Chloroisopropyl)ether	ND		1	1.0	0.080	ug/L	12/30/2014 1237
bis(2-Ethylhexyl)phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Butyl benzyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Carbazole	ND		1	1.0	0.25	ug/L	12/30/2014 1237
Chrysene	ND		1	1.0	0.12	ug/L	12/30/2014 1237
Di-n-butyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Di-n-octylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dibenzo(a,h)anthracene	ND		1	1.0	0.13	ug/L	12/30/2014 1237
Dibenzofuran	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Diethylphthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Dimethyl phthalate	ND		1	5.0	1.7	ug/L	12/30/2014 1237
Fluoranthene	ND		1	1.0	0.21	ug/L	12/30/2014 1237

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ63919-001

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Fluorene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Hexachlorobenzene	ND		1	1.0	0.21	ug/L	12/30/2014 1237
Hexachlorobutadiene	ND		1	1.0	0.090	ug/L	12/30/2014 1237
Hexachlorocyclopentadiene	ND		1	5.0	0.23	ug/L	12/30/2014 1237
Hexachloroethane	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Indeno(1,2,3-c,d)pyrene	ND		1	1.0	0.23	ug/L	12/30/2014 1237
Isophorone	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodi-n-propylamine	ND		1	1.0	0.080	ug/L	12/30/2014 1237
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	1.0	0.38	ug/L	12/30/2014 1237
Naphthalene	ND		1	1.0	0.070	ug/L	12/30/2014 1237
Nitrobenzene	ND		1	1.0	0.10	ug/L	12/30/2014 1237
Pentachlorophenol	ND		1	5.0	0.54	ug/L	12/30/2014 1237
Phenanthrene	ND		1	1.0	0.18	ug/L	12/30/2014 1237
Phenol	ND		1	1.0	0.11	ug/L	12/30/2014 1237
Pyrene	ND		1	1.0	0.16	ug/L	12/30/2014 1237
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		62	41-144				
2-Fluorobiphenyl		71	37-129				
2-Fluorophenol		71	24-127				
Nitrobenzene-d5		70	38-127				
Phenol-d5		72	28-128				
Terphenyl-d14		80	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-Trichlorophenol	20	16		1	80	46-125	12/30/2014 1300
2,4,6-Trichlorophenol	20	17		1	83	36-123	12/30/2014 1300
2,4-Dichlorophenol	20	16		1	82	38-127	12/30/2014 1300
2,4-Dimethylphenol	20	24	N	1	118	36-110	12/30/2014 1300
2,4-Dinitrophenol	100	83		1	83	33-143	12/30/2014 1300
2,4-Dinitrotoluene	40	35		1	87	55-137	12/30/2014 1300
2,6-Dinitrotoluene	40	34		1	86	53-128	12/30/2014 1300
2-Chloronaphthalene	20	14		1	71	42-132	12/30/2014 1300
2-Chlorophenol	20	17		1	83	40-128	12/30/2014 1300
2-Methylnaphthalene	20	17		1	84	40-132	12/30/2014 1300
2-Methylphenol	20	17		1	84	33-122	12/30/2014 1300
2-Nitroaniline	40	34		1	85	48-126	12/30/2014 1300
2-Nitrophenol	40	33		1	81	44-131	12/30/2014 1300
3 & 4-Methylphenol	40	35		1	88	48-112	12/30/2014 1300
3-Nitroaniline	40	29		1	73	29-109	12/30/2014 1300
4,6-Dinitro-2-methylphenol	100	88		1	88	46-151	12/30/2014 1300
4-Bromophenyl phenyl ether	20	15		1	76	49-123	12/30/2014 1300
4-Chloro-3-methyl phenol	20	17		1	86	48-136	12/30/2014 1300
4-Chloroaniline	20	18	N	1	89	18-73	12/30/2014 1300
4-Chlorophenyl phenyl ether	20	16		1	80	34-124	12/30/2014 1300
4-Nitroaniline	40	37		1	91	42-154	12/30/2014 1300
4-Nitrophenol	100	87		1	87	43-145	12/30/2014 1300
Acenaphthene	20	17		1	84	51-130	12/30/2014 1300
Acenaphthylene	20	20		1	102	46-131	12/30/2014 1300
Anthracene	20	17		1	87	48-122	12/30/2014 1300
Benzo(a)anthracene	20	16		1	80	50-143	12/30/2014 1300
Benzo(a)pyrene	20	16		1	80	55-141	12/30/2014 1300
Benzo(b)fluoranthene	20	17		1	85	48-147	12/30/2014 1300
Benzo(g,h,i)perylene	20	16		1	80	48-139	12/30/2014 1300
Benzo(k)fluoranthene	20	18		1	90	48-148	12/30/2014 1300
bis(2-Chloroethoxy)methane	20	16		1	82	46-130	12/30/2014 1300
bis(2-Chloroisopropyl)ether	20	17		1	85	36-133	12/30/2014 1300
bis(2-Ethylhexyl)phthalate	20	15		1	73	40-141	12/30/2014 1300
Butyl benzyl phthalate	20	17		1	86	52-142	12/30/2014 1300
Carbazole	20	18		1	89	45-101	12/30/2014 1300
Chrysene	20	17		1	83	51-137	12/30/2014 1300
Di-n-butyl phthalate	20	16		1	81	50-134	12/30/2014 1300
Di-n-octylphthalate	20	14		1	72	50-136	12/30/2014 1300
Dibenzo(a,h)anthracene	20	16		1	80	48-139	12/30/2014 1300
Dibenzofuran	20	16		1	82	45-142	12/30/2014 1300
Diethylphthalate	20	17		1	87	48-124	12/30/2014 1300
Dimethyl phthalate	20	17		1	85	43-122	12/30/2014 1300
Fluoranthene	20	16		1	82	50-124	12/30/2014 1300
Fluorene	20	18		1	88	39-122	12/30/2014 1300

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ63919-002

Matrix: Aqueous

Batch: 63919

Prep Method: 3520C

Analytical Method: 8270D

Prep Date: 12/24/2014 938

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachlorobenzene	20	18		1	91	46-125	12/30/2014 1300
Hexachlorobutadiene	20	15		1	76	38-121	12/30/2014 1300
Hexachlorocyclopentadiene	100	59		1	59	24-110	12/30/2014 1300
Hexachloroethane	20	15		1	77	32-109	12/30/2014 1300
Indeno(1,2,3-c,d)pyrene	20	16		1	78	49-146	12/30/2014 1300
Isophorone	20	17		1	86	43-118	12/30/2014 1300
N-Nitrosodi-n-propylamine	20	17		1	87	46-135	12/30/2014 1300
N-Nitrosodiphenylamine (Diphenylamine)	20	20		1	98	44-124	12/30/2014 1300
Naphthalene	20	16		1	81	45-118	12/30/2014 1300
Nitrobenzene	20	16		1	81	46-131	12/30/2014 1300
Pentachlorophenol	100	71		1	71	30-137	12/30/2014 1300
Phenanthrene	20	17		1	83	49-122	12/30/2014 1300
Phenol	20	16		1	82	35-118	12/30/2014 1300
Pyrene	20	16		1	79	50-130	12/30/2014 1300
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		84	41-144				
2-Fluorobiphenyl		80	37-129				
2-Fluorophenol		74	24-127				
Nitrobenzene-d5		83	38-127				
Phenol-d5		80	28-128				
Terphenyl-d14		88	10-148				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Matrix: Solid

Batch: 64207

Prep Method: 3550C

Analytical Method: 8270D

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,1'-Biphenyl	ND		1	33	10	ug/kg	12/30/2014 1150
2,4,5-Trichlorophenol	ND		1	33	9.3	ug/kg	12/30/2014 1150
2,4,6-Trichlorophenol	ND		1	33	9.8	ug/kg	12/30/2014 1150
2,4-Dichlorophenol	ND		1	33	10	ug/kg	12/30/2014 1150
2,4-Dimethylphenol	ND		1	33	12	ug/kg	12/30/2014 1150
2,4-Dinitrophenol	ND		1	170	110	ug/kg	12/30/2014 1150
2,4-Dinitrotoluene	ND		1	67	18	ug/kg	12/30/2014 1150
2,6-Dinitrotoluene	ND		1	67	17	ug/kg	12/30/2014 1150
2-Chloronaphthalene	ND		1	33	11	ug/kg	12/30/2014 1150
2-Chlorophenol	ND		1	33	9.2	ug/kg	12/30/2014 1150
2-Methylnaphthalene	ND		1	33	9.9	ug/kg	12/30/2014 1150
2-Methylphenol	ND		1	33	6.0	ug/kg	12/30/2014 1150
2-Nitroaniline	ND		1	67	23	ug/kg	12/30/2014 1150
2-Nitrophenol	ND		1	67	18	ug/kg	12/30/2014 1150
3 & 4-Methylphenol	ND		1	67	12	ug/kg	12/30/2014 1150
3,3'-Dichlorobenzidine	ND		1	170	36	ug/kg	12/30/2014 1150
3-Nitroaniline	ND		1	67	39	ug/kg	12/30/2014 1150
4,6-Dinitro-2-methylphenol	ND		1	170	130	ug/kg	12/30/2014 1150
4-Bromophenyl phenyl ether	ND		1	33	9.8	ug/kg	12/30/2014 1150
4-Chloro-3-methyl phenol	ND		1	33	8.4	ug/kg	12/30/2014 1150
4-Chloroaniline	ND		1	33	6.8	ug/kg	12/30/2014 1150
4-Chlorophenyl phenyl ether	ND		1	33	11	ug/kg	12/30/2014 1150
4-Nitroaniline	ND		1	67	19	ug/kg	12/30/2014 1150
4-Nitrophenol	ND		1	170	96	ug/kg	12/30/2014 1150
Acenaphthene	ND		1	33	11	ug/kg	12/30/2014 1150
Acenaphthylene	ND		1	33	10	ug/kg	12/30/2014 1150
Acetophenone	ND		1	33	18	ug/kg	12/30/2014 1150
Anthracene	ND		1	33	7.4	ug/kg	12/30/2014 1150
Atrazine	ND		1	33	17	ug/kg	12/30/2014 1150
Benzaldehyde	ND		1	33	17	ug/kg	12/30/2014 1150
Benzo(a)anthracene	ND		1	33	8.8	ug/kg	12/30/2014 1150
Benzo(a)pyrene	ND		1	33	9.3	ug/kg	12/30/2014 1150
Benzo(b)fluoranthene	ND		1	33	9.6	ug/kg	12/30/2014 1150
Benzo(g,h,i)perylene	ND		1	33	12	ug/kg	12/30/2014 1150
Benzo(k)fluoranthene	ND		1	33	9.5	ug/kg	12/30/2014 1150
bis(2-Chloroethoxy)methane	ND		1	33	10	ug/kg	12/30/2014 1150
bis(2-Chloroethyl)ether	ND		1	33	9.2	ug/kg	12/30/2014 1150
bis(2-Chloroisopropyl)ether	ND		1	33	11	ug/kg	12/30/2014 1150
bis(2-Ethylhexyl)phthalate	ND		1	33	12	ug/kg	12/30/2014 1150
Butyl benzyl phthalate	ND		1	67	22	ug/kg	12/30/2014 1150
Caprolactam	ND		1	33	17	ug/kg	12/30/2014 1150
Carbazole	ND		1	33	14	ug/kg	12/30/2014 1150
Chrysene	ND		1	33	11	ug/kg	12/30/2014 1150
Di-n-butyl phthalate	ND		1	33	18	ug/kg	12/30/2014 1150

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: PQ64207-001

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Di-n-octylphthalate	ND		1	33	32	ug/kg	12/30/2014 1150
Dibenzo(a,h)anthracene	ND		1	33	9.1	ug/kg	12/30/2014 1150
Dibenzofuran	ND		1	33	10	ug/kg	12/30/2014 1150
Diethylphthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Dimethyl phthalate	ND		1	33	11	ug/kg	12/30/2014 1150
Fluoranthene	ND		1	33	11	ug/kg	12/30/2014 1150
Fluorene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Hexachlorobenzene	ND		1	33	15	ug/kg	12/30/2014 1150
Hexachlorobutadiene	ND		1	33	11	ug/kg	12/30/2014 1150
Hexachlorocyclopentadiene	ND		1	170	25	ug/kg	12/30/2014 1150
Hexachloroethane	ND		1	33	8.9	ug/kg	12/30/2014 1150
Indeno(1,2,3-c,d)pyrene	ND		1	33	9.7	ug/kg	12/30/2014 1150
Isophorone	ND		1	33	7.4	ug/kg	12/30/2014 1150
N-Nitrosodi-n-propylamine	ND		1	33	13	ug/kg	12/30/2014 1150
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	33	8.3	ug/kg	12/30/2014 1150
Naphthalene	ND		1	33	10	ug/kg	12/30/2014 1150
Nitrobenzene	ND		1	33	5.4	ug/kg	12/30/2014 1150
Pentachlorophenol	ND		1	170	140	ug/kg	12/30/2014 1150
Phenanthrene	ND		1	33	9.0	ug/kg	12/30/2014 1150
Phenol	ND		1	33	9.1	ug/kg	12/30/2014 1150
Pyrene	ND		1	33	13	ug/kg	12/30/2014 1150

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		42	30-117
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		44	28-104
Nitrobenzene-d5		39	22-109
Phenol-d5		47	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	670	300		1	45	30-130	12/30/2014 1213
2,4,5-Trichlorophenol	670	400		1	60	46-122	12/30/2014 1213
2,4,6-Trichlorophenol	670	380		1	57	38-115	12/30/2014 1213
2,4-Dichlorophenol	670	320		1	48	41-113	12/30/2014 1213
2,4-Dimethylphenol	670	490		1	74	33-123	12/30/2014 1213
2,4-Dinitrophenol	3300	2300		1	70	30-130	12/30/2014 1213
2,4-Dinitrotoluene	1300	1000		1	75	48-124	12/30/2014 1213
2,6-Dinitrotoluene	1300	880		1	66	47-125	12/30/2014 1213
2-Chloronaphthalene	670	280		1	42	31-127	12/30/2014 1213
2-Chlorophenol	670	300		1	45	37-106	12/30/2014 1213
2-Methylnaphthalene	670	300		1	46	40-106	12/30/2014 1213
2-Methylphenol	670	310		1	47	32-107	12/30/2014 1213
2-Nitroaniline	1300	870		1	66	45-128	12/30/2014 1213
2-Nitrophenol	1300	550		1	41	35-108	12/30/2014 1213
3 & 4-Methylphenol	1300	670		1	50	39-108	12/30/2014 1213
3,3'-Dichlorobenzidine	1300	1000		1	76	30-130	12/30/2014 1213
3-Nitroaniline	1300	870		1	65	24-127	12/30/2014 1213
4,6-Dinitro-2-methylphenol	3300	2600		1	78	40-130	12/30/2014 1213
4-Bromophenyl phenyl ether	670	390		1	59	46-118	12/30/2014 1213
4-Chloro-3-methyl phenol	670	410		1	62	49-118	12/30/2014 1213
4-Chloroaniline	670	370		1	55	10-125	12/30/2014 1213
4-Chlorophenyl phenyl ether	670	380		1	57	47-116	12/30/2014 1213
4-Nitroaniline	1300	1100		1	86	48-127	12/30/2014 1213
4-Nitrophenol	3300	2800		1	84	18-154	12/30/2014 1213
Acenaphthene	670	360		1	54	46-114	12/30/2014 1213
Acenaphthylene	670	450		1	68	44-122	12/30/2014 1213
Acetophenone	670	280		1	42	30-130	12/30/2014 1213
Anthracene	670	500		1	76	50-119	12/30/2014 1213
Atrazine	670	450		1	67	30-130	12/30/2014 1213
Benzaldehyde	670	280		1	42	40-117	12/30/2014 1213
Benzo(a)anthracene	670	540		1	80	47-121	12/30/2014 1213
Benzo(a)pyrene	670	590		1	89	55-134	12/30/2014 1213
Benzo(b)fluoranthene	670	570		1	85	28-139	12/30/2014 1213
Benzo(g,h,i)perylene	670	540		1	81	36-125	12/30/2014 1213
Benzo(k)fluoranthene	670	590		1	89	47-130	12/30/2014 1213
bis(2-Chloroethoxy)methane	670	290		1	44	39-108	12/30/2014 1213
bis(2-Chloroethyl)ether	670	280		1	42	32-105	12/30/2014 1213
bis(2-Chloroisopropyl)ether	670	280		1	43	31-102	12/30/2014 1213
bis(2-Ethylhexyl)phthalate	670	570		1	85	45-128	12/30/2014 1213
Butyl benzyl phthalate	670	570		1	86	46-128	12/30/2014 1213
Caprolactam	670	650		1	98	30-130	12/30/2014 1213
Carbazole	670	570		1	86	30-130	12/30/2014 1213
Chrysene	670	550		1	82	45-126	12/30/2014 1213
Di-n-butyl phthalate	670	550		1	82	51-129	12/30/2014 1213

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ64207-002

Batch: 64207

Analytical Method: 8270D

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 2057

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	670	550		1	82	49-142	12/30/2014 1213
Dibenzo(a,h)anthracene	670	540		1	81	30-130	12/30/2014 1213
Dibenzofuran	670	370		1	56	45-112	12/30/2014 1213
Diethylphthalate	670	500		1	75	49-123	12/30/2014 1213
Dimethyl phthalate	670	460		1	69	48-120	12/30/2014 1213
Fluoranthene	670	540		1	80	50-123	12/30/2014 1213
Fluorene	670	420		1	63	48-117	12/30/2014 1213
Hexachlorobenzene	670	490		1	73	44-122	12/30/2014 1213
Hexachlorobutadiene	670	250		1	37	33-103	12/30/2014 1213
Hexachlorocyclopentadiene	3300	1300		1	39	18-121	12/30/2014 1213
Hexachloroethane	670	240		1	36	30-96	12/30/2014 1213
Indeno(1,2,3-c,d)pyrene	670	530		1	80	45-123	12/30/2014 1213
Isophorone	670	330		1	49	30-130	12/30/2014 1213
N-Nitrosodi-n-propylamine	670	310		1	46	32-115	12/30/2014 1213
N-Nitrosodiphenylamine (Diphenylamine)	670	570		1	86	53-150	12/30/2014 1213
Naphthalene	670	270		1	41	36-110	12/30/2014 1213
Nitrobenzene	670	280		1	42	33-114	12/30/2014 1213
Pentachlorophenol	3300	2200		1	65	27-138	12/30/2014 1213
Phenanthrene	670	470		1	71	49-117	12/30/2014 1213
Phenol	670	320		1	48	36-108	12/30/2014 1213
Pyrene	670	530		1	79	47-119	12/30/2014 1213
Surrogate	Q	% Rec	Acceptance Limit				
2,4,6-Tribromophenol		69	30-117				
2-Fluorobiphenyl		46	33-102				
2-Fluorophenol		42	28-104				
Nitrobenzene-d5		41	22-109				
Phenol-d5		46	27-103				
Terphenyl-d14		85	41-120				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ63984-001

Matrix: Aqueous

Batch: 63984

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/24/2014 1857

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
4,4'-DDE	ND		1	0.025	0.011	ug/L	12/29/2014 1130
4,4'-DDT	ND		1	0.025	0.0020	ug/L	12/29/2014 1130
Aldrin	ND		1	0.025	0.0017	ug/L	12/29/2014 1130
alpha-BHC	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	12/29/2014 1130
beta-BHC	ND		1	0.025	0.0039	ug/L	12/29/2014 1130
delta-BHC	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
Dieldrin	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
Endosulfan I	ND		1	0.025	0.0022	ug/L	12/29/2014 1130
Endosulfan II	ND		1	0.025	0.0015	ug/L	12/29/2014 1130
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
Endrin	ND		1	0.025	0.0010	ug/L	12/29/2014 1130
Endrin aldehyde	ND		1	0.025	0.0019	ug/L	12/29/2014 1130
Endrin ketone	ND		1	0.025	0.0012	ug/L	12/29/2014 1130
gamma-BHC (Lindane)	ND		1	0.025	0.0011	ug/L	12/29/2014 1130
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	12/29/2014 1130
Heptachlor	ND		1	0.025	0.013	ug/L	12/29/2014 1130
Heptachlor epoxide	ND		1	0.025	0.0020	ug/L	12/29/2014 1130
Methoxychlor	ND		1	0.10	0.0020	ug/L	12/29/2014 1130
Toxaphene	ND		1	0.25	0.11	ug/L	12/29/2014 1130
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		40	10-122				
Tetrachloro-m-xylene		84	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ63984-002

Matrix: Aqueous

Batch: 63984

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/24/2014 1857

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	93	70-130	12/29/2014 1145
4,4'-DDE	0.50	0.45		1	90	70-130	12/29/2014 1145
4,4'-DDT	0.50	0.51		1	103	70-130	12/29/2014 1145
Aldrin	0.50	0.44		1	88	70-130	12/29/2014 1145
alpha-BHC	0.50	0.41		1	81	70-130	12/29/2014 1145
alpha-Chlordane	0.50	0.44		1	88	70-130	12/29/2014 1145
beta-BHC	0.50	0.43		1	87	70-130	12/29/2014 1145
delta-BHC	0.50	0.39		1	78	70-130	12/29/2014 1145
Dieldrin	0.50	0.46		1	92	70-130	12/29/2014 1145
Endosulfan I	0.50	0.45		1	89	70-130	12/29/2014 1145
Endosulfan II	0.50	0.44		1	89	70-130	12/29/2014 1145
Endosulfan sulfate	0.50	0.42		1	84	70-130	12/29/2014 1145
Endrin	0.50	0.19	N	1	37	70-130	12/29/2014 1145
Endrin aldehyde	0.50	0.46		1	92	70-130	12/29/2014 1145
Endrin ketone	0.50	0.67	N	1	134	70-130	12/29/2014 1145
gamma-BHC (Lindane)	0.50	0.43		1	86	70-130	12/29/2014 1145
gamma-Chlordane	0.50	0.44		1	89	70-130	12/29/2014 1145
Heptachlor	0.50	0.40		1	80	70-130	12/29/2014 1145
Heptachlor epoxide	0.50	0.44		1	87	70-130	12/29/2014 1145
Methoxychlor	0.50	0.55		1	111	70-130	12/29/2014 1145
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		82	10-122				
Tetrachloro-m-xylene		81	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64120-001

Matrix: Solid

Batch: 64120

Prep Method: 3550C

Analytical Method: 8081B

Prep Date: 12/29/2014 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
4,4'-DDE	ND		1	1.7	0.32	ug/kg	01/07/2015 1043
4,4'-DDT	ND		1	1.7	0.070	ug/kg	01/07/2015 1043
Aldrin	ND		1	1.7	0.042	ug/kg	01/07/2015 1043
alpha-BHC	ND		1	1.7	0.045	ug/kg	01/07/2015 1043
alpha-Chlordane	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
beta-BHC	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
delta-BHC	ND		1	1.7	0.021	ug/kg	01/07/2015 1043
Dieldrin	ND		1	1.7	0.028	ug/kg	01/07/2015 1043
Endosulfan I	ND		1	1.7	0.041	ug/kg	01/07/2015 1043
Endosulfan II	ND		1	1.7	0.032	ug/kg	01/07/2015 1043
Endosulfan sulfate	ND		1	1.7	0.037	ug/kg	01/07/2015 1043
Endrin	ND		1	1.7	0.022	ug/kg	01/07/2015 1043
Endrin aldehyde	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Endrin ketone	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
gamma-BHC (Lindane)	ND		1	1.7	0.075	ug/kg	01/07/2015 1043
gamma-Chlordane	ND		1	1.7	0.025	ug/kg	01/07/2015 1043
Heptachlor	ND		1	1.7	0.057	ug/kg	01/07/2015 1043
Heptachlor epoxide	ND		1	1.7	0.036	ug/kg	01/07/2015 1043
Methoxychlor	ND		1	6.7	0.067	ug/kg	01/07/2015 1043
Toxaphene	ND		1	83	1.7	ug/kg	01/07/2015 1043
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64120-002

Batch: 64120

Analytical Method: 8081B

Matrix: Solid

Prep Method: 3550C

Prep Date: 12/29/2014 930

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	15		1	91	70-130	01/07/2015 1057
4,4'-DDE	17	15		1	89	70-130	01/07/2015 1057
4,4'-DDT	17	15		1	87	70-130	01/07/2015 1057
Aldrin	17	15		1	87	70-130	01/07/2015 1057
alpha-BHC	17	14		1	80	70-130	01/07/2015 1057
alpha-Chlordane	17	15		1	88	70-130	01/07/2015 1057
beta-BHC	17	13		1	79	70-130	01/07/2015 1057
delta-BHC	17	14		1	82	70-130	01/07/2015 1057
Dieldrin	17	16		1	92	70-130	01/07/2015 1057
Endosulfan I	17	15		1	88	70-130	01/07/2015 1057
Endosulfan II	17	15		1	90	70-130	01/07/2015 1057
Endosulfan sulfate	17	14		1	84	70-130	01/07/2015 1057
Endrin	17	15		1	90	70-130	01/07/2015 1057
Endrin aldehyde	17	14		1	81	70-130	01/07/2015 1057
Endrin ketone	17	15		1	87	70-130	01/07/2015 1057
gamma-BHC (Lindane)	17	14		1	84	70-130	01/07/2015 1057
gamma-Chlordane	17	15		1	86	70-130	01/07/2015 1057
Heptachlor	17	14		1	80	70-130	01/07/2015 1057
Heptachlor epoxide	17	14		1	85	70-130	01/07/2015 1057
Methoxychlor	17	15		1	88	70-130	01/07/2015 1057
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		75	57-110				
Tetrachloro-m-xylene		60	37-91				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: PQ64252-001

Matrix: Aqueous

Batch: 64252

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/30/2014 1824

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
4,4'-DDE	ND		1	0.025	0.011	ug/L	01/05/2015 2145
4,4'-DDT	ND		1	0.025	0.0020	ug/L	01/05/2015 2145
Aldrin	ND		1	0.025	0.0017	ug/L	01/05/2015 2145
alpha-BHC	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
alpha-Chlordane	ND		1	0.025	0.0013	ug/L	01/05/2015 2145
beta-BHC	ND		1	0.025	0.0039	ug/L	01/05/2015 2145
delta-BHC	0.0062	J	1	0.025	0.0011	ug/L	01/05/2015 2145
Dieldrin	0.0015	J	1	0.025	0.0010	ug/L	01/05/2015 2145
Endosulfan I	ND		1	0.025	0.0022	ug/L	01/05/2015 2145
Endosulfan II	ND		1	0.025	0.0015	ug/L	01/05/2015 2145
Endosulfan sulfate	ND		1	0.025	0.0011	ug/L	01/05/2015 2145
Endrin	ND		1	0.025	0.0010	ug/L	01/05/2015 2145
Endrin aldehyde	0.049		1	0.025	0.0019	ug/L	01/05/2015 2145
Endrin ketone	ND		1	0.025	0.0012	ug/L	01/05/2015 2145
gamma-BHC (Lindane)	0.0024	J	1	0.025	0.0011	ug/L	01/05/2015 2145
gamma-Chlordane	ND		1	0.025	0.0015	ug/L	01/05/2015 2145
Heptachlor	ND		1	0.025	0.013	ug/L	01/05/2015 2145
Heptachlor epoxide	0.0020	J	1	0.025	0.0020	ug/L	01/05/2015 2145
Methoxychlor	ND		1	0.10	0.0020	ug/L	01/05/2015 2145
Toxaphene	ND		1	0.25	0.11	ug/L	01/05/2015 2145
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		78	10-122				
Tetrachloro-m-xylene		70	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: PQ64252-002

Matrix: Aqueous

Batch: 64252

Prep Method: 3520C

Analytical Method: 8081B

Prep Date: 12/30/2014 1824

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.52		1	103	70-130	01/05/2015 2159
4,4'-DDE	0.50	0.51		1	101	70-130	01/05/2015 2159
4,4'-DDT	0.50	0.50		1	101	70-130	01/05/2015 2159
Aldrin	0.50	0.49		1	98	70-130	01/05/2015 2159
alpha-BHC	0.50	0.47		1	95	70-130	01/05/2015 2159
alpha-Chlordane	0.50	0.49		1	99	70-130	01/05/2015 2159
beta-BHC	0.50	0.45		1	91	70-130	01/05/2015 2159
delta-BHC	0.50	0.52		1	103	70-130	01/05/2015 2159
Dieldrin	0.50	0.52		1	105	70-130	01/05/2015 2159
Endosulfan I	0.50	0.50		1	100	70-130	01/05/2015 2159
Endosulfan II	0.50	0.52		1	105	70-130	01/05/2015 2159
Endosulfan sulfate	0.50	0.50		1	100	70-130	01/05/2015 2159
Endrin	0.50	0.50		1	101	70-130	01/05/2015 2159
Endrin aldehyde	0.50	0.51		1	102	70-130	01/05/2015 2159
Endrin ketone	0.50	0.54		1	107	70-130	01/05/2015 2159
gamma-BHC (Lindane)	0.50	0.49		1	98	70-130	01/05/2015 2159
gamma-Chlordane	0.50	0.49		1	98	70-130	01/05/2015 2159
Heptachlor	0.50	0.46		1	92	70-130	01/05/2015 2159
Heptachlor epoxide	0.50	0.49		1	98	70-130	01/05/2015 2159
Methoxychlor	0.50	0.50		1	100	70-130	01/05/2015 2159
Surrogate	Q	% Rec	Acceptance Limit				
Decachlorobiphenyl		77	10-122				
Tetrachloro-m-xylene		68	46-119				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and $\geq$ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results