Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-17-GW	Batch#:	220667
Lab ID:	264758-001	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-17-GW	Batch#:	220667
Lab ID:	264758-001	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	24	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	64	38-120
Phenol-d5	62	38-120
2,4,6-Tribromophenol	87	46-120
Nitrobenzene-d5	64	51-120
2-Fluorobiphenyl	64	54-120
Terphenyl-d14	31	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	DUP-021815	Batch#:	220667
Lab ID:	264758-002	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	DUP-021815	Batch#:	220667
Lab ID:	264758-002	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	10	1.2
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	8.5 J	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	49	38-120
Phenol-d5	48	38-120
2,4,6-Tribromophenol	79	46-120
Nitrobenzene-d5	51	51-120
2-Fluorobiphenyl	59	54-120
Terphenyl-d14	56	21-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-16-GW	Batch#:	220667
Lab ID:	264758-003	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-16-GW	Batch#:	220667
Lab ID:	264758-003	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	10	1.2
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	45	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	62	38-120
Phenol-d5	63	38-120
2,4,6-Tribromophenol	91	46-120
Nitrobenzene-d5	66	51-120
2-Fluorobiphenyl	64	54-120
Terphenyl-d14	16 *	21-120

*= Value outside of QC limits; see narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-15-GW	Batch#:	220667
Lab ID:	264758-004	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	7.5 J	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	8.4 J	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-15-GW	Batch#:	220667
Lab ID:	264758-004	Sampled:	02/18/15
Matrix:	Water	Received:	02/18/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	10	1.3
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	7.7 J	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	58	38-120
Phenol-d5	58	38-120
2,4,6-Tribromophenol	79	46-120
Nitrobenzene-d5	77	51-120
2-Fluorobiphenyl	63	54-120
Terphenyl-d14	23	21-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

43.0

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778162	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778162	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	70	38-120
Phenol-d5	70	38-120
2,4,6-Tribromophenol	88	46-120
Nitrobenzene-d5	68	51-120
2-Fluorobiphenyl	71	54-120
Terphenyl-d14	72	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC778163	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	54.73	68	46-120
2-Chlorophenol	80.00	63.92	80	48-120
1,4-Dichlorobenzene	80.00	49.14	61	52-120
N-Nitroso-di-n-propylamine	80.00	56.17	70	46-120
1,2,4-Trichlorobenzene	80.00	55.21	69	53-120
4-Chloro-3-methylphenol	80.00	63.25	79	40-120
Acenaphthene	30.00	22.45	75	61-120
4-Nitrophenol	80.00	73.19	91	40-120
2,4-Dinitrotoluene	80.00	71.23	89	64-120
Pentachlorophenol	80.00	70.83	89	47-120
Pyrene	30.00	23.64	79	62-120

Surrogate	%REC	Limits
2-Fluorophenol	66	38-120
Phenol-d5	70	38-120
2,4,6-Tribromophenol	96	46-120
Nitrobenzene-d5	65	51-120
2-Fluorobiphenyl	73	54-120
Terphenyl-d14	75	21-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	220667
MSS Lab ID:	264735-006	Sampled:	02/17/15
Matrix:	Water	Received:	02/17/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Type: MS Lab ID: QC778164

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<1.664	80.00	59.88	75	55-120
2-Chlorophenol	<1.597	80.00	58.81	74	57-120
1,4-Dichlorobenzene	<1.648	80.00	56.59	71	51-120
N-Nitroso-di-n-propylamine	<1.996	80.00	58.91	74	57-120
1,2,4-Trichlorobenzene	<1.420	80.00	55.51	69	62-120
4-Chloro-3-methylphenol	<1.366	80.00	66.46	83	62-120
Acenaphthene	<1.377	30.00	22.37	75	55-120
4-Nitrophenol	<1.177	80.00	69.23	87	61-120
2,4-Dinitrotoluene	<1.455	80.00	61.16	76	58-120
Pentachlorophenol	<1.288	80.00	66.49	83	56-122
Pyrene	<1.254	30.00	23.21	77	63-120

Surrogate	%REC	Limits
2-Fluorophenol	67	38-120
Phenol-d5	67	38-120
2,4,6-Tribromophenol	80	46-120
Nitrobenzene-d5	72	51-120
2-Fluorobiphenyl	56	54-120
Terphenyl-d14	65	21-120

Type: MSD Lab ID: QC778165

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	80.00	59.14	74	55-120	1	31
2-Chlorophenol	80.00	58.84	74	57-120	0	31
1,4-Dichlorobenzene	80.00	55.40	69	51-120	2	45
N-Nitroso-di-n-propylamine	80.00	55.49	69	57-120	6	28
1,2,4-Trichlorobenzene	80.00	52.82	66	62-120	5	29
4-Chloro-3-methylphenol	80.00	63.33	79	62-120	5	28
Acenaphthene	30.00	22.31	74	55-120	0	35
4-Nitrophenol	80.00	66.11	83	61-120	5	55
2,4-Dinitrotoluene	80.00	60.20	75	58-120	2	43
Pentachlorophenol	80.00	64.27	80	56-122	3	58
Pyrene	30.00	22.56	75	63-120	3	29

Surrogate	%REC	Limits
2-Fluorophenol	73	38-120
Phenol-d5	74	38-120
2,4,6-Tribromophenol	78	46-120
Nitrobenzene-d5	71	51-120
2-Fluorobiphenyl	60	54-120
Terphenyl-d14	65	21-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-23-GW	Batch#:	220667
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	2.000	Analyzed:	02/24/15

Type: MS Lab ID: QC778166

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	2.923	80.00	87.55	106	55-120
2-Chlorophenol	<1.597	80.00	65.71	82	57-120
1,4-Dichlorobenzene	<1.648	80.00	57.38	72	51-120
N-Nitroso-di-n-propylamine	<1.996	80.00	57.46	72	57-120
1,2,4-Trichlorobenzene	<1.420	80.00	59.63	75	62-120
4-Chloro-3-methylphenol	<1.366	80.00	58.76	73	62-120
Acenaphthene	<1.377	30.00	22.27	74	55-120
4-Nitrophenol	<1.177	80.00	75.54	94	61-120
2,4-Dinitrotoluene	<1.455	80.00	67.88	85	58-120
Pentachlorophenol	<1.288	80.00	68.62	86	56-122
Pyrene	<1.254	30.00	22.26	74	63-120

Surrogate	%REC	Limits
2-Fluorophenol	73	38-120
Phenol-d5	73	38-120
2,4,6-Tribromophenol	90	46-120
Nitrobenzene-d5	66	51-120
2-Fluorobiphenyl	75	54-120
Terphenyl-d14	44	21-120

Type: MSD Lab ID: QC778167

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	80.00	76.93	93	55-120	13	31
2-Chlorophenol	80.00	59.39	74	57-120	10	31
1,4-Dichlorobenzene	80.00	53.34	67	51-120	7	45
N-Nitroso-di-n-propylamine	80.00	51.97	65	57-120	10	28
1,2,4-Trichlorobenzene	80.00	54.22	68	62-120	10	29
4-Chloro-3-methylphenol	80.00	56.43	71	62-120	4	28
Acenaphthene	30.00	19.08	64	55-120	15	35
4-Nitrophenol	80.00	65.48	82	61-120	14	55
2,4-Dinitrotoluene	80.00	60.58	76	58-120	11	43
Pentachlorophenol	80.00	54.64	68	56-122	23	58
Pyrene	30.00	13.32	44 *	63-120	50 *	29

Surrogate	%REC	Limits
2-Fluorophenol	66	38-120
Phenol-d5	66	38-120
2,4,6-Tribromophenol	84	46-120
Nitrobenzene-d5	60	51-120
2-Fluorobiphenyl	66	54-120
Terphenyl-d14	15 *	21-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/18/15
Units:	ug/L	Received:	02/18/15
Diln Fac:	1.000	Prepared:	02/19/15
Batch#:	220611	Analyzed:	02/20/15

Field ID: SB-17-GW Lab ID: 264758-001
Type: SAMPLE

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	65	39-120
Decachlorobiphenyl	66	28-120

Field ID: DUP-021815 Lab ID: 264758-002
Type: SAMPLE

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	94	39-120
Decachlorobiphenyl	94	28-120

Field ID: SB-16-GW Lab ID: 264758-003
Type: SAMPLE

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	79	39-120
Decachlorobiphenyl	80	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/18/15
Units:	ug/L	Received:	02/18/15
Diln Fac:	1.000	Prepared:	02/19/15
Batch#:	220611	Analyzed:	02/20/15

Field ID: SB-15-GW Lab ID: 264758-004
Type: SAMPLE

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	78	39-120
Decachlorobiphenyl	83	28-120

Type: BLANK Lab ID: QC777925

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	68	39-120
Decachlorobiphenyl	81	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	220611
Units:	ug/L	Prepared:	02/19/15
Diln Fac:	1.000	Analyzed:	02/20/15

Type: BS Lab ID: QC777926

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	3.768	75	62-127
Aroclor-1260	5.000	3.975	79	60-135

Surrogate	%REC	Limits
TCMX	67	39-120
Decachlorobiphenyl	75	28-120

Type: BSD Lab ID: QC777927

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	3.513	70	62-127	7	29
Aroclor-1260	5.000	3.618	72	60-135	9	40

Surrogate	%REC	Limits
TCMX	64	39-120
Decachlorobiphenyl	72	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-17-GW	Diln Fac:	1.000
Lab ID:	264758-001	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/18/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	0.65	220663	02/20/15	02/20/15	EPA 6010B
Arsenic	ND	5.0	1.3	220663	02/20/15	02/20/15	EPA 6010B
Barium	57	5.0	1.0	220663	02/20/15	02/20/15	EPA 6010B
Beryllium	ND	2.0	0.30	220663	02/20/15	02/20/15	EPA 6010B
Cadmium	ND	5.0	0.58	220663	02/20/15	02/20/15	EPA 6010B
Chromium	ND	5.0	0.57	220663	02/20/15	02/20/15	EPA 6010B
Cobalt	ND	5.0	0.32	220663	02/20/15	02/20/15	EPA 6010B
Copper	ND	5.0	0.99	220663	02/20/15	02/20/15	EPA 6010B
Lead	ND	5.0	0.91	220663	02/20/15	02/20/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	14	5.0	0.40	220663	02/20/15	02/20/15	EPA 6010B
Nickel	2.5 J	5.0	0.71	220663	02/20/15	02/20/15	EPA 6010B
Selenium	ND	10	2.3	220663	02/20/15	02/20/15	EPA 6010B
Silver	ND	5.0	0.66	220663	02/20/15	02/20/15	EPA 6010B
Thallium	ND	10	2.0	220663	02/20/15	02/20/15	EPA 6010B
Vanadium	4.0 J	5.0	0.67	220663	02/20/15	02/20/15	EPA 6010B
Zinc	ND	20	3.0	220663	02/20/15	02/20/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	DUP-021815	Diln Fac:	1.000
Lab ID:	264758-002	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/18/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	0.65	220663	02/20/15	02/20/15	EPA 6010B
Arsenic	ND	5.0	1.3	220663	02/20/15	02/20/15	EPA 6010B
Barium	65	5.0	1.0	220663	02/20/15	02/20/15	EPA 6010B
Beryllium	ND	2.0	0.30	220663	02/20/15	02/20/15	EPA 6010B
Cadmium	ND	5.0	0.58	220663	02/20/15	02/20/15	EPA 6010B
Chromium	ND	5.0	0.57	220663	02/20/15	02/20/15	EPA 6010B
Cobalt	ND	5.0	0.32	220663	02/20/15	02/20/15	EPA 6010B
Copper	ND	5.0	0.99	220663	02/20/15	02/20/15	EPA 6010B
Lead	ND	5.0	0.91	220663	02/20/15	02/20/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	13	5.0	0.40	220663	02/20/15	02/20/15	EPA 6010B
Nickel	1.4 J	5.0	0.71	220663	02/20/15	02/20/15	EPA 6010B
Selenium	ND	10	2.3	220663	02/20/15	02/20/15	EPA 6010B
Silver	ND	5.0	0.66	220663	02/20/15	02/20/15	EPA 6010B
Thallium	ND	10	2.0	220663	02/20/15	02/20/15	EPA 6010B
Vanadium	4.7 J	5.0	0.67	220663	02/20/15	02/20/15	EPA 6010B
Zinc	ND	20	3.0	220663	02/20/15	02/20/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-16-GW	Diln Fac:	1.000
Lab ID:	264758-003	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/18/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	0.65	220663	02/20/15	02/20/15	EPA 6010B
Arsenic	ND	5.0	1.3	220663	02/20/15	02/20/15	EPA 6010B
Barium	56	5.0	1.0	220663	02/20/15	02/20/15	EPA 6010B
Beryllium	ND	2.0	0.30	220663	02/20/15	02/20/15	EPA 6010B
Cadmium	ND	5.0	0.58	220663	02/20/15	02/20/15	EPA 6010B
Chromium	ND	5.0	0.57	220663	02/20/15	02/20/15	EPA 6010B
Cobalt	ND	5.0	0.32	220663	02/20/15	02/20/15	EPA 6010B
Copper	ND	5.0	0.99	220663	02/20/15	02/20/15	EPA 6010B
Lead	ND	5.0	0.91	220663	02/20/15	02/20/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	52	5.0	0.40	220663	02/20/15	02/20/15	EPA 6010B
Nickel	6.7	5.0	0.71	220663	02/20/15	02/20/15	EPA 6010B
Selenium	ND	10	2.3	220663	02/20/15	02/20/15	EPA 6010B
Silver	ND	5.0	0.66	220663	02/20/15	02/20/15	EPA 6010B
Thallium	ND	10	2.0	220663	02/20/15	02/20/15	EPA 6010B
Vanadium	1.2 J	5.0	0.67	220663	02/20/15	02/20/15	EPA 6010B
Zinc	ND	20	3.0	220663	02/20/15	02/20/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-15-GW	Diln Fac:	1.000
Lab ID:	264758-004	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/18/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	0.65	220663	02/20/15	02/20/15	EPA 6010B
Arsenic	ND	5.0	1.3	220663	02/20/15	02/20/15	EPA 6010B
Barium	72	5.0	1.0	220663	02/20/15	02/20/15	EPA 6010B
Beryllium	ND	2.0	0.30	220663	02/20/15	02/20/15	EPA 6010B
Cadmium	ND	5.0	0.58	220663	02/20/15	02/20/15	EPA 6010B
Chromium	ND	5.0	0.57	220663	02/20/15	02/20/15	EPA 6010B
Cobalt	ND	5.0	0.32	220663	02/20/15	02/20/15	EPA 6010B
Copper	ND	5.0	0.99	220663	02/20/15	02/20/15	EPA 6010B
Lead	ND	5.0	0.91	220663	02/20/15	02/20/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	13	5.0	0.40	220663	02/20/15	02/20/15	EPA 6010B
Nickel	4.5 J	5.0	0.71	220663	02/20/15	02/20/15	EPA 6010B
Selenium	ND	10	2.3	220663	02/20/15	02/20/15	EPA 6010B
Silver	ND	5.0	0.66	220663	02/20/15	02/20/15	EPA 6010B
Thallium	ND	10	2.0	220663	02/20/15	02/20/15	EPA 6010B
Vanadium	3.3 J	5.0	0.67	220663	02/20/15	02/20/15	EPA 6010B
Zinc	ND	20	3.0	220663	02/20/15	02/20/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778145	Batch#:	220663
Matrix:	Filtrate	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Antimony	0.99 J	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	1.3 J	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	ND	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	ND	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778146	Batch#:	220663
Matrix:	Filtrate	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	ND	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	ND	20	3.0

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778147	Batch#:	220663
Matrix:	Filtrate	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	ND	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	3.8 J	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	220663
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/20/15

Type: BS Lab ID: QC778148

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.64	98	79-120
Arsenic	100.0	96.06	96	80-120
Barium	100.0	99.87	100	80-120
Beryllium	100.0	96.97	97	80-120
Cadmium	100.0	103.4	103	80-120
Chromium	100.0	98.15	98	80-120
Cobalt	100.0	96.55	97	80-120
Copper	100.0	82.40	82	80-120
Lead	100.0	94.34	94	80-120
Molybdenum	100.0	98.09	98	80-120
Nickel	100.0	95.79	96	80-120
Selenium	100.0	106.0	106	80-120
Silver	100.0	98.51	99	77-120
Thallium	50.00	53.02	106	80-121
Vanadium	100.0	99.42	99	80-120
Zinc	100.0	98.76	99	80-120

Type: BSD Lab ID: QC778149

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	102.8	103	79-120	5	20
Arsenic	100.0	98.34	98	80-120	2	20
Barium	100.0	105.8	106	80-120	6	20
Beryllium	100.0	100.3	100	80-120	3	20
Cadmium	100.0	108.5	108	80-120	5	20
Chromium	100.0	104.4	104	80-120	6	20
Cobalt	100.0	100.9	101	80-120	4	20
Copper	100.0	88.73	89	80-120	7	20
Lead	100.0	98.63	99	80-120	4	20
Molybdenum	100.0	103.1	103	80-120	5	20
Nickel	100.0	99.32	99	80-120	4	20
Selenium	100.0	109.3	109	80-120	3	20
Silver	100.0	103.8	104	77-120	5	20
Thallium	50.00	52.23	104	80-121	1	20
Vanadium	100.0	104.7	105	80-120	5	20
Zinc	100.0	100.9	101	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	220663
MSS Lab ID:	264784-002	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	10.00	Analyzed:	02/23/15

Type: MS Lab ID: QC778150

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<23.48	100.0	77.72	78	74-120
Arsenic	<10.28	100.0	88.52	89	80-127
Barium	169.7	100.0	259.4	90	80-120
Beryllium	<1.463	100.0	87.61	88	80-120
Cadmium	<2.822	100.0	89.90	90	80-120
Chromium	261.3	100.0	367.7	106	80-120
Cobalt	<8.861	100.0	87.51	88	80-120
Copper	7.481	100.0	80.65	73 *	80-120
Lead	<13.06	100.0	60.03	60 *	67-120
Molybdenum	<5.528	100.0	23.16	23 *	80-120
Nickel	<7.500	100.0	80.26	80	80-120
Selenium	<23.08	100.0	127.4	127	73-132
Silver	<11.26	100.0	91.03	91	67-120
Thallium	<27.77	50.00	58.77	DO	76-121
Vanadium	<7.199	100.0	88.43	88	80-120
Zinc	<28.30	100.0	78.58	DO	80-122

Type: MSD Lab ID: QC778151

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.36	93	74-120	18	24
Arsenic	100.0	94.55	95	80-127	7	25
Barium	100.0	281.4	112	80-120	8	20
Beryllium	100.0	96.58	97	80-120	10	20
Cadmium	100.0	97.63	98	80-120	8	20
Chromium	100.0	385.3	124 *	80-120	5	20
Cobalt	100.0	96.96	97	80-120	10	20
Copper	100.0	90.51	83	80-120	12	20
Lead	100.0	72.97	73	67-120	19	23
Molybdenum	100.0	27.48	27 *	80-120	17	20
Nickel	100.0	92.90	93	80-120	15	20
Selenium	100.0	139.7	140 *	73-132	9	30
Silver	100.0	98.04	98	67-120	7	22
Thallium	50.00	54.39	DO	76-121	NC	20
Vanadium	100.0	97.83	98	80-120	10	20
Zinc	100.0	87.42	DO	80-122	NC	20

*= Value outside of QC limits; see narrative
DO= Diluted Out
NC= Not Calculated
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220745
Lab ID:	QC778464	Prepared:	02/24/15
Matrix:	Filtrate	Analyzed:	02/24/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.040

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220745
Lab ID:	QC778465	Prepared:	02/24/15
Matrix:	Filtrate	Analyzed:	02/24/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.040

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220745
Matrix:	Water	Prepared:	02/24/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC778466	2.500	2.454	98	80-120		
BSD	QC778467	2.500	2.378	95	80-120	3	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220745
Field ID:	SB-23-GW	Sampled:	02/19/15
MSS Lab ID:	264791-001	Received:	02/19/15
Matrix:	Filtrate	Prepared:	02/24/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC778468	0.04164	2.500	2.684	106	60-130		
MSD	QC778469		2.500	2.454	97	60-130	9	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Matrix:	Water	Batch#:	220560
Units:	mg/L	Received:	02/18/15

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
SB-17-GW	SAMPLE	264758-001	ND	0.01	02/18/15 10:30	02/18/15 17:52
DUP-021815	SAMPLE	264758-002	ND	0.01	02/18/15	02/18/15 17:52
SB-16-GW	SAMPLE	264758-003	ND	0.01	02/18/15 14:20	02/18/15 17:52
SB-15-GW	SAMPLE	264758-004	ND	0.01	02/18/15 14:45	02/18/15 17:52
	BLANK	QC777733	ND	0.01		02/18/15 12:55

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264758	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	220560
MSS Lab ID:	264721-001	Sampled:	02/17/15 17:30
Matrix:	Water	Received:	02/17/15
Units:	mg/L	Analyzed:	02/18/15 12:55

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC777734		1.053	1.094	104	90-110		
MS	QC777735	<0.01000	1.053	1.076	102	85-115		
MSD	QC777736		1.053	1.092	104	85-115	1	23

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 264783
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
SB-11-2.0-2.5	264783-001
SB-11-9.5-10.0	264783-002
SB-18-5.0-6.0	264783-003
SB-18-9.0-10.0	264783-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/05/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264783**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/19/15**
Samples Received:	**02/19/15**

This data package contains sample and QC results for four soil samples, requested for the above referenced project on 02/19/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220641; this analyte was not detected in samples at or above the RL. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220749; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
SB-11-2.0-2.5 (lab # 264783-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
1,2,4-trichlorobenzene was detected between the MDL and the RL in the method blank for batch 220630; this analyte was not detected in samples at or above the RL. Methylene chloride was detected between the MDL and the RL in SB-18-9.0-10.0 (lab # 264783-004); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
SB-11-2.0-2.5 (lab # 264783-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recoveries were observed for chromium and vanadium in the MSD of SB-11-9.5-10.0 (lab # 264783-002); the BS/BSD were within limits, and the associated RPDs were within limits. High RPD was observed for barium in the MS/MSD of SB-11-9.5-10.0 (lab # 264783-002); the RPD was acceptable in the BS/BSD. Zinc was detected between the MDL and the RL in the method blank for batch 220753; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264783**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/19/15**
Samples Received:	**02/19/15**

Hexavalent Chromium (EPA 7196A):

Low recovery was observed for hexavalent chromium in the matrix spike of SB-11-9.5-10.0 (lab # 264783-002); the LCS was within limits. High RPD was observed for hexavalent chromium in the SDUP of SB-11-9.5-10.0 (lab # 264783-002). No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

CHAIN OF CUSTODY

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Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 2404783

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 02 0072
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: C. Cyler
Report To: B. DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	Sampling Date Collected	Sampling Time Collected	Matrix Water	Matrix Solid	# of Containers	Chemical Preservative HCl	H2SO4	HNO3	NaOH	None	TPHg	TPHd	TPHmo	Full list of WCS	SVOCs	Title 22 metals	Cr VI	PCBs	MS/MSD
	SB-11-2.0-2.5	2/19/15	1410		X	6	1				5	X	X	X	X	X	X	X	X	
	SB-11-9.5-10.0	2/19/15	1420		X	13 6	3				15	X	X	X	X	X	X	X	X	X
	SB-12-5.0-6.0	2/19/15	1540		X	6	1				5	X	X	X	X	X	X	X	X	
	SB-18-9.0-10.0	2/19/15	1600		X	6	1				5	X	X	X	X	X	X	X	X	

Notes:
- Report all to MDL
- Report in dry weight w/ % moisture
- EDF required.

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 2/19/15 TIME: 1630
DATE: 2/19/15 TIME: 1705
DATE: TIME:

RECEIVED BY:
DATE: 2/19/15 TIME: 1630
DATE: 2/19/15 TIME: 1705
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 2647853 Date Received 2/19/15 Number of coolers 2
Client Integral Project C1374

Date Opened 2/19 By (print) " FJ " (sign) " FJ "
Date Logged in " " By (print) " " (sign) " "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) ____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ (YES) NO
   If YES, what time were they transferred to freezer? 1905
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are there any missing / extra samples? ____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
12. Are sample labels present, in good condition and complete? ____ (YES) NO
13. Do the sample labels agree with custody papers? ____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? ____ (YES) NO
15. Are the samples appropriately preserved? ____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO (N/A)
17. Did you document your preservative check? ____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ (YES) NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 264783

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : SB-11-2.0-2.5 Laboratory Sample ID : 264783-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	23	Y	6.0	1.8	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	130		30	9.0	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Trichloroethene	4.7	J	4.8	0.70	ug/Kg	Dry	0.8104	EPA 8260B	EPA 5035
Aroclor-1260	2.9	J	11	1.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Antimony	0.35	J	0.56	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.1		0.28	0.092	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	160		0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.43		0.11	0.021	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.4		0.28	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	44		0.28	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	9.3		0.28	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	44		0.29	0.096	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	120		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.021	J	0.094	0.0062	mg/Kg	Dry	5.000	EPA 7471A	METHOD
Molybdenum	0.24	J	0.28	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	48		0.28	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	38		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	270		1.1	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : SB-11-9.5-10.0 Laboratory Sample ID : 264783-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.033	J	0.19	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.81	J	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
cis-1,2-Dichloroethene	2.6	J	4.8	0.54	ug/Kg	Dry	0.8183	EPA 8260B	EPA 5035
Trichloroethene	30		4.8	0.69	ug/Kg	Dry	0.8183	EPA 8260B	EPA 5035
Arsenic	8.6		0.32	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	480		0.32	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.34		0.13	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.39		0.32	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	38		0.32	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	19		0.32	0.025	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	16		0.33	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	5.1		0.32	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.043		0.021	0.0014	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.14	J	0.32	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	48		0.32	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.57	J	0.64	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	34		0.32	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	27		1.3	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Hexavalent Chromium	0.65		0.47	0.15	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : SB-18-5.0-6.0 Laboratory Sample ID : 264783-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.32	Y	0.20	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	890	Y	12	3.6	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550B
Motor Oil C24-C36	4,800		59	18	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550B
Acetone	6.5	J	17	2.9	ug/Kg	Dry	0.7440	EPA 8260B	EPA 5035
cis-1,2-Dichloroethene	0.80	J	4.3	0.49	ug/Kg	Dry	0.7440	EPA 8260B	EPA 5035
Trichloroethene	7.7		4.3	0.63	ug/Kg	Dry	0.7440	EPA 8260B	EPA 5035
Tetrachloroethene	5.4		4.3	0.55	ug/Kg	Dry	0.7440	EPA 8260B	EPA 5035
Aroclor-1260	3.3	J	11	1.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Arsenic	2.8		0.28	0.095	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	62		0.28	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.26		0.11	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.24	J	0.28	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	37		0.28	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	4.4		0.28	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	12		0.30	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	3.5		0.28	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.036		0.019	0.0013	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Nickel	39		0.28	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	24		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	21		1.1	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	14		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : SB-18-9.0-10.0 Laboratory Sample ID : 264783-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.015	J	0.17	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	200	Y	6.0	1.8	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	970		30	9.1	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Methylene Chloride	1.1	J	17	0.91	ug/Kg	Dry	0.7092	EPA 8260B	EPA 5035
trans-1,2-Dichloroethene	3.0	J	4.2	0.57	ug/Kg	Dry	0.7092	EPA 8260B	EPA 5035
cis-1,2-Dichloroethene	6.8		4.2	0.48	ug/Kg	Dry	0.7092	EPA 8260B	EPA 5035
Trichloroethene	3.1	J	4.2	0.61	ug/Kg	Dry	0.7092	EPA 8260B	EPA 5035
bis(2-Ethylhexyl)phthalate	14	J	390	10	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Aroclor-1260	6.5	J	11	1.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Arsenic	10		0.31	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	150		0.31	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.30		0.12	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.55		0.31	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	51		0.31	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.1		0.31	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	17		0.32	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	4.4		0.31	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.063		0.020	0.0013	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.14	J	0.31	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	38		0.31	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	34		0.31	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	37		1.2	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Hexavalent Chromium	2.3		0.46	0.15	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A
Moisture, Percent	16		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/19/15
Basis:	dry	Received:	02/19/15

Field ID:	SB-11-2.0-2.5	Moisture:	16%
Type:	SAMPLE	Batch#:	220641
Lab ID:	264783-001	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.21	0.016

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Field ID:	SB-11-9.5-10.0	Moisture:	14%
Type:	SAMPLE	Batch#:	220641
Lab ID:	264783-002	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.033 J	0.19	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	78-138

Field ID:	SB-18-5.0-6.0	Moisture:	14%
Type:	SAMPLE	Batch#:	220749
Lab ID:	264783-003	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.32 Y	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/19/15
Basis:	dry	Received:	02/19/15

Field ID:	SB-18-9.0-10.0	Moisture:	16%
Type:	SAMPLE	Batch#:	220641
Lab ID:	264783-004	Analyzed:	02/20/15

Analyte	Result		RL	MDL
Gasoline C7-C12	0.015	J	0.17	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	78-138

Type:	BLANK	Batch#:	220641
Lab ID:	QC778054	Analyzed:	02/20/15

Analyte	Result		RL	MDL
Gasoline C7-C12	0.017	J	0.20	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	78-138

Type:	BLANK	Batch#:	220749
Lab ID:	QC778484	Analyzed:	02/24/15

Analyte	Result		RL	MDL
Gasoline C7-C12	0.031	J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778053	Batch#:	220641
Matrix:	Soil	Analyzed:	02/20/15
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.024	102	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	SB-11-9.5-10.0	Diln Fac:	1.000
MSS Lab ID:	264783-002	Batch#:	220641
Matrix:	Soil	Sampled:	02/19/15
Units:	mg/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Type: MS Moisture: 14%
Lab ID: QC778055

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.03331	1.820	1.675	90	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	78-138

Type: MSD Moisture: 14%
Lab ID: QC778056

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.834	1.598	85	50-120	6	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

RPD= Relative Percent Difference

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Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778483	Batch#:	220749
Matrix:	Soil	Analyzed:	02/24/15
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.076	108	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

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Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	264826-004	Batch#:	220749
Matrix:	Soil	Sampled:	02/18/15
Units:	mg/Kg	Received:	02/20/15
Basis:	as received	Analyzed:	02/24/15

Type: MS Lab ID: QC778485

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1609	9.346	9.067	95	50-120

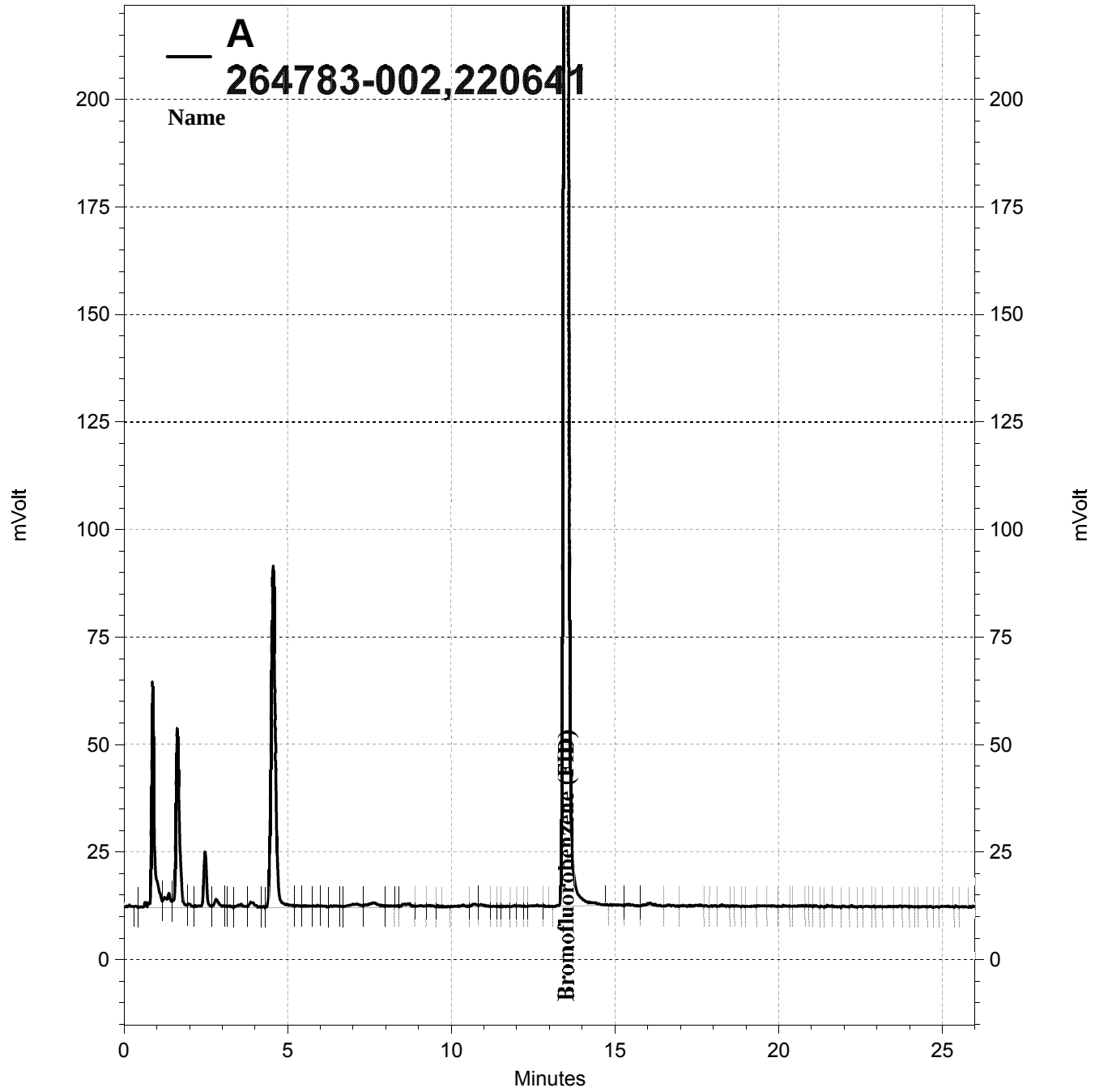
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	78-138

Type: MSD Lab ID: QC778486

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	9.879	96	50-120	1	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	78-138

RPD= Relative Percent Difference



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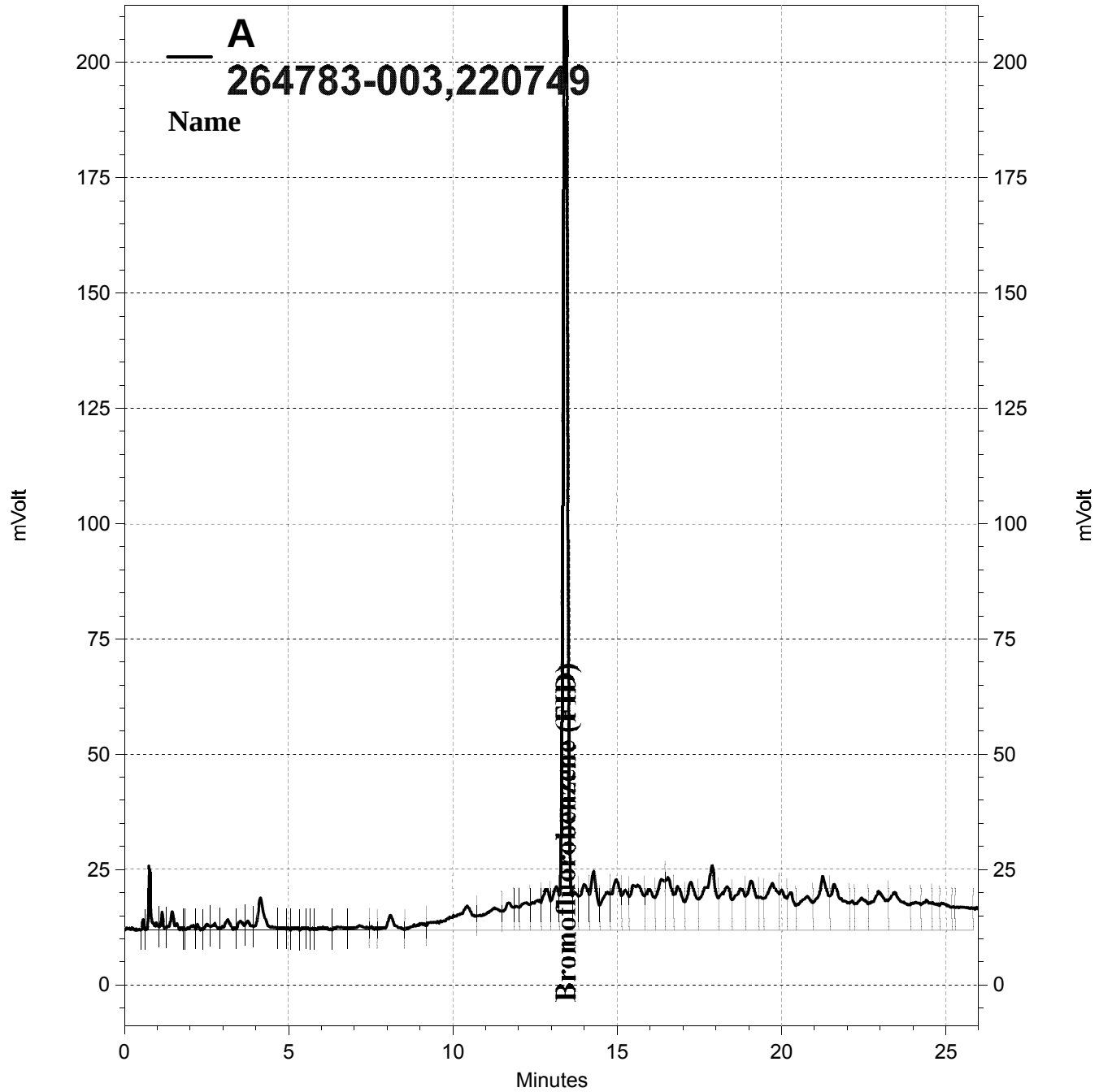

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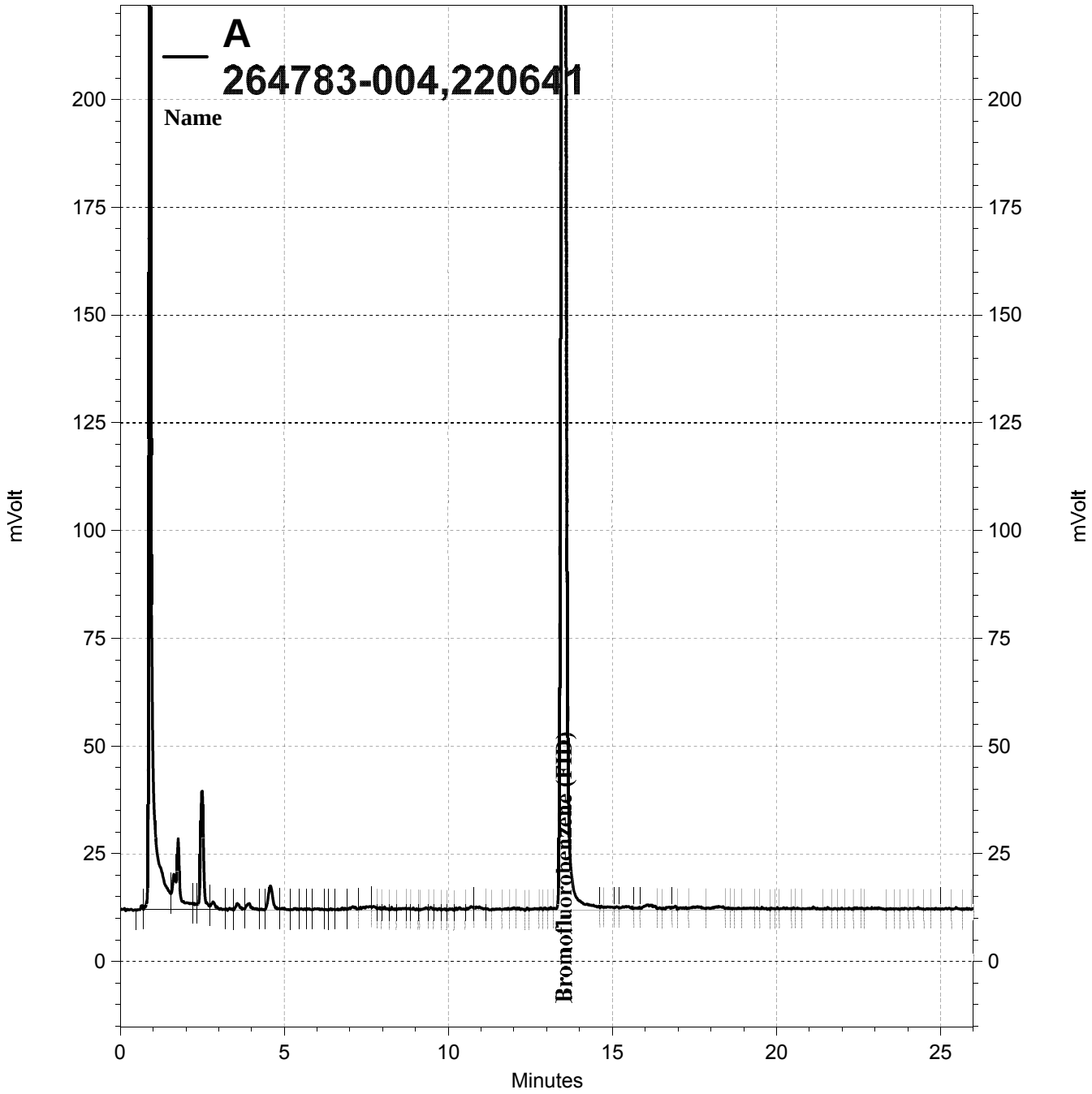

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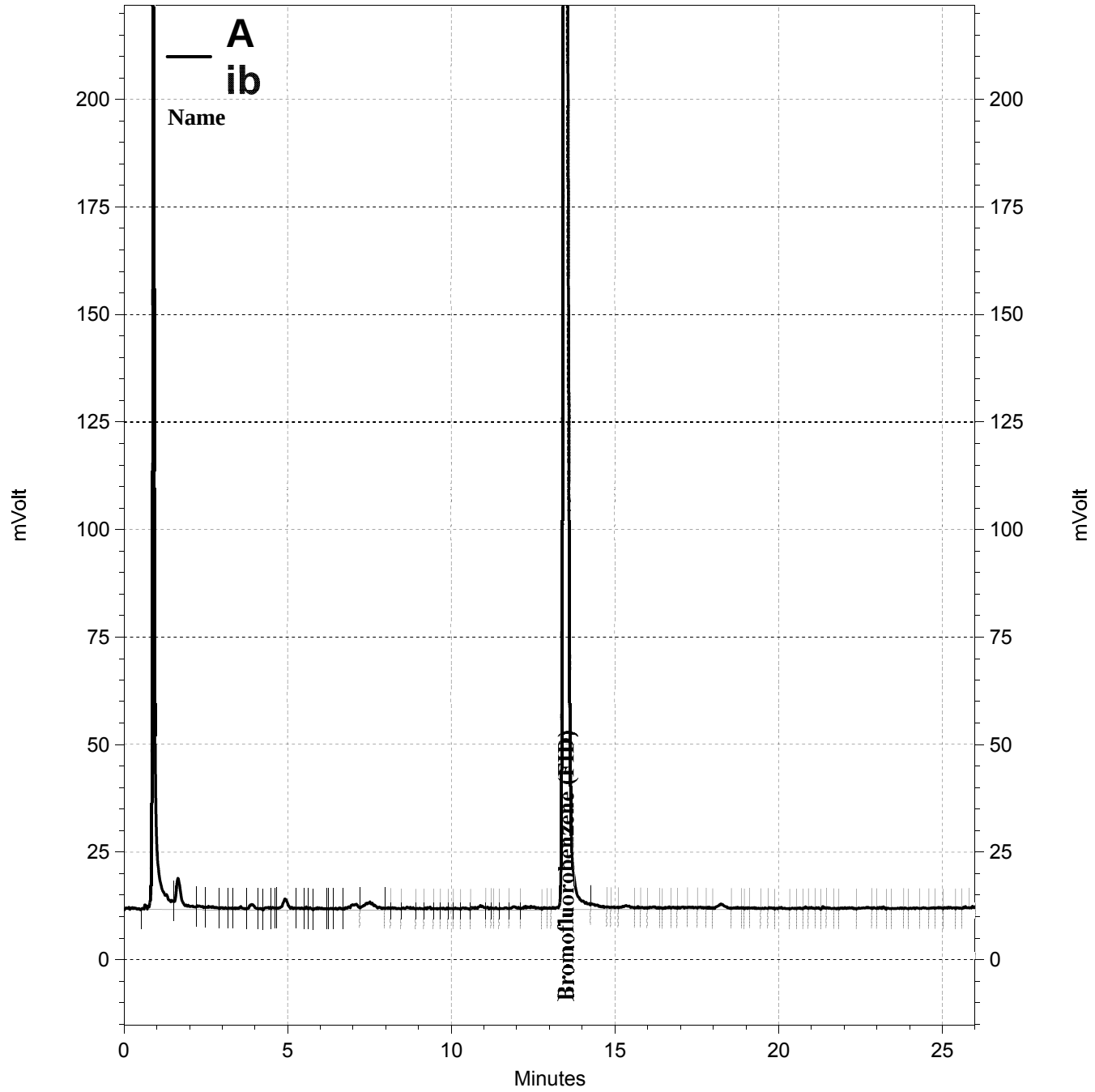

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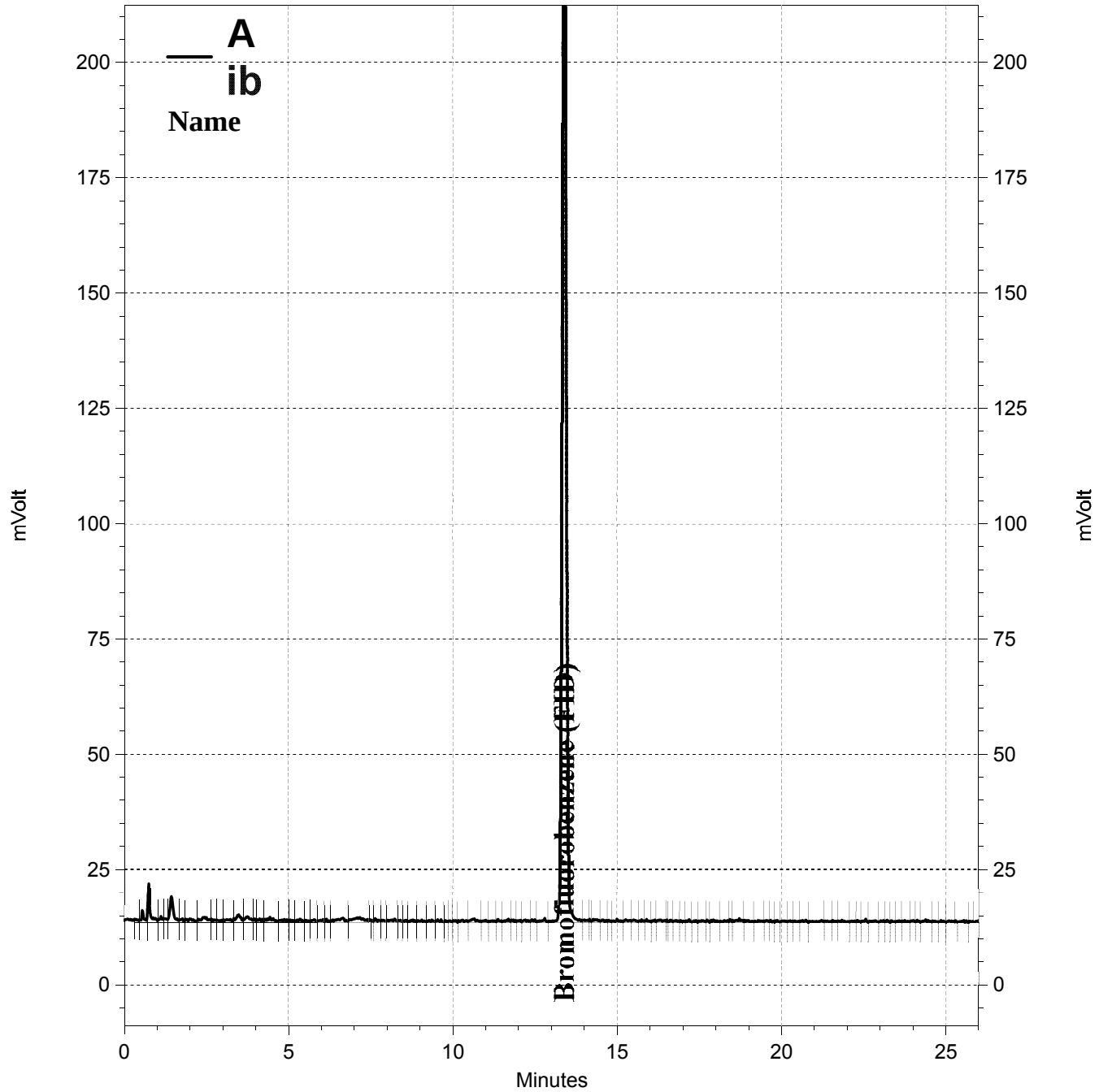

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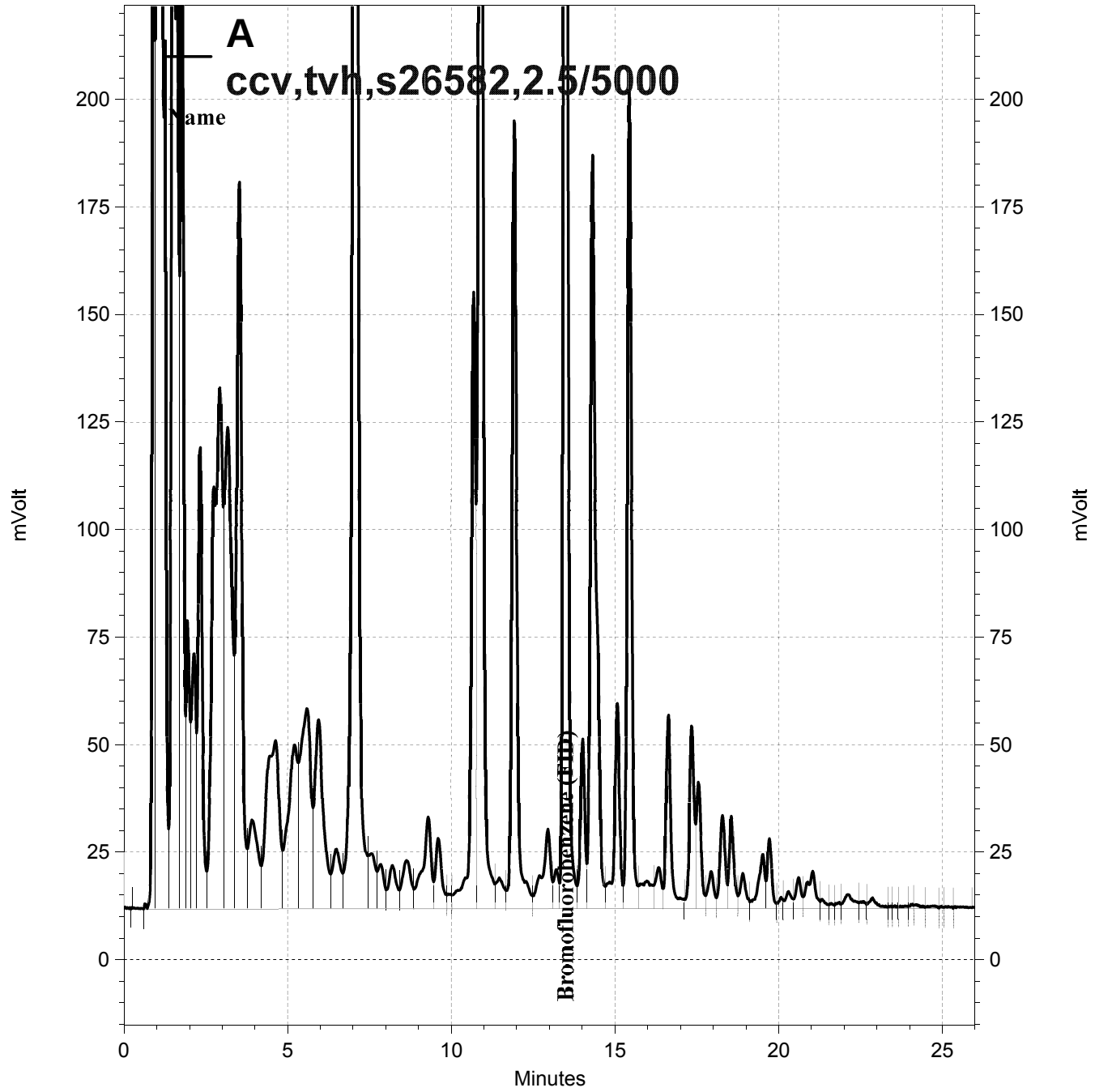

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/19/15
Units:	mg/Kg	Received:	02/19/15
Basis:	dry	Prepared:	02/24/15
Batch#:	220752	Analyzed:	02/25/15

Field ID: SB-11-2.0-2.5 Moisture: 16%
Type: SAMPLE Diln Fac: 5.000
Lab ID: 264783-001

Analyte	Result	RL	MDL
Diesel C10-C24	23 Y	6.0	1.8
Motor Oil C24-C36	130	30	9.0

Surrogate	%REC	Limits
o-Terphenyl	81	59-140

Field ID: SB-11-9.5-10.0 Moisture: 14%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 264783-002

Analyte	Result	RL	MDL
Diesel C10-C24	0.81 J	1.2	0.35
Motor Oil C24-C36	ND	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	89	59-140

Field ID: SB-18-5.0-6.0 Moisture: 14%
Type: SAMPLE Diln Fac: 10.00
Lab ID: 264783-003

Analyte	Result	RL	MDL
Diesel C10-C24	890 Y	12	3.6
Motor Oil C24-C36	4,800	59	18

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Field ID: SB-18-9.0-10.0 Moisture: 16%
Type: SAMPLE Diln Fac: 5.000
Lab ID: 264783-004

Analyte	Result	RL	MDL
Diesel C10-C24	200 Y	6.0	1.8
Motor Oil C24-C36	970	30	9.1

Surrogate	%REC	Limits
o-Terphenyl	86	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/19/15
Units:	mg/Kg	Received:	02/19/15
Basis:	dry	Prepared:	02/24/15
Batch#:	220752	Analyzed:	02/25/15

Type: BLANK
Lab ID: QC778505
Diln Fac: 1.000

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	77	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778506	Batch#:	220752
Matrix:	Soil	Prepared:	02/24/15
Units:	mg/Kg	Analyzed:	02/25/15

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.36	34.32	68	58-137

Surrogate	%REC	Limits
o-Terphenyl	70	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	SB-11-9.5-10.0	Batch#:	220752
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: MS Moisture: 14%
Lab ID: QC778507

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.8143	58.58	54.95	92	46-154

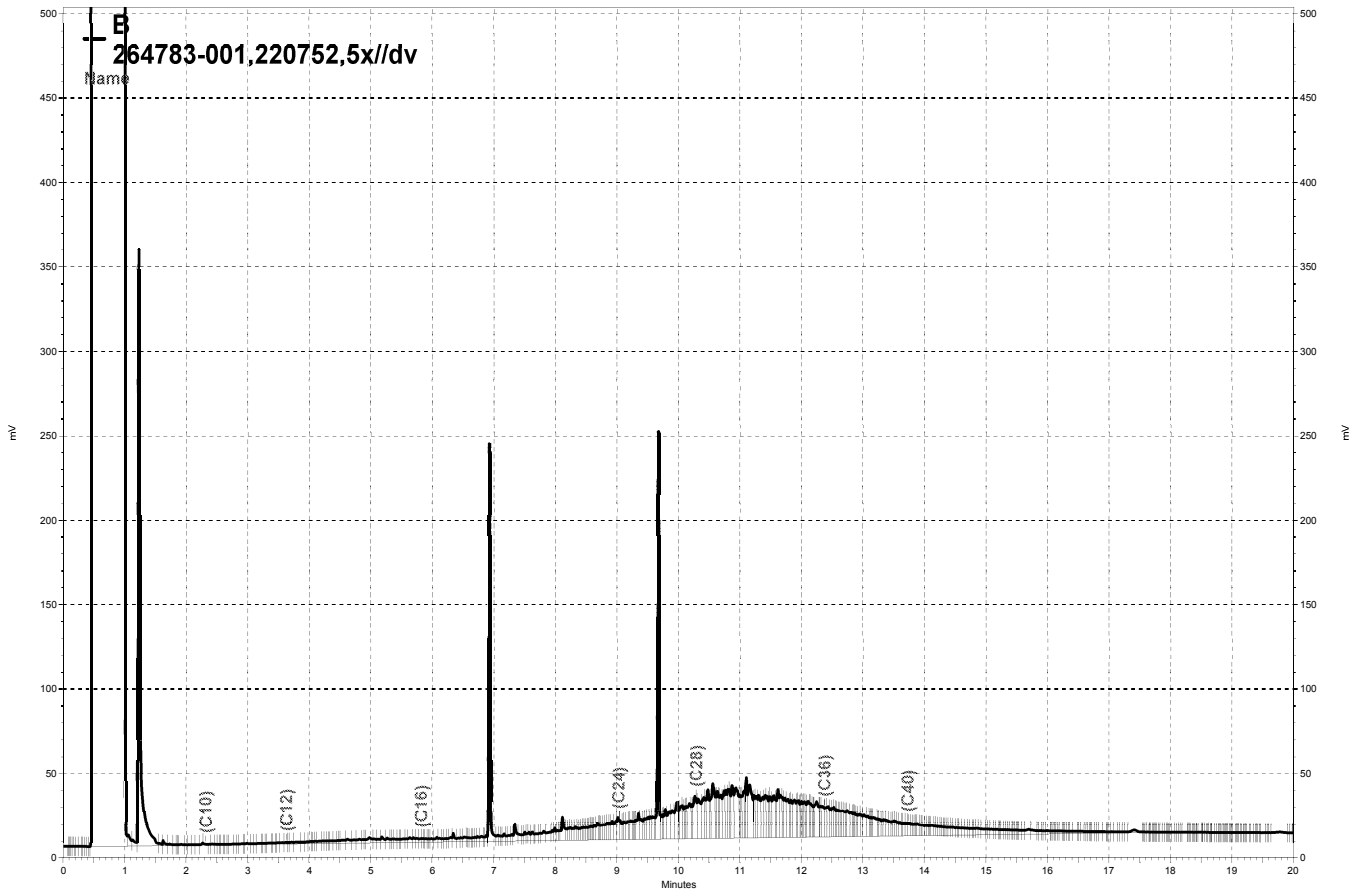
Surrogate	%REC	Limits
o-Terphenyl	95	59-140

Type: MSD Moisture: 14%
Lab ID: QC778508

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	57.99	56.17	95	46-154	3	50

Surrogate	%REC	Limits
o-Terphenyl	96	59-140

RPD= Relative Percent Difference



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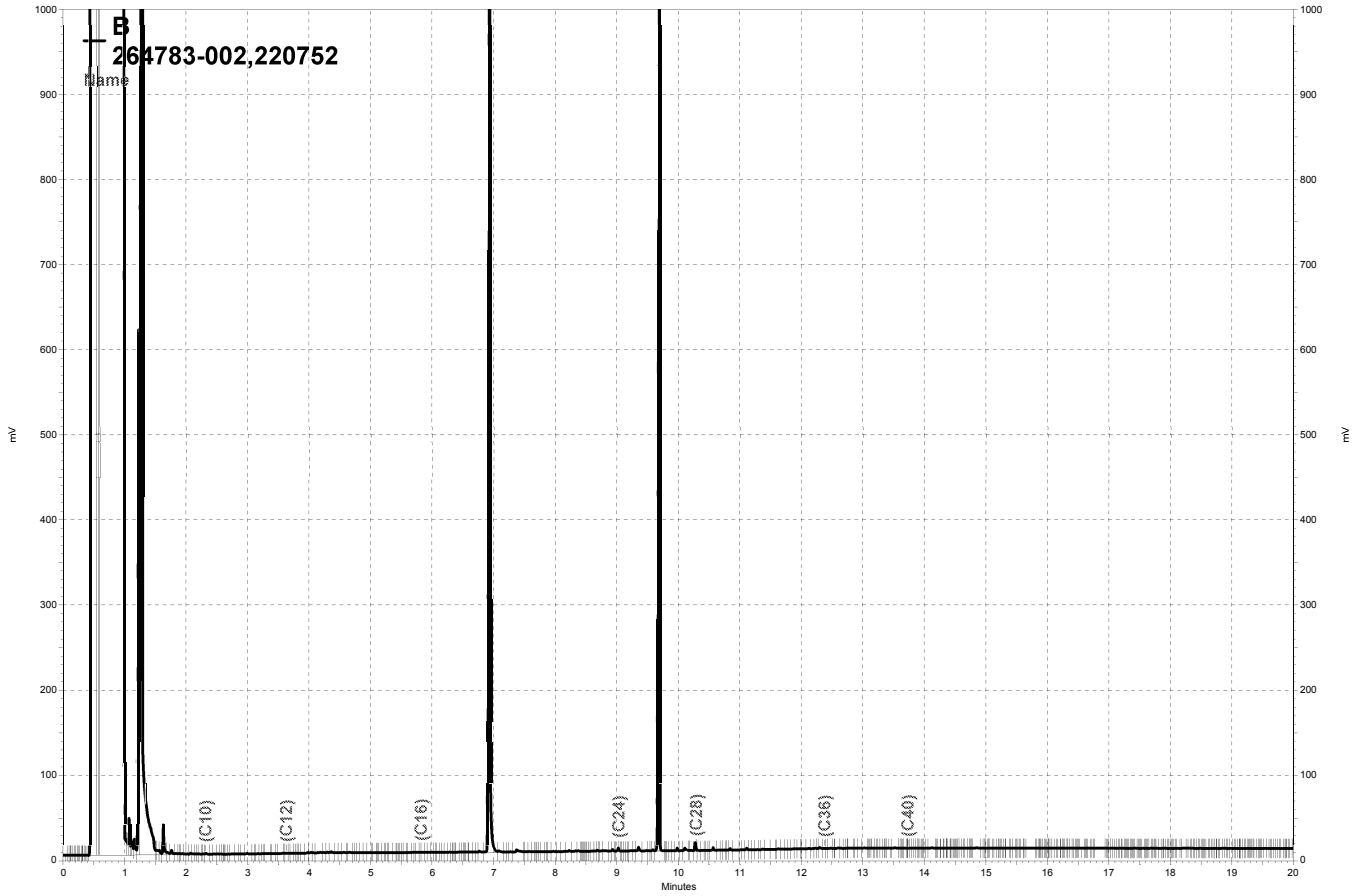

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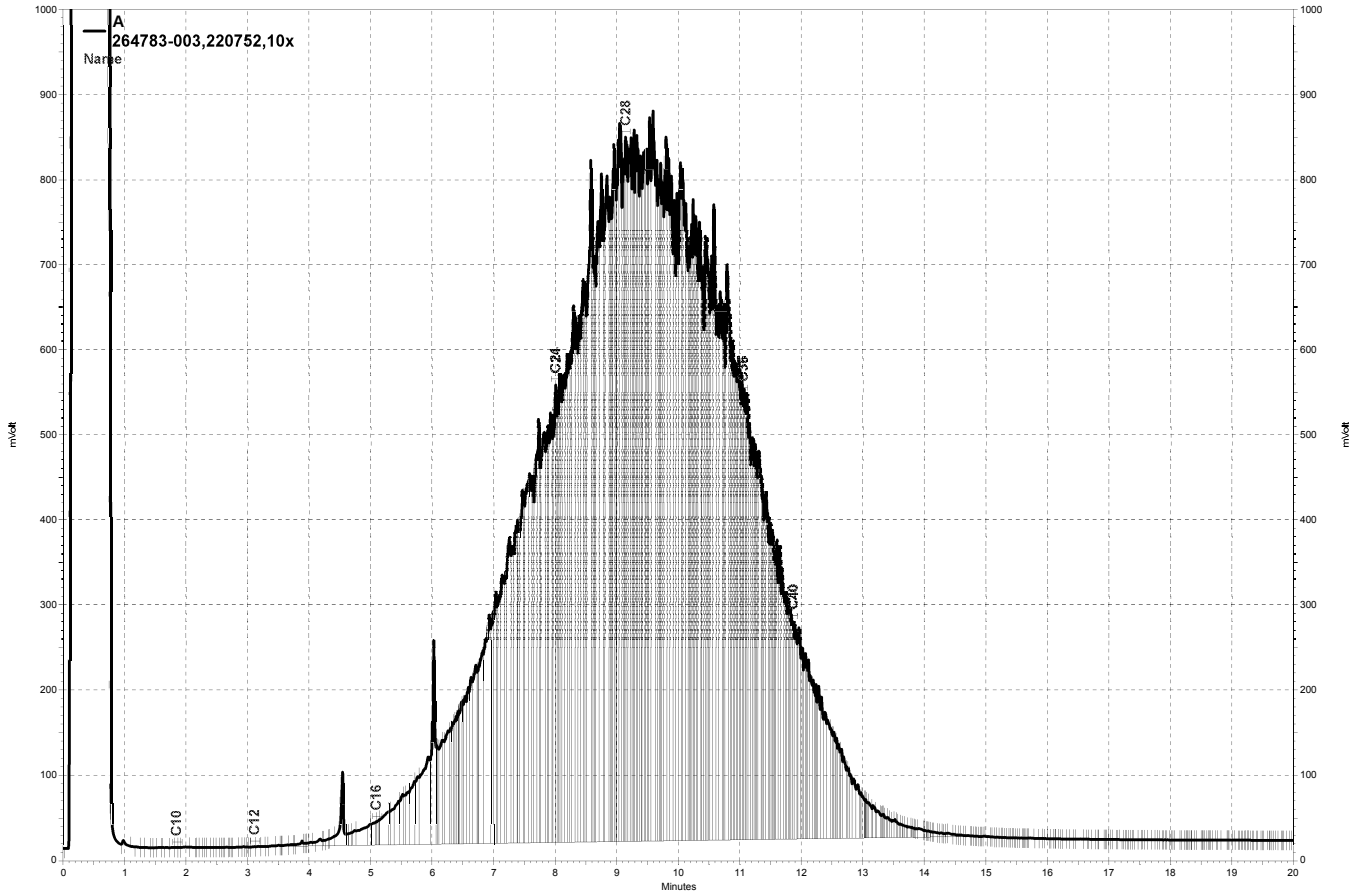

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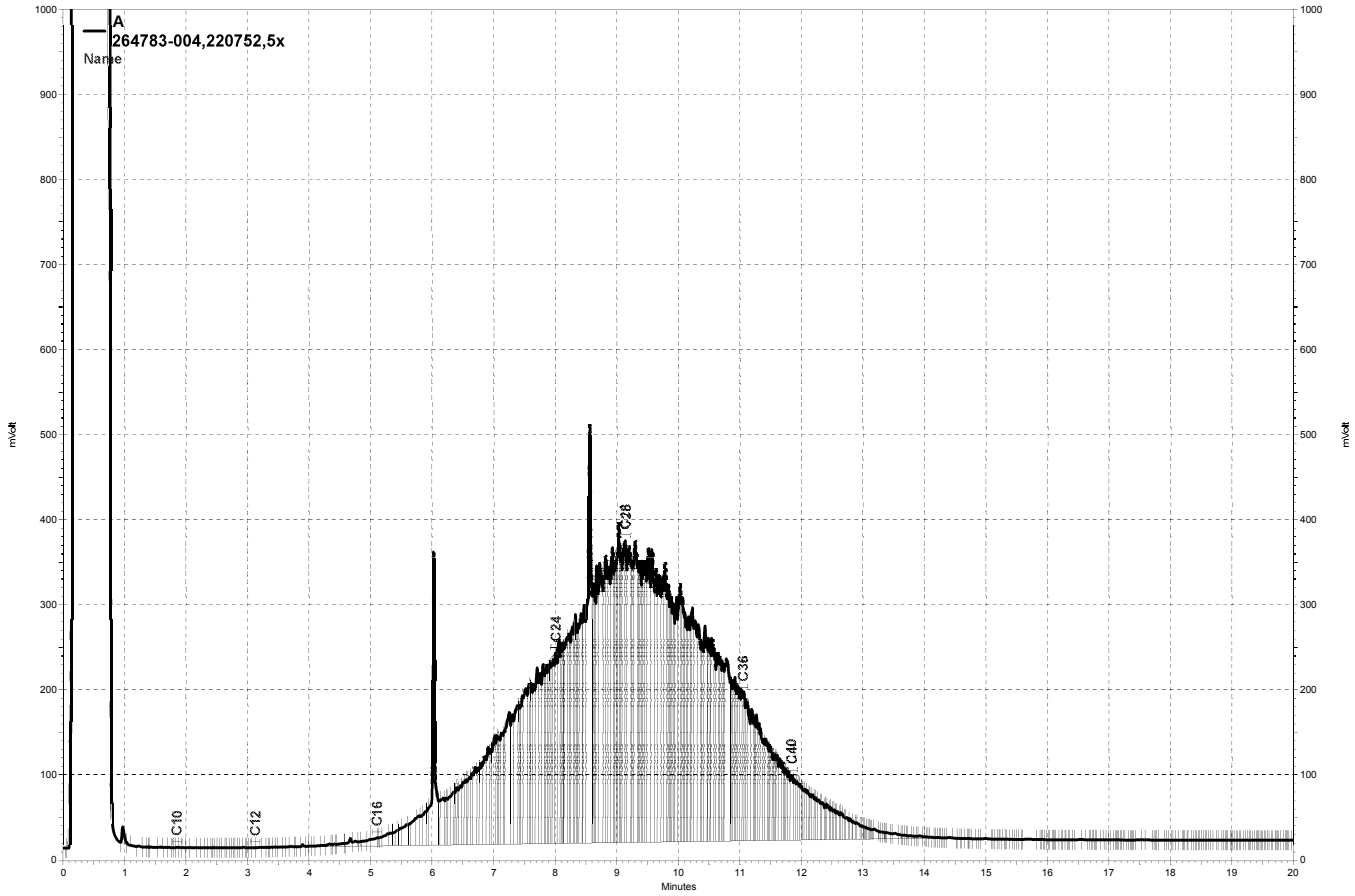

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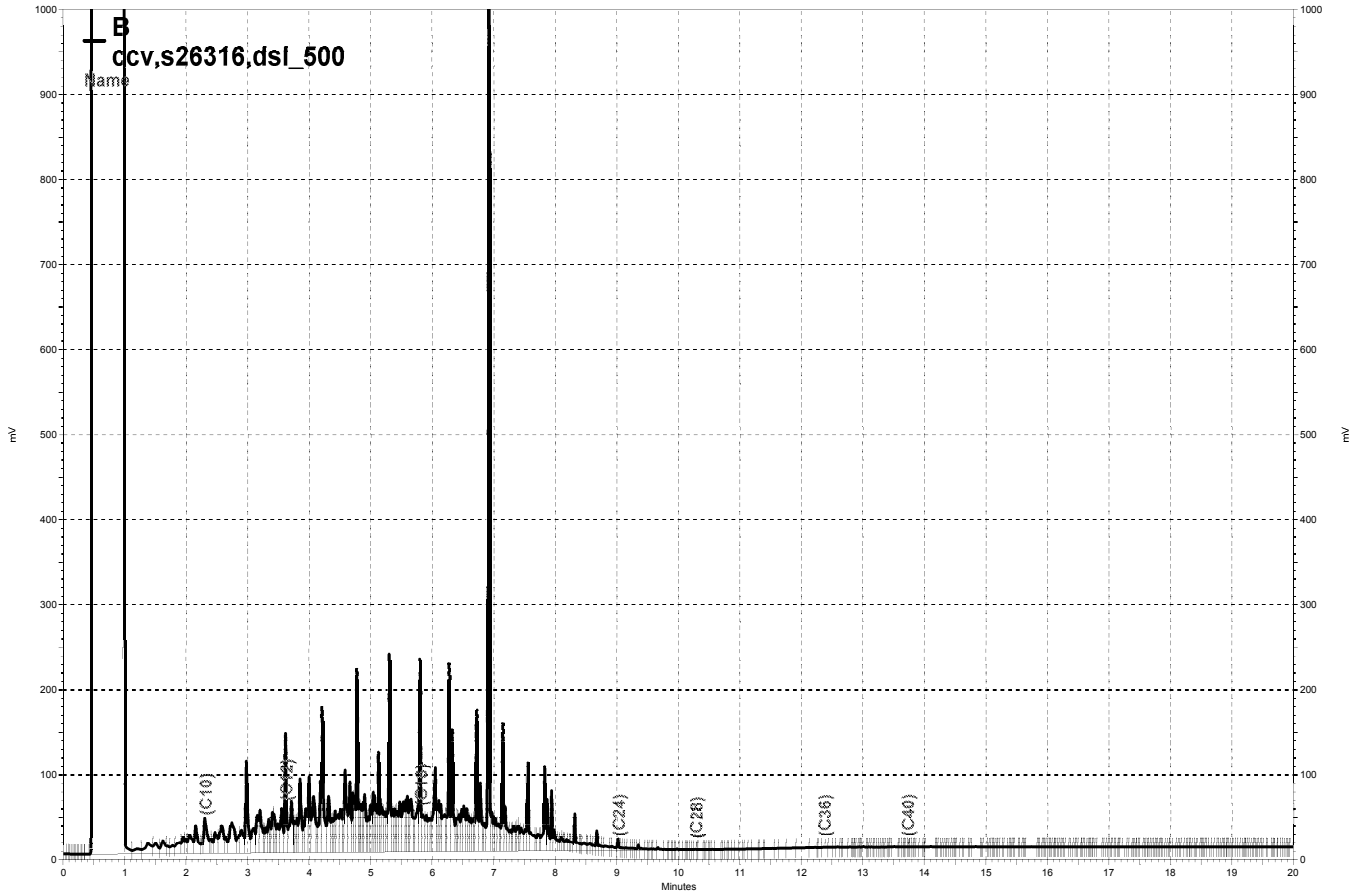

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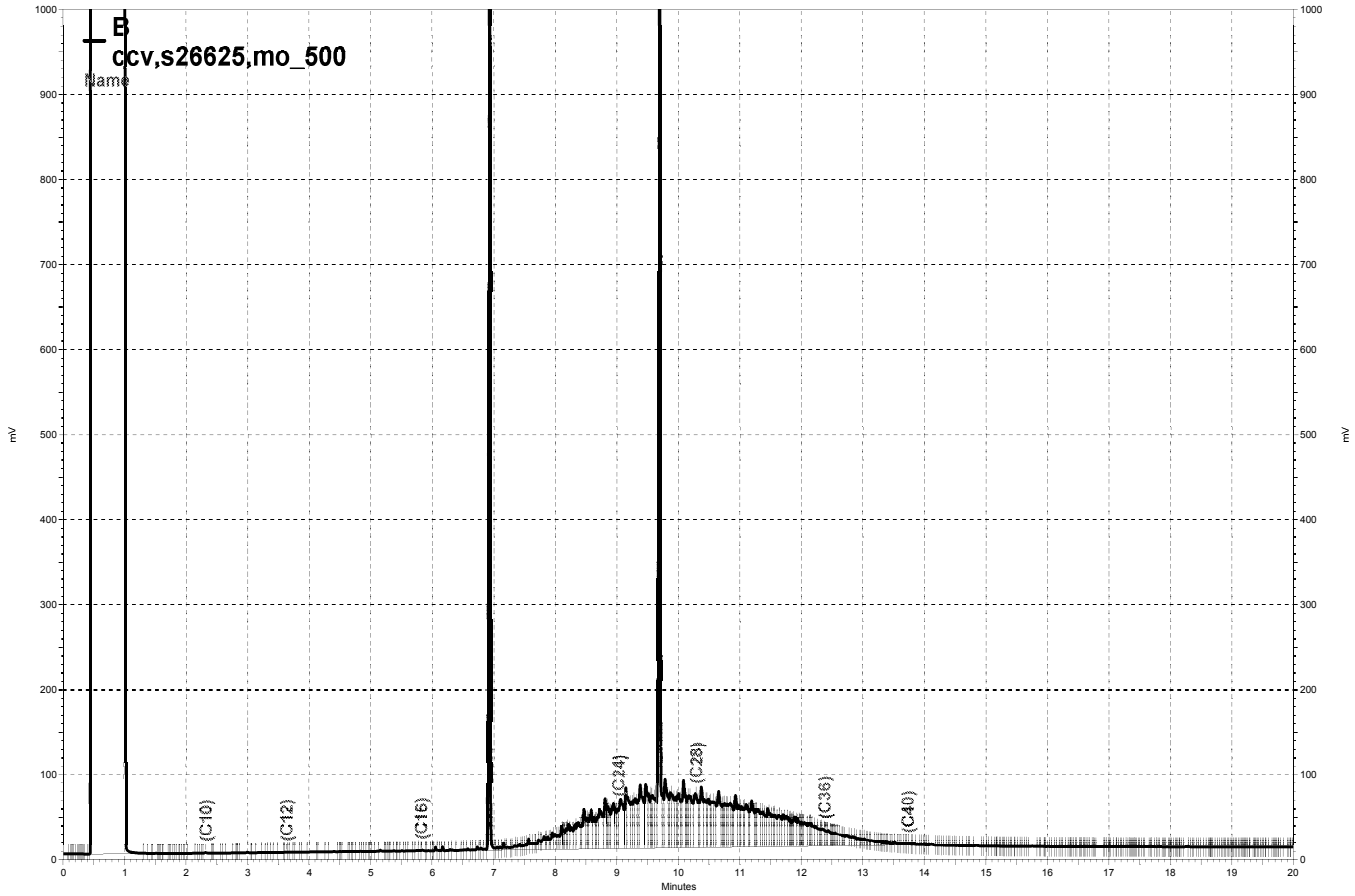

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-2.0-2.5	Diln Fac:	0.8104
Lab ID:	264783-001	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	9.6	0.62
Chloromethane	ND	9.6	0.47
Vinyl Chloride	ND	9.6	0.40
Bromomethane	ND	9.6	0.35
Chloroethane	ND	9.6	0.38
Trichlorofluoromethane	ND	4.8	0.29
Acetone	ND	19	3.2
Freon 113	ND	4.8	0.50
1,1-Dichloroethene	ND	4.8	0.58
Methylene Chloride	ND	19	1.0
Carbon Disulfide	ND	4.8	0.64
MTBE	ND	4.8	0.47
trans-1,2-Dichloroethene	ND	4.8	0.66
Vinyl Acetate	ND	48	0.51
1,1-Dichloroethane	ND	4.8	0.74
2-Butanone	ND	9.6	0.65
cis-1,2-Dichloroethene	ND	4.8	0.55
2,2-Dichloropropane	ND	4.8	0.57
Chloroform	ND	4.8	0.67
Bromochloromethane	ND	4.8	0.11
1,1,1-Trichloroethane	ND	4.8	0.63
1,1-Dichloropropene	ND	4.8	0.63
Carbon Tetrachloride	ND	4.8	0.57
1,2-Dichloroethane	ND	4.8	0.60
Benzene	ND	4.8	0.67
Trichloroethene	4.7 J	4.8	0.70
1,2-Dichloropropane	ND	4.8	0.56
Bromodichloromethane	ND	4.8	0.52
Dibromomethane	ND	4.8	0.22
4-Methyl-2-Pentanone	ND	9.6	0.57
cis-1,3-Dichloropropene	ND	4.8	0.39
Toluene	ND	4.8	0.74
trans-1,3-Dichloropropene	ND	4.8	0.41
1,1,2-Trichloroethane	ND	4.8	0.46
2-Hexanone	ND	9.6	0.60
1,3-Dichloropropane	ND	4.8	0.48
Tetrachloroethene	ND	4.8	0.62
Dibromochloromethane	ND	4.8	0.47
1,2-Dibromoethane	ND	4.8	0.49
Chlorobenzene	ND	4.8	0.60
1,1,1,2-Tetrachloroethane	ND	4.8	0.51
Ethylbenzene	ND	4.8	0.69
m,p-Xylenes	ND	4.8	1.3
o-Xylene	ND	4.8	0.57
Styrene	ND	4.8	0.50
Bromoform	ND	4.8	0.22
Isopropylbenzene	ND	4.8	0.63
1,1,2,2-Tetrachloroethane	ND	4.8	0.50
1,2,3-Trichloropropane	ND	4.8	0.59
Propylbenzene	ND	4.8	0.64

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-2.0-2.5	Diln Fac:	0.8104
Lab ID:	264783-001	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Bromobenzene	ND	4.8	0.21
1,3,5-Trimethylbenzene	ND	4.8	0.63
2-Chlorotoluene	ND	4.8	0.66
4-Chlorotoluene	ND	4.8	0.62
tert-Butylbenzene	ND	4.8	0.68
1,2,4-Trimethylbenzene	ND	4.8	0.60
sec-Butylbenzene	ND	4.8	0.59
para-Isopropyl Toluene	ND	4.8	0.60
1,3-Dichlorobenzene	ND	4.8	0.51
1,4-Dichlorobenzene	ND	4.8	0.46
n-Butylbenzene	ND	4.8	0.57
1,2-Dichlorobenzene	ND	4.8	0.46
1,2-Dibromo-3-Chloropropane	ND	4.8	0.75
1,2,4-Trichlorobenzene	ND	4.8	0.15
Hexachlorobutadiene	ND	4.8	0.62
Naphthalene	ND	4.8	0.95
1,2,3-Trichlorobenzene	ND	4.8	0.16

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-134
1,2-Dichloroethane-d4	94	80-138
Toluene-d8	98	80-120
Bromofluorobenzene	97	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-9.5-10.0	Diln Fac:	0.8183
Lab ID:	264783-002	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Moisture: 14%

Analyte	Result	RL	MDL
Freon 12	ND	9.5	0.61
Chloromethane	ND	9.5	0.47
Vinyl Chloride	ND	9.5	0.39
Bromomethane	ND	9.5	0.34
Chloroethane	ND	9.5	0.38
Trichlorofluoromethane	ND	4.8	0.28
Acetone	ND	19	3.1
Freon 113	ND	4.8	0.50
1,1-Dichloroethene	ND	4.8	0.57
Methylene Chloride	ND	19	1.0
Carbon Disulfide	ND	4.8	0.63
MTBE	ND	4.8	0.46
trans-1,2-Dichloroethene	ND	4.8	0.65
Vinyl Acetate	ND	48	0.50
1,1-Dichloroethane	ND	4.8	0.73
2-Butanone	ND	9.5	0.64
cis-1,2-Dichloroethene	2.6 J	4.8	0.54
2,2-Dichloropropane	ND	4.8	0.57
Chloroform	ND	4.8	0.66
Bromochloromethane	ND	4.8	0.11
1,1,1-Trichloroethane	ND	4.8	0.62
1,1-Dichloropropene	ND	4.8	0.62
Carbon Tetrachloride	ND	4.8	0.57
1,2-Dichloroethane	ND	4.8	0.59
Benzene	ND	4.8	0.66
Trichloroethene	30	4.8	0.69
1,2-Dichloropropane	ND	4.8	0.56
Bromodichloromethane	ND	4.8	0.51
Dibromomethane	ND	4.8	0.21
4-Methyl-2-Pentanone	ND	9.5	0.57
cis-1,3-Dichloropropene	ND	4.8	0.38
Toluene	ND	4.8	0.73
trans-1,3-Dichloropropene	ND	4.8	0.40
1,1,2-Trichloroethane	ND	4.8	0.46
2-Hexanone	ND	9.5	0.59
1,3-Dichloropropane	ND	4.8	0.48
Tetrachloroethene	ND	4.8	0.61
Dibromochloromethane	ND	4.8	0.47
1,2-Dibromoethane	ND	4.8	0.49
Chlorobenzene	ND	4.8	0.60
1,1,1,2-Tetrachloroethane	ND	4.8	0.50
Ethylbenzene	ND	4.8	0.68
m,p-Xylenes	ND	4.8	1.3
o-Xylene	ND	4.8	0.57
Styrene	ND	4.8	0.49
Bromoform	ND	4.8	0.22
Isopropylbenzene	ND	4.8	0.62
1,1,2,2-Tetrachloroethane	ND	4.8	0.49
1,2,3-Trichloropropane	ND	4.8	0.58
Propylbenzene	ND	4.8	0.63

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-9.5-10.0	Diln Fac:	0.8183
Lab ID:	264783-002	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Bromobenzene	ND	4.8	0.21
1,3,5-Trimethylbenzene	ND	4.8	0.62
2-Chlorotoluene	ND	4.8	0.65
4-Chlorotoluene	ND	4.8	0.61
tert-Butylbenzene	ND	4.8	0.67
1,2,4-Trimethylbenzene	ND	4.8	0.59
sec-Butylbenzene	ND	4.8	0.58
para-Isopropyl Toluene	ND	4.8	0.59
1,3-Dichlorobenzene	ND	4.8	0.50
1,4-Dichlorobenzene	ND	4.8	0.45
n-Butylbenzene	ND	4.8	0.56
1,2-Dichlorobenzene	ND	4.8	0.45
1,2-Dibromo-3-Chloropropane	ND	4.8	0.74
1,2,4-Trichlorobenzene	ND	4.8	0.14
Hexachlorobutadiene	ND	4.8	0.61
Naphthalene	ND	4.8	0.94
1,2,3-Trichlorobenzene	ND	4.8	0.15

Surrogate	%REC	Limits
Dibromofluoromethane	104	78-134
1,2-Dichloroethane-d4	92	80-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-5.0-6.0	Diln Fac:	0.7440
Lab ID:	264783-003	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Moisture: 14%

Analyte	Result	RL	MDL
Freon 12	ND	8.7	0.56
Chloromethane	ND	8.7	0.42
Vinyl Chloride	ND	8.7	0.36
Bromomethane	ND	8.7	0.31
Chloroethane	ND	8.7	0.34
Trichlorofluoromethane	ND	4.3	0.26
Acetone	6.5 J	17	2.9
Freon 113	ND	4.3	0.45
1,1-Dichloroethene	ND	4.3	0.52
Methylene Chloride	ND	17	0.93
Carbon Disulfide	ND	4.3	0.58
MTBE	ND	4.3	0.42
trans-1,2-Dichloroethene	ND	4.3	0.59
Vinyl Acetate	ND	43	0.45
1,1-Dichloroethane	ND	4.3	0.66
2-Butanone	ND	8.7	0.58
cis-1,2-Dichloroethene	0.80 J	4.3	0.49
2,2-Dichloropropane	ND	4.3	0.51
Chloroform	ND	4.3	0.60
Bromochloromethane	ND	4.3	0.096
1,1,1-Trichloroethane	ND	4.3	0.57
1,1-Dichloropropene	ND	4.3	0.56
Carbon Tetrachloride	ND	4.3	0.51
1,2-Dichloroethane	ND	4.3	0.54
Benzene	ND	4.3	0.60
Trichloroethene	7.7	4.3	0.63
1,2-Dichloropropane	ND	4.3	0.51
Bromodichloromethane	ND	4.3	0.46
Dibromomethane	ND	4.3	0.19
4-Methyl-2-Pentanone	ND	8.7	0.51
cis-1,3-Dichloropropene	ND	4.3	0.35
Toluene	ND	4.3	0.66
trans-1,3-Dichloropropene	ND	4.3	0.36
1,1,2-Trichloroethane	ND	4.3	0.42
2-Hexanone	ND	8.7	0.53
1,3-Dichloropropane	ND	4.3	0.43
Tetrachloroethene	5.4	4.3	0.55
Dibromochloromethane	ND	4.3	0.42
1,2-Dibromoethane	ND	4.3	0.44
Chlorobenzene	ND	4.3	0.54
1,1,1,2-Tetrachloroethane	ND	4.3	0.46
Ethylbenzene	ND	4.3	0.62
m,p-Xylenes	ND	4.3	1.2
o-Xylene	ND	4.3	0.52
Styrene	ND	4.3	0.44
Bromoform	ND	4.3	0.20
Isopropylbenzene	ND	4.3	0.56
1,1,2,2-Tetrachloroethane	ND	4.3	0.45
1,2,3-Trichloropropane	ND	4.3	0.53
Propylbenzene	ND	4.3	0.57

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-5.0-6.0	Diln Fac:	0.7440
Lab ID:	264783-003	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Bromobenzene	ND	4.3	0.19
1,3,5-Trimethylbenzene	ND	4.3	0.56
2-Chlorotoluene	ND	4.3	0.59
4-Chlorotoluene	ND	4.3	0.56
tert-Butylbenzene	ND	4.3	0.61
1,2,4-Trimethylbenzene	ND	4.3	0.54
sec-Butylbenzene	ND	4.3	0.53
para-Isopropyl Toluene	ND	4.3	0.53
1,3-Dichlorobenzene	ND	4.3	0.46
1,4-Dichlorobenzene	ND	4.3	0.41
n-Butylbenzene	ND	4.3	0.51
1,2-Dichlorobenzene	ND	4.3	0.41
1,2-Dibromo-3-Chloropropane	ND	4.3	0.67
1,2,4-Trichlorobenzene	ND	4.3	0.13
Hexachlorobutadiene	ND	4.3	0.55
Naphthalene	ND	4.3	0.85
1,2,3-Trichlorobenzene	ND	4.3	0.14

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-134
1,2-Dichloroethane-d4	93	80-138
Toluene-d8	100	80-120
Bromofluorobenzene	105	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-9.0-10.0	Diln Fac:	0.7092
Lab ID:	264783-004	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Moisture: 16%

Analyte	Result	RL	MDL
Freon 12	ND	8.4	0.54
Chloromethane	ND	8.4	0.41
Vinyl Chloride	ND	8.4	0.35
Bromomethane	ND	8.4	0.30
Chloroethane	ND	8.4	0.33
Trichlorofluoromethane	ND	4.2	0.25
Acetone	ND	17	2.8
Freon 113	ND	4.2	0.44
1,1-Dichloroethene	ND	4.2	0.51
Methylene Chloride	1.1 J	17	0.91
Carbon Disulfide	ND	4.2	0.56
MTBE	ND	4.2	0.41
trans-1,2-Dichloroethene	3.0 J	4.2	0.57
Vinyl Acetate	ND	42	0.44
1,1-Dichloroethane	ND	4.2	0.65
2-Butanone	ND	8.4	0.57
cis-1,2-Dichloroethene	6.8	4.2	0.48
2,2-Dichloropropane	ND	4.2	0.50
Chloroform	ND	4.2	0.58
Bromochloromethane	ND	4.2	0.093
1,1,1-Trichloroethane	ND	4.2	0.55
1,1-Dichloropropene	ND	4.2	0.55
Carbon Tetrachloride	ND	4.2	0.50
1,2-Dichloroethane	ND	4.2	0.53
Benzene	ND	4.2	0.59
Trichloroethene	3.1 J	4.2	0.61
1,2-Dichloropropane	ND	4.2	0.49
Bromodichloromethane	ND	4.2	0.45
Dibromomethane	ND	4.2	0.19
4-Methyl-2-Pentanone	ND	8.4	0.50
cis-1,3-Dichloropropene	ND	4.2	0.34
Toluene	ND	4.2	0.65
trans-1,3-Dichloropropene	ND	4.2	0.36
1,1,2-Trichloroethane	ND	4.2	0.41
2-Hexanone	ND	8.4	0.52
1,3-Dichloropropane	ND	4.2	0.42
Tetrachloroethene	ND	4.2	0.54
Dibromochloromethane	ND	4.2	0.41
1,2-Dibromoethane	ND	4.2	0.43
Chlorobenzene	ND	4.2	0.53
1,1,1,2-Tetrachloroethane	ND	4.2	0.45
Ethylbenzene	ND	4.2	0.60
m,p-Xylenes	ND	4.2	1.2
o-Xylene	ND	4.2	0.50
Styrene	ND	4.2	0.43
Bromoform	ND	4.2	0.19
Isopropylbenzene	ND	4.2	0.55
1,1,2,2-Tetrachloroethane	ND	4.2	0.44
1,2,3-Trichloropropane	ND	4.2	0.51
Propylbenzene	ND	4.2	0.56

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-9.0-10.0	Diln Fac:	0.7092
Lab ID:	264783-004	Batch#:	220630
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Analyzed:	02/20/15

Analyte	Result	RL	MDL
Bromobenzene	ND	4.2	0.19
1,3,5-Trimethylbenzene	ND	4.2	0.55
2-Chlorotoluene	ND	4.2	0.58
4-Chlorotoluene	ND	4.2	0.55
tert-Butylbenzene	ND	4.2	0.59
1,2,4-Trimethylbenzene	ND	4.2	0.53
sec-Butylbenzene	ND	4.2	0.52
para-Isopropyl Toluene	ND	4.2	0.52
1,3-Dichlorobenzene	ND	4.2	0.44
1,4-Dichlorobenzene	ND	4.2	0.40
n-Butylbenzene	ND	4.2	0.50
1,2-Dichlorobenzene	ND	4.2	0.40
1,2-Dibromo-3-Chloropropane	ND	4.2	0.65
1,2,4-Trichlorobenzene	ND	4.2	0.13
Hexachlorobutadiene	ND	4.2	0.54
Naphthalene	ND	4.2	0.83
1,2,3-Trichlorobenzene	ND	4.2	0.14

Surrogate	%REC	Limits
Dibromofluoromethane	103	78-134
1,2-Dichloroethane-d4	92	80-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778011	Batch#:	220630
Matrix:	Soil	Analyzed:	02/20/15
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.70	99	70-134
Benzene	25.00	27.96	112	80-123
Trichloroethene	25.00	25.51	102	80-128
Toluene	25.00	26.08	104	80-120
Chlorobenzene	25.00	25.80	103	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-134
1,2-Dichloroethane-d4	90	80-138
Toluene-d8	100	80-120
Bromofluorobenzene	98	78-123

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778012	Batch#:	220630
Matrix:	Soil	Analyzed:	02/20/15
Units:	ug/Kg		

Analyte	Result	RL	MDL
Freon 12	ND	10	0.64
Chloromethane	ND	10	0.49
Vinyl Chloride	ND	10	0.41
Bromomethane	ND	10	0.36
Chloroethane	ND	10	0.40
Trichlorofluoromethane	ND	5.0	0.30
Acetone	ND	20	3.3
Freon 113	ND	5.0	0.52
1,1-Dichloroethene	ND	5.0	0.60
Methylene Chloride	ND	20	1.1
Carbon Disulfide	ND	5.0	0.67
MTBE	ND	5.0	0.48
trans-1,2-Dichloroethene	ND	5.0	0.68
Vinyl Acetate	ND	50	0.52
1,1-Dichloroethane	ND	5.0	0.76
2-Butanone	ND	10	0.67
cis-1,2-Dichloroethene	ND	5.0	0.57
2,2-Dichloropropane	ND	5.0	0.59
Chloroform	ND	5.0	0.69
Bromochloromethane	ND	5.0	0.11
1,1,1-Trichloroethane	ND	5.0	0.66
1,1-Dichloropropene	ND	5.0	0.65
Carbon Tetrachloride	ND	5.0	0.59
1,2-Dichloroethane	ND	5.0	0.62
Benzene	ND	5.0	0.70
Trichloroethene	ND	5.0	0.73
1,2-Dichloropropane	ND	5.0	0.59
Bromodichloromethane	ND	5.0	0.54
Dibromomethane	ND	5.0	0.22
4-Methyl-2-Pentanone	ND	10	0.59
cis-1,3-Dichloropropene	ND	5.0	0.40
Toluene	ND	5.0	0.76
trans-1,3-Dichloropropene	ND	5.0	0.42
1,1,2-Trichloroethane	ND	5.0	0.48
2-Hexanone	ND	10	0.62
1,3-Dichloropropane	ND	5.0	0.50
Tetrachloroethene	ND	5.0	0.64
Dibromochloromethane	ND	5.0	0.49
1,2-Dibromoethane	ND	5.0	0.51
Chlorobenzene	ND	5.0	0.63
1,1,1,2-Tetrachloroethane	ND	5.0	0.53
Ethylbenzene	ND	5.0	0.71
m,p-Xylenes	ND	5.0	1.4
o-Xylene	ND	5.0	0.60
Styrene	ND	5.0	0.51
Bromoform	ND	5.0	0.23
Isopropylbenzene	ND	5.0	0.65
1,1,2,2-Tetrachloroethane	ND	5.0	0.52
1,2,3-Trichloropropane	ND	5.0	0.61
Propylbenzene	ND	5.0	0.66
Bromobenzene	ND	5.0	0.22
1,3,5-Trimethylbenzene	ND	5.0	0.65

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778012	Batch#:	220630
Matrix:	Soil	Analyzed:	02/20/15
Units:	ug/Kg		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.69
4-Chlorotoluene	ND	5.0	0.65
tert-Butylbenzene	ND	5.0	0.70
1,2,4-Trimethylbenzene	ND	5.0	0.62
sec-Butylbenzene	ND	5.0	0.61
para-Isopropyl Toluene	ND	5.0	0.62
1,3-Dichlorobenzene	ND	5.0	0.53
1,4-Dichlorobenzene	ND	5.0	0.48
n-Butylbenzene	ND	5.0	0.59
1,2-Dichlorobenzene	ND	5.0	0.47
1,2-Dibromo-3-Chloropropane	ND	5.0	0.77
1,2,4-Trichlorobenzene	0.19 J	5.0	0.15
Hexachlorobutadiene	ND	5.0	0.64
Naphthalene	ND	5.0	0.98
1,2,3-Trichlorobenzene	ND	5.0	0.16

Surrogate	%REC	Limits
Dibromofluoromethane	107	78-134
1,2-Dichloroethane-d4	91	80-138
Toluene-d8	99	80-120
Bromofluorobenzene	97	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-9.5-10.0	Batch#:	220630
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Analyzed:	02/20/15
Basis:	dry		

Type:	MS	Moisture:	14%
Lab ID:	QC778142	Diln Fac:	0.7022

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5697	40.83	38.49	94	56-133
Benzene	<0.6637	40.83	41.00	100	57-120
Trichloroethene	30.47	40.83	78.63	118	49-145
Toluene	<0.7270	40.83	37.50	92	51-120
Chlorobenzene	<0.5960	40.83	37.25	91	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	95	80-138
Toluene-d8	97	80-120
Bromofluorobenzene	95	78-123

Type:	MSD	Moisture:	14%
Lab ID:	QC778143	Diln Fac:	0.6974

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	40.54	38.65	95	56-133	1	46
Benzene	40.54	40.49	100	57-120	1	44
Trichloroethene	40.54	79.62	121	49-145	2	46
Toluene	40.54	37.64	93	51-120	1	47
Chlorobenzene	40.54	37.16	92	47-120	0	50

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-134
1,2-Dichloroethane-d4	92	80-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	78-123

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-2.0-2.5	Batch#:	220769
Lab ID:	264783-001	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	5.000		

Moisture: 16%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	2,000	280
Phenol	ND	2,000	42
bis(2-Chloroethyl)ether	ND	2,000	360
2-Chlorophenol	ND	2,000	44
1,3-Dichlorobenzene	ND	2,000	340
1,4-Dichlorobenzene	ND	2,000	46
Benzyl alcohol	ND	2,000	65
1,2-Dichlorobenzene	ND	2,000	46
2-Methylphenol	ND	2,000	81
bis(2-Chloroisopropyl) ether	ND	2,000	42
4-Methylphenol	ND	2,000	43
N-Nitroso-di-n-propylamine	ND	2,000	47
Hexachloroethane	ND	2,000	41
Nitrobenzene	ND	2,000	65
Isophorone	ND	2,000	40
2-Nitrophenol	ND	4,000	46
2,4-Dimethylphenol	ND	2,000	83
Benzoic acid	ND	9,900	2,600
bis(2-Chloroethoxy)methane	ND	2,000	45
2,4-Dichlorophenol	ND	2,000	49
1,2,4-Trichlorobenzene	ND	2,000	47
Naphthalene	ND	400	46
4-Chloroaniline	ND	2,000	56
Hexachlorobutadiene	ND	2,000	53
4-Chloro-3-methylphenol	ND	2,000	50
2-Methylnaphthalene	ND	400	38
Hexachlorocyclopentadiene	ND	4,000	81
2,4,6-Trichlorophenol	ND	2,000	75
2,4,5-Trichlorophenol	ND	2,000	50
2-Chloronaphthalene	ND	2,000	54
2-Nitroaniline	ND	4,000	64
Dimethylphthalate	ND	2,000	60
Acenaphthylene	ND	400	53
2,6-Dinitrotoluene	ND	2,000	53
3-Nitroaniline	ND	4,000	45
Acenaphthene	ND	400	49
2,4-Dinitrophenol	ND	4,000	380
4-Nitrophenol	ND	4,000	430
Dibenzofuran	ND	2,000	62
2,4-Dinitrotoluene	ND	2,000	57
Diethylphthalate	ND	2,000	68
Fluorene	ND	400	59
4-Chlorophenyl-phenylether	ND	2,000	58
4-Nitroaniline	ND	4,000	48
4,6-Dinitro-2-methylphenol	ND	4,000	460
N-Nitrosodiphenylamine	ND	2,000	63
Azobenzene	ND	2,000	51
4-Bromophenyl-phenylether	ND	2,000	63
Hexachlorobenzene	ND	2,000	64
Pentachlorophenol	ND	4,000	760

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-2.0-2.5	Batch#:	220769
Lab ID:	264783-001	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	400	63
Anthracene	ND	400	68
Di-n-butylphthalate	ND	2,000	72
Fluoranthene	ND	400	62
Pyrene	ND	400	65
Butylbenzylphthalate	ND	2,000	60
3,3'-Dichlorobenzidine	ND	4,000	41
Benzo(a)anthracene	ND	400	61
Chrysene	ND	400	67
bis(2-Ethylhexyl)phthalate	ND	2,000	78
Di-n-octylphthalate	ND	2,000	43
Benzo(b)fluoranthene	ND	400	54
Benzo(k)fluoranthene	ND	400	57
Benzo(a)pyrene	ND	400	52
Indeno(1,2,3-cd)pyrene	ND	400	53
Dibenz(a,h)anthracene	ND	400	56
Benzo(g,h,i)perylene	ND	400	60

Surrogate	%REC	Limits
2-Fluorophenol	61	25-120
Phenol-d5	57	36-120
2,4,6-Tribromophenol	77	27-120
Nitrobenzene-d5	50	44-120
2-Fluorobiphenyl	58	47-120
Terphenyl-d14	61	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-9.5-10.0	Batch#:	220769
Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Moisture: 14%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	25
Phenol	ND	380	17
bis(2-Chloroethyl)ether	ND	380	18
2-Chlorophenol	ND	380	16
1,3-Dichlorobenzene	ND	380	15
1,4-Dichlorobenzene	ND	380	8.4
Benzyl alcohol	ND	380	19
1,2-Dichlorobenzene	ND	380	12
2-Methylphenol	ND	380	17
bis(2-Chloroisopropyl) ether	ND	380	18
4-Methylphenol	ND	380	18
N-Nitroso-di-n-propylamine	ND	380	18
Hexachloroethane	ND	380	12
Nitrobenzene	ND	380	10
Isophorone	ND	380	12
2-Nitrophenol	ND	770	45
2,4-Dimethylphenol	ND	380	21
Benzoic acid	ND	1,900	440
bis(2-Chloroethoxy)methane	ND	380	12
2,4-Dichlorophenol	ND	380	11
1,2,4-Trichlorobenzene	ND	380	9.8
Naphthalene	ND	77	15
4-Chloroaniline	ND	380	15
Hexachlorobutadiene	ND	380	9.6
4-Chloro-3-methylphenol	ND	380	10
2-Methylnaphthalene	ND	77	11
Hexachlorocyclopentadiene	ND	770	88
2,4,6-Trichlorophenol	ND	380	13
2,4,5-Trichlorophenol	ND	380	11
2-Chloronaphthalene	ND	380	9.0
2-Nitroaniline	ND	770	39
Dimethylphthalate	ND	380	8.3
Acenaphthylene	ND	77	9.6
2,6-Dinitrotoluene	ND	380	39
3-Nitroaniline	ND	770	8.3
Acenaphthene	ND	77	7.7
2,4-Dinitrophenol	ND	770	57
4-Nitrophenol	ND	770	8.2
Dibenzofuran	ND	380	9.7
2,4-Dinitrotoluene	ND	380	9.6
Diethylphthalate	ND	380	9.7
Fluorene	ND	77	9.2
4-Chlorophenyl-phenylether	ND	380	9.7
4-Nitroaniline	ND	770	12
4,6-Dinitro-2-methylphenol	ND	770	40
N-Nitrosodiphenylamine	ND	380	9.1
Azobenzene	ND	380	8.1
4-Bromophenyl-phenylether	ND	380	9.3
Hexachlorobenzene	ND	380	7.9
Pentachlorophenol	ND	770	120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-9.5-10.0	Batch#:	220769
Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	77	9.4
Anthracene	ND	77	10
Di-n-butylphthalate	ND	380	11
Fluoranthene	ND	77	11
Pyrene	ND	77	8.4
Butylbenzylphthalate	ND	380	11
3,3'-Dichlorobenzidine	ND	770	91
Benzo(a)anthracene	ND	77	7.7
Chrysene	ND	77	9.4
bis(2-Ethylhexyl)phthalate	ND	380	9.9
Di-n-octylphthalate	ND	380	39
Benzo(b)fluoranthene	ND	77	6.7
Benzo(k)fluoranthene	ND	77	6.9
Benzo(a)pyrene	ND	77	6.8
Indeno(1,2,3-cd)pyrene	ND	77	8.8
Dibenz(a,h)anthracene	ND	77	8.5
Benzo(g,h,i)perylene	ND	77	9.5

Surrogate	%REC	Limits
2-Fluorophenol	54	25-120
Phenol-d5	57	36-120
2,4,6-Tribromophenol	59	27-120
Nitrobenzene-d5	53	44-120
2-Fluorobiphenyl	58	47-120
Terphenyl-d14	64	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-5.0-6.0	Batch#:	220769
Lab ID:	264783-003	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Moisture: 14%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	390	26
Phenol	ND	390	18
bis(2-Chloroethyl)ether	ND	390	19
2-Chlorophenol	ND	390	16
1,3-Dichlorobenzene	ND	390	15
1,4-Dichlorobenzene	ND	390	8.6
Benzyl alcohol	ND	390	19
1,2-Dichlorobenzene	ND	390	12
2-Methylphenol	ND	390	17
bis(2-Chloroisopropyl) ether	ND	390	19
4-Methylphenol	ND	390	19
N-Nitroso-di-n-propylamine	ND	390	18
Hexachloroethane	ND	390	12
Nitrobenzene	ND	390	10
Isophorone	ND	390	12
2-Nitrophenol	ND	780	45
2,4-Dimethylphenol	ND	390	22
Benzoic acid	ND	2,000	440
bis(2-Chloroethoxy)methane	ND	390	12
2,4-Dichlorophenol	ND	390	11
1,2,4-Trichlorobenzene	ND	390	9.9
Naphthalene	ND	78	15
4-Chloroaniline	ND	390	15
Hexachlorobutadiene	ND	390	9.8
4-Chloro-3-methylphenol	ND	390	10
2-Methylnaphthalene	ND	78	12
Hexachlorocyclopentadiene	ND	780	89
2,4,6-Trichlorophenol	ND	390	13
2,4,5-Trichlorophenol	ND	390	11
2-Chloronaphthalene	ND	390	9.1
2-Nitroaniline	ND	780	40
Dimethylphthalate	ND	390	8.4
Acenaphthylene	ND	78	9.7
2,6-Dinitrotoluene	ND	390	39
3-Nitroaniline	ND	780	8.5
Acenaphthene	ND	78	7.8
2,4-Dinitrophenol	ND	780	58
4-Nitrophenol	ND	780	8.3
Dibenzofuran	ND	390	9.8
2,4-Dinitrotoluene	ND	390	9.8
Diethylphthalate	ND	390	9.8
Fluorene	ND	78	9.3
4-Chlorophenyl-phenylether	ND	390	9.9
4-Nitroaniline	ND	780	12
4,6-Dinitro-2-methylphenol	ND	780	41
N-Nitrosodiphenylamine	ND	390	9.2
Azobenzene	ND	390	8.2
4-Bromophenyl-phenylether	ND	390	9.5
Hexachlorobenzene	ND	390	8.0
Pentachlorophenol	ND	780	120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-5.0-6.0	Batch#:	220769
Lab ID:	264783-003	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	78	9.5
Anthracene	ND	78	11
Di-n-butylphthalate	ND	390	11
Fluoranthene	ND	78	11
Pyrene	ND	78	8.6
Butylbenzylphthalate	ND	390	11
3,3'-Dichlorobenzidine	ND	780	93
Benzo(a)anthracene	ND	78	7.9
Chrysene	ND	78	9.6
bis(2-Ethylhexyl)phthalate	ND	390	10
Di-n-octylphthalate	ND	390	40
Benzo(b)fluoranthene	ND	78	6.8
Benzo(k)fluoranthene	ND	78	7.0
Benzo(a)pyrene	ND	78	6.9
Indeno(1,2,3-cd)pyrene	ND	78	9.0
Dibenz(a,h)anthracene	ND	78	8.7
Benzo(g,h,i)perylene	ND	78	9.7

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	67	36-120
2,4,6-Tribromophenol	69	27-120
Nitrobenzene-d5	65	44-120
2-Fluorobiphenyl	70	47-120
Terphenyl-d14	86	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-9.0-10.0	Batch#:	220769
Lab ID:	264783-004	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	390	26
Phenol	ND	390	18
bis(2-Chloroethyl)ether	ND	390	19
2-Chlorophenol	ND	390	16
1,3-Dichlorobenzene	ND	390	15
1,4-Dichlorobenzene	ND	390	8.6
Benzyl alcohol	ND	390	19
1,2-Dichlorobenzene	ND	390	12
2-Methylphenol	ND	390	17
bis(2-Chloroisopropyl) ether	ND	390	19
4-Methylphenol	ND	390	19
N-Nitroso-di-n-propylamine	ND	390	18
Hexachloroethane	ND	390	12
Nitrobenzene	ND	390	10
Isophorone	ND	390	12
2-Nitrophenol	ND	780	46
2,4-Dimethylphenol	ND	390	22
Benzoic acid	ND	2,000	440
bis(2-Chloroethoxy)methane	ND	390	12
2,4-Dichlorophenol	ND	390	11
1,2,4-Trichlorobenzene	ND	390	10
Naphthalene	ND	78	15
4-Chloroaniline	ND	390	15
Hexachlorobutadiene	ND	390	9.8
4-Chloro-3-methylphenol	ND	390	10
2-Methylnaphthalene	ND	78	12
Hexachlorocyclopentadiene	ND	780	89
2,4,6-Trichlorophenol	ND	390	13
2,4,5-Trichlorophenol	ND	390	11
2-Chloronaphthalene	ND	390	9.1
2-Nitroaniline	ND	780	40
Dimethylphthalate	ND	390	8.4
Acenaphthylene	ND	78	9.8
2,6-Dinitrotoluene	ND	390	39
3-Nitroaniline	ND	780	8.5
Acenaphthene	ND	78	7.9
2,4-Dinitrophenol	ND	780	58
4-Nitrophenol	ND	780	8.3
Dibenzofuran	ND	390	9.9
2,4-Dinitrotoluene	ND	390	9.8
Diethylphthalate	ND	390	9.8
Fluorene	ND	78	9.3
4-Chlorophenyl-phenylether	ND	390	9.9
4-Nitroaniline	ND	780	12
4,6-Dinitro-2-methylphenol	ND	780	41
N-Nitrosodiphenylamine	ND	390	9.2
Azobenzene	ND	390	8.2
4-Bromophenyl-phenylether	ND	390	9.5
Hexachlorobenzene	ND	390	8.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-9.0-10.0	Batch#:	220769
Lab ID:	264783-004	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	780	120
Phenanthrene	ND	78	9.5
Anthracene	ND	78	11
Di-n-butylphthalate	ND	390	11
Fluoranthene	ND	78	11
Pyrene	ND	78	8.6
Butylbenzylphthalate	ND	390	11
3,3'-Dichlorobenzidine	ND	780	93
Benzo(a)anthracene	ND	78	7.9
Chrysene	ND	78	9.6
bis(2-Ethylhexyl)phthalate	14 J	390	10
Di-n-octylphthalate	ND	390	40
Benzo(b)fluoranthene	ND	78	6.8
Benzo(k)fluoranthene	ND	78	7.0
Benzo(a)pyrene	ND	78	6.9
Indeno(1,2,3-cd)pyrene	ND	78	9.0
Dibenz(a,h)anthracene	ND	78	8.7
Benzo(g,h,i)perylene	ND	78	9.7

Surrogate	%REC	Limits
2-Fluorophenol	60	25-120
Phenol-d5	64	36-120
2,4,6-Tribromophenol	69	27-120
Nitrobenzene-d5	58	44-120
2-Fluorobiphenyl	67	47-120
Terphenyl-d14	66	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778559	Batch#:	220769
Matrix:	Soil	Prepared:	02/24/15
Units:	ug/Kg	Analyzed:	02/25/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	70
Phenol	ND	330	47
bis(2-Chloroethyl)ether	ND	330	54
2-Chlorophenol	ND	330	55
1,3-Dichlorobenzene	ND	330	38
1,4-Dichlorobenzene	ND	330	15
Benzyl alcohol	ND	330	51
1,2-Dichlorobenzene	ND	330	33
2-Methylphenol	ND	330	62
bis(2-Chloroisopropyl) ether	ND	330	83
4-Methylphenol	ND	330	52
N-Nitroso-di-n-propylamine	ND	330	50
Hexachloroethane	ND	330	26
Nitrobenzene	ND	330	15
Isophorone	ND	330	9.7
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	330	11
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	13
Naphthalene	ND	67	13
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	14
4-Chloro-3-methylphenol	ND	330	14
2-Methylnaphthalene	ND	67	11
Hexachlorocyclopentadiene	ND	670	12
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	13
2-Chloronaphthalene	ND	330	10
2-Nitroaniline	ND	670	11
Dimethylphthalate	ND	330	12
Acenaphthylene	ND	67	13
2,6-Dinitrotoluene	ND	330	12
3-Nitroaniline	ND	670	8.1
Acenaphthene	ND	67	11
2,4-Dinitrophenol	ND	670	94
4-Nitrophenol	ND	670	52
Dibenzofuran	ND	330	14
2,4-Dinitrotoluene	ND	330	9.8
Diethylphthalate	ND	330	14
Fluorene	ND	67	12
4-Chlorophenyl-phenylether	ND	330	12
4-Nitroaniline	ND	670	9.5
4,6-Dinitro-2-methylphenol	ND	670	69
N-Nitrosodiphenylamine	ND	330	13
Azobenzene	ND	330	14
4-Bromophenyl-phenylether	ND	330	13
Hexachlorobenzene	ND	330	14
Pentachlorophenol	ND	670	62
Phenanthrene	ND	67	15
Anthracene	ND	67	12
Di-n-butylphthalate	ND	330	15

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778559	Batch#:	220769
Matrix:	Soil	Prepared:	02/24/15
Units:	ug/Kg	Analyzed:	02/25/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	13
Pyrene	ND	67	12
Butylbenzylphthalate	ND	330	11
3,3'-Dichlorobenzidine	ND	670	11
Benzo(a)anthracene	ND	67	12
Chrysene	ND	67	14
bis(2-Ethylhexyl)phthalate	ND	330	15
Di-n-octylphthalate	ND	330	17
Benzo(b)fluoranthene	ND	67	14
Benzo(k)fluoranthene	ND	67	18
Benzo(a)pyrene	ND	67	15
Indeno(1,2,3-cd)pyrene	ND	67	15
Dibenz(a,h)anthracene	ND	67	15
Benzo(g,h,i)perylene	ND	67	13

Surrogate	%REC	Limits
2-Fluorophenol	50	25-120
Phenol-d5	62	36-120
2,4,6-Tribromophenol	57	27-120
Nitrobenzene-d5	70	44-120
2-Fluorobiphenyl	67	47-120
Terphenyl-d14	64	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778560	Batch#:	220769
Matrix:	Soil	Prepared:	02/24/15
Units:	ug/Kg	Analyzed:	02/25/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,675	1,905	71	42-120
2-Chlorophenol	2,675	1,969	74	45-120
1,4-Dichlorobenzene	2,675	2,057	77	48-120
N-Nitroso-di-n-propylamine	2,675	2,150	80	27-123
1,2,4-Trichlorobenzene	2,675	1,940	73	50-120
4-Chloro-3-methylphenol	2,675	2,137	80	59-120
Acenaphthene	1,003	729.1	73	53-120
4-Nitrophenol	2,675	2,080	78	47-120
2,4-Dinitrotoluene	2,675	1,803	67	55-120
Pentachlorophenol	2,675	1,909	71	32-120
Pyrene	1,003	774.5	77	52-120

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	71	36-120
2,4,6-Tribromophenol	75	27-120
Nitrobenzene-d5	70	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	65	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-9.5-10.0	Batch#:	220769
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: MS Moisture: 14%
Lab ID: QC778561

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<17.32	3,132	2,299	73	47-120
2-Chlorophenol	<16.08	3,132	2,035	65	44-120
1,4-Dichlorobenzene	<8.447	3,132	2,194	70	49-120
N-Nitroso-di-n-propylamine	<17.52	3,132	2,095	67	42-120
1,2,4-Trichlorobenzene	<9.782	3,132	2,226	71	54-120
4-Chloro-3-methylphenol	<9.997	3,132	2,205	70	55-120
Acenaphthene	<7.719	1,175	781.6	67	51-120
4-Nitrophenol	<8.172	3,132	2,010	64	36-120
2,4-Dinitrotoluene	<9.614	3,132	2,325	74	52-120
Pentachlorophenol	<118.4	3,132	1,559	50	14-120
Pyrene	<8.439	1,175	704.4	60	46-124

Surrogate	%REC	Limits
2-Fluorophenol	52	25-120
Phenol-d5	64	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	54	44-120
2-Fluorobiphenyl	56	47-120
Terphenyl-d14	57	49-120

Type: MSD Moisture: 14%
Lab ID: QC778562

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,089	2,547	82	47-120	12	39
2-Chlorophenol	3,089	2,203	71	44-120	9	38
1,4-Dichlorobenzene	3,089	2,256	73	49-120	4	45
N-Nitroso-di-n-propylamine	3,089	2,289	74	42-120	10	40
1,2,4-Trichlorobenzene	3,089	2,328	75	54-120	6	38
4-Chloro-3-methylphenol	3,089	2,525	82	55-120	15	41
Acenaphthene	1,159	857.2	74	51-120	11	47
4-Nitrophenol	3,089	2,242	73	36-120	12	41
2,4-Dinitrotoluene	3,089	2,593	84	52-120	12	40
Pentachlorophenol	3,089	1,563	51	14-120	2	53
Pyrene	1,159	773.8	67	46-124	11	50

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	78	36-120
2,4,6-Tribromophenol	91	27-120
Nitrobenzene-d5	66	44-120
2-Fluorobiphenyl	75	47-120
Terphenyl-d14	67	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15
Batch#:	220858		

Field ID: SB-11-2.0-2.5 Lab ID: 264783-001
Type: SAMPLE Moisture: 16%

Analyte	Result	RL	MDL
Aroclor-1016	ND	11	2.8
Aroclor-1221	ND	23	7.5
Aroclor-1232	ND	11	3.7
Aroclor-1242	ND	11	3.4
Aroclor-1248	ND	11	3.6
Aroclor-1254	ND	11	2.9
Aroclor-1260	2.9 J	11	1.8

Surrogate	%REC	Limits
TCMX	84	46-141
Decachlorobiphenyl	70	25-135

Field ID: SB-11-9.5-10.0 Lab ID: 264783-002
Type: SAMPLE Moisture: 14%

Analyte	Result	RL	MDL
Aroclor-1016	ND	11	2.7
Aroclor-1221	ND	22	7.4
Aroclor-1232	ND	11	3.6
Aroclor-1242	ND	11	3.3
Aroclor-1248	ND	11	3.5
Aroclor-1254	ND	11	2.8
Aroclor-1260	ND	11	1.8

Surrogate	%REC	Limits
TCMX	84	46-141
Decachlorobiphenyl	87	25-135

Field ID: SB-18-5.0-6.0 Lab ID: 264783-003
Type: SAMPLE Moisture: 14%

Analyte	Result	RL	MDL
Aroclor-1016	ND	11	2.7
Aroclor-1221	ND	22	7.3
Aroclor-1232	ND	11	3.6
Aroclor-1242	ND	11	3.3
Aroclor-1248	ND	11	3.5
Aroclor-1254	ND	11	2.8
Aroclor-1260	3.3 J	11	1.8

Surrogate	%REC	Limits
TCMX	94	46-141
Decachlorobiphenyl	57	25-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/19/15
Units:	ug/Kg	Received:	02/19/15
Basis:	dry	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15
Batch#:	220858		

Field ID:	SB-18-9.0-10.0	Lab ID:	264783-004
Type:	SAMPLE	Moisture:	16%

Analyte	Result	RL	MDL
Aroclor-1016	ND	11	2.8
Aroclor-1221	ND	23	7.6
Aroclor-1232	ND	11	3.7
Aroclor-1242	ND	11	3.4
Aroclor-1248	ND	11	3.6
Aroclor-1254	ND	11	2.9
Aroclor-1260	6.5 J	11	1.8

Surrogate	%REC	Limits
TCMX	91	46-141
Decachlorobiphenyl	88	25-135

Type:	BLANK	Lab ID:	QC778888

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.7	2.4
Aroclor-1221	ND	19	6.4
Aroclor-1232	ND	9.7	3.1
Aroclor-1242	ND	9.7	2.9
Aroclor-1248	ND	9.7	3.1
Aroclor-1254	ND	9.7	2.5
Aroclor-1260	ND	9.7	1.6

Surrogate	%REC	Limits
TCMX	80	46-141
Decachlorobiphenyl	94	25-135

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778889	Batch#:	220858
Matrix:	Soil	Prepared:	02/26/15
Units:	ug/Kg	Analyzed:	02/27/15

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.8	177.6	106	64-140
Aroclor-1260	167.8	169.0	101	65-146

Surrogate	%REC	Limits
TCMX	98	46-141
Decachlorobiphenyl	102	25-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Field ID:	SB-11-9.5-10.0	Batch#:	220858
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	ug/Kg	Prepared:	02/26/15
Basis:	dry	Analyzed:	02/27/15
Diln Fac:	1.000		

Type: MS Moisture: 14%
Lab ID: QC778890

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.742	194.2	211.8	109	60-161
Aroclor-1260	<1.792	194.2	207.6	107	42-166

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	115	25-135

Type: MSD Moisture: 14%
Lab ID: QC778891

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	191.8	172.3	90	60-161	19	43
Aroclor-1260	191.8	155.2	81	42-166	28	51

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	84	25-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	264783	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	SB-11-2.0-2.5	Basis:	dry
Lab ID:	264783-001	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15

Moisture: 16%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed	Prep	Analysis
Antimony	0.35 J	0.56	0.18	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Arsenic	5.1	0.28	0.092	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Barium	160	0.28	0.054	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Beryllium	0.43	0.11	0.021	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Cadmium	1.4	0.28	0.018	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Chromium	44	0.28	0.023	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Cobalt	9.3	0.28	0.022	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Copper	44	0.29	0.096	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Lead	120	0.28	0.081	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Mercury	0.021 J	0.094	0.0062	5.000	220744	02/24/15	METHOD	EPA 7471A
Molybdenum	0.24 J	0.28	0.062	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Nickel	48	0.28	0.075	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.16	1.000	220753	02/25/15	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.083	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.18	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Vanadium	38	0.28	0.028	1.000	220753	02/24/15	EPA 3050B	EPA 6010B
Zinc	270	1.1	0.11	1.000	220753	02/24/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	264783	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	SB-11-9.5-10.0	Diln Fac:	1.000
Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry		

Moisture: 14%

Analyte	Result	RL	MDL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	0.64	0.20	220753	02/25/15	EPA 3050B	EPA 6010B
Arsenic	8.6	0.32	0.11	220753	02/25/15	EPA 3050B	EPA 6010B
Barium	480	0.32	0.062	220753	02/25/15	EPA 3050B	EPA 6010B
Beryllium	0.34	0.13	0.024	220753	02/25/15	EPA 3050B	EPA 6010B
Cadmium	0.39	0.32	0.020	220753	02/25/15	EPA 3050B	EPA 6010B
Chromium	38	0.32	0.027	220753	02/25/15	EPA 3050B	EPA 6010B
Cobalt	19	0.32	0.025	220753	02/25/15	EPA 3050B	EPA 6010B
Copper	16	0.33	0.11	220753	02/25/15	EPA 3050B	EPA 6010B
Lead	5.1	0.32	0.093	220753	02/25/15	EPA 3050B	EPA 6010B
Mercury	0.043	0.021	0.0014	220744	02/24/15	METHOD	EPA 7471A
Molybdenum	0.14 J	0.32	0.072	220753	02/25/15	EPA 3050B	EPA 6010B
Nickel	48	0.32	0.087	220753	02/25/15	EPA 3050B	EPA 6010B
Selenium	0.57 J	0.64	0.19	220753	02/25/15	EPA 3050B	EPA 6010B
Silver	ND	0.32	0.096	220753	02/25/15	EPA 3050B	EPA 6010B
Thallium	ND	0.64	0.21	220753	02/25/15	EPA 3050B	EPA 6010B
Vanadium	34	0.32	0.032	220753	02/25/15	EPA 3050B	EPA 6010B
Zinc	27	1.3	0.12	220753	02/25/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	264783	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	SB-18-5.0-6.0	Diln Fac:	1.000
Lab ID:	264783-003	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/24/15

Moisture: 14%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.57	0.18	220753	EPA 3050B	EPA 6010B
Arsenic	2.8	0.28	0.095	220753	EPA 3050B	EPA 6010B
Barium	62	0.28	0.056	220753	EPA 3050B	EPA 6010B
Beryllium	0.26	0.11	0.022	220753	EPA 3050B	EPA 6010B
Cadmium	0.24 J	0.28	0.018	220753	EPA 3050B	EPA 6010B
Chromium	37	0.28	0.024	220753	EPA 3050B	EPA 6010B
Cobalt	4.4	0.28	0.022	220753	EPA 3050B	EPA 6010B
Copper	12	0.30	0.099	220753	EPA 3050B	EPA 6010B
Lead	3.5	0.28	0.083	220753	EPA 3050B	EPA 6010B
Mercury	0.036	0.019	0.0013	220744	METHOD	EPA 7471A
Molybdenum	ND	0.28	0.064	220753	EPA 3050B	EPA 6010B
Nickel	39	0.28	0.077	220753	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.17	220753	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.085	220753	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.19	220753	EPA 3050B	EPA 6010B
Vanadium	24	0.28	0.028	220753	EPA 3050B	EPA 6010B
Zinc	21	1.1	0.11	220753	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	264783	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	SB-18-9.0-10.0	Diln Fac:	1.000
Lab ID:	264783-004	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/24/15

Moisture: 16%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.62	0.20	220753	EPA 3050B	EPA 6010B
Arsenic	10	0.31	0.10	220753	EPA 3050B	EPA 6010B
Barium	150	0.31	0.060	220753	EPA 3050B	EPA 6010B
Beryllium	0.30	0.12	0.024	220753	EPA 3050B	EPA 6010B
Cadmium	0.55	0.31	0.020	220753	EPA 3050B	EPA 6010B
Chromium	51	0.31	0.026	220753	EPA 3050B	EPA 6010B
Cobalt	7.1	0.31	0.024	220753	EPA 3050B	EPA 6010B
Copper	17	0.32	0.11	220753	EPA 3050B	EPA 6010B
Lead	4.4	0.31	0.091	220753	EPA 3050B	EPA 6010B
Mercury	0.063	0.020	0.0013	220744	METHOD	EPA 7471A
Molybdenum	0.14 J	0.31	0.070	220753	EPA 3050B	EPA 6010B
Nickel	38	0.31	0.084	220753	EPA 3050B	EPA 6010B
Selenium	ND	0.62	0.18	220753	EPA 3050B	EPA 6010B
Silver	ND	0.31	0.093	220753	EPA 3050B	EPA 6010B
Thallium	ND	0.62	0.20	220753	EPA 3050B	EPA 6010B
Vanadium	34	0.31	0.031	220753	EPA 3050B	EPA 6010B
Zinc	37	1.2	0.12	220753	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220744
Lab ID:	QC778457	Prepared:	02/24/15
Matrix:	Soil	Analyzed:	02/24/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.0011

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	220744
Matrix:	Soil	Prepared:	02/24/15
Units:	mg/Kg	Analyzed:	02/24/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC778458	0.2083	0.2190	105	80-120		
BSD	QC778459	0.2083	0.2200	106	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB-11-9.5-10.0	Batch#:	220744
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/24/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC778460	0.04282	0.2344	0.2756	99	69-142	14%		
MSD	QC778461		0.2506	0.2957	101	69-142	14%	1	36

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778494	Batch#:	220753
Matrix:	Soil	Prepared:	02/24/15
Units:	mg/Kg	Analyzed:	02/25/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.16
Arsenic	ND	0.25	0.083
Barium	ND	0.25	0.049
Beryllium	ND	0.10	0.019
Cadmium	ND	0.25	0.016
Chromium	ND	0.25	0.021
Cobalt	ND	0.25	0.019
Copper	ND	0.26	0.086
Lead	ND	0.25	0.073
Molybdenum	ND	0.25	0.056
Nickel	ND	0.25	0.068
Selenium	ND	0.50	0.15
Silver	ND	0.25	0.075
Thallium	ND	0.50	0.16
Vanadium	ND	0.25	0.025
Zinc	0.16 J	1.0	0.098

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	220753
Units:	mg/Kg	Prepared:	02/24/15
Diln Fac:	5.000	Analyzed:	02/25/15

Type: BS Lab ID: QC778495

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	51.45	103	80-120
Arsenic	50.00	52.94	106	80-120
Barium	50.00	55.56	111	80-120
Beryllium	50.00	54.33	109	80-120
Cadmium	50.00	55.82	112	80-120
Chromium	50.00	54.52	109	80-120
Cobalt	50.00	51.26	103	80-120
Copper	50.00	46.42	93	80-120
Lead	50.00	50.16	100	80-120
Molybdenum	50.00	53.62	107	80-120
Nickel	50.00	52.04	104	80-120
Selenium	50.00	54.05	108	80-120
Silver	50.00	52.42	105	80-120
Thallium	50.00	54.00	108	80-120
Vanadium	50.00	56.62	113	80-120
Zinc	50.00	53.65	107	80-120

Type: BSD Lab ID: QC778496

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	51.22	102	80-120	0	20
Arsenic	50.00	52.57	105	80-120	1	20
Barium	50.00	55.44	111	80-120	0	20
Beryllium	50.00	54.48	109	80-120	0	20
Cadmium	50.00	55.85	112	80-120	0	20
Chromium	50.00	52.70	105	80-120	3	20
Cobalt	50.00	51.04	102	80-120	0	20
Copper	50.00	46.38	93	80-120	0	20
Lead	50.00	50.25	100	80-120	0	20
Molybdenum	50.00	53.26	107	80-120	1	20
Nickel	50.00	51.77	104	80-120	1	20
Selenium	50.00	54.56	109	80-120	1	20
Silver	50.00	52.39	105	80-120	0	20
Thallium	50.00	53.82	108	80-120	0	20
Vanadium	50.00	56.27	113	80-120	1	20
Zinc	50.00	53.52	107	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	SB-11-9.5-10.0	Batch#:	220753
MSS Lab ID:	264783-002	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	02/24/15
Basis:	dry	Analyzed:	02/25/15
Diln Fac:	5.000		

Type: MS Moisture: 14%
Lab ID: QC778497

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.2030	59.33	37.78	64	15-120
Arsenic	8.586	59.33	73.74	110	69-120
Barium	480.5	59.33	301.1	-302 NM	35-154
Beryllium	0.3405	59.33	65.02	109	75-120
Cadmium	0.3866	59.33	66.55	112	71-120
Chromium	38.42	59.33	113.6	127	57-133
Cobalt	19.06	59.33	73.68	92	56-125
Copper	15.77	59.33	76.28	102	54-144
Lead	5.101	59.33	66.13	103	53-125
Molybdenum	0.1438	59.33	62.21	105	66-120
Nickel	48.32	59.33	108.1	101	44-141
Selenium	0.5720	59.33	63.29	106	61-120
Silver	<0.09552	59.33	62.89	106	69-120
Thallium	<0.2083	59.33	61.51	104	59-120
Vanadium	33.86	59.33	106.7	123	52-144
Zinc	27.09	59.33	97.08	118	45-145

Type: MSD Moisture: 14%
Lab ID: QC778498

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	58.73	30.82	52	15-120	19	41
Arsenic	58.73	72.82	109	69-120	0	35
Barium	58.73	694.3	364 NM	35-154	79 *	36
Beryllium	58.73	66.33	112	75-120	3	20
Cadmium	58.73	67.77	115	71-120	3	25
Chromium	58.73	124.3	146 *	57-133	10	33
Cobalt	58.73	83.94	110	56-125	14	36
Copper	58.73	79.33	108	54-144	5	38
Lead	58.73	65.61	103	53-125	0	42
Molybdenum	58.73	61.32	104	66-120	0	20
Nickel	58.73	118.8	120	44-141	10	39
Selenium	58.73	63.95	108	61-120	2	33
Silver	58.73	63.45	108	69-120	2	22
Thallium	58.73	57.44	98	59-120	6	27
Vanadium	58.73	118.8	145 *	52-144	11	29
Zinc	58.73	98.88	122	45-145	3	39

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	220935
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	03/03/15 12:05
Basis:	dry	Analyzed:	03/04/15 16:15
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Moisture	Sampled
SB-11-2.0-2.5	SAMPLE	264783-001	ND	0.46	16%	02/19/15 14:10
SB-11-9.5-10.0	SAMPLE	264783-002	0.65	0.47	14%	02/19/15 14:20
SB-18-5.0-6.0	SAMPLE	264783-003	ND	0.45	14%	02/19/15 15:40
SB-18-9.0-10.0	SAMPLE	264783-004	2.3	0.46	16%	02/19/15 16:00
	BLANK	QC779192	ND	0.40		

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	SB-11-9.5-10.0	Batch#:	220935
MSS Lab ID:	264783-002	Sampled:	02/19/15 14:20
Matrix:	Soil	Received:	02/19/15
Units:	mg/Kg	Prepared:	03/03/15 12:05
Basis:	dry	Analyzed:	03/04/15 16:15

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	Moisture	RPD	Lim
LCS	QC779193		39.37	36.06		92	80-120			
SDUP	QC779194	0.6512		1.198	0.4651			14%	59 *	30
SSPIKE	QC779195	0.6512	45.78	41.06		88	85-115	14%		
SSPIKE	QC779196	0.6512	868.1	638.5		73 *	85-115	14%		

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Moisture

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	220733
Matrix:	Soil	Sampled:	02/19/15
Units:	%	Received:	02/19/15
Diln Fac:	1.000	Analyzed:	02/23/15

Field ID	Lab ID	Result	RL
SB-11-2.0-2.5	264783-001	16	1
SB-11-9.5-10.0	264783-002	14	1
SB-18-5.0-6.0	264783-003	14	1
SB-18-9.0-10.0	264783-004	16	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	264783	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	220733
Type:	SDUP	Sampled:	02/19/15
Matrix:	Soil	Received:	02/19/15
Units:	%	Analyzed:	02/23/15
Diln Fac:	1.000		

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim
ZZZZZZZZZZ	264768-002	QC778420	9.860	10.46	1.000	6	26
SB-11-9.5-10.0	264783-002	QC778421	14.14	14.27	1.000	1	26

RL= Reporting Limit
RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 264791
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
SB-23-GW	264791-001
EB-021915	264791-002
TB-021915	264791-003
SB-18-GW	264791-004
SB-11-GW	264791-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 02/26/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264791**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/19/15**
Samples Received:	**02/19/15**

This data package contains sample and QC results for five water samples, requested for the above referenced project on 02/19/15. The samples were received cold and intact. This report has been re-issued on 03/05/15 with re-extracted results for Diesel & Motor Oil range for sample (264791-002) EB-021915.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220721. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High response was observed for motor oil C24-C36 in the CCV analyzed 02/23/15 16:22; this analyte was not detected at or above the RL in the associated sample, and affected data was qualified with "b". Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 220669. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Bromomethane was detected between the MDL and the RL in the method blank for batch 220701; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. Methylene chloride was detected between the MDL and the RL in SB-23-GW (lab # 264791-001) and EB-021915 (lab # 264791-002); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Low recovery was observed for pyrene in the MSD of SB-23-GW (lab # 264791-001); the LCS was within limits. High RPD was also observed for pyrene in the MS/MSD of SB-23-GW (lab # 264791-001); this analyte was not detected at or above the RL in the associated samples. Low surrogate recoveries were observed for terphenyl-d14 in SB-23-GW (lab # 264791-001) and the MSD of SB-23-GW (lab # 264791-001). No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Zinc was detected above the RL in the method blank for batch 220800; this analyte was not detected in samples at or above the RL. No other analytical

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264791**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/19/15**
Samples Received:	**02/19/15**

Metals (EPA 6010B and EPA 7470A):
problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

CHAIN OF CUSTODY

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Berkeley, CA 94710

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C&T LOGIN # 264791

Chain of Custody # _____

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 02002
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: Chris Lyles
Report To: Bridgette DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	TPH-g by 8015	TPH-d by 8015	TPH mo by 8015	Full list of VOCs by 8260	SVOCs by 8270	Dissolved Title 22 metals (filtered)	Cr VI by 7196	PCBs by 8082	MS/MSD
1	SB-23-GW	2/19/15	1030	X		39	18				21	X	X	X	X	X	X	X	X	X
2	EB-021915	2/19/15	1200	X		13	6				7	X	X	X	X	X	X	X	X	
3	TB-021915	2/19/15	--	X		1	1								X					
4	SB-18-GW	2/19/15	1615	X		13	6				7	X	X	X	X	X	X	X	X	
5	SB-11-GW	2/19/15	1520	X		13	6				7	X	X	X	X	X	X	X	X	

Notes:
- Dissolved metals to be lab filtered
- Report all to MDL
- EDF required

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 2/19/15 TIME: 1630
DATE: 2/19/15 TIME: 1705
DATE: TIME:

RECEIVED BY:
DATE: 2/19/15 TIME: 1630
DATE: 2/19/15 TIME: 1800
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 26491 Date Received 2/19/15 Number of coolers 3
Client Integral Consulting Project Allied Engineering

Date Opened 2/19 By (print) SC (sign) [signature]
Date Logged in 2/19 By (print) BL (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 9/12

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Detections Summary for 264791

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : SB-23-GW Laboratory Sample ID : 264791-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	33	J	50	5.7	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	130	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	190	J,b	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Chloromethane	1.1		1.0	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Bromomethane	3.0		1.0	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Acetone	1.9	J	10	0.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Methylene Chloride	0.3	J	10	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Carbon Disulfide	0.4	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
2-Chlorotoluene	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Phenol	2.9	J	10	1.7	ug/L	As Recd	1.000	EPA 8270C	EPA 3520C
bis(2-Ethylhexyl)phthalate	2.3	J	10	1.7	ug/L	As Recd	1.000	EPA 8270C	EPA 3520C
Barium	120		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.042	J	0.20	0.040	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	13		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	6.2		5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	7.1	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	4.0	J	5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : EB-021915 Laboratory Sample ID : 264791-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	32	J	50	5.7	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	50	J	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Bromomethane	0.2	J	1.0	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Acetone	6.5	J	10	0.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Methylene Chloride	0.4	J	10	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
2-Butanone	0.8	J	10	0.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chloroform	0.3	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Zinc	4.6	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : TB-021915 Laboratory Sample ID : 264791-003

No Detections

Curtis & Tompkins, Ltd.

Client Sample ID : SB-18-GW Laboratory Sample ID : 264791-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	57		50	5.7	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	690	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	230	J	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Vinyl Chloride	0.4	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Bromomethane	0.2	J	1.0	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Acetone	3.7	J	10	0.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1-Dichloroethene	0.5	J	0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	25		0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	65		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichloroethane	2.7		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	38		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
4-Methyl-2-Pentanone	0.2	J	10	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	3.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Antimony	5.0	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Arsenic	5.4		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	120		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Cadmium	5.4		5.0	0.28	ug/L	DISS.	1.000	EPA 6010B	METHOD
Cobalt	1.2	J	5.0	0.89	ug/L	DISS.	1.000	EPA 6010B	METHOD
Copper	1.9	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Lead	6.9		5.0	1.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	15		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	7.4		5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	6.7	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	8.4		5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : SB-11-GW Laboratory Sample ID : 264791-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	36	J	50	5.7	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	180	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	210	J	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Acetone	1.7	J	10	1.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	4.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	0.4	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	4.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Barium	77		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	8.2		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	2.1	J	5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	5.1	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	4.4	J	5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	4.1	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard
b = See narrative

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	220721
Units:	ug/L	Sampled:	02/19/15
Diln Fac:	1.000	Received:	02/19/15

Field ID:	SB-23-GW	Lab ID:	264791-001
Type:	SAMPLE	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Gasoline C7-C12	33 J	50	5.7

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	80-132

Field ID:	EB-021915	Lab ID:	264791-002
Type:	SAMPLE	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Gasoline C7-C12	32 J	50	5.7

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	80-132

Field ID:	SB-18-GW	Lab ID:	264791-004
Type:	SAMPLE	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Gasoline C7-C12	57	50	5.7

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	80-132

Field ID:	SB-11-GW	Lab ID:	264791-005
Type:	SAMPLE	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Gasoline C7-C12	36 J	50	5.7

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	80-132

Type:	BLANK	Analyzed:	02/23/15
Lab ID:	QC778371		

Analyte	Result	RL	MDL
Gasoline C7-C12	13 J	50	5.7

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	80-132

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778370	Batch#:	220721
Matrix:	Water	Analyzed:	02/23/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	876.9	88	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	SB-23-GW	Batch#:	220721
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778372

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	32.93	2,000	1,842	90	76-120

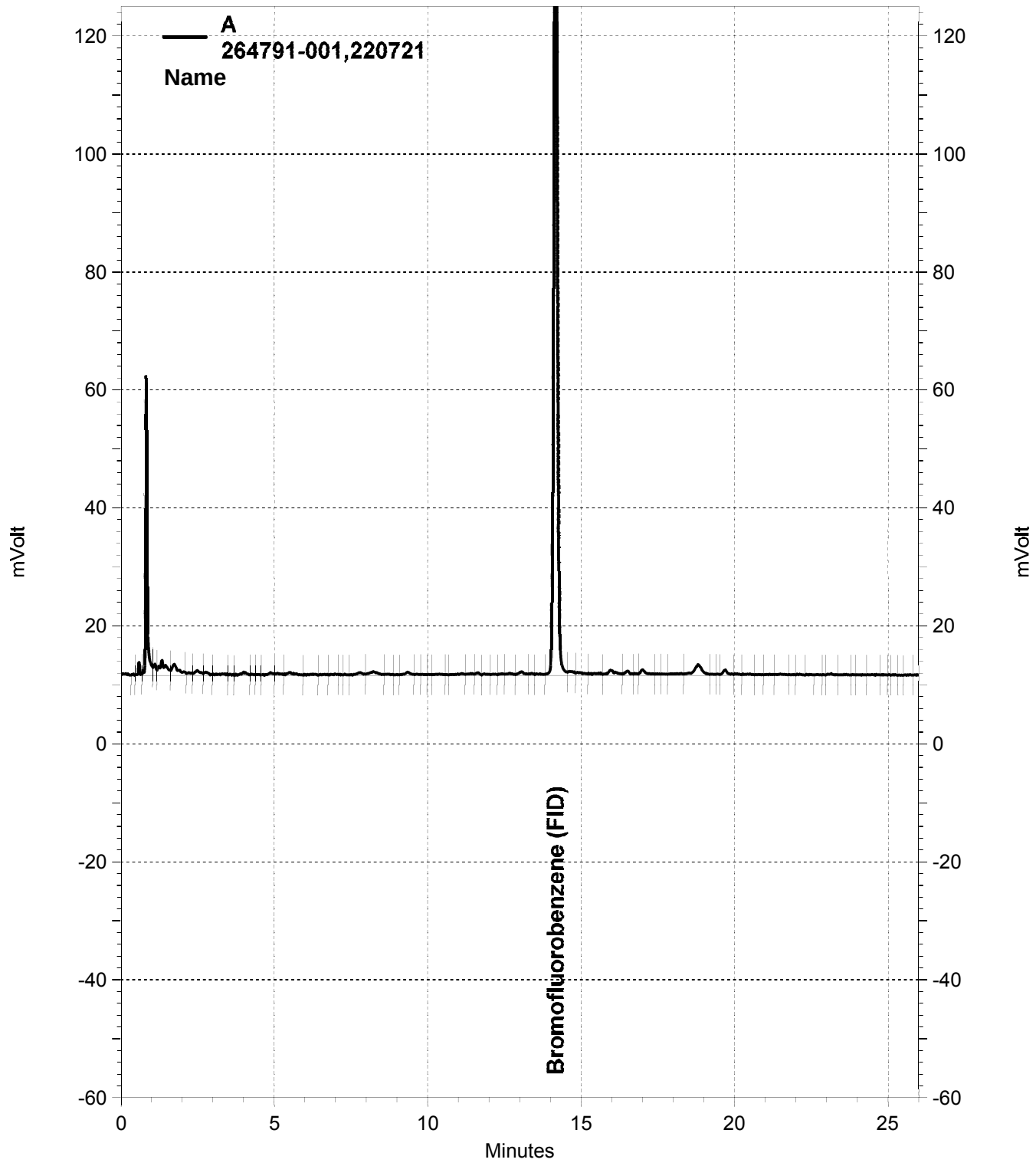
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	80-132

Type: MSD Lab ID: QC778373

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,813	89	76-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	80-132

RPD= Relative Percent Difference



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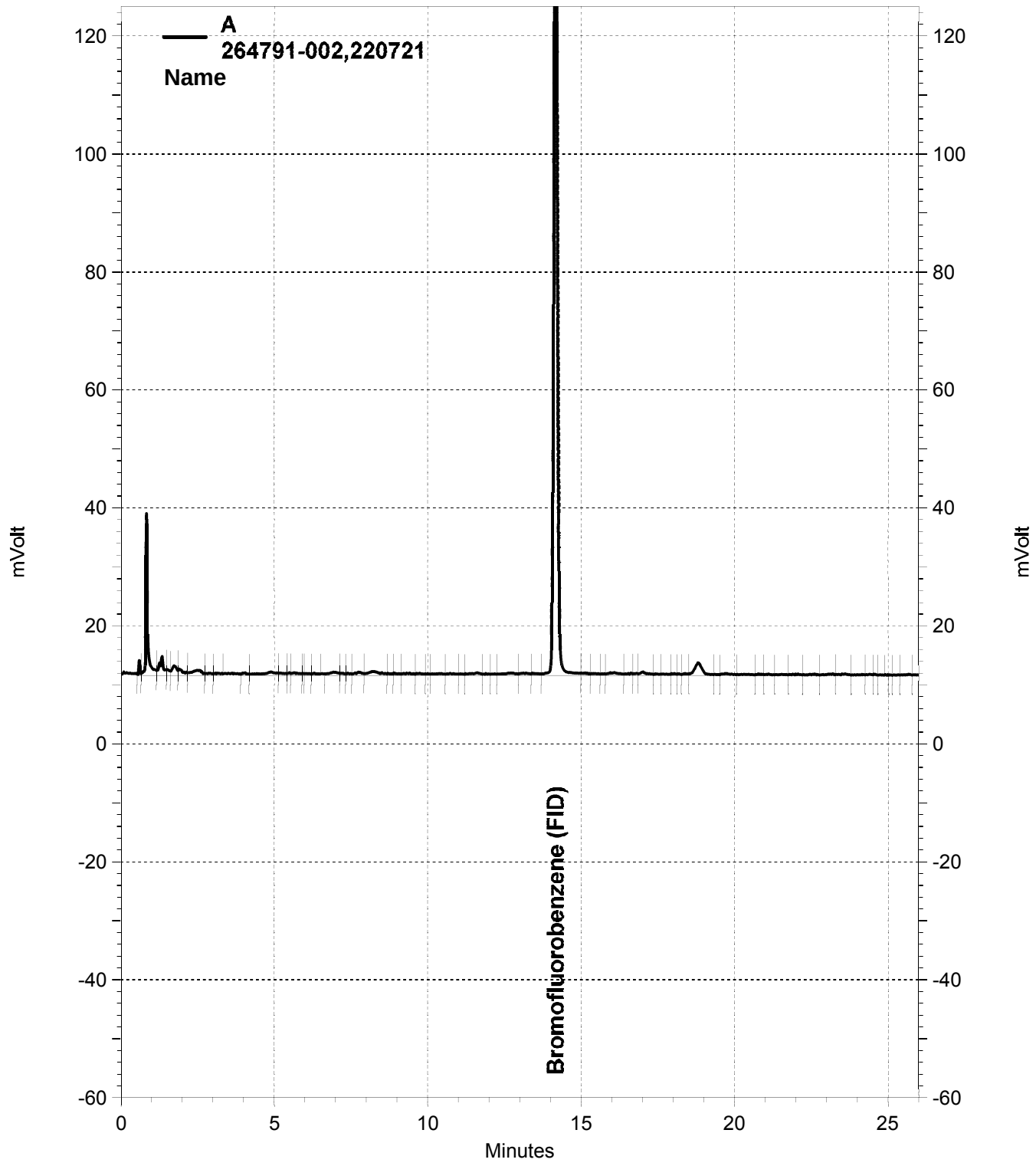

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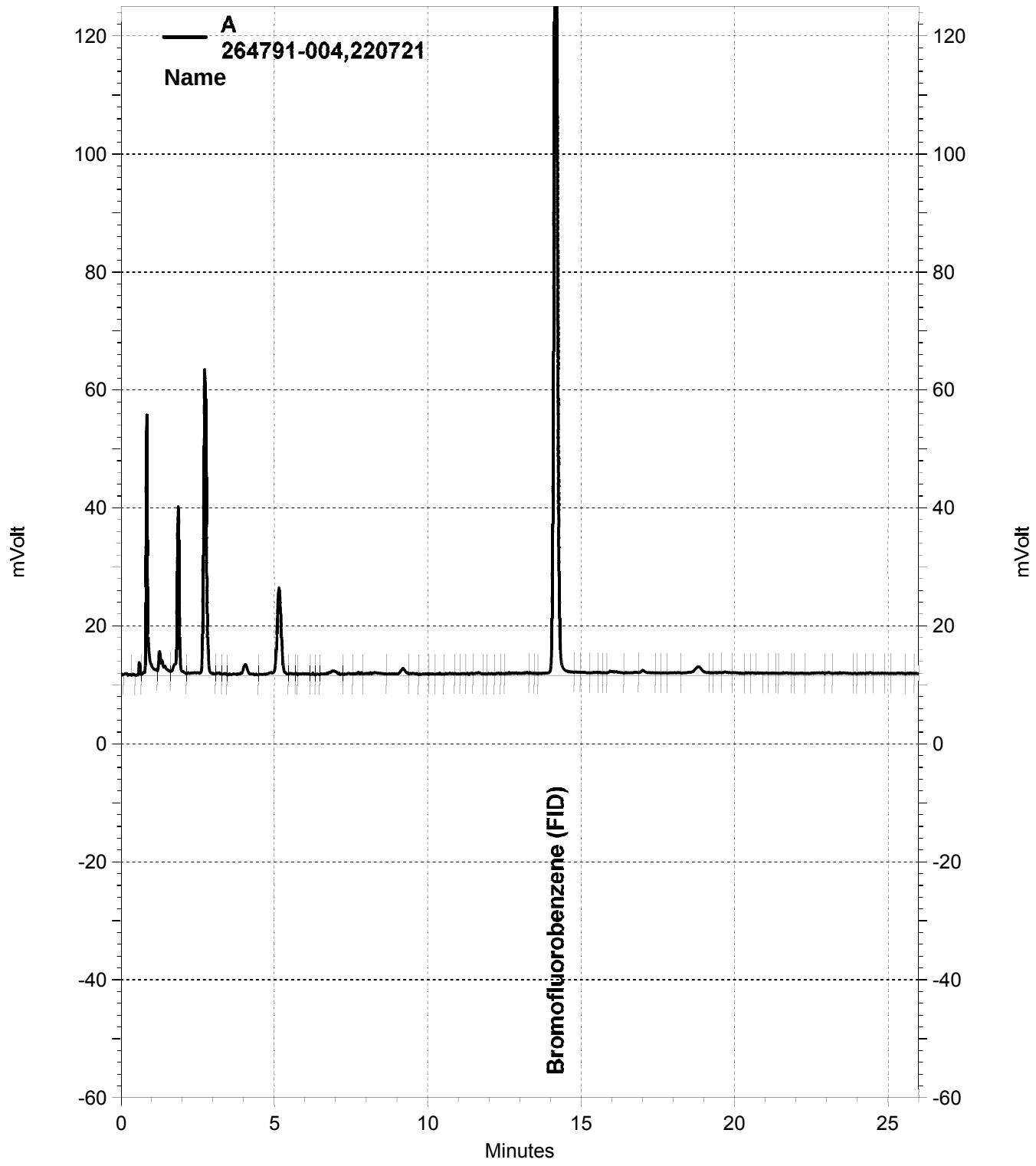

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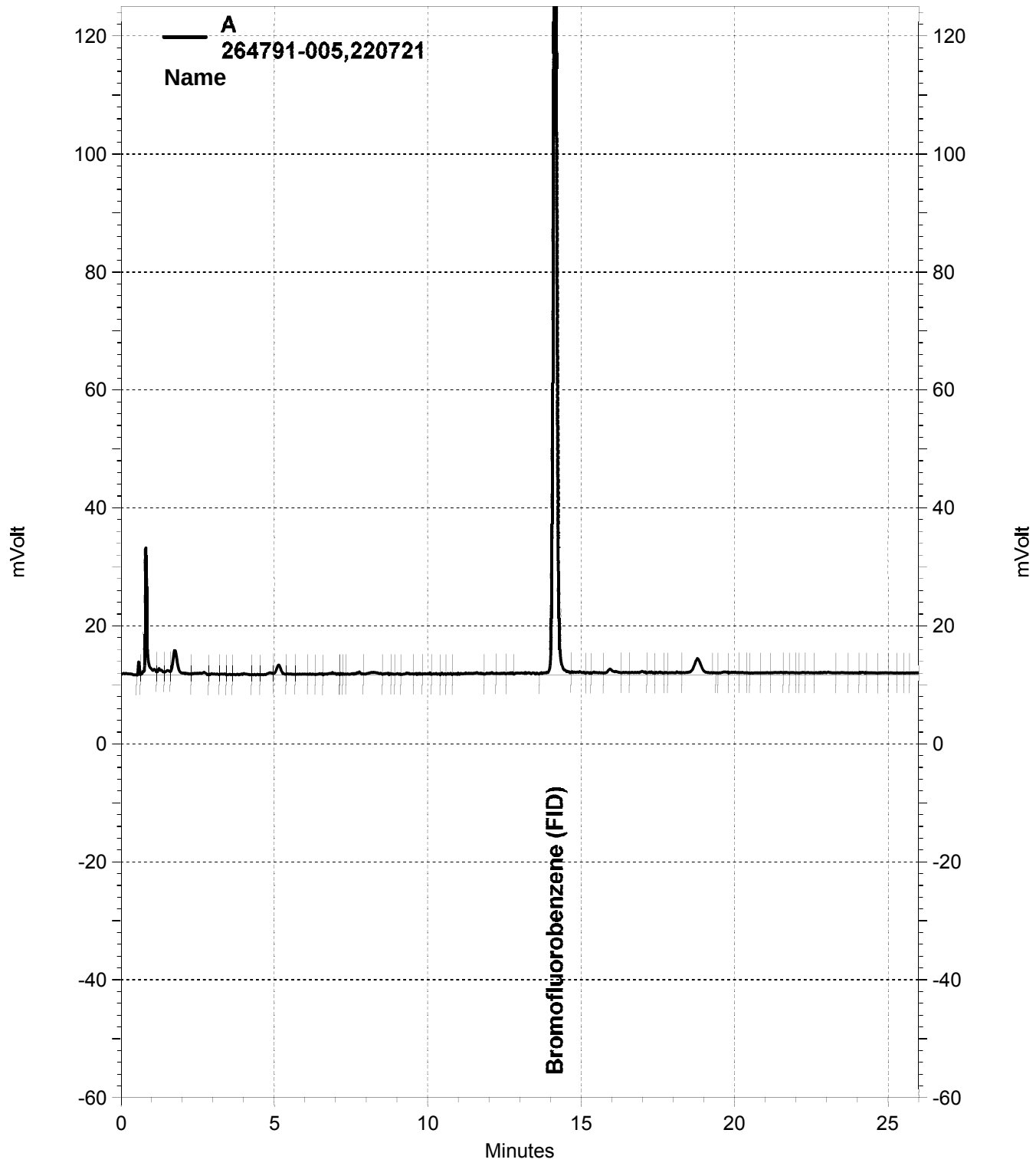

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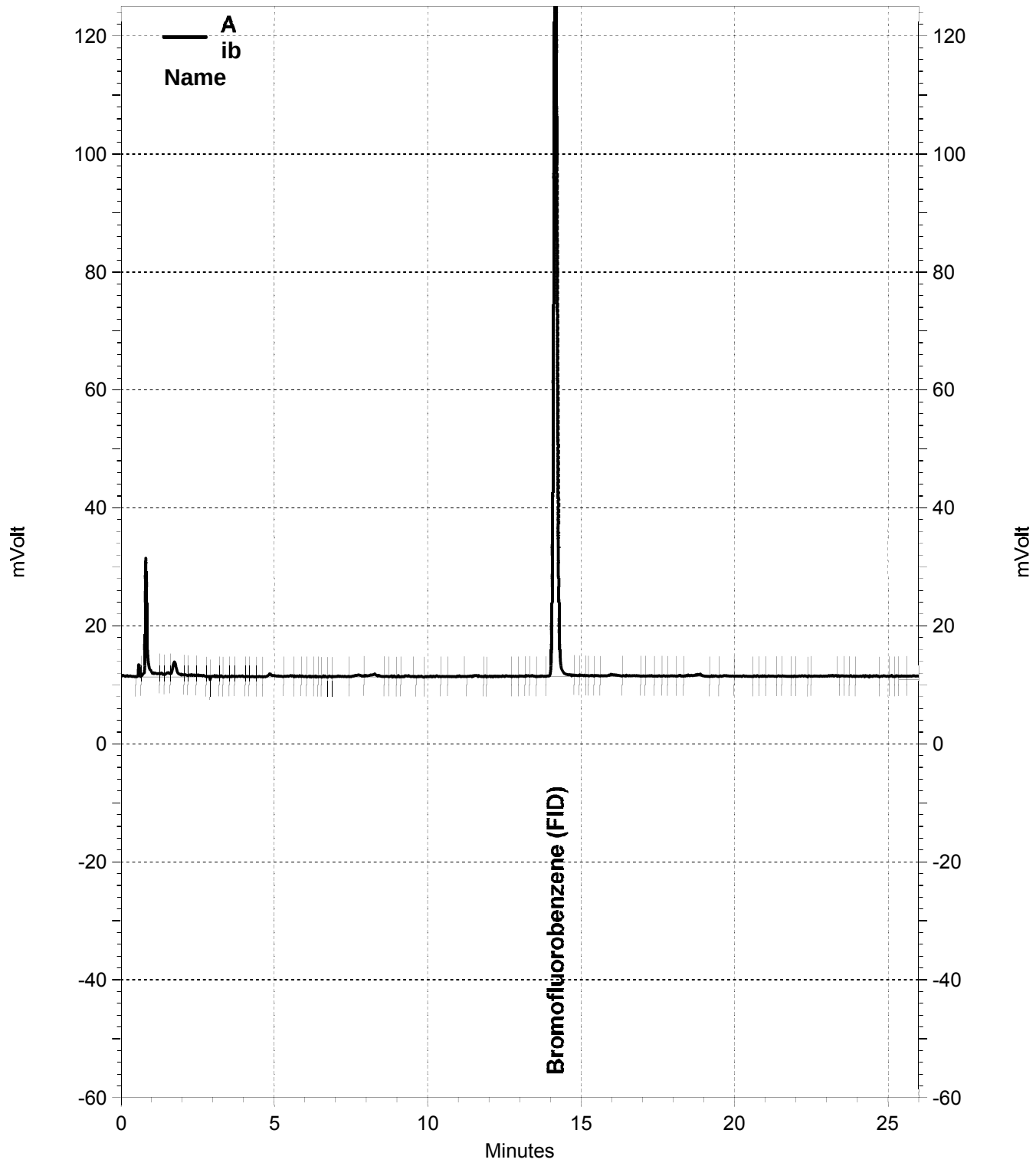

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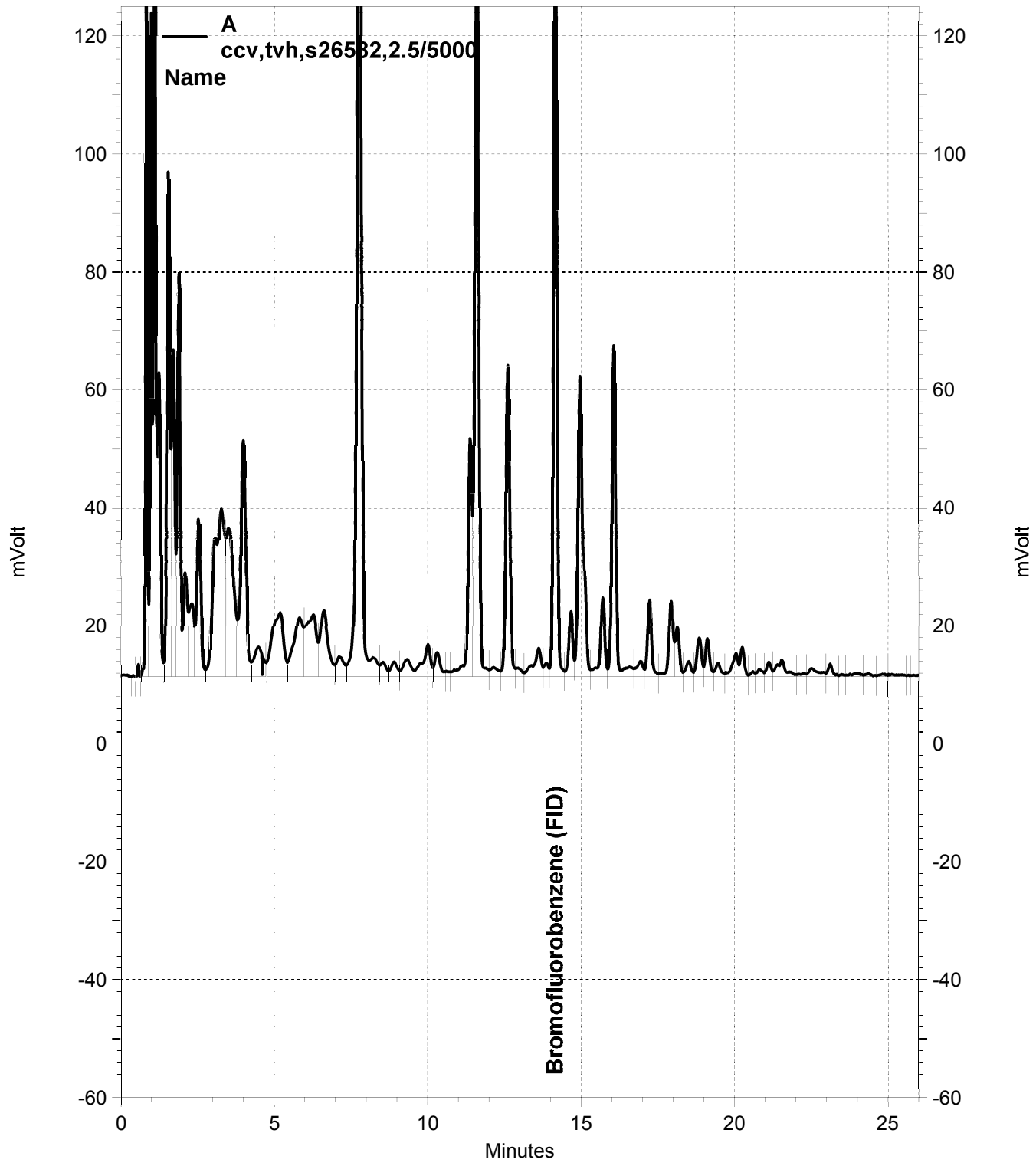

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/19/15
Units:	ug/L	Received:	02/19/15
Diln Fac:	1.000		

Field ID:	SB-23-GW	Batch#:	220669
Type:	SAMPLE	Prepared:	02/20/15
Lab ID:	264791-001	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Diesel C10-C24	130 Y	50	16
Motor Oil C24-C36	190 J b	300	96

Surrogate	%REC	Limits
o-Terphenyl	109	67-136

Field ID:	EB-021915	Batch#:	220850
Type:	SAMPLE	Prepared:	02/26/15
Lab ID:	264791-002	Analyzed:	03/03/15

Analyte	Result	RL	MDL
Diesel C10-C24	50 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	71	67-136

Field ID:	SB-18-GW	Batch#:	220669
Type:	SAMPLE	Prepared:	02/20/15
Lab ID:	264791-004	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Diesel C10-C24	690 Y	50	16
Motor Oil C24-C36	230 J	300	96

Surrogate	%REC	Limits
o-Terphenyl	87	67-136

Field ID:	SB-11-GW	Batch#:	220669
Type:	SAMPLE	Prepared:	02/20/15
Lab ID:	264791-005	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Diesel C10-C24	180 Y	50	16
Motor Oil C24-C36	210 J	300	96

Surrogate	%REC	Limits
o-Terphenyl	93	67-136

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/19/15
Units:	ug/L	Received:	02/19/15
Diln Fac:	1.000		

Type:	BLANK	Prepared:	02/20/15
Lab ID:	QC778171	Analyzed:	02/23/15
Batch#:	220669		

Analyte	Result	RL	MDL
Diesel C10-C24	21 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	96	67-136

Type:	BLANK	Prepared:	02/26/15
Lab ID:	QC778866	Analyzed:	02/27/15
Batch#:	220850		

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	90	67-136

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778172	Batch#:	220669
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,302	92	60-121

Surrogate	%REC	Limits
o-Terphenyl	99	67-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	SB-23-GW	Batch#:	220669
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/23/15

Type: MS Lab ID: QC778173

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	132.0	2,500	2,408	91	55-122

Surrogate	%REC	Limits
o-Terphenyl	93	67-136

Type: MSD Lab ID: QC778174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,596	99	55-122	8	53

Surrogate	%REC	Limits
o-Terphenyl	107	67-136

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	220850
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC778867

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,950	78	60-121

Surrogate	%REC	Limits
o-Terphenyl	88	67-136

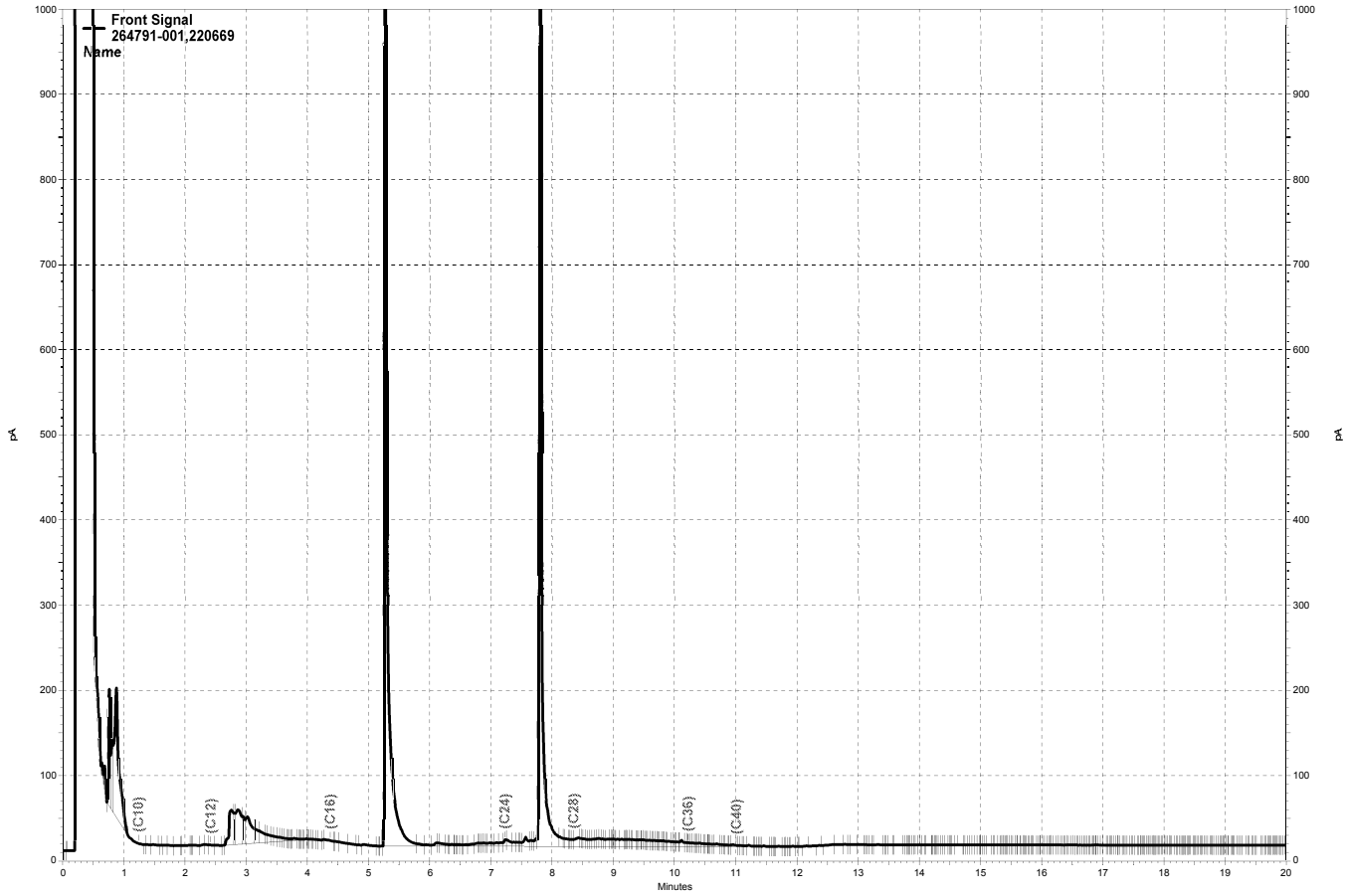
Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC778868

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,899	76	60-121	3	32

Surrogate	%REC	Limits
o-Terphenyl	80	67-136

RPD= Relative Percent Difference

50.0



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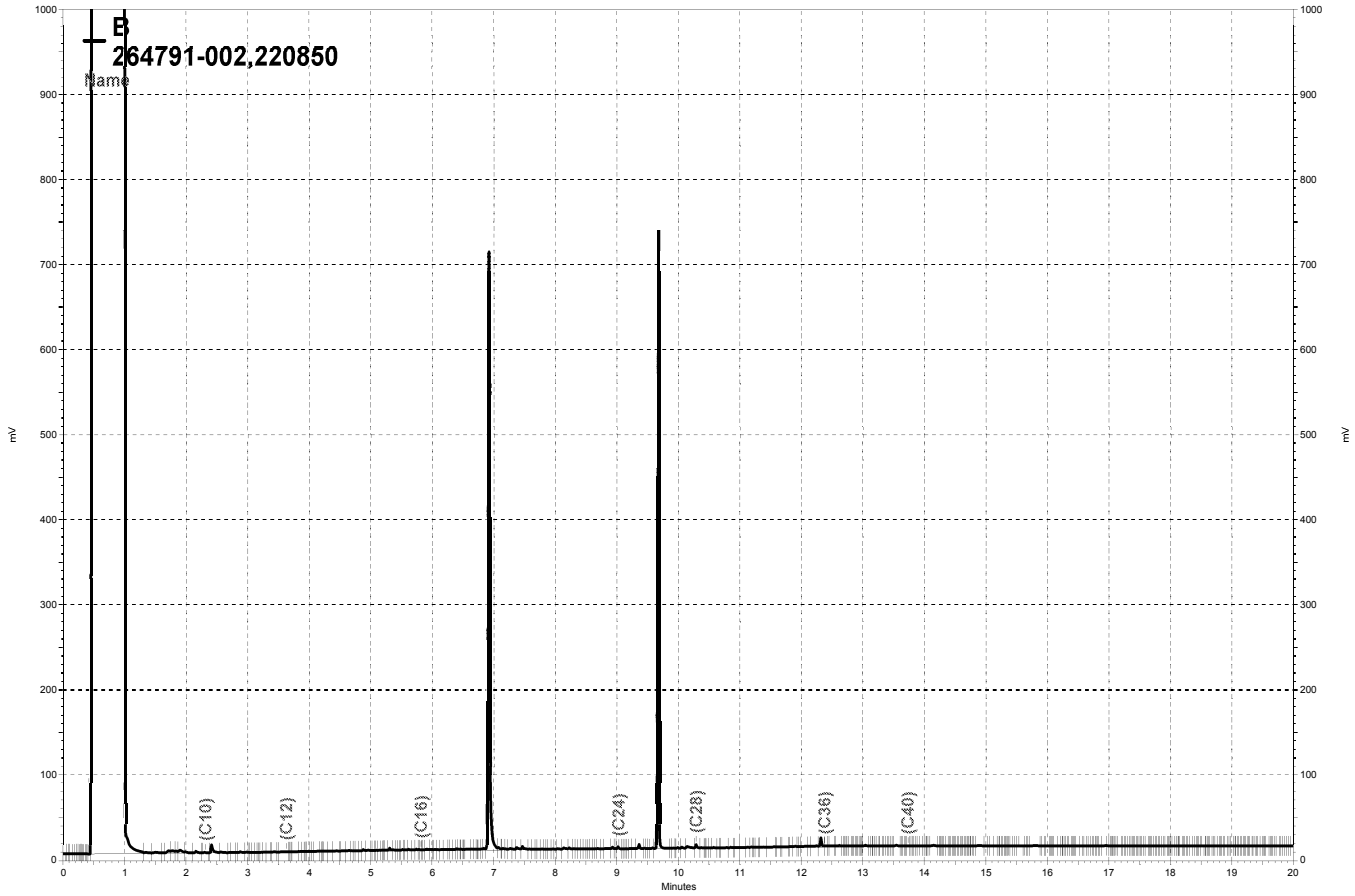

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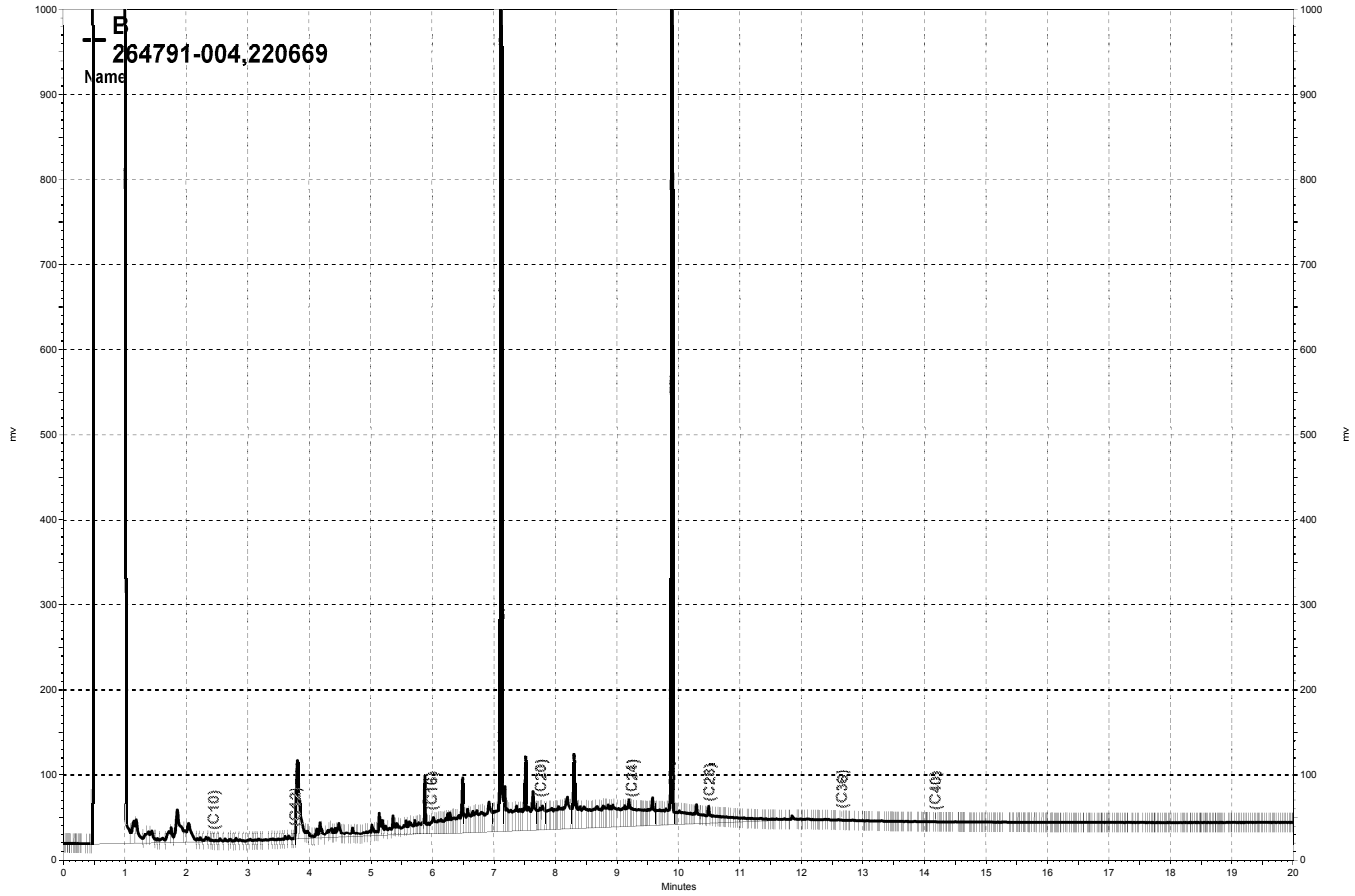

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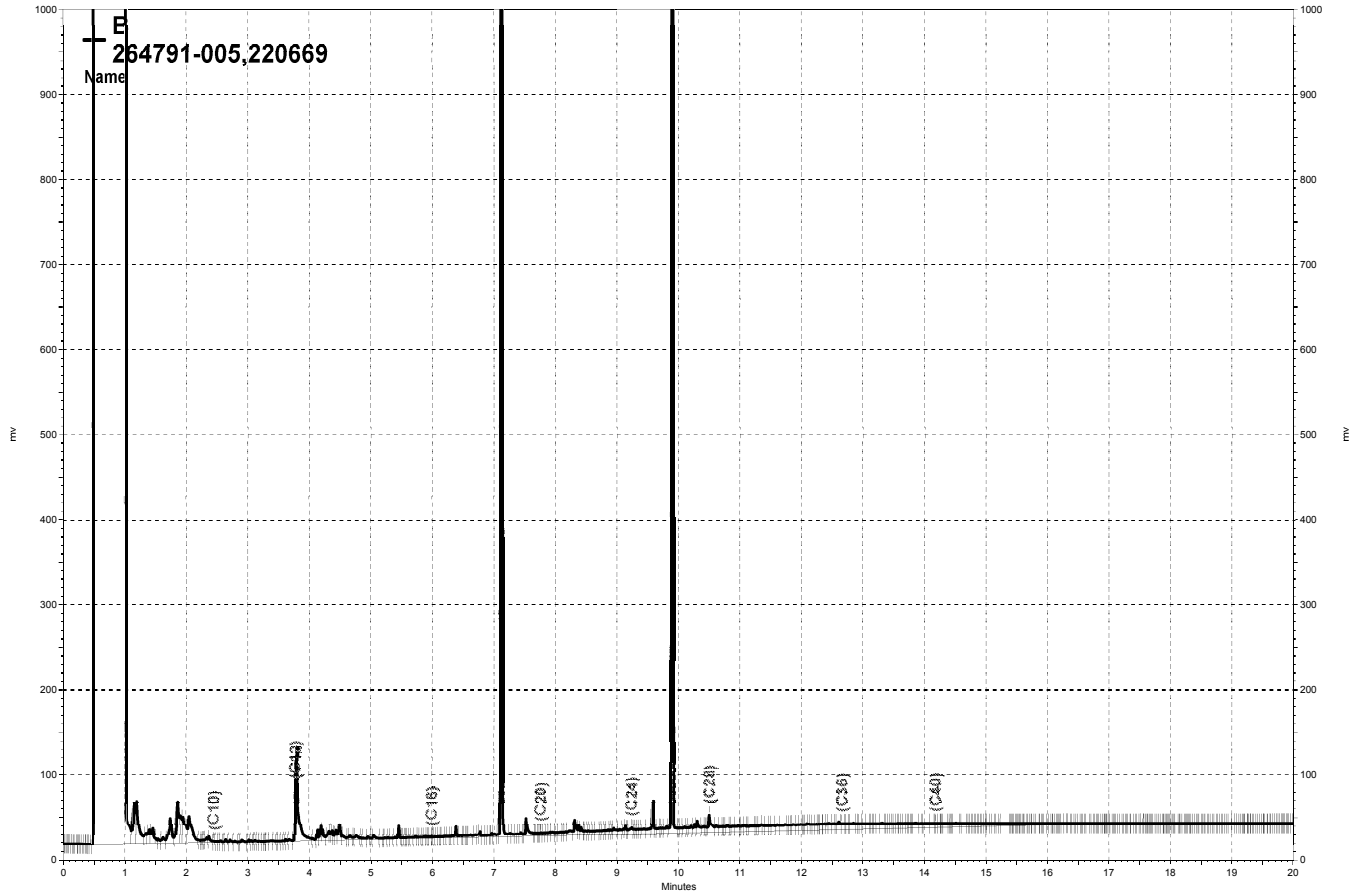

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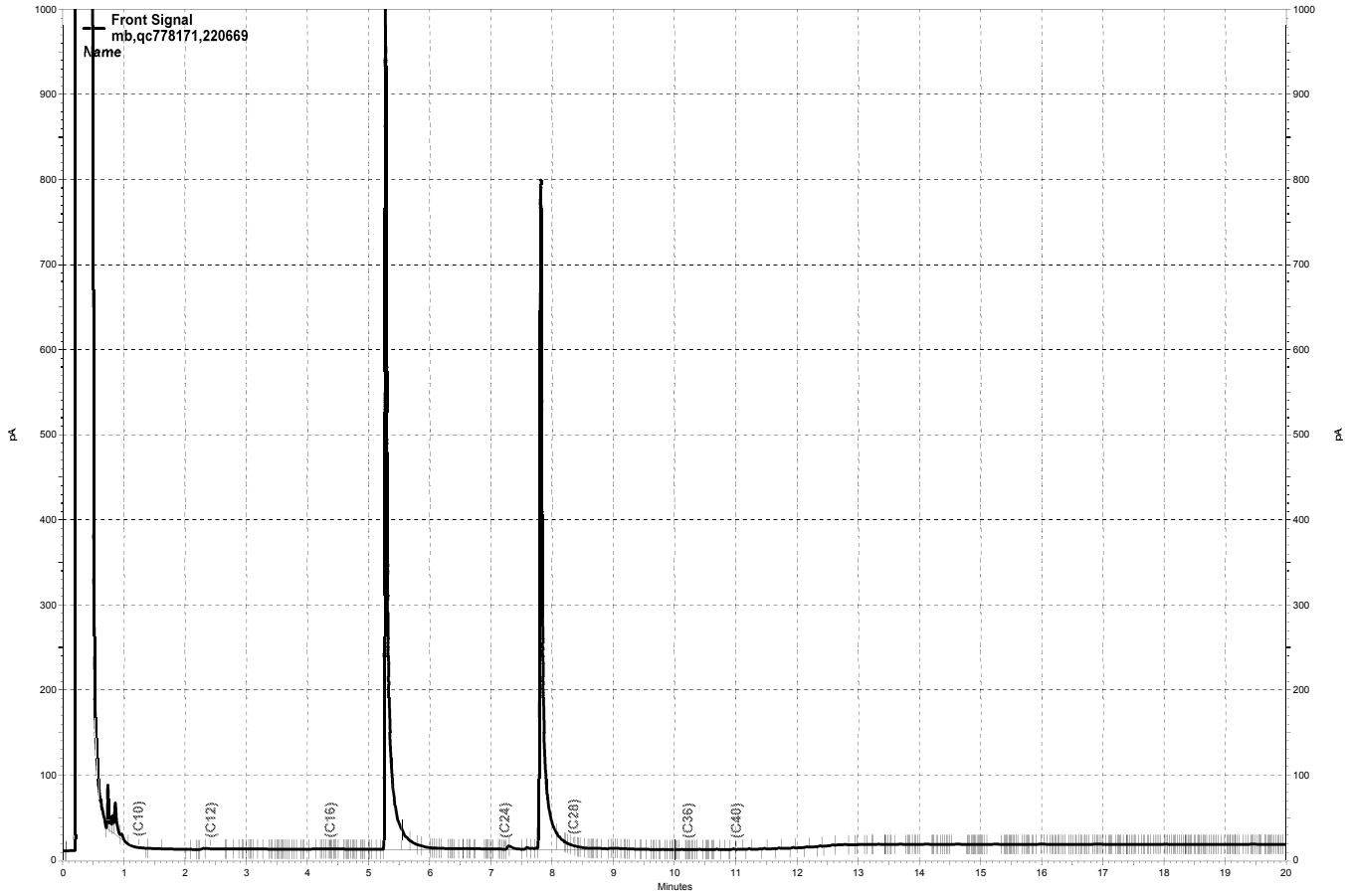

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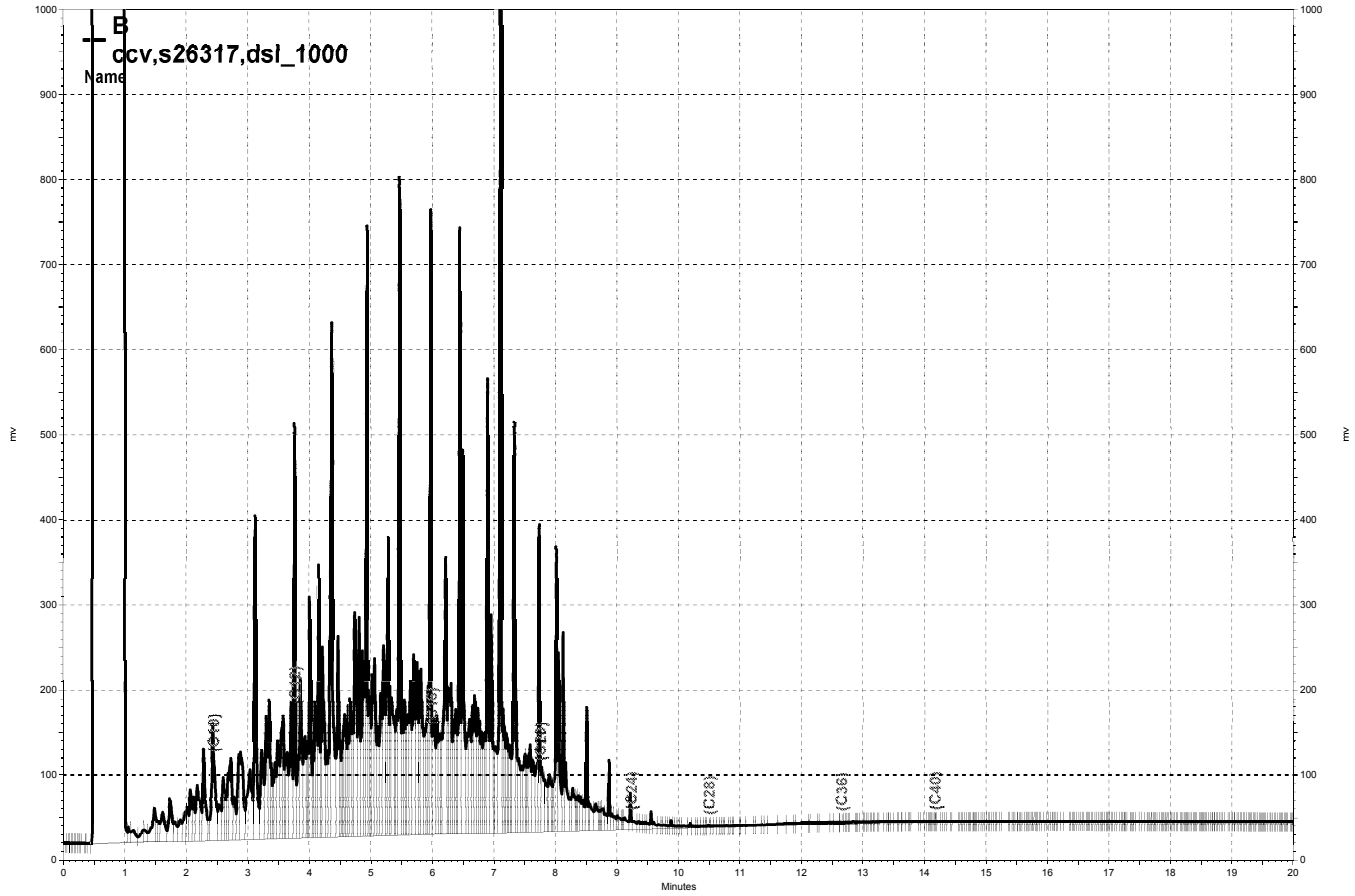

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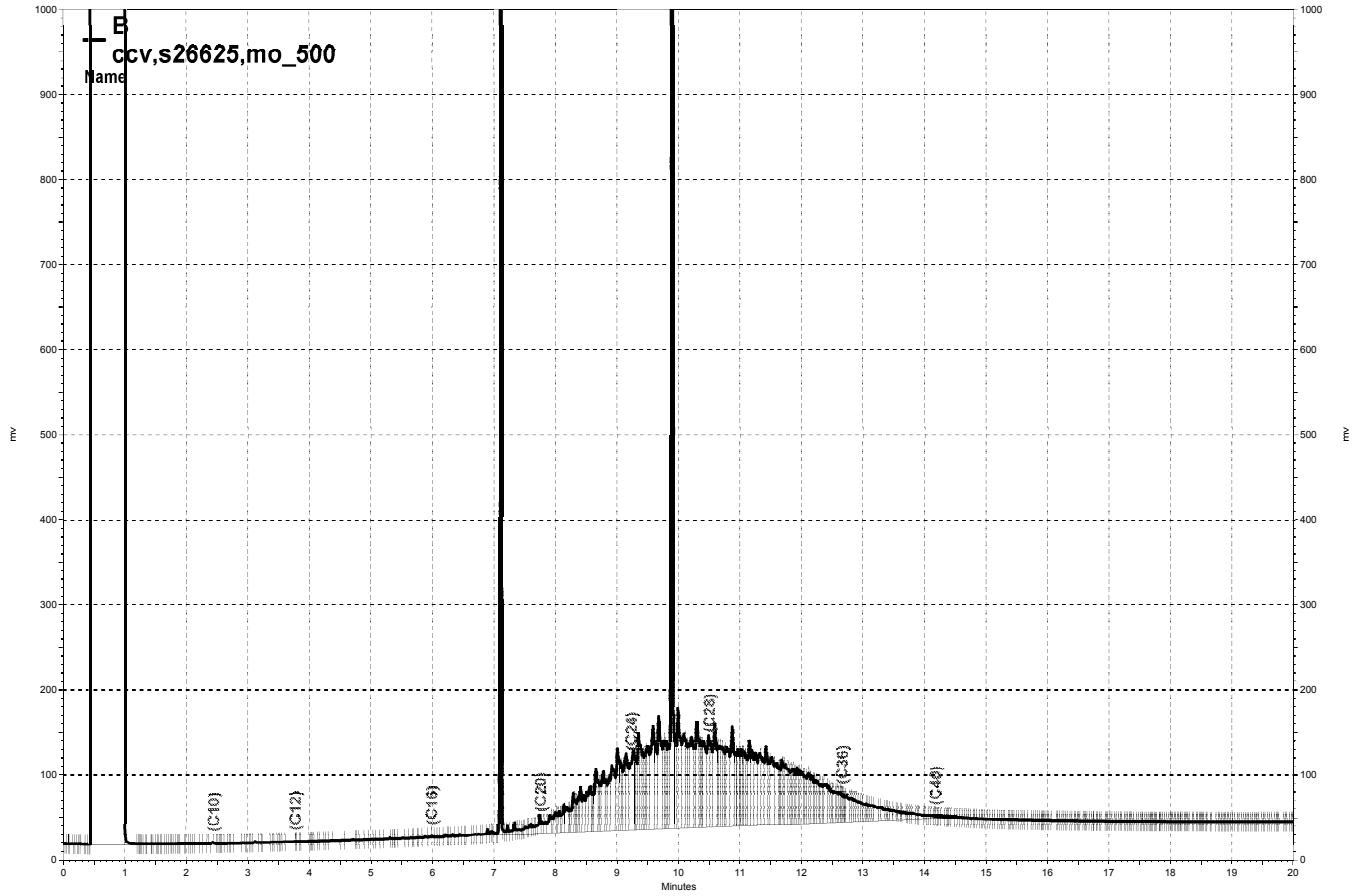

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-23-GW	Batch#:	220701
Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	1.1	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	3.0	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	1.9 J	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	0.3 J	10	0.1
Carbon Disulfide	0.4 J	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	0.2 J	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	0.2 J	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-23-GW	Batch#:	220701
Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	0.1 J	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-128
1,2-Dichloroethane-d4	105	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	94	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	EB-021915	Batch#:	220701
Lab ID:	264791-002	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	6.5 J	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	0.4 J	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	0.8 J	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	0.3 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	EB-021915	Batch#:	220701
Lab ID:	264791-002	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-128
1,2-Dichloroethane-d4	103	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-021915	Batch#:	220701
Lab ID:	264791-003	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-021915	Batch#:	220701
Lab ID:	264791-003	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-GW	Batch#:	220701
Lab ID:	264791-004	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	0.4 J	0.5	0.1
Bromomethane	0.2 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	3.7 J	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	0.5 J	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	25	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	65	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	2.7	0.5	0.1
Benzene	0.2 J	0.5	0.1
Trichloroethene	38	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	0.2 J	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	3.2	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-18-GW	Batch#:	220701
Lab ID:	264791-004	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-128
1,2-Dichloroethane-d4	105	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-GW	Batch#:	220737
Lab ID:	264791-005	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	1.7 J	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	4.3	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	0.4 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	4.2	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-11-GW	Batch#:	220737
Lab ID:	264791-005	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	220701
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Type: BS Lab ID: QC778285

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.95	96	66-135
Benzene	12.50	12.48	100	80-123
Trichloroethene	12.50	12.63	101	80-123
Toluene	12.50	12.97	104	80-121
Chlorobenzene	12.50	12.76	102	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC778286

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.37	91	66-135	5	24
Benzene	12.50	12.23	98	80-123	2	20
Trichloroethene	12.50	12.46	100	80-123	1	20
Toluene	12.50	12.33	99	80-121	5	20
Chlorobenzene	12.50	12.21	98	80-123	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-128
1,2-Dichloroethane-d4	103	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	93	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778287	Batch#:	220701
Matrix:	Water	Analyzed:	02/23/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	0.3 J	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778287	Batch#:	220701
Matrix:	Water	Analyzed:	02/23/15
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-128
1,2-Dichloroethane-d4	103	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	SB-23-GW	Batch#:	220701
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/23/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778346

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1591	12.50	11.52	92	73-129
Benzene	0.1855	12.50	13.03	103	80-120
Trichloroethene	<0.1000	12.50	13.66	109	73-123
Toluene	0.1512	12.50	12.83	101	80-120
Chlorobenzene	<0.1000	12.50	12.76	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

Type: MSD Lab ID: QC778347

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.57	93	73-129	0	25
Benzene	12.50	12.86	101	80-120	1	20
Trichloroethene	12.50	13.34	107	73-123	2	20
Toluene	12.50	12.73	101	80-120	1	21
Chlorobenzene	12.50	12.61	101	80-120	1	24

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	220737
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Type: BS Lab ID: QC778427

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.68	101	66-135
Benzene	12.50	13.28	106	80-123
Trichloroethene	12.50	12.95	104	80-123
Toluene	12.50	12.98	104	80-121
Chlorobenzene	12.50	13.37	107	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-128
1,2-Dichloroethane-d4	99	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

Type: BSD Lab ID: QC778428

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.01	96	66-135	5	24
Benzene	12.50	12.25	98	80-123	8	20
Trichloroethene	12.50	12.38	99	80-123	5	20
Toluene	12.50	12.83	103	80-121	1	20
Chlorobenzene	12.50	12.94	103	80-123	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-128
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778429	Batch#:	220737
Matrix:	Water	Analyzed:	02/24/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778429	Batch#:	220737
Matrix:	Water	Analyzed:	02/24/15
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	108	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-23-GW	Batch#:	220667
Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	2.9 J	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-23-GW	Batch#:	220667
Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	2.3 J	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	51	38-120
Phenol-d5	45	38-120
2,4,6-Tribromophenol	81	46-120
Nitrobenzene-d5	54	51-120
2-Fluorobiphenyl	56	54-120
Terphenyl-d14	11 *	21-120

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	EB-021915	Batch#:	220667
Lab ID:	264791-002	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	EB-021915	Batch#:	220667
Lab ID:	264791-002	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	63	38-120
Phenol-d5	62	38-120
2,4,6-Tribromophenol	79	46-120
Nitrobenzene-d5	72	51-120
2-Fluorobiphenyl	75	54-120
Terphenyl-d14	60	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-GW	Batch#:	220667
Lab ID:	264791-004	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-18-GW	Batch#:	220667
Lab ID:	264791-004	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	67	38-120
Phenol-d5	66	38-120
2,4,6-Tribromophenol	88	46-120
Nitrobenzene-d5	79	51-120
2-Fluorobiphenyl	78	54-120
Terphenyl-d14	47	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-GW	Batch#:	220667
Lab ID:	264791-005	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-11-GW	Batch#:	220667
Lab ID:	264791-005	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	61	38-120
Phenol-d5	60	38-120
2,4,6-Tribromophenol	85	46-120
Nitrobenzene-d5	72	51-120
2-Fluorobiphenyl	67	54-120
Terphenyl-d14	23	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778162	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778162	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	70	38-120
Phenol-d5	70	38-120
2,4,6-Tribromophenol	88	46-120
Nitrobenzene-d5	68	51-120
2-Fluorobiphenyl	71	54-120
Terphenyl-d14	72	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC778163	Batch#:	220667
Matrix:	Water	Prepared:	02/20/15
Units:	ug/L	Analyzed:	02/23/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	54.73	68	46-120
2-Chlorophenol	80.00	63.92	80	48-120
1,4-Dichlorobenzene	80.00	49.14	61	52-120
N-Nitroso-di-n-propylamine	80.00	56.17	70	46-120
1,2,4-Trichlorobenzene	80.00	55.21	69	53-120
4-Chloro-3-methylphenol	80.00	63.25	79	40-120
Acenaphthene	30.00	22.45	75	61-120
4-Nitrophenol	80.00	73.19	91	40-120
2,4-Dinitrotoluene	80.00	71.23	89	64-120
Pentachlorophenol	80.00	70.83	89	47-120
Pyrene	30.00	23.64	79	62-120

Surrogate	%REC	Limits
2-Fluorophenol	66	38-120
Phenol-d5	70	38-120
2,4,6-Tribromophenol	96	46-120
Nitrobenzene-d5	65	51-120
2-Fluorobiphenyl	73	54-120
Terphenyl-d14	75	21-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	220667
MSS Lab ID:	264735-006	Sampled:	02/17/15
Matrix:	Water	Received:	02/17/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	1.000	Analyzed:	02/24/15

Type: MS Lab ID: QC778164

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<1.664	80.00	59.88	75	55-120
2-Chlorophenol	<1.597	80.00	58.81	74	57-120
1,4-Dichlorobenzene	<1.648	80.00	56.59	71	51-120
N-Nitroso-di-n-propylamine	<1.996	80.00	58.91	74	57-120
1,2,4-Trichlorobenzene	<1.420	80.00	55.51	69	62-120
4-Chloro-3-methylphenol	<1.366	80.00	66.46	83	62-120
Acenaphthene	<1.377	30.00	22.37	75	55-120
4-Nitrophenol	<1.177	80.00	69.23	87	61-120
2,4-Dinitrotoluene	<1.455	80.00	61.16	76	58-120
Pentachlorophenol	<1.288	80.00	66.49	83	56-122
Pyrene	<1.254	30.00	23.21	77	63-120

Surrogate	%REC	Limits
2-Fluorophenol	67	38-120
Phenol-d5	67	38-120
2,4,6-Tribromophenol	80	46-120
Nitrobenzene-d5	72	51-120
2-Fluorobiphenyl	56	54-120
Terphenyl-d14	65	21-120

Type: MSD Lab ID: QC778165

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	80.00	59.14	74	55-120	1	31
2-Chlorophenol	80.00	58.84	74	57-120	0	31
1,4-Dichlorobenzene	80.00	55.40	69	51-120	2	45
N-Nitroso-di-n-propylamine	80.00	55.49	69	57-120	6	28
1,2,4-Trichlorobenzene	80.00	52.82	66	62-120	5	29
4-Chloro-3-methylphenol	80.00	63.33	79	62-120	5	28
Acenaphthene	30.00	22.31	74	55-120	0	35
4-Nitrophenol	80.00	66.11	83	61-120	5	55
2,4-Dinitrotoluene	80.00	60.20	75	58-120	2	43
Pentachlorophenol	80.00	64.27	80	56-122	3	58
Pyrene	30.00	22.56	75	63-120	3	29

Surrogate	%REC	Limits
2-Fluorophenol	73	38-120
Phenol-d5	74	38-120
2,4,6-Tribromophenol	78	46-120
Nitrobenzene-d5	71	51-120
2-Fluorobiphenyl	60	54-120
Terphenyl-d14	65	21-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	SB-23-GW	Batch#:	220667
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/20/15
Diln Fac:	2.000	Analyzed:	02/24/15

Type: MS Lab ID: QC778166

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	2.923	80.00	87.55	106	55-120
2-Chlorophenol	<1.597	80.00	65.71	82	57-120
1,4-Dichlorobenzene	<1.648	80.00	57.38	72	51-120
N-Nitroso-di-n-propylamine	<1.996	80.00	57.46	72	57-120
1,2,4-Trichlorobenzene	<1.420	80.00	59.63	75	62-120
4-Chloro-3-methylphenol	<1.366	80.00	58.76	73	62-120
Acenaphthene	<1.377	30.00	22.27	74	55-120
4-Nitrophenol	<1.177	80.00	75.54	94	61-120
2,4-Dinitrotoluene	<1.455	80.00	67.88	85	58-120
Pentachlorophenol	<1.288	80.00	68.62	86	56-122
Pyrene	<1.254	30.00	22.26	74	63-120

Surrogate	%REC	Limits
2-Fluorophenol	73	38-120
Phenol-d5	73	38-120
2,4,6-Tribromophenol	90	46-120
Nitrobenzene-d5	66	51-120
2-Fluorobiphenyl	75	54-120
Terphenyl-d14	44	21-120

Type: MSD Lab ID: QC778167

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	80.00	76.93	93	55-120	13	31
2-Chlorophenol	80.00	59.39	74	57-120	10	31
1,4-Dichlorobenzene	80.00	53.34	67	51-120	7	45
N-Nitroso-di-n-propylamine	80.00	51.97	65	57-120	10	28
1,2,4-Trichlorobenzene	80.00	54.22	68	62-120	10	29
4-Chloro-3-methylphenol	80.00	56.43	71	62-120	4	28
Acenaphthene	30.00	19.08	64	55-120	15	35
4-Nitrophenol	80.00	65.48	82	61-120	14	55
2,4-Dinitrotoluene	80.00	60.58	76	58-120	11	43
Pentachlorophenol	80.00	54.64	68	56-122	23	58
Pyrene	30.00	13.32	44 *	63-120	50 *	29

Surrogate	%REC	Limits
2-Fluorophenol	66	38-120
Phenol-d5	66	38-120
2,4,6-Tribromophenol	84	46-120
Nitrobenzene-d5	60	51-120
2-Fluorobiphenyl	66	54-120
Terphenyl-d14	15 *	21-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/19/15
Units:	ug/L	Received:	02/19/15
Diln Fac:	1.000	Prepared:	02/23/15
Batch#:	220728		

Field ID: SB-23-GW Lab ID: 264791-001
Type: SAMPLE Analyzed: 02/24/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	58	39-120
Decachlorobiphenyl	78	28-120

Field ID: EB-021915 Lab ID: 264791-002
Type: SAMPLE Analyzed: 02/25/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	56	39-120
Decachlorobiphenyl	79	28-120

Field ID: SB-18-GW Lab ID: 264791-004
Type: SAMPLE Analyzed: 02/25/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	79	39-120
Decachlorobiphenyl	96	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/19/15
Units:	ug/L	Received:	02/19/15
Diln Fac:	1.000	Prepared:	02/23/15
Batch#:	220728		

Field ID:	SB-11-GW	Lab ID:	264791-005
Type:	SAMPLE	Analyzed:	02/25/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	65	39-120
Decachlorobiphenyl	88	28-120

Type:	BLANK	Analyzed:	02/24/15
Lab ID:	QC778399		

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	64	39-120
Decachlorobiphenyl	84	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778400	Batch#:	220728
Matrix:	Water	Prepared:	02/23/15
Units:	ug/L	Analyzed:	02/24/15

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.989	100	62-127
Aroclor-1260	5.000	4.386	88	60-135

Surrogate	%REC	Limits
TCMX	67	39-120
Decachlorobiphenyl	79	28-120

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Field ID:	SB-23-GW	Batch#:	220728
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/23/15
Diln Fac:	1.000	Analyzed:	02/24/15

Type: MS Lab ID: QC778401

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<0.1612	5.000	3.873	77	52-137
Aroclor-1260	<0.1344	5.000	3.457	69	50-145

Surrogate	%REC	Limits
TCMX	78	39-120
Decachlorobiphenyl	83	28-120

Type: MSD Lab ID: QC778402

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	5.084	102	52-137	27	39
Aroclor-1260	5.000	4.942	99	50-145	35	50

Surrogate	%REC	Limits
TCMX	92	39-120
Decachlorobiphenyl	97	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-23-GW	Diln Fac:	1.000
Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Barium	120	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	220800	02/25/15	02/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	220800	02/25/15	02/25/15	EPA 6010B
Chromium	ND	5.0	0.60	220800	02/25/15	02/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	220800	02/25/15	02/25/15	EPA 6010B
Copper	ND	5.0	0.67	220800	02/25/15	02/25/15	EPA 6010B
Lead	ND	5.0	1.3	220800	02/25/15	02/25/15	EPA 6010B
Mercury	0.042 J	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	13	5.0	0.55	220800	02/25/15	02/25/15	EPA 6010B
Nickel	6.2	5.0	0.75	220800	02/25/15	02/25/15	EPA 6010B
Selenium	7.1 J	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Silver	ND	5.0	1.1	220800	02/25/15	02/25/15	EPA 6010B
Thallium	ND	10	2.8	220800	02/25/15	02/25/15	EPA 6010B
Vanadium	4.0 J	5.0	0.72	220800	02/25/15	02/25/15	EPA 6010B
Zinc	ND	20	2.8	220800	02/25/15	02/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	EB-021915	Diln Fac:	1.000
Lab ID:	264791-002	Sampled:	02/19/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Barium	ND	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	220800	02/25/15	02/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	220800	02/25/15	02/25/15	EPA 6010B
Chromium	ND	5.0	0.60	220800	02/25/15	02/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	220800	02/25/15	02/25/15	EPA 6010B
Copper	ND	5.0	0.67	220800	02/25/15	02/25/15	EPA 6010B
Lead	ND	5.0	1.3	220800	02/25/15	02/25/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	ND	5.0	0.55	220800	02/25/15	02/25/15	EPA 6010B
Nickel	ND	5.0	0.75	220800	02/25/15	02/25/15	EPA 6010B
Selenium	ND	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Silver	ND	5.0	1.1	220800	02/25/15	02/25/15	EPA 6010B
Thallium	ND	10	2.8	220800	02/25/15	02/25/15	EPA 6010B
Vanadium	ND	5.0	0.72	220800	02/25/15	02/25/15	EPA 6010B
Zinc	4.6 J	20	2.8	220800	02/25/15	02/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-18-GW	Diln Fac:	1.000
Lab ID:	264791-004	Sampled:	02/19/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	5.0 J	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Arsenic	5.4	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Barium	120	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	220800	02/25/15	02/25/15	EPA 6010B
Cadmium	5.4	5.0	0.28	220800	02/25/15	02/25/15	EPA 6010B
Chromium	ND	5.0	0.60	220800	02/25/15	02/25/15	EPA 6010B
Cobalt	1.2 J	5.0	0.89	220800	02/25/15	02/25/15	EPA 6010B
Copper	1.9 J	5.0	0.67	220800	02/25/15	02/25/15	EPA 6010B
Lead	6.9	5.0	1.3	220800	02/25/15	02/25/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	15	5.0	0.55	220800	02/25/15	02/25/15	EPA 6010B
Nickel	7.4	5.0	0.75	220800	02/25/15	02/25/15	EPA 6010B
Selenium	6.7 J	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Silver	ND	5.0	1.1	220800	02/25/15	02/25/15	EPA 6010B
Thallium	ND	10	2.8	220800	02/25/15	02/25/15	EPA 6010B
Vanadium	8.4	5.0	0.72	220800	02/25/15	02/25/15	EPA 6010B
Zinc	ND	20	2.8	220800	02/25/15	02/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	SB-11-GW	Diln Fac:	1.000
Lab ID:	264791-005	Sampled:	02/19/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Barium	77	5.0	1.0	220800	02/25/15	02/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	220800	02/25/15	02/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	220800	02/25/15	02/25/15	EPA 6010B
Chromium	ND	5.0	0.60	220800	02/25/15	02/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	220800	02/25/15	02/25/15	EPA 6010B
Copper	ND	5.0	0.67	220800	02/25/15	02/25/15	EPA 6010B
Lead	ND	5.0	1.3	220800	02/25/15	02/25/15	EPA 6010B
Mercury	ND	0.20	0.040	220745	02/24/15	02/24/15	EPA 7470A
Molybdenum	8.2	5.0	0.55	220800	02/25/15	02/25/15	EPA 6010B
Nickel	2.1 J	5.0	0.75	220800	02/25/15	02/25/15	EPA 6010B
Selenium	5.1 J	10	2.3	220800	02/25/15	02/25/15	EPA 6010B
Silver	ND	5.0	1.1	220800	02/25/15	02/25/15	EPA 6010B
Thallium	ND	10	2.8	220800	02/25/15	02/25/15	EPA 6010B
Vanadium	4.4 J	5.0	0.72	220800	02/25/15	02/25/15	EPA 6010B
Zinc	4.1 J	20	2.8	220800	02/25/15	02/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220745
Lab ID:	QC778464	Prepared:	02/24/15
Matrix:	Filtrate	Analyzed:	02/24/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.040

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220745
Lab ID:	QC778465	Prepared:	02/24/15
Matrix:	Filtrate	Analyzed:	02/24/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.040

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220745
Matrix:	Water	Prepared:	02/24/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC778466	2.500	2.454	98	80-120		
BSD	QC778467	2.500	2.378	95	80-120	3	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220745
Field ID:	SB-23-GW	Sampled:	02/19/15
MSS Lab ID:	264791-001	Received:	02/19/15
Matrix:	Filtrate	Prepared:	02/24/15
Units:	ug/L	Analyzed:	02/24/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC778468	0.04164	2.500	2.684	106	60-130		
MSD	QC778469		2.500	2.454	97	60-130	9	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778673	Batch#:	220800
Matrix:	Filtrate	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/25/15

Analyte	Result	RL	MDL
Antimony	ND	10	2.3
Arsenic	ND	5.0	1.0
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.15
Cadmium	ND	5.0	0.28
Chromium	ND	5.0	0.60
Cobalt	ND	5.0	0.89
Copper	ND	5.0	0.67
Lead	ND	5.0	1.3
Molybdenum	ND	5.0	0.55
Nickel	ND	5.0	0.75
Selenium	ND	10	2.3
Silver	ND	5.0	1.1
Thallium	ND	10	2.8
Vanadium	ND	5.0	0.72
Zinc	24 b	20	2.8

b= See narrative
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	220800
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/25/15

Type: BS Lab ID: QC778674

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	89.16	89	79-120
Arsenic	100.0	91.86	92	80-120
Barium	100.0	102.3	102	80-120
Beryllium	100.0	107.3	107	80-120
Cadmium	100.0	105.8	106	80-120
Chromium	100.0	97.51	98	80-120
Cobalt	100.0	94.60	95	80-120
Copper	100.0	95.07	95	80-120
Lead	100.0	94.70	95	80-120
Molybdenum	100.0	91.85	92	80-120
Nickel	100.0	98.48	98	80-120
Selenium	100.0	96.97	97	80-120
Silver	100.0	98.17	98	77-120
Thallium	50.00	50.84	102	80-121
Vanadium	100.0	100.0	100	80-120
Zinc	100.0	101.3	101	80-120

Type: BSD Lab ID: QC778675

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	92.10	92	79-120	3	20
Arsenic	100.0	92.84	93	80-120	1	20
Barium	100.0	100.6	101	80-120	2	20
Beryllium	100.0	108.7	109	80-120	1	20
Cadmium	100.0	105.4	105	80-120	0	20
Chromium	100.0	96.05	96	80-120	2	20
Cobalt	100.0	95.82	96	80-120	1	20
Copper	100.0	93.13	93	80-120	2	20
Lead	100.0	96.14	96	80-120	2	20
Molybdenum	100.0	97.96	98	80-120	6	20
Nickel	100.0	97.06	97	80-120	1	20
Selenium	100.0	100.3	100	80-120	3	20
Silver	100.0	96.75	97	77-120	1	20
Thallium	50.00	54.41	109	80-121	7	20
Vanadium	100.0	98.46	98	80-120	2	20
Zinc	100.0	102.8	103	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	SB-23-GW	Batch#:	220800
MSS Lab ID:	264791-001	Sampled:	02/19/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/25/15

Type: MS Lab ID: QC778676

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<2.348	100.0	92.95	93	74-120
Arsenic	<1.028	100.0	93.65	94	80-127
Barium	116.7	100.0	211.0	94	80-120
Beryllium	<0.1463	100.0	106.6	107	80-120
Cadmium	<0.2822	100.0	101.5	101	80-120
Chromium	<0.6000	100.0	95.19	95	80-120
Cobalt	<0.8861	100.0	91.52	92	80-120
Copper	<0.6734	100.0	92.13	92	80-120
Lead	<1.306	100.0	88.25	88	67-120
Molybdenum	12.83	100.0	110.0	97	80-120
Nickel	6.224	100.0	98.34	92	80-120
Selenium	7.112	100.0	109.1	102	73-132
Silver	<1.126	100.0	95.23	95	67-120
Thallium	<2.777	50.00	52.23	104	76-121
Vanadium	4.037	100.0	102.8	99	80-120
Zinc	<2.830	100.0	103.4	103	80-122

Type: MSD Lab ID: QC778677

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.83	94	74-120	1	24
Arsenic	100.0	95.77	96	80-127	2	25
Barium	100.0	213.9	97	80-120	1	20
Beryllium	100.0	111.3	111	80-120	4	20
Cadmium	100.0	104.9	105	80-120	3	20
Chromium	100.0	97.85	98	80-120	3	20
Cobalt	100.0	94.17	94	80-120	3	20
Copper	100.0	94.50	94	80-120	3	20
Lead	100.0	90.93	91	67-120	3	23
Molybdenum	100.0	111.8	99	80-120	2	20
Nickel	100.0	101.4	95	80-120	3	20
Selenium	100.0	111.1	104	73-132	2	30
Silver	100.0	98.40	98	67-120	3	22
Thallium	50.00	54.94	110	76-121	5	20
Vanadium	100.0	105.5	101	80-120	3	20
Zinc	100.0	103.6	104	80-122	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	220639
Matrix:	Water	Received:	02/19/15
Units:	mg/L	Analyzed:	02/19/15 18:05
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
SB-23-GW	SAMPLE	264791-001	ND	0.01	02/19/15 10:30
EB-021915	SAMPLE	264791-002	ND	0.01	02/19/15 12:00
SB-18-GW	SAMPLE	264791-004	ND	0.01	02/19/15 16:15
SB-11-GW	SAMPLE	264791-005	ND	0.01	02/19/15 15:20
	BLANK	QC778046	ND	0.01	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264791	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	SB-23-GW	Batch#:	220639
MSS Lab ID:	264791-001	Sampled:	02/19/15 10:30
Matrix:	Water	Received:	02/19/15
Units:	mg/L	Analyzed:	02/19/15 18:05

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC778047		1.000	0.9010	90	90-110		
MS	QC778048	<0.01000	1.000	0.8640	86	85-115		
MSD	QC778049		1.000	0.8850	89	85-115	2	23

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 264875
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
MW-3-GW	264875-001
MW-1-GW	264875-002
TB-022415	264875-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/05/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264875**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/24/15**
Samples Received:	**02/24/15**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 02/24/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220788. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):
Mercury was detected between the MDL and the RL in the method blank for batch 220921; this analyte was not detected in samples at or above the RL. Nickel was detected between the MDL and the RL in the method blank for batch 220929; this analyte was detected in samples at a level at least 10 times that of the blank. Zinc was detected between the MDL and the RL in the method blank for batch 220929; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

Subject: Re: C1374 - C&T Login Summary (264875)
From: Chris Lyles <clyles@integral-corp.com>
Date: 2/24/2015 7:59 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: Bridgette DeShields <bdeshields@integral-corp.com>

Again, my field sampler forgot to include this on the chain. Please run for VOCs by 8260. Standard TAT.

Christopher B. Lyles, GIT | Associate Geologist
Integral Consulting Inc. | www.integral-corp.com
115 Sansome Street, Suite 200 |San Francisco, CA 94104
Tel: 415.393.4750 ext: 851| Cell: 301.706.0791|

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY
This correspondence contains confidential or privileged information from Integral Consulting Inc. It may be "Attorney-Client Privileged" and protected as "Work Product". The information contained herein is intended for the use of the individual or party named above. If you are not the intended recipient, note that any copying, distribution, disclosure, or use of the text and/or attached document(s) is strictly prohibited. If you have received this correspondence in error, please notify sender immediately. Thank you.

On Feb 24, 2015, at 5:42 PM, "Tracy Babjar" <tracy.babjar@ctberk.com> wrote:

Received 1 trip blank (TB-022415) not listed on COC, currently on hold. Please advise

C&T Login Summary for 264875

Project: C1374 **Site:** Allied Engineering **Lab Login #:** 264875 **Report Level:** II **PO#:** **C&T Proj Mgr:** Tracy Babjar	**Report To:** Integral Consulting, Inc. 115 Sansome Street Suite 200 San Francisco, CA 94104 ATTN: Bridgette DeShields (415) 393-4750	**Bill To:** Integral Consulting, 285 Century Place Suite 190 Lousville, CO 80027 ATTN: Anthea Whit

Report to MDL

Client ID	Lab ID	Sampled	Received	DueDate	Matrix	Dry	Analyses	COC #	Comments
MW-3-GW	001	02/24/15 11:50	02/24/15			N			
				03/03	Filtrate		6010-T22 MET		Lab Filter for FILTRATES

CHAIN OF CUSTODY

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Fax (510) 486-0532

C&T LOGIN # 264875

Chain of Custody #

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 0201
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: S. Sherman
Report To: Bridgette DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	TPHg by 8015	TPHd by 8015	TPHmo by 8015	Full list VOCs by 8260	SVOCs by 8270	Dissolved Title 22 metals (Lab filtered)	Cr VI by 7196	PCBs by 8082
	MW-3-GW	2/24/15	1150	X		13	x6				x7								
	MW-1-GW	2/24/15	1500	X			x6				x7								

SS 02/24/15

Notes:
- Dissolved metals to be lab filtered
- Report to MDL
- EDF required

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
Stephen Sherman — DATE: 2/24/15 TIME: 1600
DATE: 2/24/15 TIME: 1635
DATE: TIME:

RECEIVED BY:
DATE: 2/24/15 TIME: 1600
DATE: 2/24/15 TIME: 1650
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 264875 Date Received 2/24/15 Number of coolers 1
Client Integral Consulting Inc. Project Allied Engineering

Date Opened 2/24 By (print) BL (sign) [illegible]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

   ☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☒ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.8

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO) BL
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

10.) -003: 1 Trip Blank VOA (TB-022415) extra not listed on COC

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 264875

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : MW-3-GW Laboratory Sample ID : 264875-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	17	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	22	J	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Trichloroethene	0.5	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	9.2		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	76		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Beryllium	0.21	J	2.0	0.15	ug/L	DISS.	1.000	EPA 6010B	METHOD
Chromium	0.77	J	5.0	0.60	ug/L	DISS.	1.000	EPA 6010B	METHOD
Copper	3.5	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.040	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	11		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	28		5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	14		10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Silver	3.6	J	5.0	1.1	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	4.1	J	5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	5.1	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : MW-1-GW Laboratory Sample ID : 264875-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	80		50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	120	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	96	J	300	96	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Vinyl Chloride	0.4	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	1.1		0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	2.5		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	1.4		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	11		5.0	1.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	150		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Chromium	1.5	J	5.0	0.57	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	2.4	J	5.0	0.40	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	96		5.0	0.71	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	4.8	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD

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Client Sample ID : TB-022415 Laboratory Sample ID : 264875-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Chloroform	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/24/15
Units:	ug/L	Received:	02/24/15
Diln Fac:	1.000	Analyzed:	02/25/15
Batch#:	220788		

Field ID: MW-3-GW Lab ID: 264875-001
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	17 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	80-132

Field ID: MW-1-GW Lab ID: 264875-002
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	80	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	80-132

Type: BLANK Lab ID: QC778623

Analyte	Result	RL	MDL
Gasoline C7-C12	11 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	80-132

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778622	Batch#:	220788
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	955.5	96	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-3-GW	Batch#:	220788
MSS Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778624

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	17.27	2,000	1,892	94	76-120

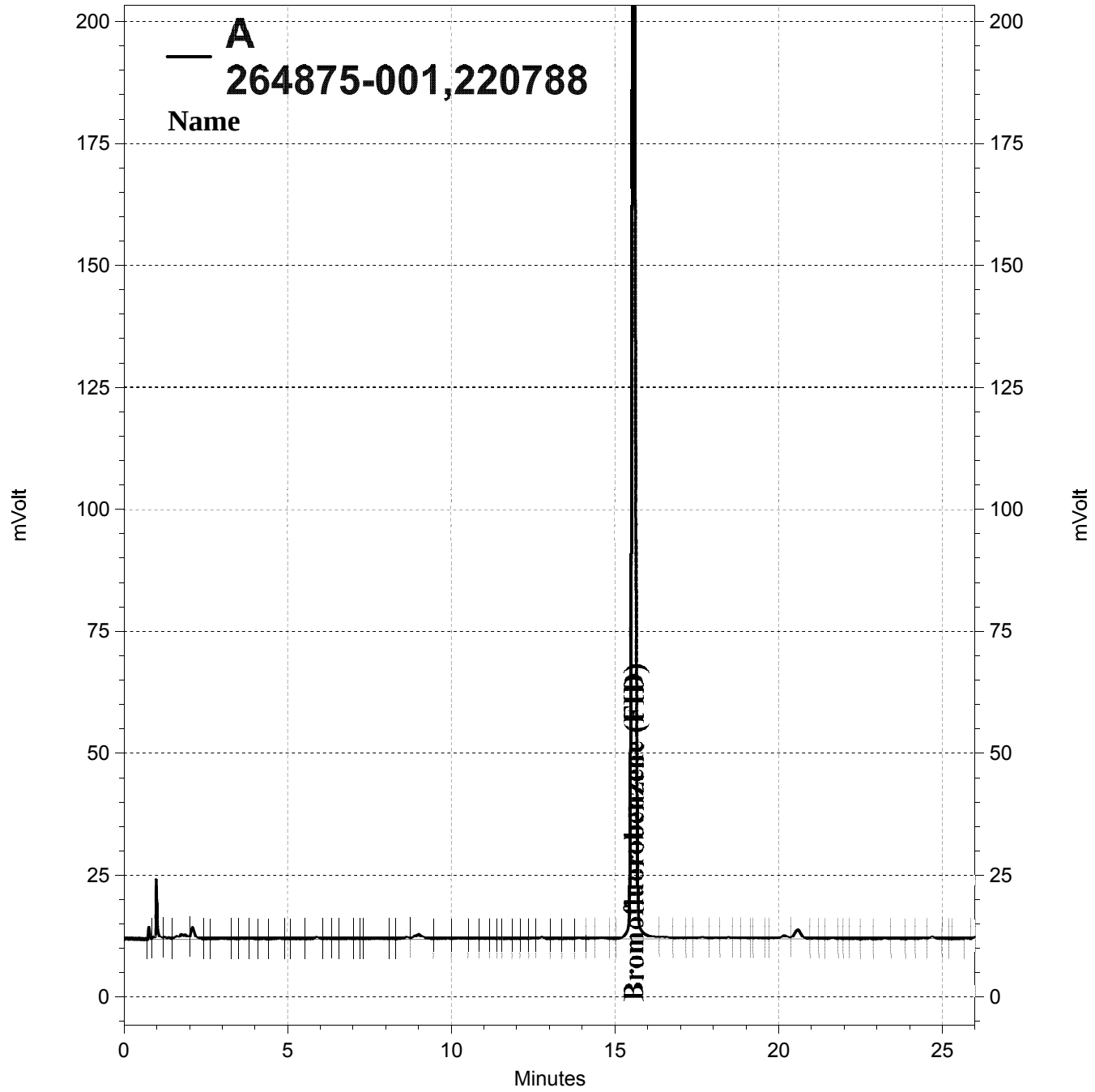
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	80-132

Type: MSD Lab ID: QC778625

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,664	82	76-120	13	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-132

RPD= Relative Percent Difference



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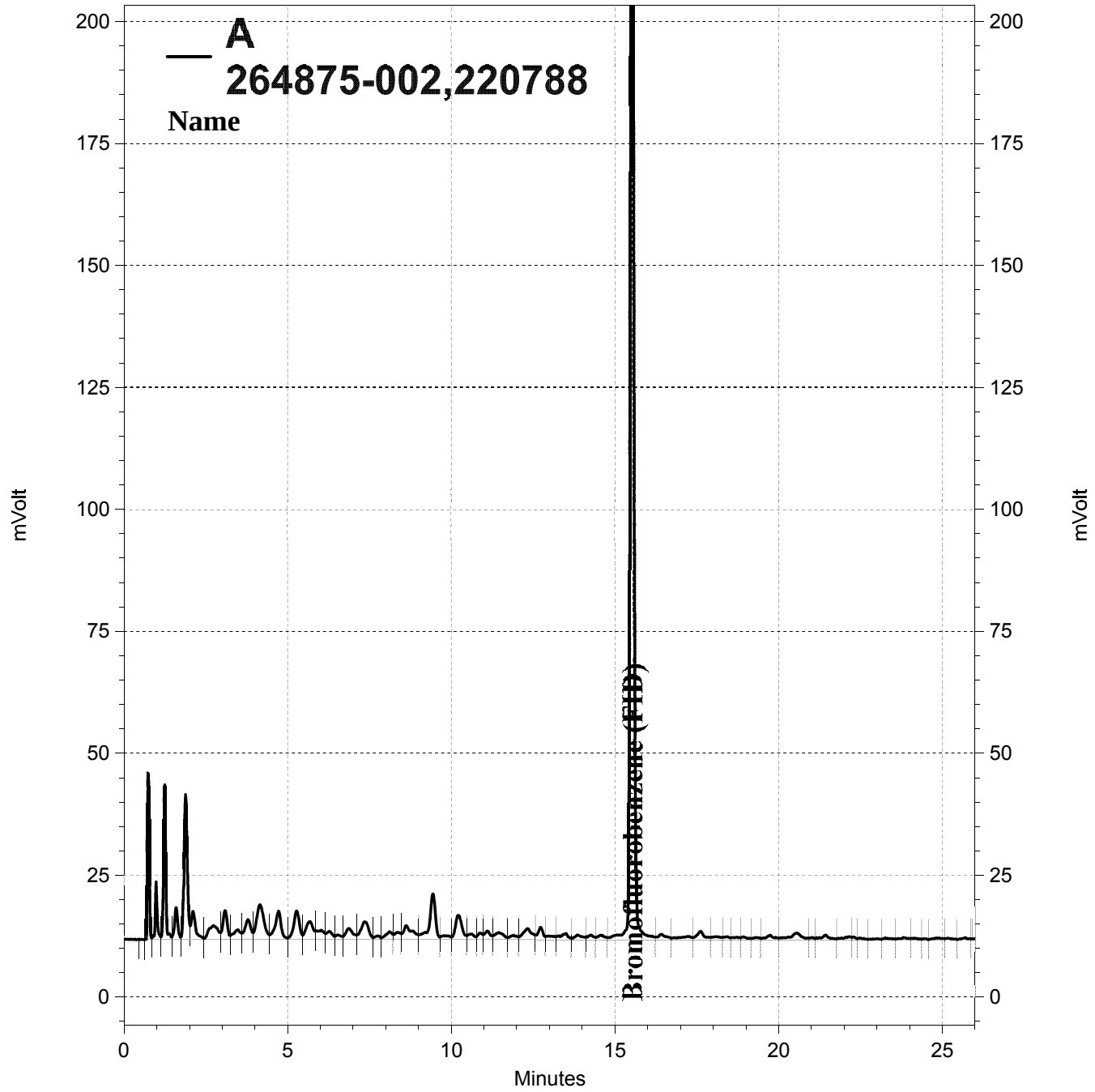

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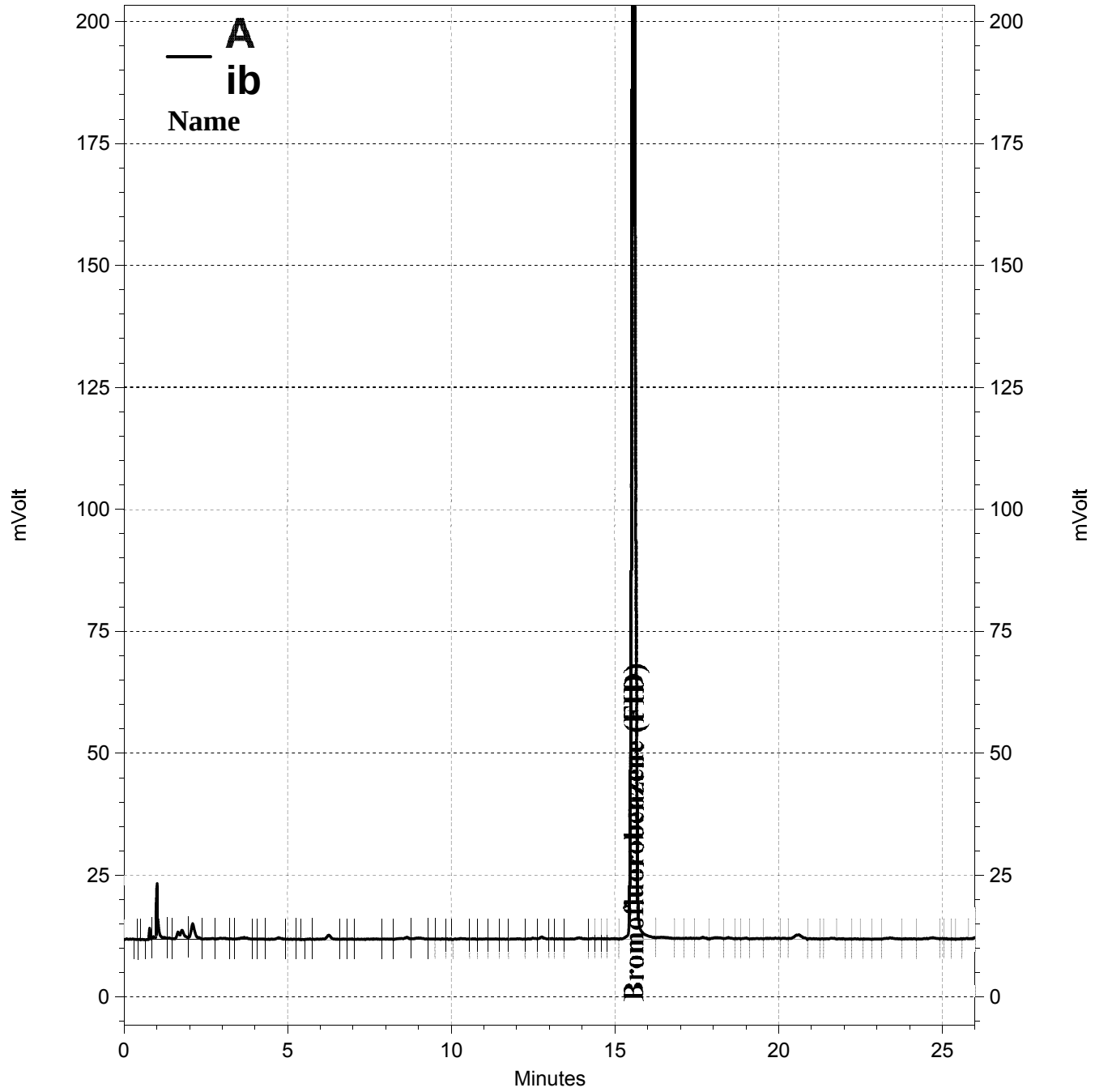

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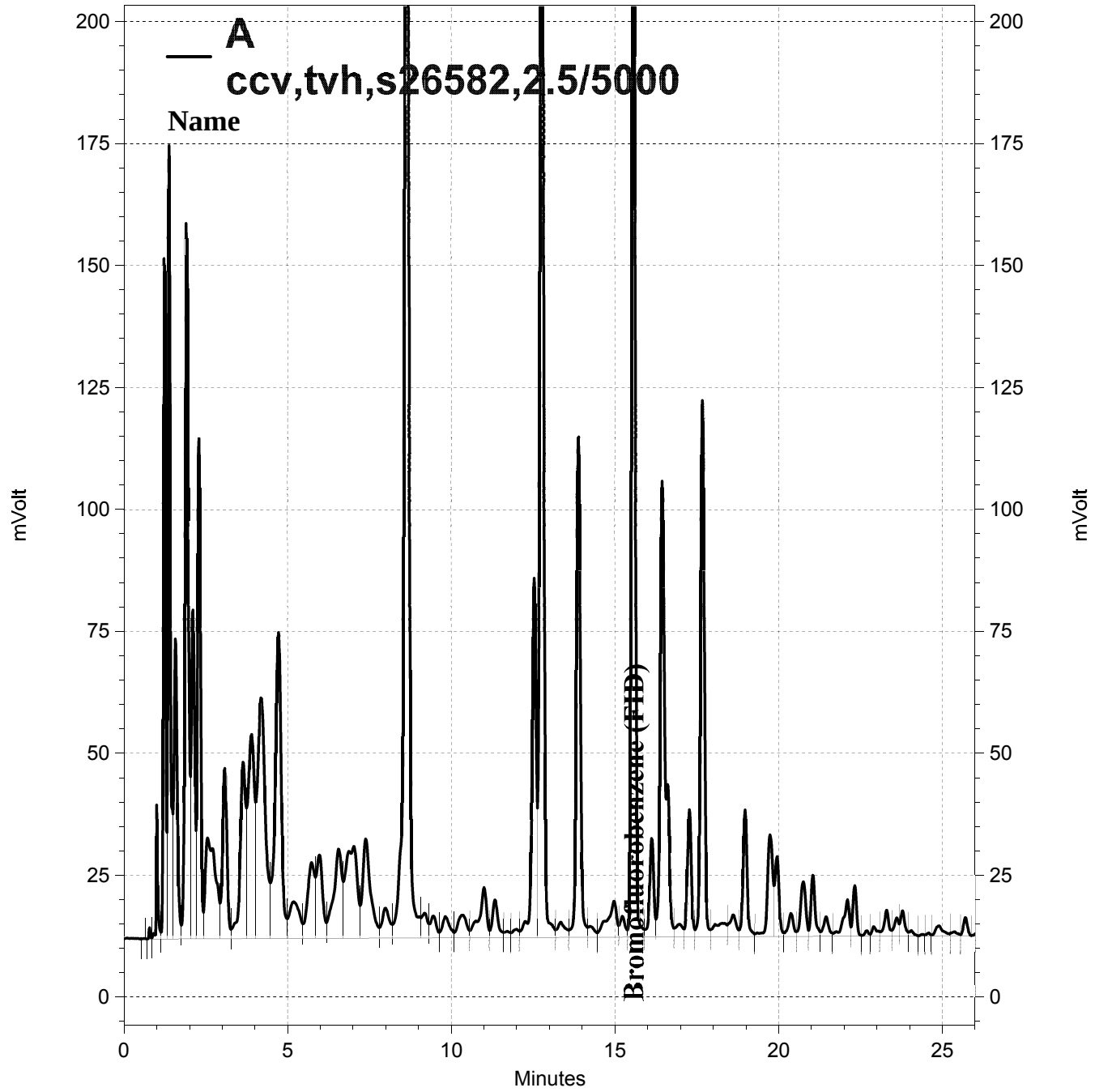

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/24/15
Units:	ug/L	Received:	02/24/15
Diln Fac:	1.000		

Field ID:	MW-3-GW	Batch#:	220807
Type:	SAMPLE	Prepared:	02/25/15
Lab ID:	264875-001	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Diesel C10-C24	22 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	102	67-136

Field ID:	MW-1-GW	Batch#:	220931
Type:	SAMPLE	Prepared:	03/02/15
Lab ID:	264875-002	Analyzed:	03/03/15

Analyte	Result	RL	MDL
Diesel C10-C24	120 Y	50	16
Motor Oil C24-C36	96 J	300	96

Surrogate	%REC	Limits
o-Terphenyl	96	67-136

Type:	BLANK	Prepared:	02/25/15
Lab ID:	QC778704	Analyzed:	02/26/15
Batch#:	220807		

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	95	67-136

Type:	BLANK	Prepared:	03/02/15
Lab ID:	QC779180	Analyzed:	03/03/15
Batch#:	220931		

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	100	67-136

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778705	Batch#:	220807
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,060	82	60-121

Surrogate	%REC	Limits
o-Terphenyl	91	67-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	220807
MSS Lab ID:	264765-003	Sampled:	02/18/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Type: MS Lab ID: QC778706

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	572.5	2,500	2,400	73	55-122

Surrogate	%REC	Limits
o-Terphenyl	83	67-136

Type: MSD Lab ID: QC778707

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,418	74	55-122	1	53

Surrogate	%REC	Limits
o-Terphenyl	82	67-136

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	220931
Units:	ug/L	Prepared:	03/02/15
Diln Fac:	1.000	Analyzed:	03/03/15

Type: BS Lab ID: QC779181

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,549	102	60-121

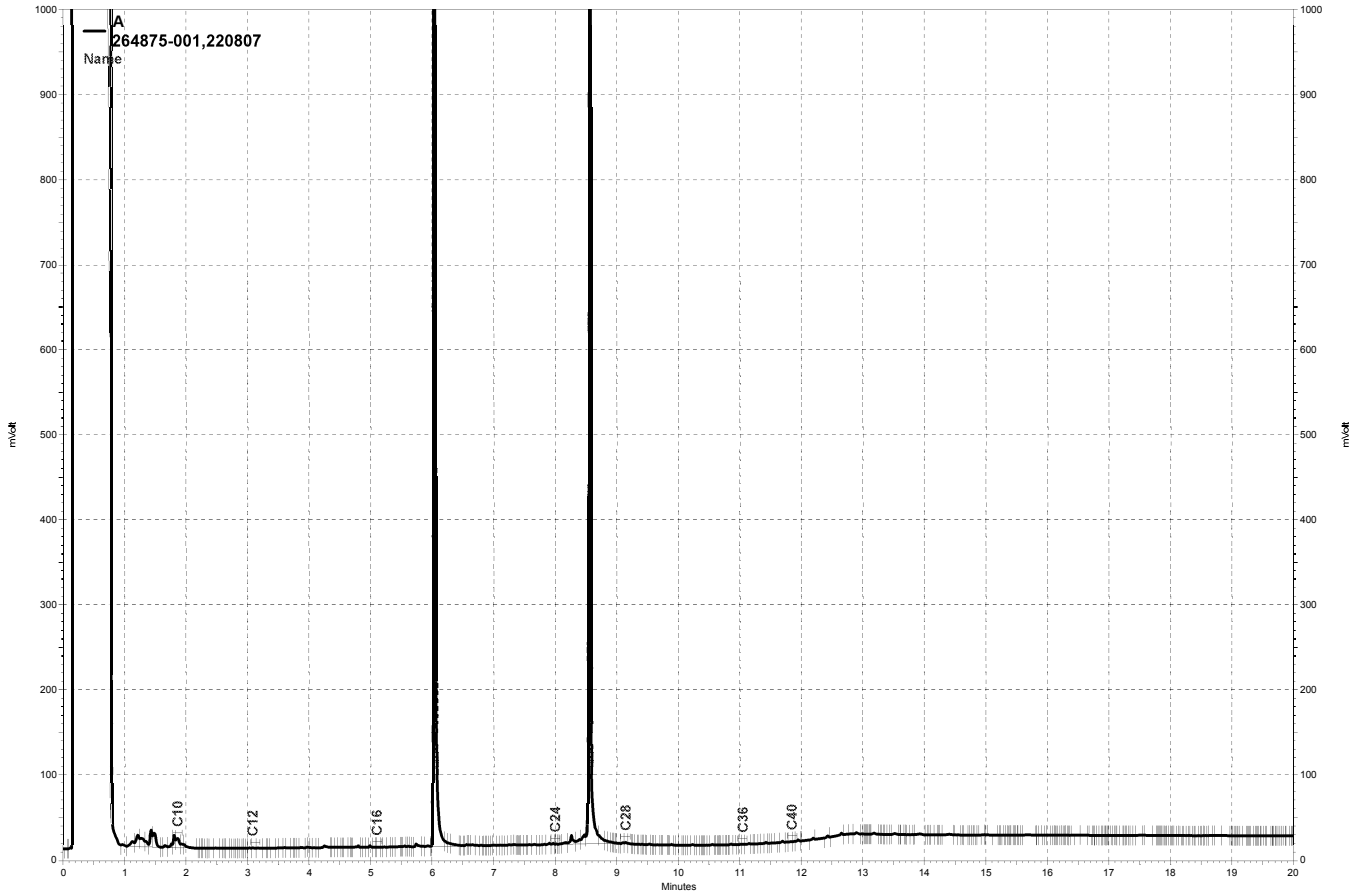
Surrogate	%REC	Limits
o-Terphenyl	98	67-136

Type: BSD Lab ID: QC779182

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,532	101	60-121	1	32

Surrogate	%REC	Limits
o-Terphenyl	109	67-136

RPD= Relative Percent Difference



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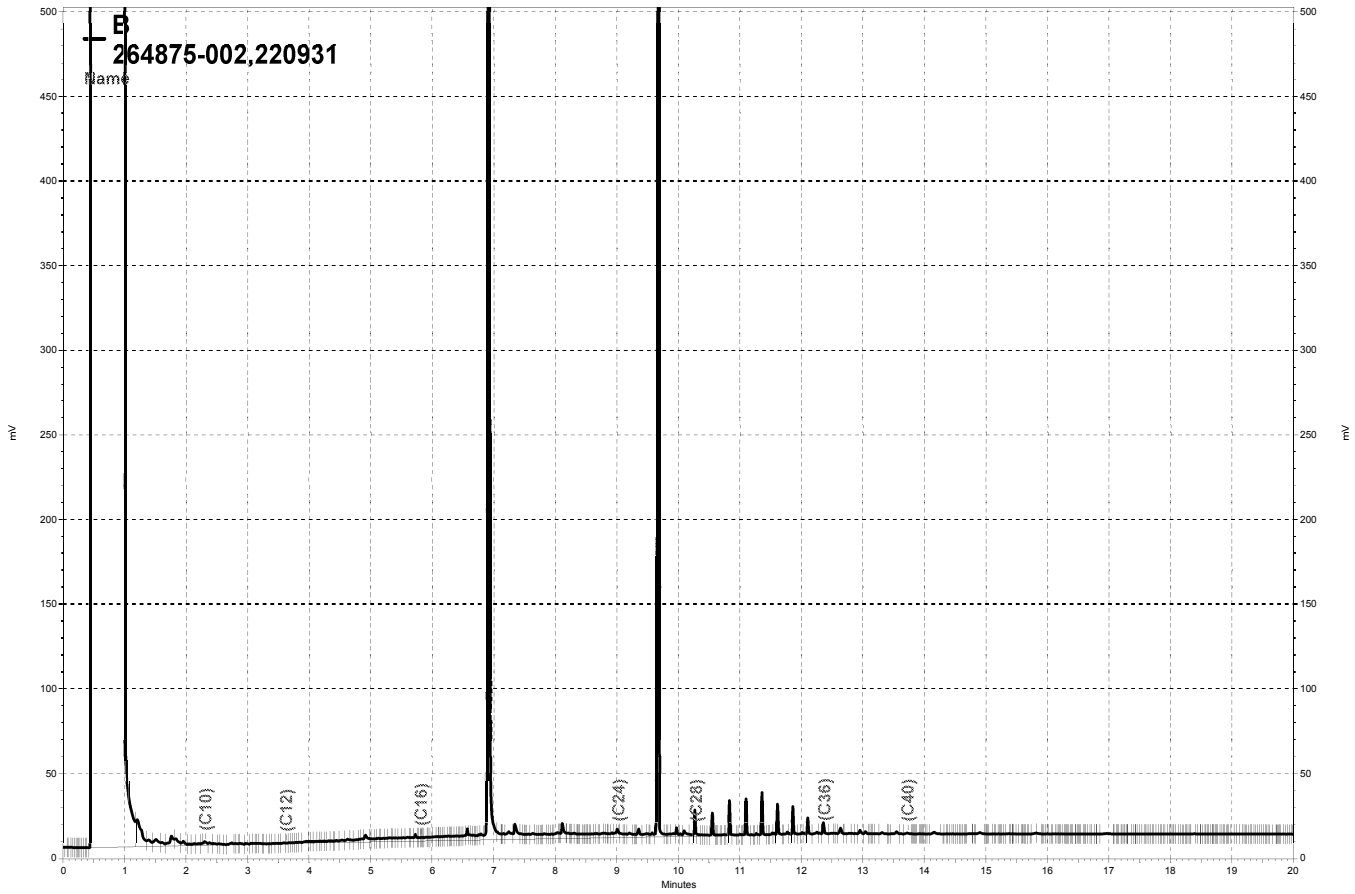

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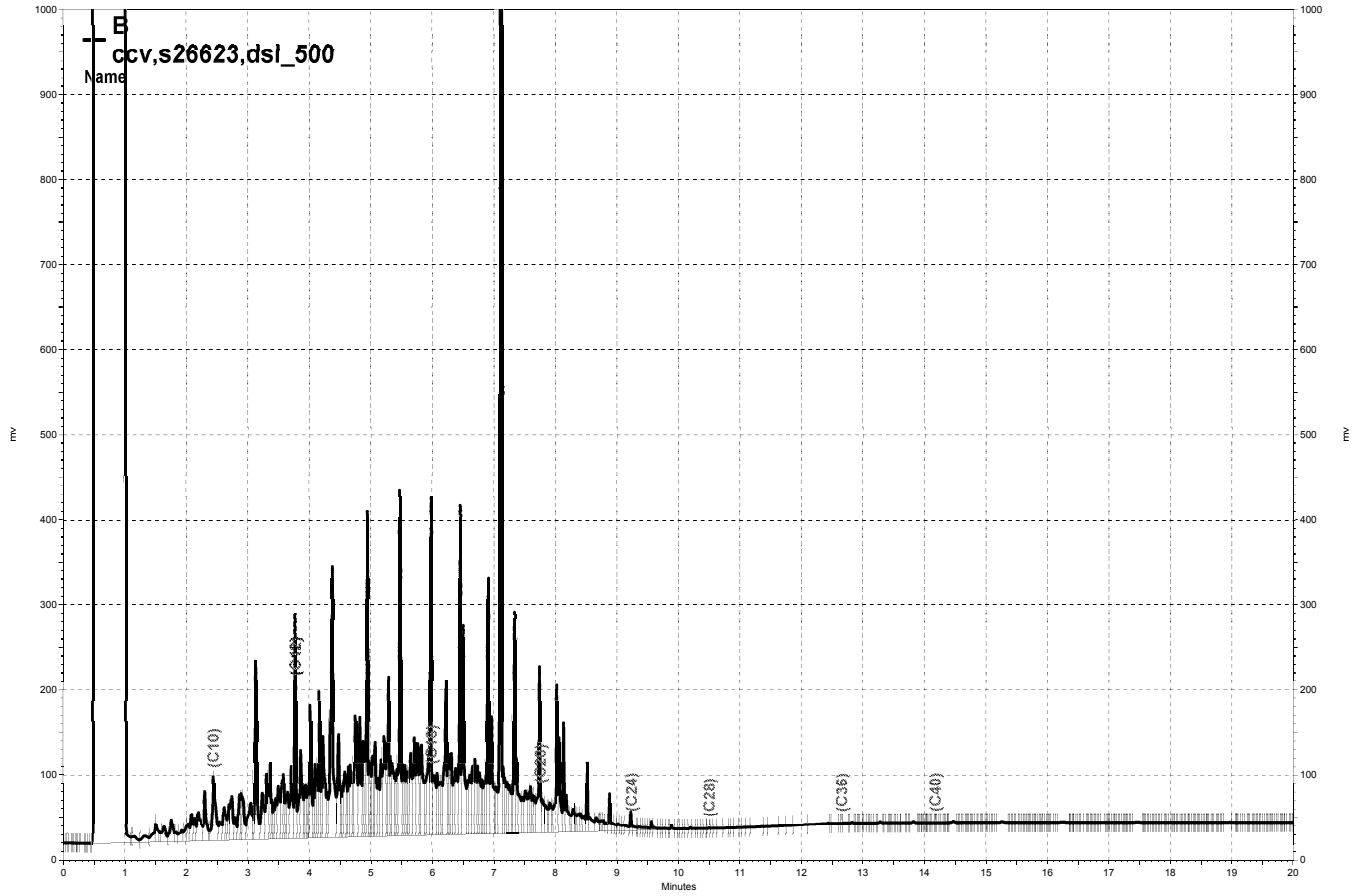

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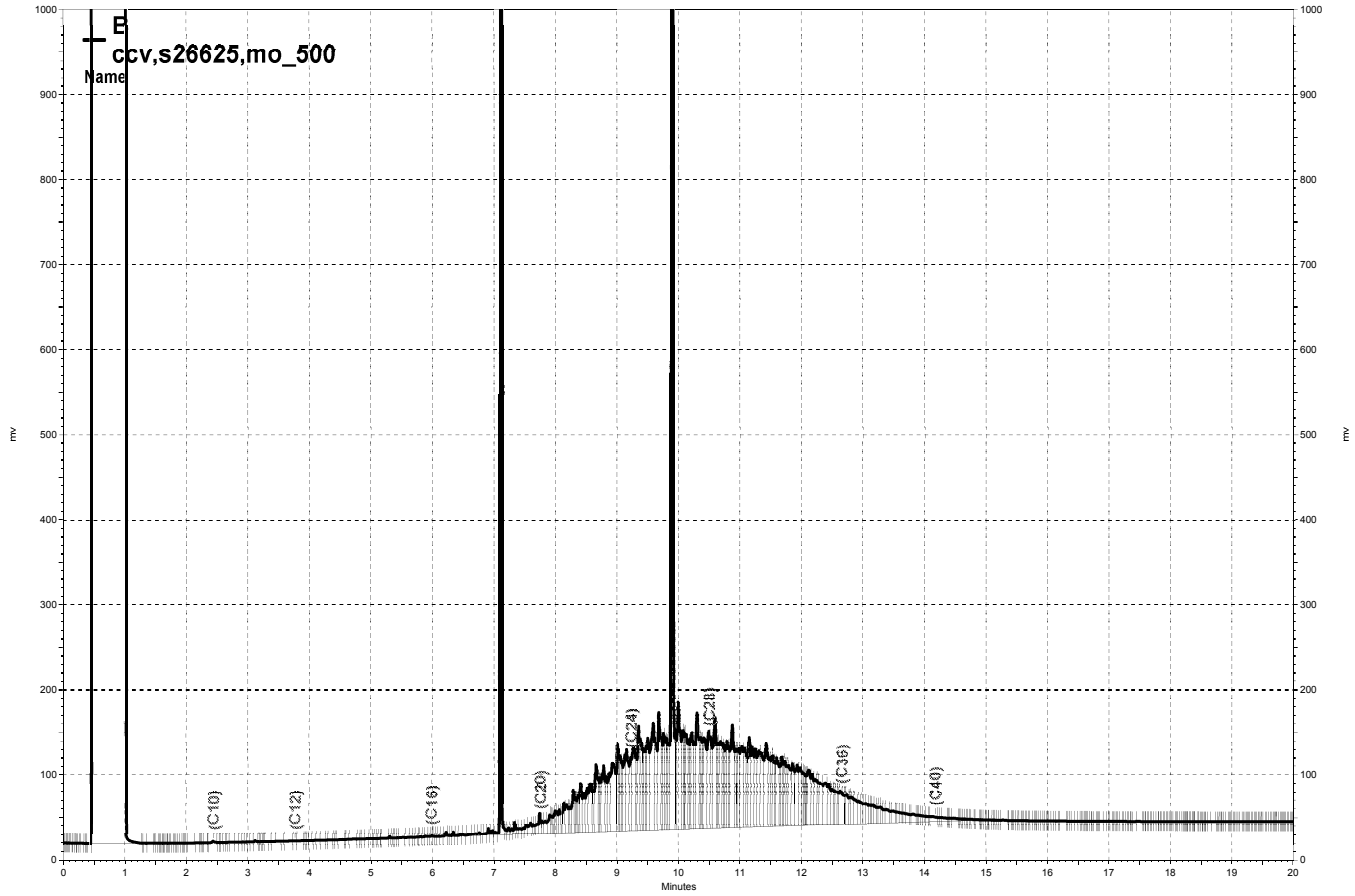

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-3-GW	Batch#:	220780
Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	0.5 J	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-3-GW	Batch#:	220780
Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-128
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-1-GW	Batch#:	220780
Lab ID:	264875-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	0.4 J	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	1.1	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	2.5	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	1.4	0.5	0.1
Trichloroethene	1.2	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	0.1 J	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-1-GW	Batch#:	220780
Lab ID:	264875-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	0.2 J	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-128
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-022415	Batch#:	220780
Lab ID:	264875-003	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.2 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-022415	Batch#:	220780
Lab ID:	264875-003	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	220780
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: BS Lab ID: QC778595

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.82	103	66-135
Benzene	12.50	13.88	111	80-123
Trichloroethene	12.50	13.35	107	80-123
Toluene	12.50	14.09	113	80-121
Chlorobenzene	12.50	14.56	116	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC778596

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.24	106	66-135	3	24
Benzene	12.50	14.21	114	80-123	2	20
Trichloroethene	12.50	13.55	108	80-123	2	20
Toluene	12.50	13.38	107	80-121	5	20
Chlorobenzene	12.50	13.78	110	80-123	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	101	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778597	Batch#:	220780
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778597	Batch#:	220780
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-3-GW	Batch#:	220808
Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-3-GW	Batch#:	220808
Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	65	38-120
Phenol-d5	61	38-120
2,4,6-Tribromophenol	93	46-120
Nitrobenzene-d5	54	51-120
2-Fluorobiphenyl	61	54-120
Terphenyl-d14	76	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-1-GW	Batch#:	220808
Lab ID:	264875-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-1-GW	Batch#:	220808
Lab ID:	264875-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	68	38-120
Phenol-d5	69	38-120
2,4,6-Tribromophenol	101	46-120
Nitrobenzene-d5	63	51-120
2-Fluorobiphenyl	73	54-120
Terphenyl-d14	66	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	71	38-120
2,4,6-Tribromophenol	89	46-120
Nitrobenzene-d5	83	51-120
2-Fluorobiphenyl	81	54-120
Terphenyl-d14	69	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778710	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	62.40	78	46-120
2-Chlorophenol	80.00	61.68	77	48-120
1,4-Dichlorobenzene	80.00	49.23	62	52-120
N-Nitroso-di-n-propylamine	80.00	58.82	74	46-120
1,2,4-Trichlorobenzene	80.00	49.49	62	53-120
4-Chloro-3-methylphenol	80.00	70.25	88	40-120
Acenaphthene	30.00	23.15	77	61-120
4-Nitrophenol	80.00	70.73	88	40-120
2,4-Dinitrotoluene	80.00	66.77	83	64-120
Pentachlorophenol	80.00	75.02	94	47-120
Pyrene	30.00	26.14	87	62-120

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	76	38-120
2,4,6-Tribromophenol	91	46-120
Nitrobenzene-d5	73	51-120
2-Fluorobiphenyl	61	54-120
Terphenyl-d14	77	21-120

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/24/15
Units:	ug/L	Received:	02/24/15
Diln Fac:	1.000	Prepared:	02/25/15
Batch#:	220809		

Field ID: MW-3-GW Lab ID: 264875-001
Type: SAMPLE Analyzed: 02/28/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	70	39-120
Decachlorobiphenyl	97	28-120

Field ID: MW-1-GW Lab ID: 264875-002
Type: SAMPLE Analyzed: 02/28/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	65	39-120
Decachlorobiphenyl	80	28-120

Type: BLANK Analyzed: 02/27/15
Lab ID: QC778711

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	51	39-120
Decachlorobiphenyl	86	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	220809
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15

Type: BS Lab ID: QC778712

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.488	90	62-127
Aroclor-1260	5.000	4.064	81	60-135

Surrogate	%REC	Limits
TCMX	74	39-120
Decachlorobiphenyl	105	28-120

Type: BSD Lab ID: QC778713

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	4.694	94	62-127	4	29
Aroclor-1260	5.000	3.638	73	60-135	11	40

Surrogate	%REC	Limits
TCMX	72	39-120
Decachlorobiphenyl	86	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-3-GW	Sampled:	02/24/15
Lab ID:	264875-001	Received:	02/24/15
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L		

Analyte	Result	RL	MDL	Diln Fac	Batch#	Analyzed	Analysis
Antimony	ND	10	2.3	1.000	220929	03/04/15	EPA 6010B
Arsenic	9.2	5.0	1.0	1.000	220929	03/04/15	EPA 6010B
Barium	76	5.0	1.0	1.000	220929	03/04/15	EPA 6010B
Beryllium	0.21 J	2.0	0.15	1.000	220929	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.28	1.000	220929	03/04/15	EPA 6010B
Chromium	0.77 J	5.0	0.60	1.000	220929	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.89	1.000	220929	03/04/15	EPA 6010B
Copper	3.5 J	5.0	0.67	1.000	220929	03/04/15	EPA 6010B
Lead	ND	5.0	1.3	1.000	220929	03/04/15	EPA 6010B
Mercury	0.040 J	0.20	0.021	1.000	220921	03/02/15	EPA 7470A
Molybdenum	11	5.0	0.55	1.000	220929	03/04/15	EPA 6010B
Nickel	28	5.0	0.75	1.000	220929	03/04/15	EPA 6010B
Selenium	14	10	2.3	1.000	220929	03/04/15	EPA 6010B
Silver	3.6 J	5.0	1.1	1.000	220929	03/04/15	EPA 6010B
Thallium	ND	1.0	0.020	5.000	220929	03/05/15	EPA 6020
Vanadium	4.1 J	5.0	0.72	1.000	220929	03/04/15	EPA 6010B
Zinc	5.1 J	20	2.8	1.000	220929	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-1-GW	Diln Fac:	1.000
Lab ID:	264875-002	Sampled:	02/24/15
Matrix:	Filtrate	Received:	02/24/15
Units:	ug/L	Prepared:	03/02/15

Analyte	Result	RL	MDL	Batch#	Analyzed	Analysis
Antimony	ND	10	0.65	220929	03/04/15	EPA 6010B
Arsenic	11	5.0	1.3	220929	03/04/15	EPA 6010B
Barium	150	5.0	1.0	220929	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	220929	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	220929	03/04/15	EPA 6010B
Chromium	1.5 J	5.0	0.57	220929	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.32	220929	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	220929	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	220929	03/04/15	EPA 6010B
Mercury	ND	0.20	0.021	220921	03/02/15	EPA 7470A
Molybdenum	2.4 J	5.0	0.40	220929	03/04/15	EPA 6010B
Nickel	96	5.0	0.71	220929	03/04/15	EPA 6010B
Selenium	ND	10	2.3	220929	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	220929	03/04/15	EPA 6010B
Thallium	ND	10	2.0	220929	03/04/15	EPA 6010B
Vanadium	4.8 J	5.0	0.67	220929	03/04/15	EPA 6010B
Zinc	ND	20	3.0	220929	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779128	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
0.040 J	0.20	0.021

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

24.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779129	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.021

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Matrix:	Water	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779130	2.500	2.463	99	80-120		
BSD	QC779131	2.500	2.463	99	80-120	0	24

RPD= Relative Percent Difference

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Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Field ID:	ZZZZZZZZZZ	Sampled:	02/18/15
MSS Lab ID:	264765-003	Received:	02/19/15
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779132	0.03952	2.500	2.504	99	60-130		
MSD	QC779133		2.500	2.545	100	60-130	2	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Type:	BLANK	Units:	ug/L
Lab ID:	QC779169	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15

Analyte	Result	RL	MDL	Diln Fac	Analyzed	Analysis
Antimony	ND	10	0.65	1.000	03/04/15	EPA 6010B
Arsenic	ND	5.0	1.3	1.000	03/04/15	EPA 6010B
Barium	ND	5.0	1.0	1.000	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	1.000	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	1.000	03/04/15	EPA 6010B
Chromium	ND	5.0	0.57	1.000	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.32	1.000	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	1.000	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	1.000	03/04/15	EPA 6010B
Molybdenum	ND	5.0	0.40	1.000	03/04/15	EPA 6010B
Nickel	1.3 J	5.0	0.71	1.000	03/04/15	EPA 6010B
Selenium	ND	10	2.3	1.000	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	1.000	03/04/15	EPA 6010B
Thallium	ND	10	2.0	1.000	03/04/15	EPA 6010B
Thallium	ND	1.0	0.033	5.000	03/03/15	EPA 6020
Vanadium	ND	5.0	0.67	1.000	03/04/15	EPA 6010B
Zinc	ND	20	3.0	1.000	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Type:	BLANK	Units:	ug/L
Lab ID:	QC779170	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15

Analyte	Result	RL	MDL	Diln Fac	Analyzed	Analysis
Antimony	ND	10	0.65	1.000	03/04/15	EPA 6010B
Arsenic	ND	5.0	1.3	1.000	03/04/15	EPA 6010B
Barium	ND	5.0	1.0	1.000	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	1.000	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	1.000	03/04/15	EPA 6010B
Chromium	ND	5.0	0.57	1.000	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.32	1.000	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	1.000	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	1.000	03/04/15	EPA 6010B
Molybdenum	ND	5.0	0.40	1.000	03/04/15	EPA 6010B
Nickel	ND	5.0	0.71	1.000	03/04/15	EPA 6010B
Selenium	ND	10	2.3	1.000	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	1.000	03/04/15	EPA 6010B
Thallium	ND	10	2.0	1.000	03/04/15	EPA 6010B
Thallium	ND	1.0	0.033	5.000	03/03/15	EPA 6020
Vanadium	ND	5.0	0.67	1.000	03/04/15	EPA 6010B
Zinc	6.1 J	20	3.0	1.000	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Matrix:	Filtrate	Batch#:	220929
Units:	ug/L	Prepared:	03/02/15

Type: BS Lab ID: QC779171

Analyte	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Antimony	100.0	96.04	96	79-120	1.000	03/04/15	EPA 6010B
Arsenic	100.0	95.57	96	80-120	1.000	03/04/15	EPA 6010B
Barium	100.0	98.52	99	80-120	1.000	03/04/15	EPA 6010B
Beryllium	100.0	94.76	95	80-120	1.000	03/04/15	EPA 6010B
Cadmium	100.0	101.5	101	80-120	1.000	03/04/15	EPA 6010B
Chromium	100.0	96.64	97	80-120	1.000	03/04/15	EPA 6010B
Cobalt	100.0	95.28	95	80-120	1.000	03/04/15	EPA 6010B
Copper	100.0	90.83	91	80-120	1.000	03/04/15	EPA 6010B
Lead	100.0	92.73	93	80-120	1.000	03/04/15	EPA 6010B
Molybdenum	100.0	98.02	98	80-120	1.000	03/04/15	EPA 6010B
Nickel	100.0	95.33	95	80-120	1.000	03/04/15	EPA 6010B
Selenium	100.0	98.23	98	80-120	1.000	03/04/15	EPA 6010B
Silver	100.0	98.96	99	77-120	1.000	03/04/15	EPA 6010B
Thallium	50.00	50.63	101	80-121	1.000	03/04/15	EPA 6010B
Thallium	50.00	46.69	93	80-120	5.000	03/03/15	EPA 6020
Vanadium	100.0	97.67	98	80-120	1.000	03/04/15	EPA 6010B
Zinc	100.0	99.50	100	80-120	1.000	03/04/15	EPA 6010B

Type: BSD Lab ID: QC779172

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Antimony	100.0	98.29	98	79-120	2	20	1.000	03/04/15	EPA 6010B
Arsenic	100.0	95.51	96	80-120	0	20	1.000	03/04/15	EPA 6010B
Barium	100.0	100.0	100	80-120	2	20	1.000	03/04/15	EPA 6010B
Beryllium	100.0	97.75	98	80-120	3	20	1.000	03/04/15	EPA 6010B
Cadmium	100.0	104.4	104	80-120	3	20	1.000	03/04/15	EPA 6010B
Chromium	100.0	98.62	99	80-120	2	20	1.000	03/04/15	EPA 6010B
Cobalt	100.0	97.53	98	80-120	2	20	1.000	03/04/15	EPA 6010B
Copper	100.0	94.11	94	80-120	4	20	1.000	03/04/15	EPA 6010B
Lead	100.0	94.79	95	80-120	2	20	1.000	03/04/15	EPA 6010B
Molybdenum	100.0	99.96	100	80-120	2	20	1.000	03/04/15	EPA 6010B
Nickel	100.0	96.42	96	80-120	1	20	1.000	03/04/15	EPA 6010B
Selenium	100.0	101.7	102	80-120	3	20	1.000	03/04/15	EPA 6010B
Silver	100.0	101.1	101	77-120	2	20	1.000	03/04/15	EPA 6010B
Thallium	50.00	52.04	104	80-121	3	20	1.000	03/04/15	EPA 6010B
Thallium	50.00	48.11	96	80-120	3	20	5.000	03/03/15	EPA 6020
Vanadium	100.0	100.2	100	80-120	3	20	1.000	03/04/15	EPA 6010B
Zinc	100.0	100.7	101	80-120	1	20	1.000	03/04/15	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	ZZZZZZZZZZ	Batch#:	220929
MSS Lab ID:	264765-003	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L	Prepared:	03/02/15

Type: MS Lab ID: QC779173

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Antimony	<0.6500	100.0	96.78	97	74-120	1.000	03/04/15	EPA 6010B
Arsenic	59.18	100.0	160.4	101	80-127	1.000	03/04/15	EPA 6010B
Barium	157.9	100.0	251.0	93	80-120	1.000	03/04/15	EPA 6010B
Beryllium	<0.3000	100.0	98.87	99	80-120	1.000	03/04/15	EPA 6010B
Cadmium	<0.5791	100.0	93.59	94	80-120	1.000	03/04/15	EPA 6010B
Chromium	1.843	100.0	98.32	96	80-120	1.000	03/04/15	EPA 6010B
Cobalt	0.7674	100.0	93.01	92	80-120	1.000	03/04/15	EPA 6010B
Copper	<0.9890	100.0	90.42	90	80-120	1.000	03/04/15	EPA 6010B
Lead	<0.9081	100.0	86.35	86	67-120	1.000	03/04/15	EPA 6010B
Molybdenum	5.000	100.0	105.9	101	80-120	1.000	03/04/15	EPA 6010B
Nickel	7.306	100.0	98.58	91	80-120	1.000	03/04/15	EPA 6010B
Selenium	<2.339	100.0	113.9	114	73-132	1.000	03/04/15	EPA 6010B
Silver	<0.6601	100.0	98.13	98	67-120	1.000	03/04/15	EPA 6010B
Thallium	<2.020	50.00	48.33	97	76-121	1.000	03/04/15	EPA 6010B
Thallium	0.1225	50.00	47.61	95	80-120	5.000	03/03/15	EPA 6020
Vanadium	<0.6657	100.0	99.87	100	80-120	1.000	03/04/15	EPA 6010B
Zinc	<3.028	100.0	100.3	100	80-122	1.000	03/04/15	EPA 6010B

Type: MSD Lab ID: QC779174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Antimony	100.0	99.46	99	74-120	3	24	1.000	03/04/15	EPA 6010B
Arsenic	100.0	159.0	100	80-127	1	25	1.000	03/04/15	EPA 6010B
Barium	100.0	247.2	89	80-120	1	20	1.000	03/04/15	EPA 6010B
Beryllium	100.0	99.51	100	80-120	1	20	1.000	03/04/15	EPA 6010B
Cadmium	100.0	95.02	95	80-120	2	20	1.000	03/04/15	EPA 6010B
Chromium	100.0	100.4	99	80-120	2	20	1.000	03/04/15	EPA 6010B
Cobalt	100.0	94.18	93	80-120	1	20	1.000	03/04/15	EPA 6010B
Copper	100.0	91.02	91	80-120	1	20	1.000	03/04/15	EPA 6010B
Lead	100.0	88.66	89	67-120	3	23	1.000	03/04/15	EPA 6010B
Molybdenum	100.0	107.9	103	80-120	2	20	1.000	03/04/15	EPA 6010B
Nickel	100.0	100.4	93	80-120	2	20	1.000	03/04/15	EPA 6010B
Selenium	100.0	113.0	113	73-132	1	30	1.000	03/04/15	EPA 6010B
Silver	100.0	100.4	100	67-120	2	22	1.000	03/04/15	EPA 6010B
Thallium	50.00	49.42	99	76-121	2	20	1.000	03/04/15	EPA 6010B
Thallium	50.00	51.10	102	80-120	7	20	5.000	03/03/15	EPA 6020
Vanadium	100.0	103.1	103	80-120	3	20	1.000	03/04/15	EPA 6010B
Zinc	100.0	100.8	101	80-122	0	20	1.000	03/04/15	EPA 6010B

RPD= Relative Percent Difference

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Hexavalent Chromium

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	220787
Matrix:	Water	Received:	02/24/15
Units:	mg/L	Analyzed:	02/25/15 10:45
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
MW-3-GW	SAMPLE	264875-001	ND	0.01	02/24/15 11:50
MW-1-GW	SAMPLE	264875-002	ND	0.01	02/24/15 15:00
	BLANK	QC778618	ND	0.01	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264875	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-2-GW	Batch#:	220787
MSS Lab ID:	264882-001	Sampled:	02/24/15 17:30
Matrix:	Water	Received:	02/24/15
Units:	mg/L	Analyzed:	02/25/15 10:45

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC778619		1.000	1.055	106	90-110		
MS	QC778620	<0.01000	1.000	1.077	108	85-115		
MSD	QC778621		1.000	1.079	108	85-115	0	23

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 264882
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
MW-2-GW	264882-001
TRIPBLANK	264882-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/05/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

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CASE NARRATIVE

Laboratory number:	**264882**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/24/15**
Samples Received:	**02/24/15**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 02/24/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220788; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Mercury was detected between the MDL and the RL in the method blank for batch 220921; this analyte was not detected in the sample at or above the RL. Nickel was detected between the MDL and the RL in the method blank for batch 220929; this analyte was detected in the sample at a level at least 10 times that of the blank. Zinc was detected between the MDL and the RL in the method blank for batch 220929. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

Subject: Re: C1374 - C&T Login Summary (264882) **NOTE ATTACHED**
From: Chris Lyles <clyles@integral-corp.com>
Date: 2/24/2015 7:57 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: Bridgette DeShields <bdeshields@integral-corp.com>

Please run the TB for VOCs by 8260. My sampler forgot to put it on the chain. Thanks. Standard turn.

Christopher B. Lyles, GIT | Associate Geologist
Integral Consulting Inc. | www.integral-corp.com
115 Sansome Street, Suite 200 | San Francisco, CA 94104
Tel: 415.393.4750 ext: 851 | Cell: 301.706.0791 |

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY
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On Feb 24, 2015, at 7:25 PM, "Tracy Babjar" <tracy.babjar@ctberk.com> wrote:

Please note: A tripblank, not noted on COC was received. Sample -002 has been placed on HOLD. Please advise.

C&T Login Summary for 264882

Project: C1374 **Site:** Allied Engineering **Lab Login #:** 264882 **Report Level:** II **PO#:** **C&T Proj Mgr:** Tracy Babjar	**Report To:** Integral Consulting, Inc. 115 Sansome Street Suite 200 San Francisco, CA 94104 ATTN: C.Lyles (415) 393-4750	**Bill To:** Integral Consulting, In 285 Century Place Suite 190 Lousville, CO 80027 ATTN: Anthea White (

Report to MDL

Client ID	Lab ID	Sampled	Received	DueDate	Matrix	Dry	Analyses	COC #	Comments
MW-2-GW	001	02/24/15 17:30	02/24/15			Y			
				03/03	Filtrate		6010-T22 MET		Lab Filter for Filtrates

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Page 1 of 1

Chain of Custody #

C&T LOGIN # 2404882

Project No: C1374
Project Name: Allied Engineering (Former)
Project P. O. No: C1374 0201
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: S. Sherman
Report To: Bridgette Deshields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	TPHg, TPHd & TPHmo by 8015	Full list VOCs by 8260	SVOCs by 8270	Dissolved Metals (Title 22) Lab Filter	CrVI by 7196	PCBs by 8082
	MW-2-GW	2/24/15	1730	X		13	6				7	X	X	X	X	X	X

SS 02/24/15

Notes:
- Report to MDL

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
Stephen Sherman — DATE: 2/24/15 TIME: 1910
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 2/24 TIME: 1910
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 264882 Date Received 2/24/15 Number of coolers 1
Client Integral Consulting Inc. Project Allied Engineering

Date Opened 2/24 By (print) SK (sign) [illegible]
Date Logged in 2/24 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ (YES) NO
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

(0.) Trip blank arrived in cooler and is not listed on COC

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 264882

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : MW-2-GW Laboratory Sample ID : 264882-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	36	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	91	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
MTBE	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	0.5	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	2.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.7		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	2.0	J	5.0	1.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	72		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Chromium	0.60	J	5.0	0.57	ug/L	DISS.	1.000	EPA 6010B	METHOD
Cobalt	0.44	J	5.0	0.32	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.064	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	0.91	J	5.0	0.40	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	100		5.0	0.71	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	4.6	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	24		20	3.0	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : TRIPBLANK Laboratory Sample ID : 264882-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Chloroform	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-2-GW	Batch#:	220788
Matrix:	Water	Sampled:	02/24/15
Units:	ug/L	Received:	02/24/15
Diln Fac:	1.000	Analyzed:	02/25/15

Type: SAMPLE Lab ID: 264882-001

Analyte	Result	RL	MDL
Gasoline C7-C12	36 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-132

Type: BLANK Lab ID: QC778623

Analyte	Result	RL	MDL
Gasoline C7-C12	11 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	80-132

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778622	Batch#:	220788
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	955.5	96	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-3-GW	Batch#:	220788
MSS Lab ID:	264875-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778624

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	17.27	2,000	1,892	94	76-120

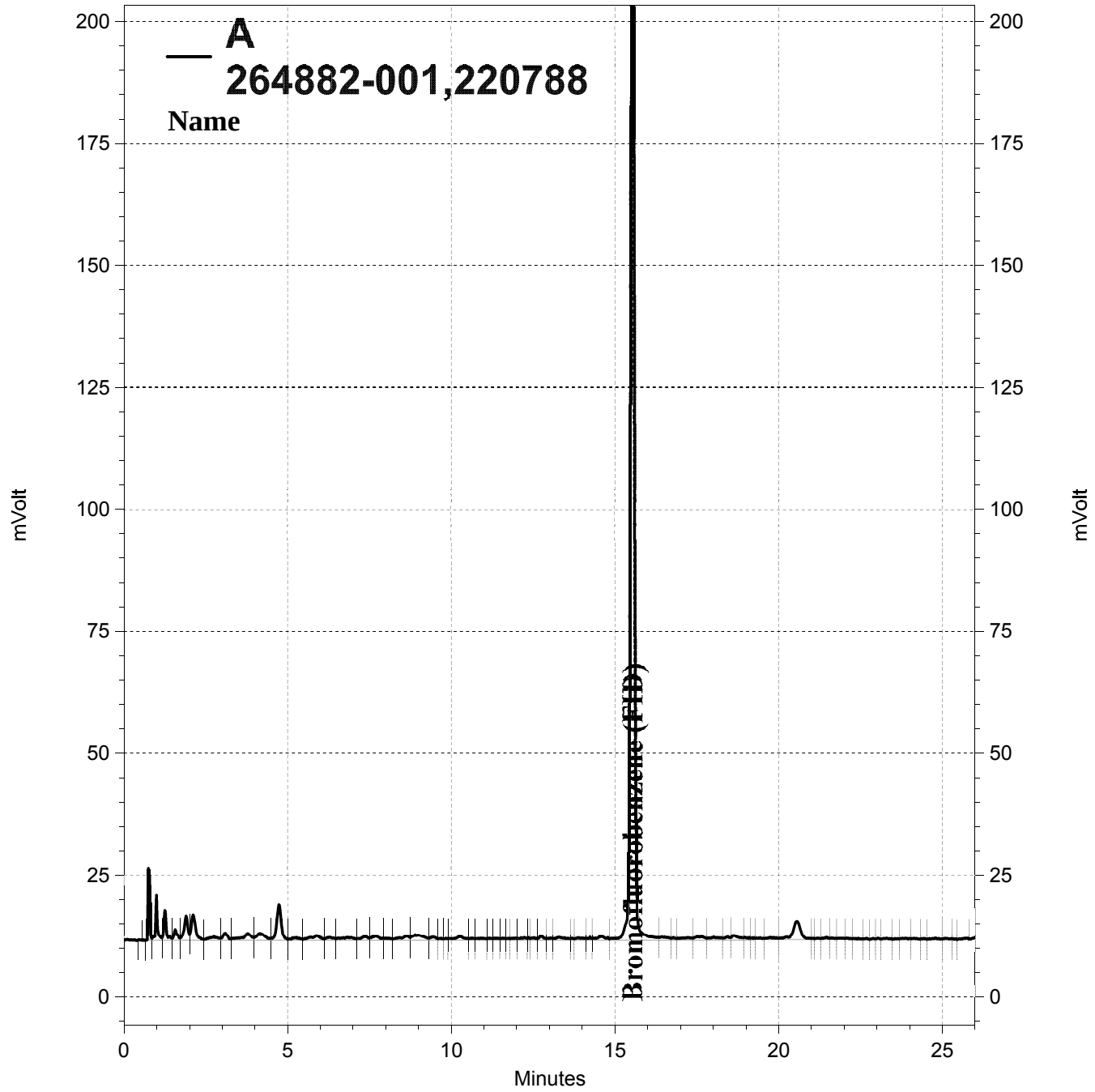
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	80-132

Type: MSD Lab ID: QC778625

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,664	82	76-120	13	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-132

RPD= Relative Percent Difference



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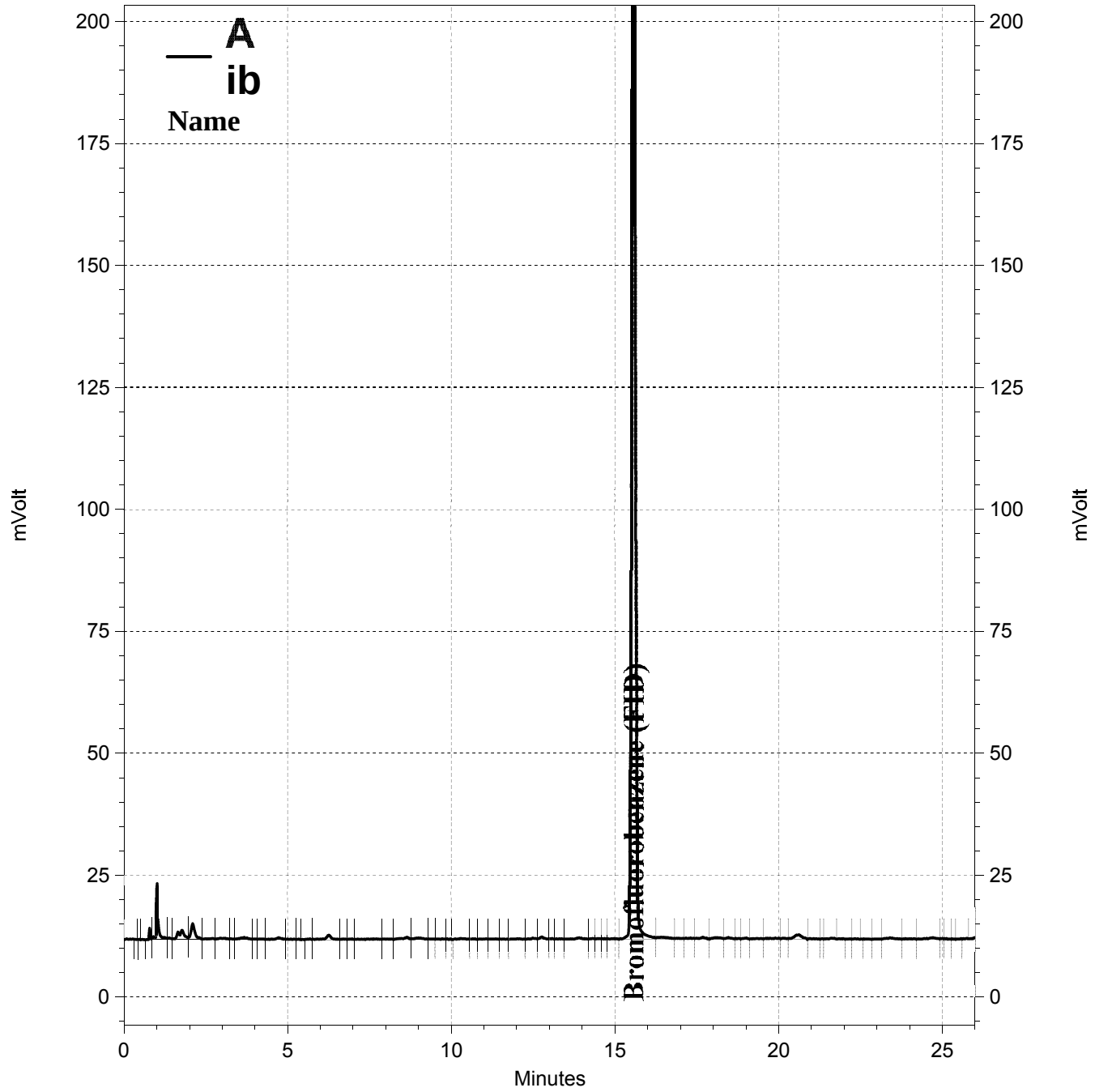

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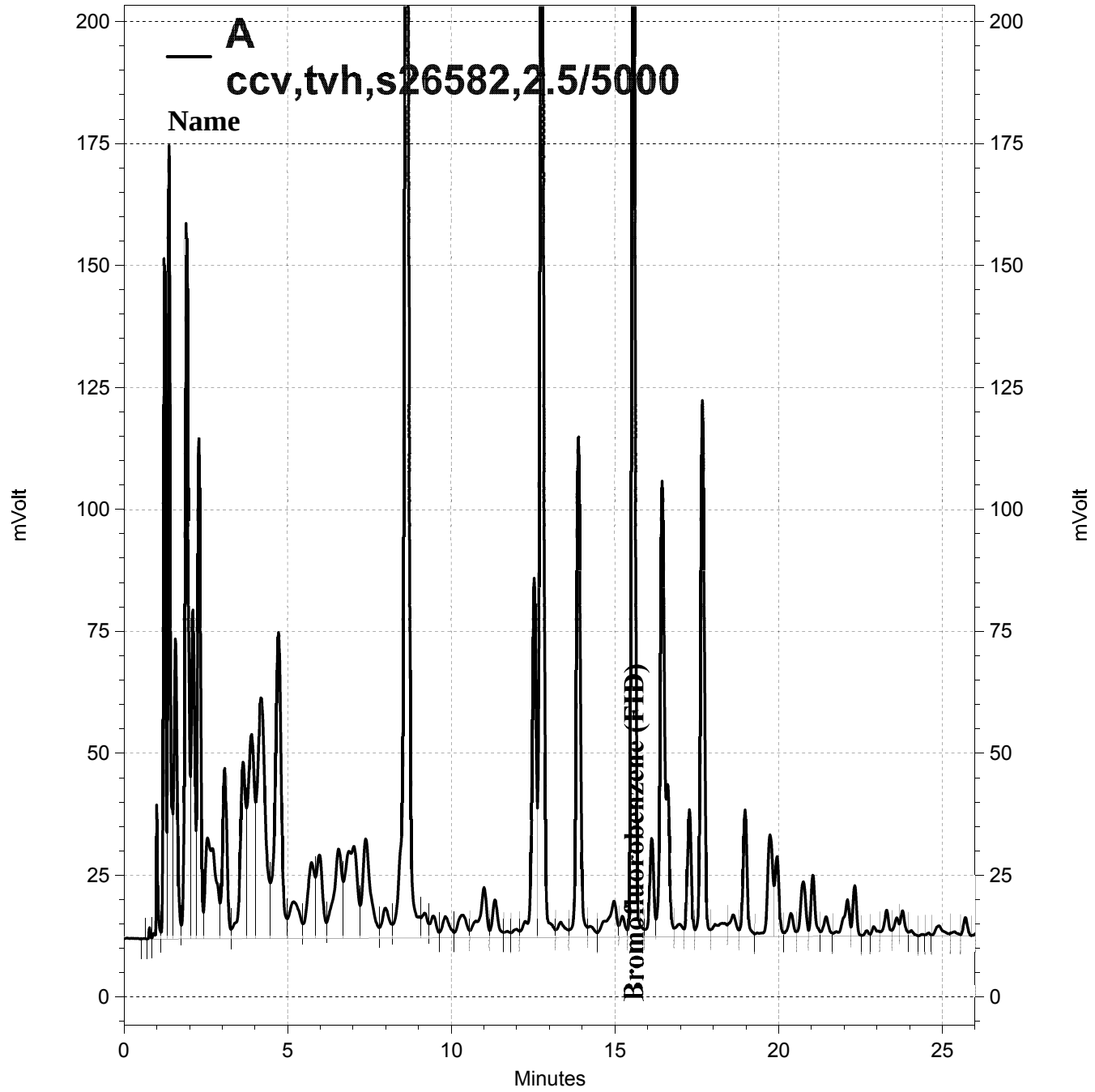

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-2-GW	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15
Batch#:	220807		

Type: SAMPLE Lab ID: 264882-001

Analyte	Result	RL	MDL
Diesel C10-C24	91 Y	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	96	67-136

Type: BLANK Lab ID: QC778704

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	95	67-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778705	Batch#:	220807
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,060	82	60-121

Surrogate	%REC	Limits
o-Terphenyl	91	67-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	220807
MSS Lab ID:	264765-003	Sampled:	02/18/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/26/15

Type: MS Lab ID: QC778706

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	572.5	2,500	2,400	73	55-122

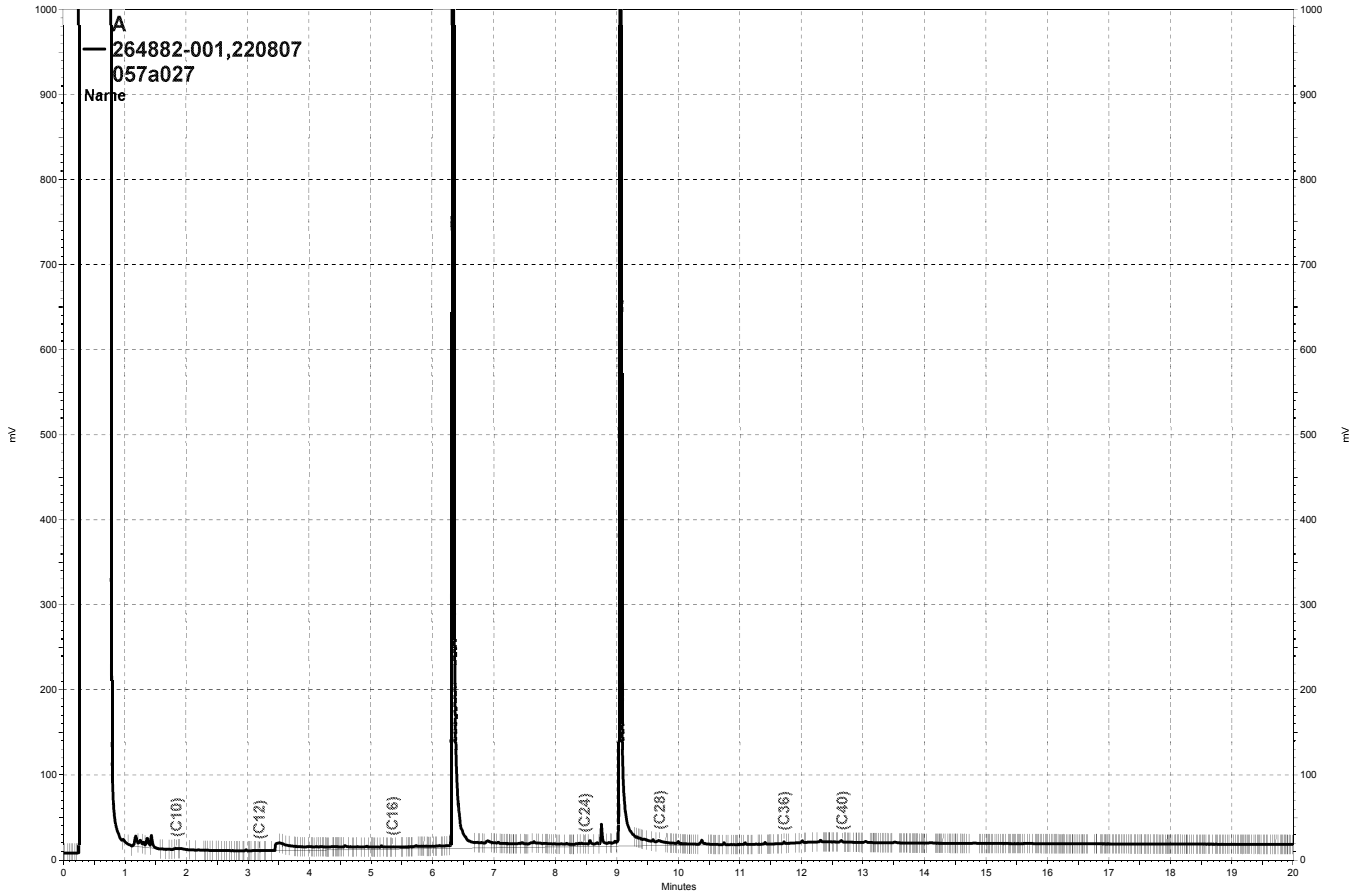
Surrogate	%REC	Limits
o-Terphenyl	83	67-136

Type: MSD Lab ID: QC778707

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,418	74	55-122	1	53

Surrogate	%REC	Limits
o-Terphenyl	82	67-136

RPD= Relative Percent Difference



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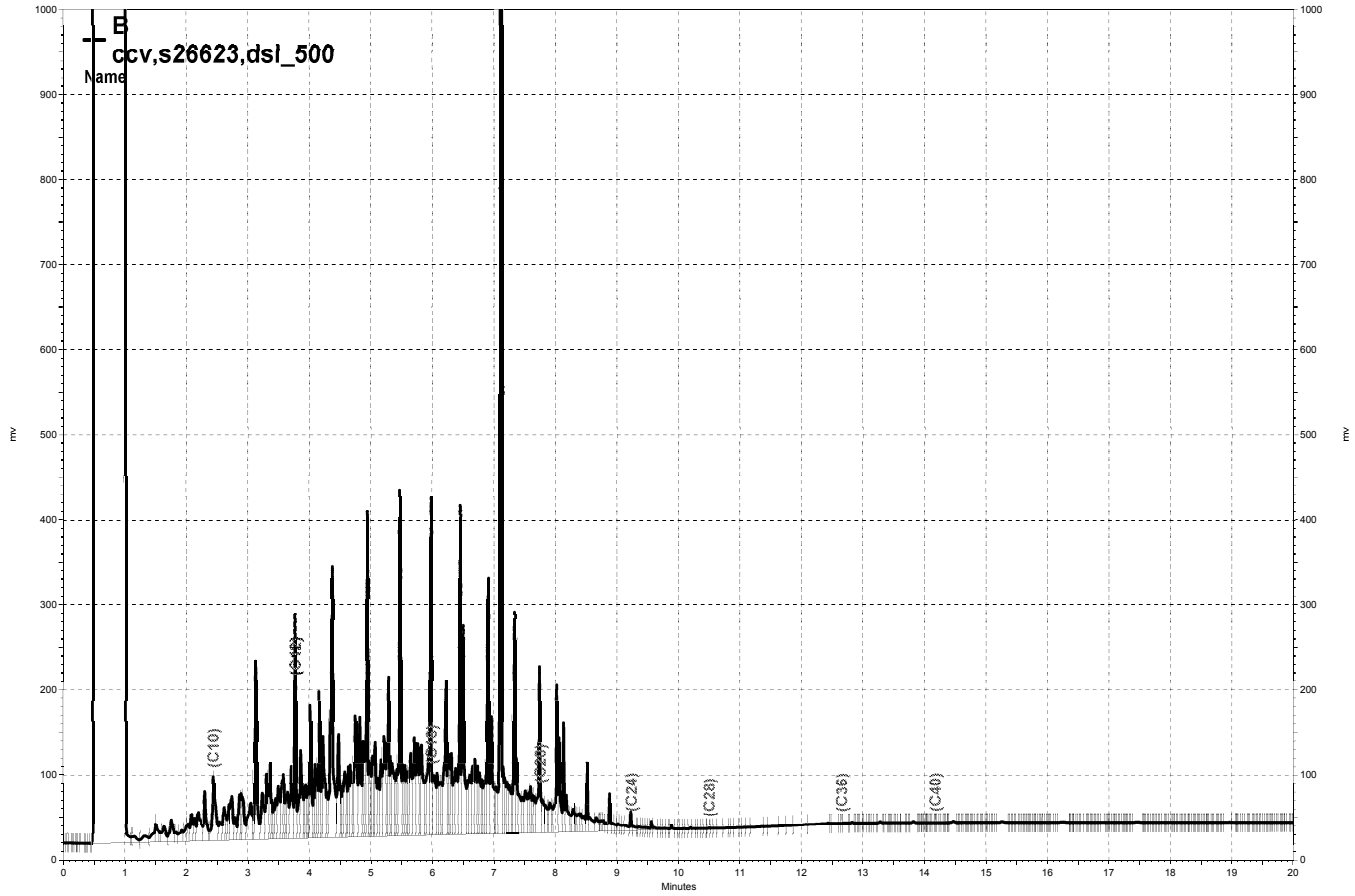

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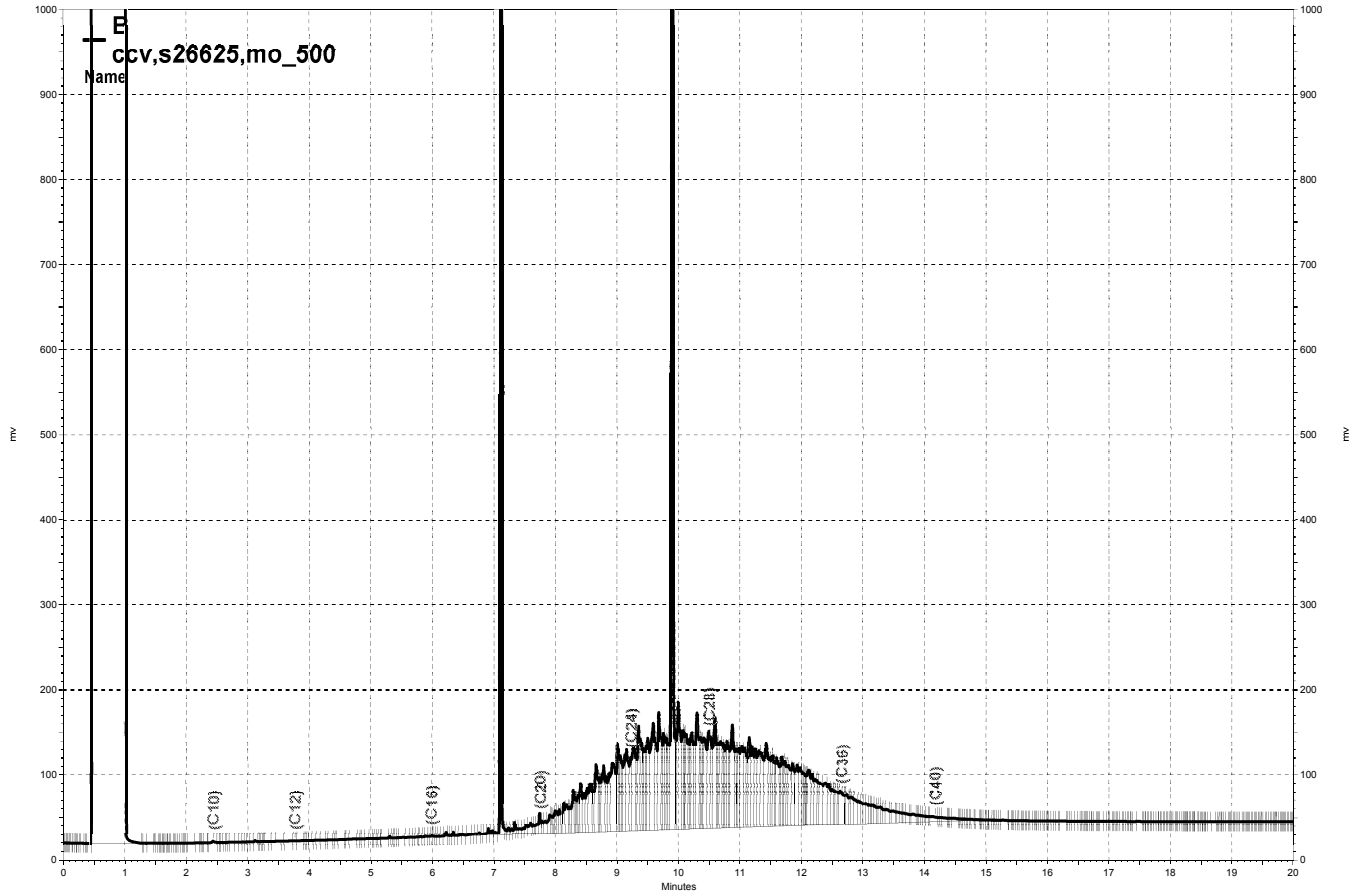

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-2-GW	Batch#:	220780
Lab ID:	264882-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	0.2 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	0.5 J	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	2.2	0.5	0.1
Trichloroethene	0.7	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-2-GW	Batch#:	220780
Lab ID:	264882-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-128
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRIPBLANK	Batch#:	220780
Lab ID:	264882-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.1 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRIPBLANK	Batch#:	220780
Lab ID:	264882-002	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	220780
Units:	ug/L	Analyzed:	02/25/15
Diln Fac:	1.000		

Type: BS Lab ID: QC778595

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.82	103	66-135
Benzene	12.50	13.88	111	80-123
Trichloroethene	12.50	13.35	107	80-123
Toluene	12.50	14.09	113	80-121
Chlorobenzene	12.50	14.56	116	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC778596

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.24	106	66-135	3	24
Benzene	12.50	14.21	114	80-123	2	20
Trichloroethene	12.50	13.55	108	80-123	2	20
Toluene	12.50	13.38	107	80-121	5	20
Chlorobenzene	12.50	13.78	110	80-123	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	101	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778597	Batch#:	220780
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.3
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	1.6
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	1.1
1,1-Dichloroethane	ND	0.5	0.2
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.2
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778597	Batch#:	220780
Matrix:	Water	Analyzed:	02/25/15
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-2-GW	Batch#:	220808
Lab ID:	264882-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-2-GW	Batch#:	220808
Lab ID:	264882-001	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	70	38-120
Phenol-d5	67	38-120
2,4,6-Tribromophenol	91	46-120
Nitrobenzene-d5	70	51-120
2-Fluorobiphenyl	71	54-120
Terphenyl-d14	75	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	71	38-120
2,4,6-Tribromophenol	89	46-120
Nitrobenzene-d5	83	51-120
2-Fluorobiphenyl	81	54-120
Terphenyl-d14	69	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778710	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	62.40	78	46-120
2-Chlorophenol	80.00	61.68	77	48-120
1,4-Dichlorobenzene	80.00	49.23	62	52-120
N-Nitroso-di-n-propylamine	80.00	58.82	74	46-120
1,2,4-Trichlorobenzene	80.00	49.49	62	53-120
4-Chloro-3-methylphenol	80.00	70.25	88	40-120
Acenaphthene	30.00	23.15	77	61-120
4-Nitrophenol	80.00	70.73	88	40-120
2,4-Dinitrotoluene	80.00	66.77	83	64-120
Pentachlorophenol	80.00	75.02	94	47-120
Pyrene	30.00	26.14	87	62-120

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	76	38-120
2,4,6-Tribromophenol	91	46-120
Nitrobenzene-d5	73	51-120
2-Fluorobiphenyl	61	54-120
Terphenyl-d14	77	21-120

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Field ID:	MW-2-GW	Sampled:	02/24/15
Matrix:	Water	Received:	02/24/15
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15
Batch#:	220809		

Type: SAMPLE Lab ID: 264882-001

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	72	39-120
Decachlorobiphenyl	90	28-120

Type: BLANK Lab ID: QC778711

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	51	39-120
Decachlorobiphenyl	86	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	220809
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15

Type: BS Lab ID: QC778712

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.488	90	62-127
Aroclor-1260	5.000	4.064	81	60-135

Surrogate	%REC	Limits
TCMX	74	39-120
Decachlorobiphenyl	105	28-120

Type: BSD Lab ID: QC778713

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	4.694	94	62-127	4	29
Aroclor-1260	5.000	3.638	73	60-135	11	40

Surrogate	%REC	Limits
TCMX	72	39-120
Decachlorobiphenyl	86	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-2-GW	Diln Fac:	1.000
Lab ID:	264882-001	Sampled:	02/24/15
Matrix:	Filtrate	Received:	02/24/15
Units:	ug/L	Prepared:	03/02/15

Analyte	Result	RL	MDL	Batch#	Analyzed	Analysis
Antimony	ND	10	0.65	220929	03/04/15	EPA 6010B
Arsenic	2.0 J	5.0	1.3	220929	03/04/15	EPA 6010B
Barium	72	5.0	1.0	220929	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	220929	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	220929	03/04/15	EPA 6010B
Chromium	0.60 J	5.0	0.57	220929	03/04/15	EPA 6010B
Cobalt	0.44 J	5.0	0.32	220929	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	220929	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	220929	03/04/15	EPA 6010B
Mercury	0.064 J	0.20	0.021	220921	03/02/15	EPA 7470A
Molybdenum	0.91 J	5.0	0.40	220929	03/04/15	EPA 6010B
Nickel	100	5.0	0.71	220929	03/04/15	EPA 6010B
Selenium	ND	10	2.3	220929	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	220929	03/04/15	EPA 6010B
Thallium	ND	10	2.0	220929	03/04/15	EPA 6010B
Vanadium	4.6 J	5.0	0.67	220929	03/04/15	EPA 6010B
Zinc	24	20	3.0	220929	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779128	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
0.040 J	0.20	0.021

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

22.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779129	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.021

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Matrix:	Water	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779130	2.500	2.463	99	80-120		
BSD	QC779131	2.500	2.463	99	80-120	0	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Field ID:	ZZZZZZZZZZ	Sampled:	02/18/15
MSS Lab ID:	264765-003	Received:	02/19/15
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779132	0.03952	2.500	2.504	99	60-130		
MSD	QC779133		2.500	2.545	100	60-130	2	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779169	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	1.3 J	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	ND	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779170	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	ND	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	6.1 J	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	220929
Units:	ug/L	Prepared:	03/02/15
Diln Fac:	1.000	Analyzed:	03/04/15

Type: BS Lab ID: QC779171

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.04	96	79-120
Arsenic	100.0	95.57	96	80-120
Barium	100.0	98.52	99	80-120
Beryllium	100.0	94.76	95	80-120
Cadmium	100.0	101.5	101	80-120
Chromium	100.0	96.64	97	80-120
Cobalt	100.0	95.28	95	80-120
Copper	100.0	90.83	91	80-120
Lead	100.0	92.73	93	80-120
Molybdenum	100.0	98.02	98	80-120
Nickel	100.0	95.33	95	80-120
Selenium	100.0	98.23	98	80-120
Silver	100.0	98.96	99	77-120
Thallium	50.00	50.63	101	80-121
Vanadium	100.0	97.67	98	80-120
Zinc	100.0	99.50	100	80-120

Type: BSD Lab ID: QC779172

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.29	98	79-120	2	20
Arsenic	100.0	95.51	96	80-120	0	20
Barium	100.0	100.0	100	80-120	2	20
Beryllium	100.0	97.75	98	80-120	3	20
Cadmium	100.0	104.4	104	80-120	3	20
Chromium	100.0	98.62	99	80-120	2	20
Cobalt	100.0	97.53	98	80-120	2	20
Copper	100.0	94.11	94	80-120	4	20
Lead	100.0	94.79	95	80-120	2	20
Molybdenum	100.0	99.96	100	80-120	2	20
Nickel	100.0	96.42	96	80-120	1	20
Selenium	100.0	101.7	102	80-120	3	20
Silver	100.0	101.1	101	77-120	2	20
Thallium	50.00	52.04	104	80-121	3	20
Vanadium	100.0	100.2	100	80-120	3	20
Zinc	100.0	100.7	101	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	220929
MSS Lab ID:	264765-003	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L	Prepared:	03/02/15
Diln Fac:	1.000	Analyzed:	03/04/15

Type: MS Lab ID: QC779173

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.6500	100.0	96.78	97	74-120
Arsenic	59.18	100.0	160.4	101	80-127
Barium	157.9	100.0	251.0	93	80-120
Beryllium	<0.3000	100.0	98.87	99	80-120
Cadmium	<0.5791	100.0	93.59	94	80-120
Chromium	1.843	100.0	98.32	96	80-120
Cobalt	0.7674	100.0	93.01	92	80-120
Copper	<0.9890	100.0	90.42	90	80-120
Lead	<0.9081	100.0	86.35	86	67-120
Molybdenum	5.000	100.0	105.9	101	80-120
Nickel	7.306	100.0	98.58	91	80-120
Selenium	<2.339	100.0	113.9	114	73-132
Silver	<0.6601	100.0	98.13	98	67-120
Thallium	<2.020	50.00	48.33	97	76-121
Vanadium	<0.6657	100.0	99.87	100	80-120
Zinc	<3.028	100.0	100.3	100	80-122

Type: MSD Lab ID: QC779174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.46	99	74-120	3	24
Arsenic	100.0	159.0	100	80-127	1	25
Barium	100.0	247.2	89	80-120	1	20
Beryllium	100.0	99.51	100	80-120	1	20
Cadmium	100.0	95.02	95	80-120	2	20
Chromium	100.0	100.4	99	80-120	2	20
Cobalt	100.0	94.18	93	80-120	1	20
Copper	100.0	91.02	91	80-120	1	20
Lead	100.0	88.66	89	67-120	3	23
Molybdenum	100.0	107.9	103	80-120	2	20
Nickel	100.0	100.4	93	80-120	2	20
Selenium	100.0	113.0	113	73-132	1	30
Silver	100.0	100.4	100	67-120	2	22
Thallium	50.00	49.42	99	76-121	2	20
Vanadium	100.0	103.1	103	80-120	3	20
Zinc	100.0	100.8	101	80-122	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	220787
Field ID:	MW-2-GW	Sampled:	02/24/15 17:30
Matrix:	Water	Received:	02/24/15
Units:	mg/L	Analyzed:	02/25/15 10:45
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	264882-001	ND	0.01
BLANK	QC778618	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264882	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-2-GW	Batch#:	220787
MSS Lab ID:	264882-001	Sampled:	02/24/15 17:30
Matrix:	Water	Received:	02/24/15
Units:	mg/L	Analyzed:	02/25/15 10:45

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC778619		1.000	1.055	106	90-110		
MS	QC778620	<0.01000	1.000	1.077	108	85-115		
MSD	QC778621		1.000	1.079	108	85-115	0	23

RPD= Relative Percent Difference

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Analytical Laboratories, Since 1878

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 264904
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
TB-022515	264904-001
MW-6B-GW	264904-002
MW-6A-GW	264904-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/06/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**264904**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**02/25/15**
Samples Received:	**02/25/15**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 02/25/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Methylene chloride was detected between the MDL and the RL in MW-6A-GW (lab # 264904-003); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Mercury was detected between the MDL and the RL in the method blank for batch 220921; this analyte was not detected in samples at or above the RL. Nickel was detected between the MDL and the RL in the method blank for batch 220929; this analyte was not detected in samples at or above the RL. Zinc was detected between the MDL and the RL in the method blank for batch 220929; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

CHAIN OF CUSTODY

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2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 264904

Chain of Custody #

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 02002
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: C Gyler
Report To: B. DeShields
Company: Integral Consulting
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	TPH as gasoline by 8015	TPH-d by 8015	TPH mo by 8015	Full list 8260 VOCs	SVOCs by 8270	Dissolved Title 22 metals (Lab to filter)	Cr VI by 7196	PCBs by 8082
	TB-022515	2/25/15	0000	X		1	1								X				
	MW-6B-GW	2/25/15	1435	X		13	6				7	X	X	X	X	X	X	X	X
	MW-6A-GW	2/25/15	1534	X		13	6				7	X	X	X	X	X	X	X	X

Notes:
- Report to MDL
- Lab to filter dissolved metals
- EDF needed.

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 2/25/15 TIME: 1551
DATE: 2/25/15 TIME: 1630
DATE: TIME:

RECEIVED BY:
DATE: 2/25/15 TIME: 1551
DATE: 2/25/15 TIME: 1630
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 264904 Date Received 2/25/15 Number of coolers 1
Client Integral Project Allied engineering

Date Opened 2/25 By (print) [illegible] (sign) [illegible]
Date Logged in [illegible] By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc)_____ YES NO
   Shipping info_____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name_____ Date_____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form)___ YES NO
6. Indicate the packing in cooler: (if other, describe)_____

   ☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 2-1°

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present?_____ YES NO
   If YES, what time were they transferred to freezer?_____
9. Did all bottles arrive unbroken/unopened?_____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ 2/25/15 YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? _____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called?_____ By_____ Date:_____

COMMENTS

_____

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 264904

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TB-022515 Laboratory Sample ID : 264904-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Chloroform	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-6B-GW Laboratory Sample ID : 264904-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	14	J	50	13	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	28	J	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Acetone	1.2	J	10	0.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	7.4		5.0	1.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	50		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.023	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	2.0	J	5.0	0.40	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	1.3	J	5.0	0.71	ug/L	DISS.	1.000	EPA 6010B	METHOD
Thallium	2.1	J	10	2.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	7.2		5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	4.8	J	20	3.0	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : MW-6A-GW Laboratory Sample ID : 264904-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	56	Y,Z	50	13	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	42	J	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Methylene Chloride	0.4	J	10	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	5.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.6		0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	7.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	57		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	70		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	1.5	J	5.0	1.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	32		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Chromium	0.75	J	5.0	0.57	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.064	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	1.5	J	5.0	0.40	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	3.4	J	5.0	0.71	ug/L	DISS.	1.000	EPA 6010B	METHOD
Thallium	2.1	J	10	2.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	5.1		5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	5.6	J	20	3.0	ug/L	DISS.	1.000	EPA 6010B	METHOD

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard
Z = Sample exhibits unknown single peak or peaks

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/25/15
Units:	ug/L	Received:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15
Batch#:	220882		

Field ID: MW-6B-GW Lab ID: 264904-002
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	14 J	50	13

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	80-132

Field ID: MW-6A-GW Lab ID: 264904-003
Type: SAMPLE

Analyte	Result	RL	MDL
Gasoline C7-C12	56 Y Z	50	13

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	80-132

Type: BLANK Lab ID: QC778994

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	13

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	80-132

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778993	Batch#:	220882
Matrix:	Water	Analyzed:	02/27/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	916.9	92	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	82	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-6B-GW	Batch#:	220882
MSS Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/27/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778995

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.77	2,000	1,942	96	76-120

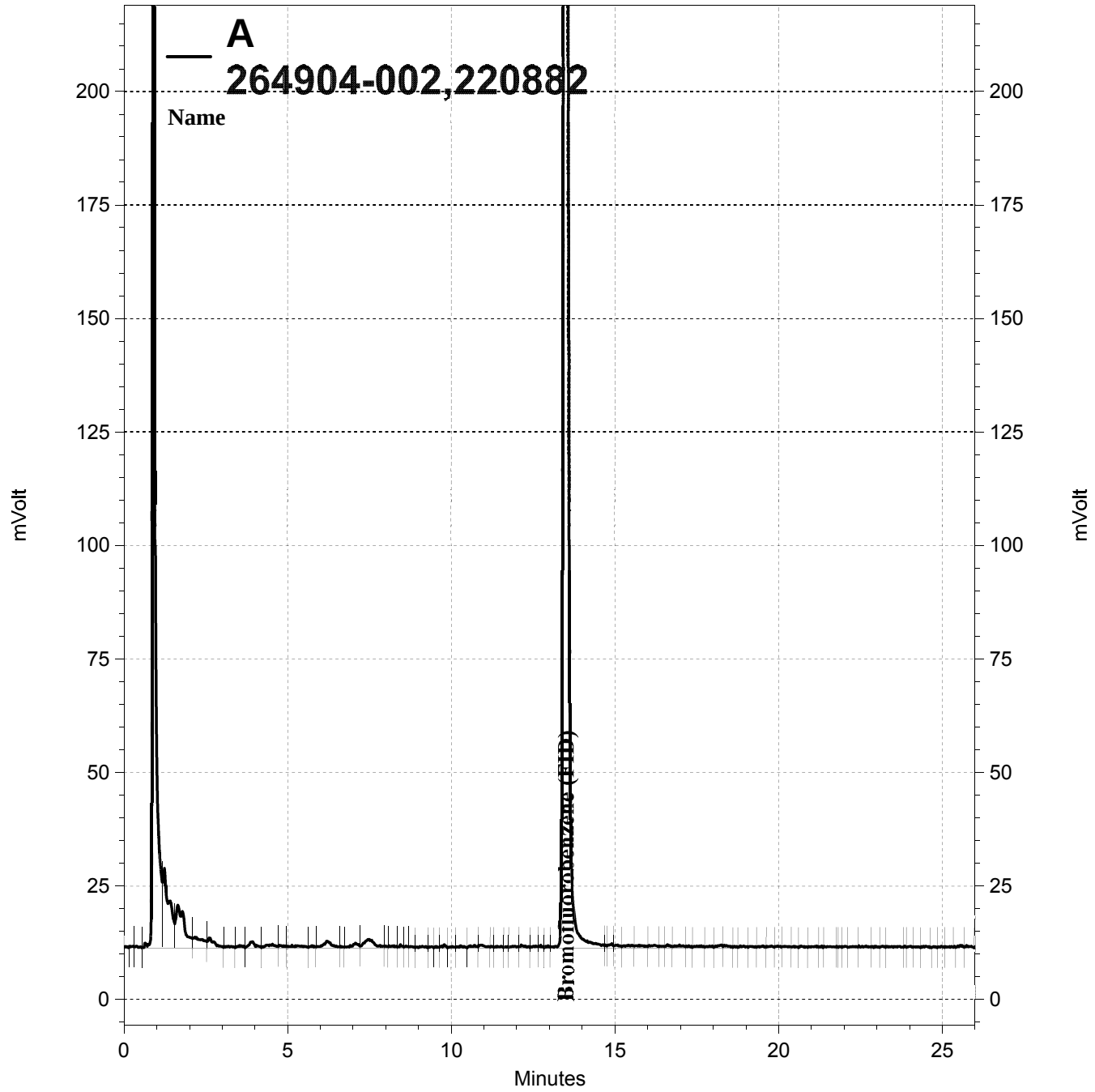
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	80-132

Type: MSD Lab ID: QC778996

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,924	95	76-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	80-132

RPD= Relative Percent Difference



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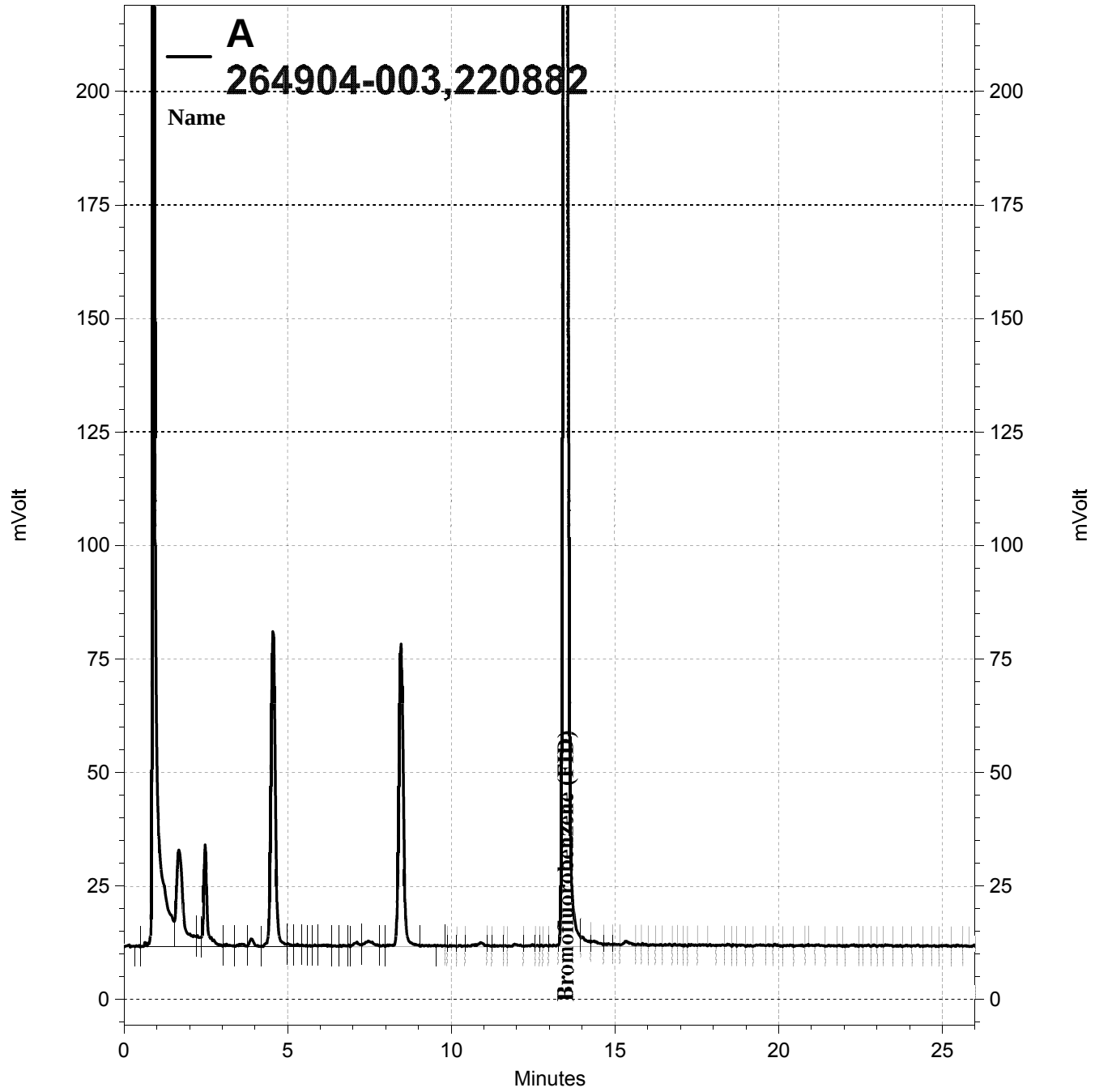

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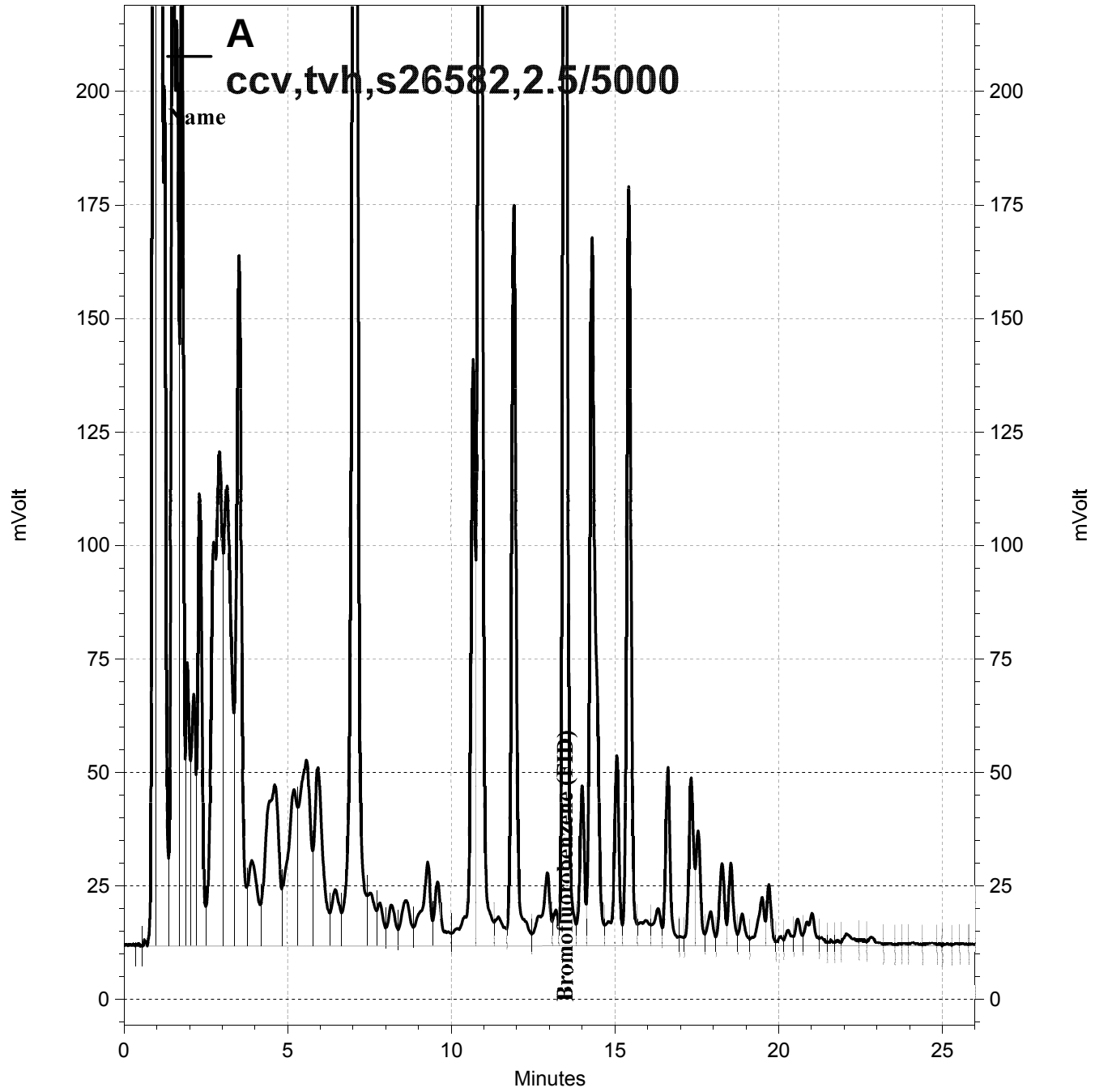

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Total Extractable Hydrocarbons

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/25/15
Units:	ug/L	Received:	02/25/15
Diln Fac:	1.000	Prepared:	02/26/15
Batch#:	220850	Analyzed:	02/27/15

Field ID: MW-6B-GW Lab ID: 264904-002
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	28 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	89	67-136

Field ID: MW-6A-GW Lab ID: 264904-003
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	42 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	91	67-136

Type: BLANK Lab ID: QC778866

Analyte	Result	RL	MDL
Diesel C10-C24	ND	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	90	67-136

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	220850
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC778867

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,950	78	60-121

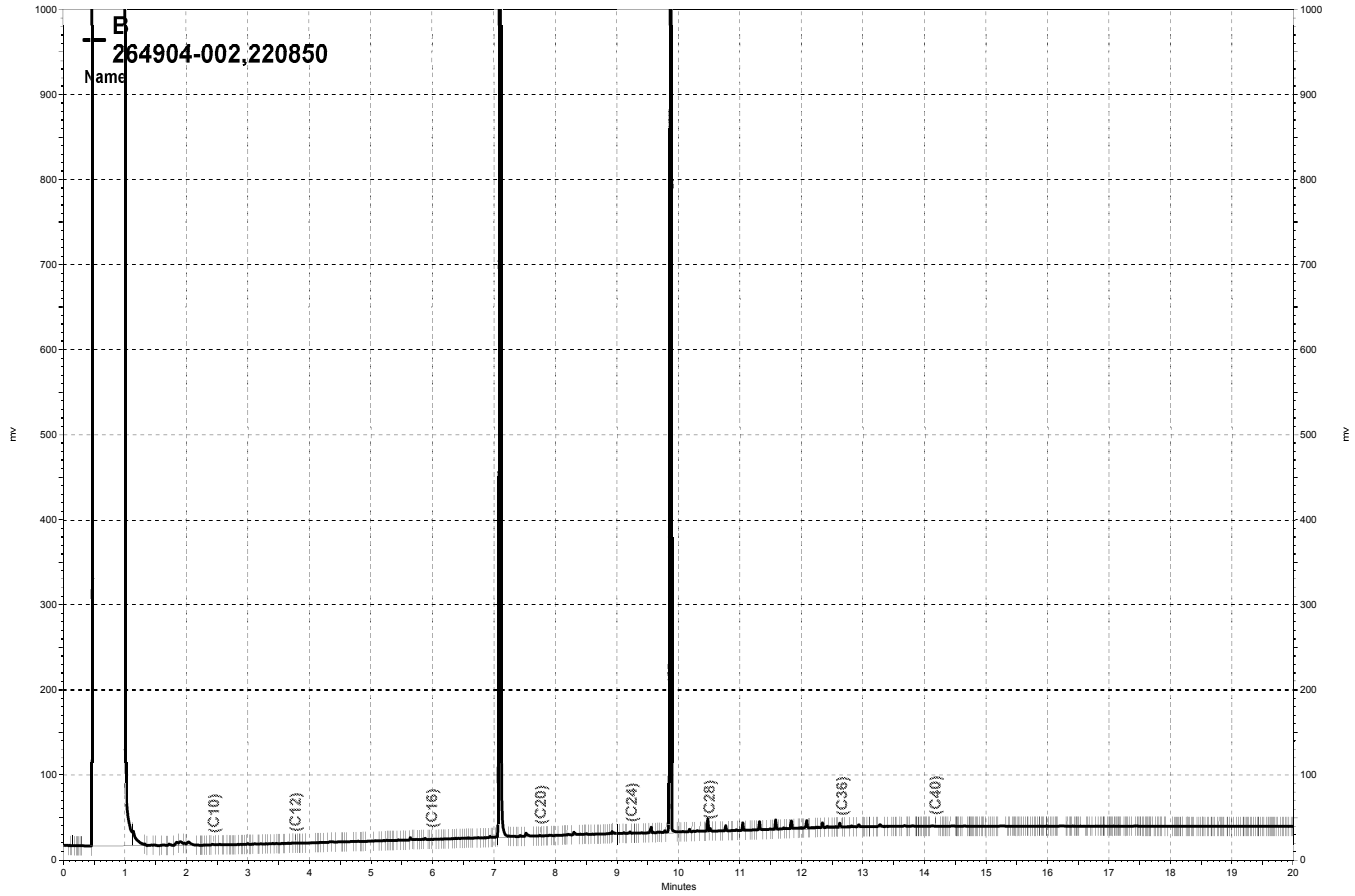
Surrogate	%REC	Limits
o-Terphenyl	88	67-136

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC778868

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,899	76	60-121	3	32

Surrogate	%REC	Limits
o-Terphenyl	80	67-136

RPD= Relative Percent Difference



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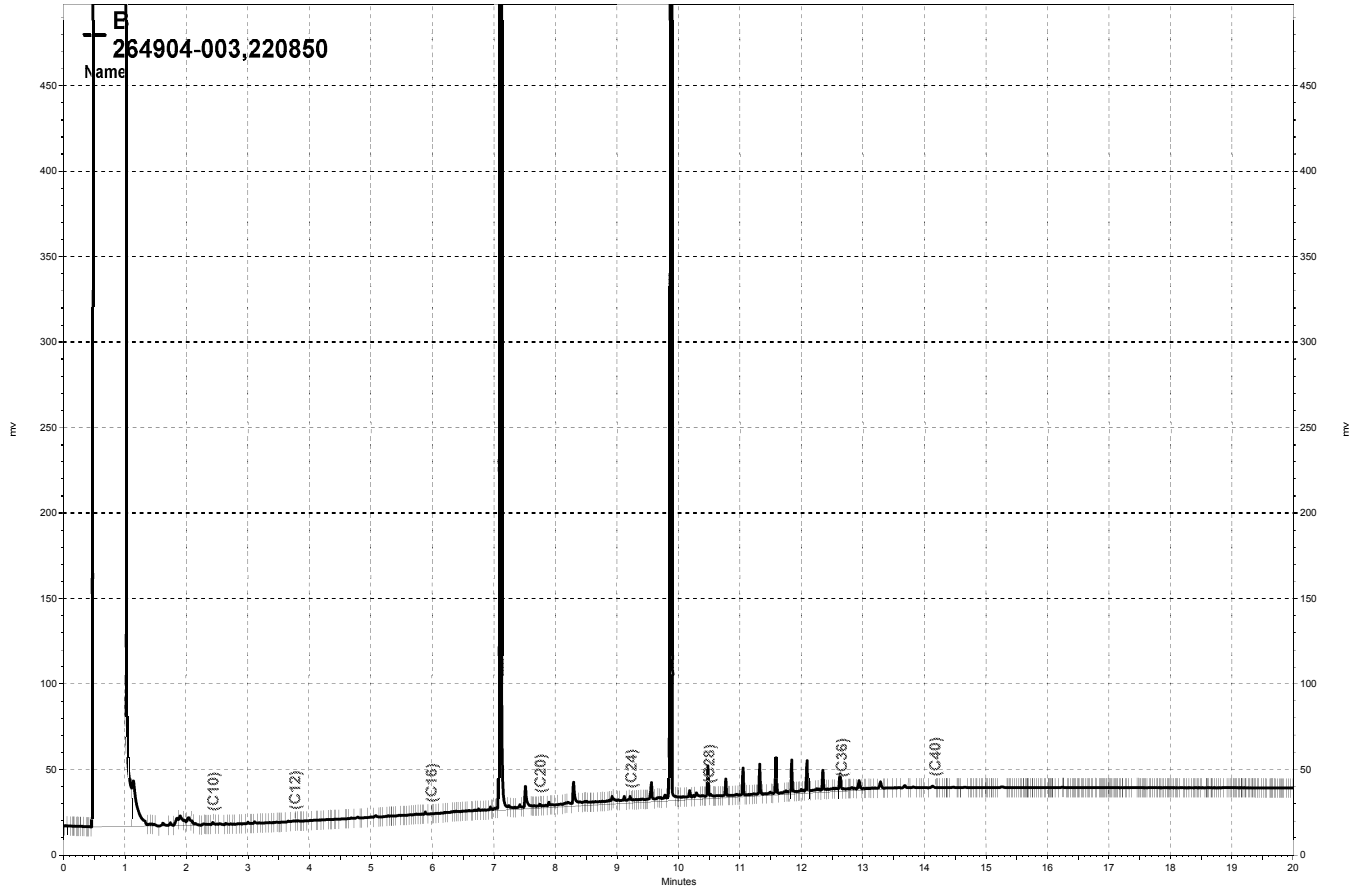

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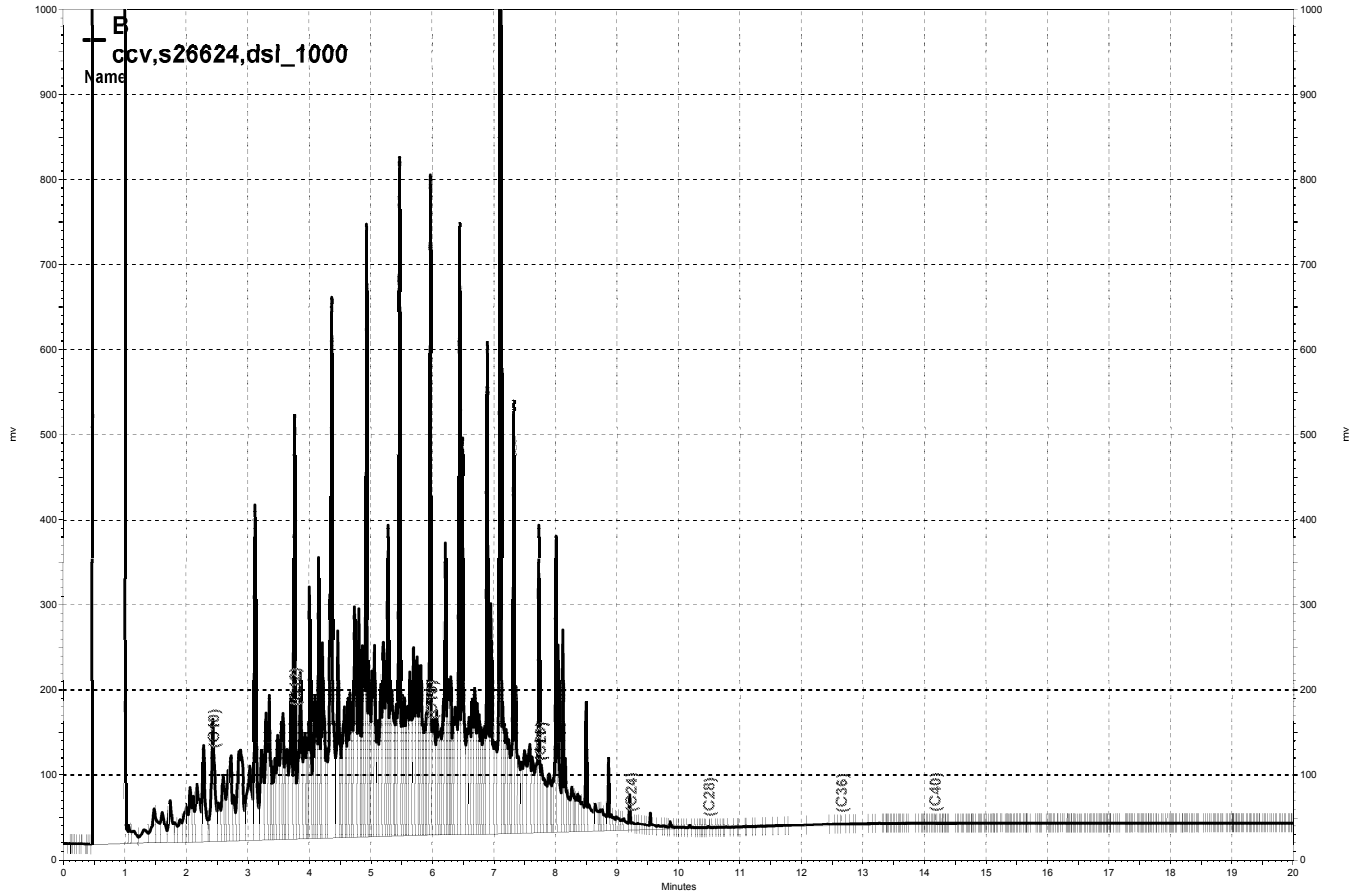

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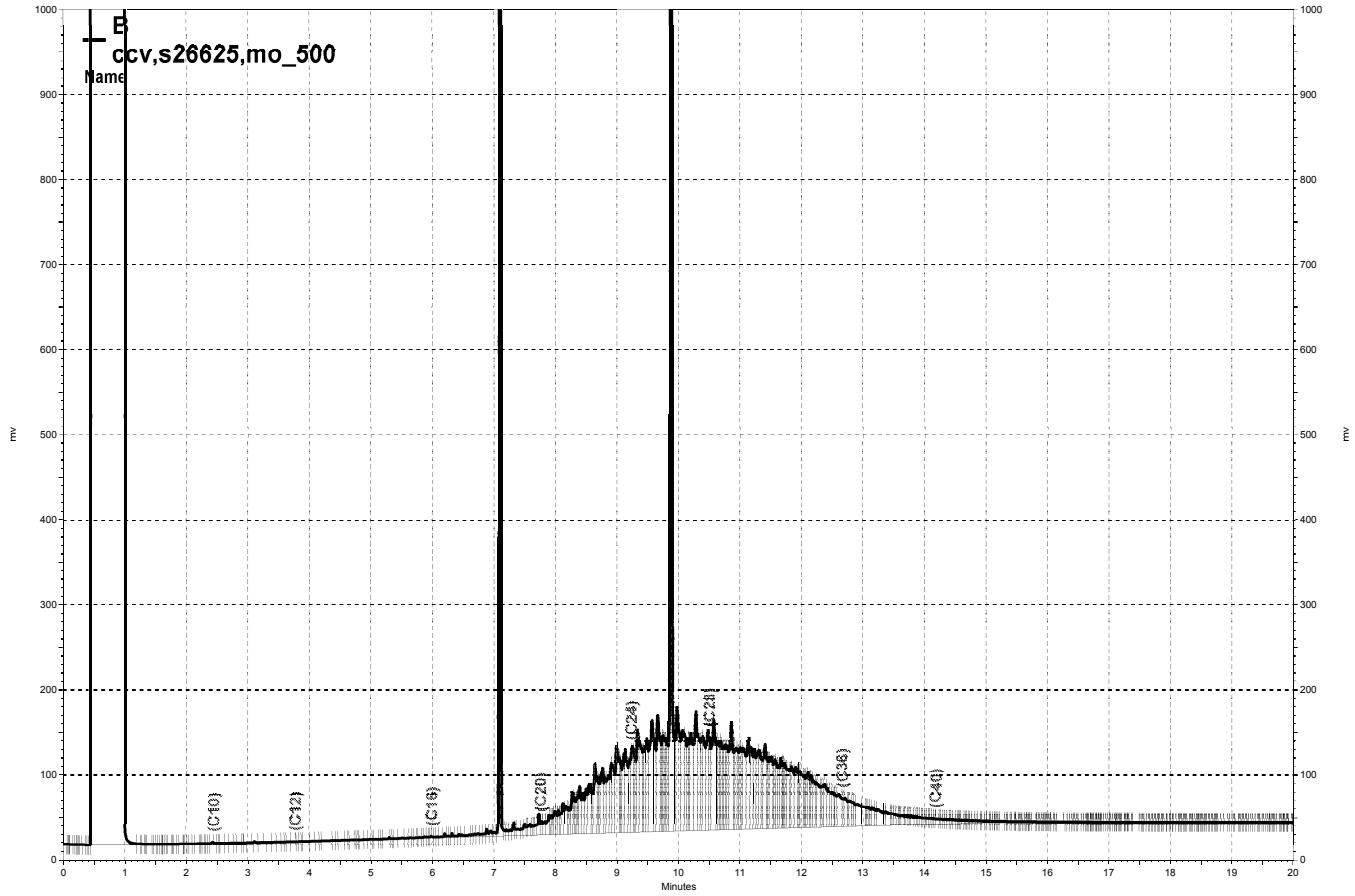

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-022515	Batch#:	220823
Lab ID:	264904-001	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	0.1 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-022515	Batch#:	220823
Lab ID:	264904-001	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-6B-GW	Batch#:	220823
Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	1.2 J	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	0.1 J	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	0.1 J	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-6B-GW	Batch#:	220823
Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-6A-GW	Batch#:	220823
Lab ID:	264904-003	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	0.4 J	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	5.3	0.5	0.1
trans-1,2-Dichloroethene	0.6	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	7.3	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	57	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	70	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-6A-GW	Batch#:	220823
Lab ID:	264904-003	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.1
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778763	Batch#:	220823
Matrix:	Water	Analyzed:	02/26/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.6
Freon 113	ND	2.0	0.2
1,1-Dichloroethene	ND	0.5	0.2
Methylene Chloride	ND	10	0.1
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.2
Vinyl Acetate	ND	10	0.5
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.4
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.2
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.1
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.1
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.1
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1
2-Chlorotoluene	ND	0.5	0.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778763	Batch#:	220823
Matrix:	Water	Analyzed:	02/26/15
Units:	ug/L		

Analyte	Result	RL	MDL
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.1
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.1
Naphthalene	ND	2.0	0.1
1,2,3-Trichlorobenzene	ND	0.5	0.1

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-128
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778769	Batch#:	220823
Matrix:	Water	Analyzed:	02/26/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.99	88	66-135
Benzene	12.50	12.21	98	80-123
Trichloroethene	12.50	12.65	101	80-123
Toluene	12.50	12.35	99	80-121
Chlorobenzene	12.50	12.49	100	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-128
1,2-Dichloroethane-d4	105	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	220823
MSS Lab ID:	264780-005	Sampled:	02/18/15
Matrix:	Water	Received:	02/19/15
Units:	ug/L	Analyzed:	02/26/15
Diln Fac:	1.000		

Type: MS Lab ID: QC778801

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1591	12.50	12.35	99	73-129
Benzene	<0.1000	12.50	13.69	109	80-120
Trichloroethene	<0.1000	12.50	13.88	111	73-123
Toluene	<0.1000	12.50	13.80	110	80-120
Chlorobenzene	<0.1000	12.50	13.77	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-128
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-120

Type: MSD Lab ID: QC778802

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.99	96	73-129	3	25
Benzene	12.50	13.63	109	80-120	0	20
Trichloroethene	12.50	13.83	111	73-123	0	20
Toluene	12.50	13.79	110	80-120	0	21
Chlorobenzene	12.50	13.61	109	80-120	1	24

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-6B-GW	Batch#:	220808
Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	9.4	2.2
Phenol	ND	9.4	1.6
bis(2-Chloroethyl)ether	ND	9.4	1.5
2-Chlorophenol	ND	9.4	1.5
1,3-Dichlorobenzene	ND	9.4	1.5
1,4-Dichlorobenzene	ND	9.4	1.6
Benzyl alcohol	ND	9.4	1.4
1,2-Dichlorobenzene	ND	9.4	1.6
2-Methylphenol	ND	9.4	1.4
bis(2-Chloroisopropyl) ether	ND	9.4	2.6
4-Methylphenol	ND	9.4	1.4
N-Nitroso-di-n-propylamine	ND	9.4	1.9
Hexachloroethane	ND	9.4	1.6
Nitrobenzene	ND	9.4	1.5
Isophorone	ND	9.4	1.8
2-Nitrophenol	ND	19	2.4
2,4-Dimethylphenol	ND	9.4	1.2
Benzoic acid	ND	47	9.6
bis(2-Chloroethoxy)methane	ND	9.4	1.2
2,4-Dichlorophenol	ND	9.4	1.3
1,2,4-Trichlorobenzene	ND	9.4	1.3
Naphthalene	ND	9.4	1.4
4-Chloroaniline	ND	9.4	1.2
Hexachlorobutadiene	ND	9.4	1.3
4-Chloro-3-methylphenol	ND	9.4	1.3
2-Methylnaphthalene	ND	9.4	1.4
Hexachlorocyclopentadiene	ND	19	1.6
2,4,6-Trichlorophenol	ND	9.4	0.93
2,4,5-Trichlorophenol	ND	9.4	0.89
2-Chloronaphthalene	ND	9.4	1.5
2-Nitroaniline	ND	19	1.7
Dimethylphthalate	ND	9.4	1.5
Acenaphthylene	ND	9.4	1.4
2,6-Dinitrotoluene	ND	9.4	1.3
3-Nitroaniline	ND	19	0.98
Acenaphthene	ND	9.4	1.3
2,4-Dinitrophenol	ND	19	2.0
4-Nitrophenol	ND	19	1.1
Dibenzofuran	ND	9.4	1.4
2,4-Dinitrotoluene	ND	9.4	1.4
Diethylphthalate	ND	9.4	1.5
Fluorene	ND	9.4	1.5
4-Chlorophenyl-phenylether	ND	9.4	1.3
4-Nitroaniline	ND	19	1.1
4,6-Dinitro-2-methylphenol	ND	19	1.6
N-Nitrosodiphenylamine	ND	9.4	1.2
Azobenzene	ND	9.4	1.5
4-Bromophenyl-phenylether	ND	9.4	1.1
Hexachlorobenzene	ND	9.4	1.2
Pentachlorophenol	ND	19	1.2
Phenanthrene	ND	9.4	1.2
Anthracene	ND	9.4	1.3
Di-n-butylphthalate	ND	9.4	1.1

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-6B-GW	Batch#:	220808
Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
Fluoranthene	ND	9.4	1.5
Pyrene	ND	9.4	1.2
Butylbenzylphthalate	ND	9.4	1.3
3,3'-Dichlorobenzidine	ND	19	0.59
Benzo(a)anthracene	ND	9.4	1.3
Chrysene	ND	9.4	1.3
bis(2-Ethylhexyl)phthalate	ND	9.4	1.6
Di-n-octylphthalate	ND	9.4	1.2
Benzo(b)fluoranthene	ND	9.4	1.3
Benzo(k)fluoranthene	ND	9.4	1.4
Benzo(a)pyrene	ND	9.4	1.1
Indeno(1,2,3-cd)pyrene	ND	9.4	1.4
Dibenz(a,h)anthracene	ND	9.4	1.3
Benzo(g,h,i)perylene	ND	9.4	1.4

Surrogate	%REC	Limits
2-Fluorophenol	71	38-120
Phenol-d5	70	38-120
2,4,6-Tribromophenol	93	46-120
Nitrobenzene-d5	66	51-120
2-Fluorobiphenyl	72	54-120
Terphenyl-d14	79	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-6A-GW	Batch#:	220808
Lab ID:	264904-003	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.3
Phenol	ND	10	1.7
bis(2-Chloroethyl)ether	ND	10	1.6
2-Chlorophenol	ND	10	1.6
1,3-Dichlorobenzene	ND	10	1.6
1,4-Dichlorobenzene	ND	10	1.6
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.7
2-Methylphenol	ND	10	1.5
bis(2-Chloroisopropyl) ether	ND	10	2.7
4-Methylphenol	ND	10	1.5
N-Nitroso-di-n-propylamine	ND	10	2.0
Hexachloroethane	ND	10	1.7
Nitrobenzene	ND	10	1.6
Isophorone	ND	10	1.9
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	1.3
Benzoic acid	ND	50	10
bis(2-Chloroethoxy)methane	ND	10	1.2
2,4-Dichlorophenol	ND	10	1.3
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.3
Hexachlorobutadiene	ND	10	1.3
4-Chloro-3-methylphenol	ND	10	1.4
2-Methylnaphthalene	ND	10	1.5
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.98
2,4,5-Trichlorophenol	ND	10	0.94
2-Chloronaphthalene	ND	10	1.5
2-Nitroaniline	ND	20	1.8
Dimethylphthalate	ND	10	1.5
Acenaphthylene	ND	10	1.5
2,6-Dinitrotoluene	ND	10	1.4
3-Nitroaniline	ND	20	1.0
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.1
4-Nitrophenol	ND	20	1.2
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.5
Diethylphthalate	ND	10	1.6
Fluorene	ND	10	1.5
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	1.2
4,6-Dinitro-2-methylphenol	ND	20	1.7
N-Nitrosodiphenylamine	ND	10	1.2
Azobenzene	ND	10	1.6
4-Bromophenyl-phenylether	ND	10	1.2
Hexachlorobenzene	ND	10	1.2
Pentachlorophenol	ND	20	1.3
Phenanthrene	ND	10	1.3
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-6A-GW	Batch#:	220808
Lab ID:	264904-003	Sampled:	02/25/15
Matrix:	Water	Received:	02/25/15
Units:	ug/L	Prepared:	02/26/15
Diln Fac:	1.000	Analyzed:	02/27/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.6
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.4
3,3'-Dichlorobenzidine	ND	20	0.63
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.4
bis(2-Ethylhexyl)phthalate	ND	10	1.7
Di-n-octylphthalate	ND	10	1.3
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.4
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.5

Surrogate	%REC	Limits
2-Fluorophenol	75	38-120
Phenol-d5	75	38-120
2,4,6-Tribromophenol	100	46-120
Nitrobenzene-d5	71	51-120
2-Fluorobiphenyl	75	54-120
Terphenyl-d14	84	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC778708	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	71	38-120
2,4,6-Tribromophenol	89	46-120
Nitrobenzene-d5	83	51-120
2-Fluorobiphenyl	81	54-120
Terphenyl-d14	69	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC778710	Batch#:	220808
Matrix:	Water	Prepared:	02/25/15
Units:	ug/L	Analyzed:	02/26/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	62.40	78	46-120
2-Chlorophenol	80.00	61.68	77	48-120
1,4-Dichlorobenzene	80.00	49.23	62	52-120
N-Nitroso-di-n-propylamine	80.00	58.82	74	46-120
1,2,4-Trichlorobenzene	80.00	49.49	62	53-120
4-Chloro-3-methylphenol	80.00	70.25	88	40-120
Acenaphthene	30.00	23.15	77	61-120
4-Nitrophenol	80.00	70.73	88	40-120
2,4-Dinitrotoluene	80.00	66.77	83	64-120
Pentachlorophenol	80.00	75.02	94	47-120
Pyrene	30.00	26.14	87	62-120

Surrogate	%REC	Limits
2-Fluorophenol	76	38-120
Phenol-d5	76	38-120
2,4,6-Tribromophenol	91	46-120
Nitrobenzene-d5	73	51-120
2-Fluorobiphenyl	61	54-120
Terphenyl-d14	77	21-120

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/25/15
Units:	ug/L	Received:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15
Batch#:	220809		

Field ID: MW-6B-GW Lab ID: 264904-002
Type: SAMPLE Prepared: 02/26/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.49	0.16
Aroclor-1221	ND	0.98	0.32
Aroclor-1232	ND	0.49	0.14
Aroclor-1242	ND	0.49	0.16
Aroclor-1248	ND	0.49	0.16
Aroclor-1254	ND	0.49	0.15
Aroclor-1260	ND	0.49	0.13

Surrogate	%REC	Limits
TCMX	74	39-120
Decachlorobiphenyl	84	28-120

Field ID: MW-6A-GW Lab ID: 264904-003
Type: SAMPLE Prepared: 02/26/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	70	39-120
Decachlorobiphenyl	87	28-120

Type: BLANK Prepared: 02/25/15
Lab ID: QC778711

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	51	39-120
Decachlorobiphenyl	86	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	220809
Units:	ug/L	Prepared:	02/25/15
Diln Fac:	1.000	Analyzed:	02/27/15

Type: BS Lab ID: QC778712

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.488	90	62-127
Aroclor-1260	5.000	4.064	81	60-135

Surrogate	%REC	Limits
TCMX	74	39-120
Decachlorobiphenyl	105	28-120

Type: BSD Lab ID: QC778713

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	4.694	94	62-127	4	29
Aroclor-1260	5.000	3.638	73	60-135	11	40

Surrogate	%REC	Limits
TCMX	72	39-120
Decachlorobiphenyl	86	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-6B-GW	Diln Fac:	1.000
Lab ID:	264904-002	Sampled:	02/25/15
Matrix:	Filtrate	Received:	02/25/15
Units:	ug/L	Prepared:	03/02/15

Analyte	Result	RL	MDL	Batch#	Analyzed	Analysis
Antimony	ND	10	0.65	220929	03/04/15	EPA 6010B
Arsenic	7.4	5.0	1.3	220929	03/04/15	EPA 6010B
Barium	50	5.0	1.0	220929	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	220929	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	220929	03/04/15	EPA 6010B
Chromium	ND	5.0	0.57	220929	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.32	220929	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	220929	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	220929	03/04/15	EPA 6010B
Mercury	0.023 J	0.20	0.021	220921	03/02/15	EPA 7470A
Molybdenum	2.0 J	5.0	0.40	220929	03/04/15	EPA 6010B
Nickel	1.3 J	5.0	0.71	220929	03/04/15	EPA 6010B
Selenium	ND	10	2.3	220929	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	220929	03/04/15	EPA 6010B
Thallium	2.1 J	10	2.0	220929	03/04/15	EPA 6010B
Vanadium	7.2	5.0	0.67	220929	03/04/15	EPA 6010B
Zinc	4.8 J	20	3.0	220929	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-6A-GW	Diln Fac:	1.000
Lab ID:	264904-003	Sampled:	02/25/15
Matrix:	Filtrate	Received:	02/25/15
Units:	ug/L	Prepared:	03/02/15

Analyte	Result	RL	MDL	Batch#	Analyzed	Analysis
Antimony	ND	10	0.65	220929	03/04/15	EPA 6010B
Arsenic	1.5 J	5.0	1.3	220929	03/04/15	EPA 6010B
Barium	32	5.0	1.0	220929	03/04/15	EPA 6010B
Beryllium	ND	2.0	0.30	220929	03/04/15	EPA 6010B
Cadmium	ND	5.0	0.58	220929	03/04/15	EPA 6010B
Chromium	0.75 J	5.0	0.57	220929	03/04/15	EPA 6010B
Cobalt	ND	5.0	0.32	220929	03/04/15	EPA 6010B
Copper	ND	5.0	0.99	220929	03/04/15	EPA 6010B
Lead	ND	5.0	0.91	220929	03/04/15	EPA 6010B
Mercury	0.064 J	0.20	0.021	220921	03/02/15	EPA 7470A
Molybdenum	1.5 J	5.0	0.40	220929	03/04/15	EPA 6010B
Nickel	3.4 J	5.0	0.71	220929	03/04/15	EPA 6010B
Selenium	ND	10	2.3	220929	03/04/15	EPA 6010B
Silver	ND	5.0	0.66	220929	03/04/15	EPA 6010B
Thallium	2.1 J	10	2.0	220929	03/04/15	EPA 6010B
Vanadium	5.1	5.0	0.67	220929	03/04/15	EPA 6010B
Zinc	5.6 J	20	3.0	220929	03/04/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779128	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
0.040 J	0.20	0.021

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

21.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220921
Lab ID:	QC779129	Prepared:	03/02/15
Matrix:	Filtrate	Analyzed:	03/02/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.021

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Matrix:	Water	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779130	2.500	2.463	99	80-120		
BSD	QC779131	2.500	2.463	99	80-120	0	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	220921
Field ID:	ZZZZZZZZZZ	Sampled:	02/18/15
MSS Lab ID:	264765-003	Received:	02/19/15
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/02/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779132	0.03952	2.500	2.504	99	60-130		
MSD	QC779133		2.500	2.545	100	60-130	2	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779169	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	1.3 J	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	ND	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779170	Batch#:	220929
Matrix:	Filtrate	Prepared:	03/02/15
Units:	ug/L	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Antimony	ND	10	0.65
Arsenic	ND	5.0	1.3
Barium	ND	5.0	1.0
Beryllium	ND	2.0	0.30
Cadmium	ND	5.0	0.58
Chromium	ND	5.0	0.57
Cobalt	ND	5.0	0.32
Copper	ND	5.0	0.99
Lead	ND	5.0	0.91
Molybdenum	ND	5.0	0.40
Nickel	ND	5.0	0.71
Selenium	ND	10	2.3
Silver	ND	5.0	0.66
Thallium	ND	10	2.0
Vanadium	ND	5.0	0.67
Zinc	6.1 J	20	3.0

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	220929
Units:	ug/L	Prepared:	03/02/15
Diln Fac:	1.000	Analyzed:	03/04/15

Type: BS Lab ID: QC779171

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.04	96	79-120
Arsenic	100.0	95.57	96	80-120
Barium	100.0	98.52	99	80-120
Beryllium	100.0	94.76	95	80-120
Cadmium	100.0	101.5	101	80-120
Chromium	100.0	96.64	97	80-120
Cobalt	100.0	95.28	95	80-120
Copper	100.0	90.83	91	80-120
Lead	100.0	92.73	93	80-120
Molybdenum	100.0	98.02	98	80-120
Nickel	100.0	95.33	95	80-120
Selenium	100.0	98.23	98	80-120
Silver	100.0	98.96	99	77-120
Thallium	50.00	50.63	101	80-121
Vanadium	100.0	97.67	98	80-120
Zinc	100.0	99.50	100	80-120

Type: BSD Lab ID: QC779172

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.29	98	79-120	2	20
Arsenic	100.0	95.51	96	80-120	0	20
Barium	100.0	100.0	100	80-120	2	20
Beryllium	100.0	97.75	98	80-120	3	20
Cadmium	100.0	104.4	104	80-120	3	20
Chromium	100.0	98.62	99	80-120	2	20
Cobalt	100.0	97.53	98	80-120	2	20
Copper	100.0	94.11	94	80-120	4	20
Lead	100.0	94.79	95	80-120	2	20
Molybdenum	100.0	99.96	100	80-120	2	20
Nickel	100.0	96.42	96	80-120	1	20
Selenium	100.0	101.7	102	80-120	3	20
Silver	100.0	101.1	101	77-120	2	20
Thallium	50.00	52.04	104	80-121	3	20
Vanadium	100.0	100.2	100	80-120	3	20
Zinc	100.0	100.7	101	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	220929
MSS Lab ID:	264765-003	Sampled:	02/18/15
Matrix:	Filtrate	Received:	02/19/15
Units:	ug/L	Prepared:	03/02/15
Diln Fac:	1.000	Analyzed:	03/04/15

Type: MS Lab ID: QC779173

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.6500	100.0	96.78	97	74-120
Arsenic	59.18	100.0	160.4	101	80-127
Barium	157.9	100.0	251.0	93	80-120
Beryllium	<0.3000	100.0	98.87	99	80-120
Cadmium	<0.5791	100.0	93.59	94	80-120
Chromium	1.843	100.0	98.32	96	80-120
Cobalt	0.7674	100.0	93.01	92	80-120
Copper	<0.9890	100.0	90.42	90	80-120
Lead	<0.9081	100.0	86.35	86	67-120
Molybdenum	5.000	100.0	105.9	101	80-120
Nickel	7.306	100.0	98.58	91	80-120
Selenium	<2.339	100.0	113.9	114	73-132
Silver	<0.6601	100.0	98.13	98	67-120
Thallium	<2.020	50.00	48.33	97	76-121
Vanadium	<0.6657	100.0	99.87	100	80-120
Zinc	<3.028	100.0	100.3	100	80-122

Type: MSD Lab ID: QC779174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.46	99	74-120	3	24
Arsenic	100.0	159.0	100	80-127	1	25
Barium	100.0	247.2	89	80-120	1	20
Beryllium	100.0	99.51	100	80-120	1	20
Cadmium	100.0	95.02	95	80-120	2	20
Chromium	100.0	100.4	99	80-120	2	20
Cobalt	100.0	94.18	93	80-120	1	20
Copper	100.0	91.02	91	80-120	1	20
Lead	100.0	88.66	89	67-120	3	23
Molybdenum	100.0	107.9	103	80-120	2	20
Nickel	100.0	100.4	93	80-120	2	20
Selenium	100.0	113.0	113	73-132	1	30
Silver	100.0	100.4	100	67-120	2	22
Thallium	50.00	49.42	99	76-121	2	20
Vanadium	100.0	103.1	103	80-120	3	20
Zinc	100.0	100.8	101	80-122	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Matrix:	Water	Batch#:	220787
Units:	mg/L	Received:	02/25/15

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
MW-6B-GW	SAMPLE	264904-002	ND	0.01	02/25/15 14:35	02/25/15 17:00
MW-6A-GW	SAMPLE	264904-003	ND	0.01	02/25/15 15:34	02/25/15 17:00
	BLANK	QC778618	ND	0.01		02/25/15 10:45

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	264904	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-2-GW	Batch#:	220787
MSS Lab ID:	264882-001	Sampled:	02/24/15 17:30
Matrix:	Water	Received:	02/24/15
Units:	mg/L	Analyzed:	02/25/15 10:45

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC778619		1.000	1.055	106	90-110		
MS	QC778620	<0.01000	1.000	1.077	108	85-115		
MSD	QC778621		1.000	1.079	108	85-115	0	23

RPD= Relative Percent Difference

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Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265405
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
MW-5B-GW	265405-001
MW-5A-GW	265405-002
MW-4B-GW	265405-003
DUP-GW-031915	265405-004
TB-031915	265405-005
MW-4A-GW	265405-006
TB-031915-2	265405-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/27/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265405**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/19/15**
Samples Received:	**03/19/15**

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 03/19/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221548; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Diesel C10-C24 and motor oil C24-C36 were detected between the MDL and the RL in the method blank for batch 221619. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Carbon disulfide was detected between the MDL and the RL in the method blank for batch 221521; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
High recoveries were observed for phenol in the MS/MSD of MW-4A-GW (lab # 265405-006); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):
Low recoveries were observed for lead in the MS/MSD of MW-4A-GW (lab # 265405-006); the BS/BSD were within limits, and the associated RPD was within limits. Arsenic and zinc were detected between the MDL and the RL in the method blank for batch 221644; these analytes were not detected in samples at or above the RL. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
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2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # ____

C&T LOGIN # 265405

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 0202
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ____ ☒ Standard

Sampler: C. Lyle / S. Sherman
Report To: B. DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Sampling Date Collected	Sampling Time Collected	Matrix Water	Matrix Solid	# of Containers	Chemical Preservative HCl	H2SO4	HNO3	NaOH	None	TPH g	TPH d	TPH mo	VOCs	SVOCs	Title 22 Metals (Dissolved)	Hexavalent Chromium	PCBs
	MW-5B-GW	3/19/15	1140	X		13	6				7	X	X	X	X	X	X	X	X
	MW-5A-GW	3/19/15	1302	X		13	6				7	↓	↓	↓	↓	↓	↓	↓	↓
	MW-4B-GW	3/19/15	1445	X		13	6				7	↓	↓	↓	↓	↓	↓	↓	↓
	DUP-GW-031915	3/19/15	0000	X		13	6				7	↓	↓	↓	↓	↓	↓	↓	↓
	TB-031915	3/19/15	0000	X		1	1								X				

CBL 3/19/15

CBL 3/19/15

Notes:
- Lab to filter for dissolved metals
- EDF required
- Report all to MDL.

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 3/19/15 TIME: 1540
DATE: 3/19/15 TIME: 1627
DATE: TIME:

RECEIVED BY:
DATE: 3/19/15 TIME: 1540
DATE: 3/19/15 TIME: 1627
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265405 Date Received 3/19/15 Number of coolers 2
Client Integral Project C1374

Date Opened 3/19 By (print) PJ (sign) [illegible]
Date Logged in ____ By (print) " " (sign) " "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☒ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) ____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES (NO)
   If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are there any missing / extra samples? ____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
12. Are sample labels present, in good condition and complete? ____ (YES) NO
13. Do the sample labels agree with custody papers? ____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? ____ (YES) NO
15. Are the samples appropriately preserved? ____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO (N/A)
17. Did you document your preservative check? ____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? ____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS

____

____

____

____

____

____

Rev 10, 9/12

* Cooler Receipt for Samples -001 Through -005 which arrived @ 1629 on 3/19/15 *

CHAIN OF CUSTODY

1 of 2 was dropped off w/ courier @ 1540 3/19/15

Page 2 of 2

Chain of Custody # _____

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Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 265405

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 0202
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: C. Lyles / S. Sherman
Report To: B. DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	Matrix:	Matrix:	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	TPH-g	TPH-d	TPH mo	VOCs	SVOCs	Title 22 metals	Hexavalent chromium	PCBs	MS/MSD						
	MW-4A-GW	3/19/15	1650	X				39	18				21	X	X	X	X	X	X	X	X	X						
	TB-031915-2	3/19/15	0000	X				1	1								X											

Notes:
- MW-5B-GW, MW-5A-GW, MW-4B-GW, DUP-GW-031915 should be analyzed w/ this MS/MSD collected from COC 2 of 2
- Log to filter for dissolved metals
- EDF required
- Report all to MDL

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
Stephen Sherman — DATE: 3/19/15 TIME: 1850
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 3/19/15 TIME: 1850
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265405 Date Received 3/19/15 Number of coolers 1
Client Integral Project C1374

Date Opened 3/19 By (print) [illegible] (sign) [illegible]
Date Logged in ____ By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) ____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES (NO)
   If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are there any missing / extra samples? ____ (YES) NO
11. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
12. Are sample labels present, in good condition and complete? ____ (YES) NO
13. Do the sample labels agree with custody papers? ____ (YES) NO
*14. Was sufficient amount of sample sent for tests requested? ____ (YES) NO
15. Are the samples appropriately preserved? ____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO (N/A)
17. Did you document your preservative check? ____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? ____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS

10) 1/6 VOAs arrived w/out any sample volume for -006

14) COC states there are 39 containers for -006 only 36 were received - the amount necessary for MS/MSD was provided.

* Cooler Receipt for Samples -006/-007 w/ arrived @ 1850 on 3/19/15 *

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265405

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : MW-5B-GW Laboratory Sample ID : 265405-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	15	J,Y	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	66	Y	53	18	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Acetone	1.1	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chloroform	0.9		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Barium	58		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Copper	0.70	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	7.7		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	9.7	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	6.6		5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	6.0	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : MW-5A-GW Laboratory Sample ID : 265405-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	33	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Acetone	0.5	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	2.1		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.4		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Arsenic	1.6	J	5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	12		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Copper	1.3	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	2.2	J	5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	1.5	J	5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	6.1	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	6.0		5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	6.0	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : MW-4B-GW Laboratory Sample ID : 265405-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	19	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Acetone	0.6	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.2	J	0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
bis(2-Ethylhexyl)phthalate	2.9	J	9.6	1.8	ug/L	As Recd	1.000	EPA 8270C	EPA 3520C
Barium	110		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Molybdenum	4.6	J	5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	0.84	J	5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	8.3	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	6.2		5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	6.3	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : DUP-GW-031915 Laboratory Sample ID : 265405-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	21	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Acetone	0.8	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Carbon Disulfide	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	2.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.1		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
bis(2-Ethylhexyl)phthalate	2.7	J	10	1.8	ug/L	As Recd	1.000	EPA 8270C	EPA 3520C
Arsenic	3.0	J	5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Barium	12		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.029	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	2.1	J	5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	9.1	J	10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Silver	1.1	J	5.0	1.1	ug/L	DISS.	1.000	EPA 6010B	METHOD
Vanadium	6.0		5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	4.3	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : TB-031915 Laboratory Sample ID : 265405-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	0.8	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Carbon Disulfide	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

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Client Sample ID : MW-4A-GW Laboratory Sample ID : 265405-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	29	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	31	J	53	18	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Acetone	0.7	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
MTBE	4.7		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chloroform	0.2	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	12		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	20		0.5	0.2	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
bis(2-Ethylhexyl)phthalate	4.7	J	9.8	1.8	ug/L	As Recd	1.000	EPA 8270C	EPA 3520C
Barium	210		5.0	1.0	ug/L	DISS.	1.000	EPA 6010B	METHOD
Beryllium	0.39	J	2.0	0.15	ug/L	DISS.	1.000	EPA 6010B	METHOD
Cobalt	5.9		5.0	0.89	ug/L	DISS.	1.000	EPA 6010B	METHOD
Copper	4.0	J	5.0	0.67	ug/L	DISS.	1.000	EPA 6010B	METHOD
Mercury	0.029	J	0.20	0.021	ug/L	DISS.	1.000	EPA 7470A	METHOD
Molybdenum	6.0		5.0	0.55	ug/L	DISS.	1.000	EPA 6010B	METHOD
Nickel	76		5.0	0.75	ug/L	DISS.	1.000	EPA 6010B	METHOD
Selenium	30		10	2.3	ug/L	DISS.	1.000	EPA 6010B	METHOD
Silver	3.9	J	5.0	1.1	ug/L	DISS.	1.000	EPA 6010B	METHOD
Thallium	0.054	J	1.0	0.020	ug/L	DISS.	5.000	EPA 6020	METHOD
Vanadium	4.9	J	5.0	0.72	ug/L	DISS.	1.000	EPA 6010B	METHOD
Zinc	11	J	20	2.8	ug/L	DISS.	1.000	EPA 6010B	METHOD

Client Sample ID : TB-031915-2 Laboratory Sample ID : 265405-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	1.0	J	10	0.3	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Carbon Disulfide	0.1	J	0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	221548
Units:	ug/L	Sampled:	03/19/15
Diln Fac:	1.000	Received:	03/19/15

Field ID:	MW-5B-GW	Lab ID:	265405-001
Type:	SAMPLE	Analyzed:	03/21/15

Analyte	Result	RL	MDL
Gasoline C7-C12	15 J Y	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	80-132

Field ID:	MW-5A-GW	Lab ID:	265405-002
Type:	SAMPLE	Analyzed:	03/21/15

Analyte	Result	RL	MDL
Gasoline C7-C12	33 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	80-132

Field ID:	MW-4B-GW	Lab ID:	265405-003
Type:	SAMPLE	Analyzed:	03/21/15

Analyte	Result	RL	MDL
Gasoline C7-C12	19 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	80-132

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	221548
Units:	ug/L	Sampled:	03/19/15
Diln Fac:	1.000	Received:	03/19/15

Field ID:	DUP-GW-031915	Lab ID:	265405-004
Type:	SAMPLE	Analyzed:	03/22/15

Analyte	Result	RL	MDL
Gasoline C7-C12	21 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	80-132

Field ID:	MW-4A-GW	Lab ID:	265405-006
Type:	SAMPLE	Analyzed:	03/21/15

Analyte	Result	RL	MDL
Gasoline C7-C12	29 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	80-132

Type:	BLANK	Analyzed:	03/21/15
Lab ID:	QC781565		

Analyte	Result	RL	MDL
Gasoline C7-C12	12 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	80-132

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC781564	Batch#:	221548
Matrix:	Water	Analyzed:	03/21/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	980.5	98	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-4A-GW	Batch#:	221548
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/21/15
Diln Fac:	1.000		

Type: MS Lab ID: QC781566

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	29.33	2,000	1,843	91	76-120

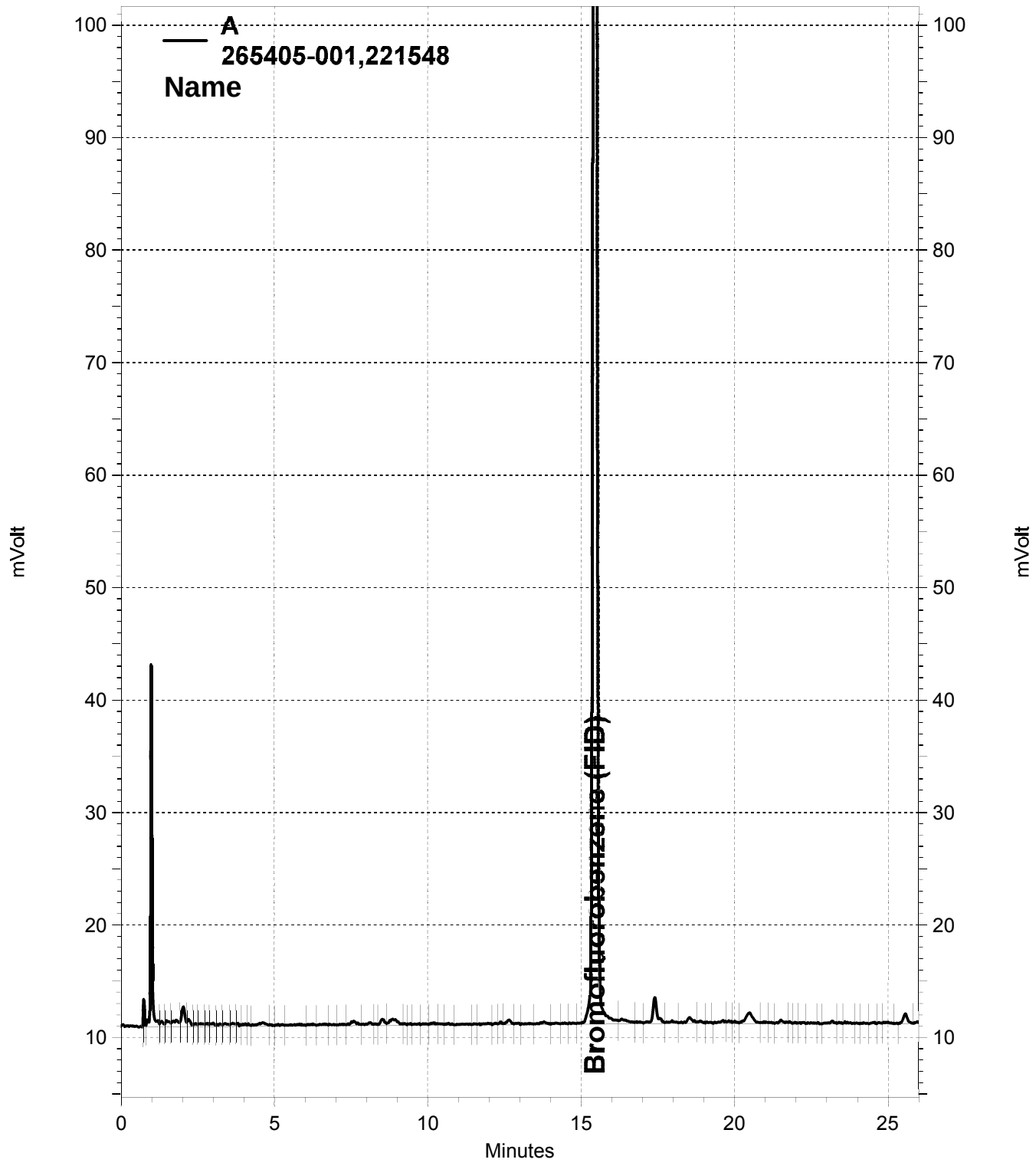
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	80-132

Type: MSD Lab ID: QC781567

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,774	87	76-120	4	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	80-132

RPD= Relative Percent Difference



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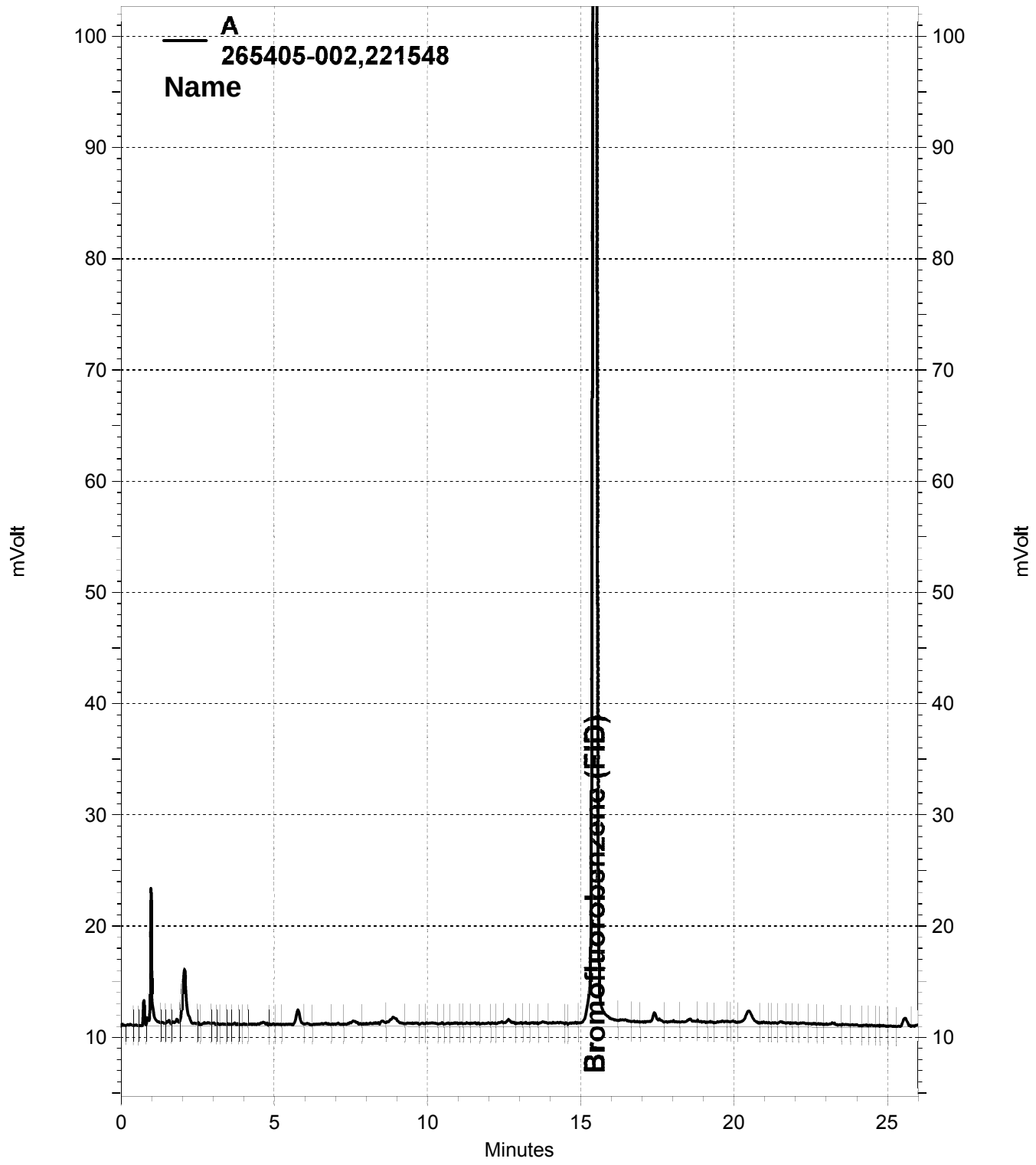

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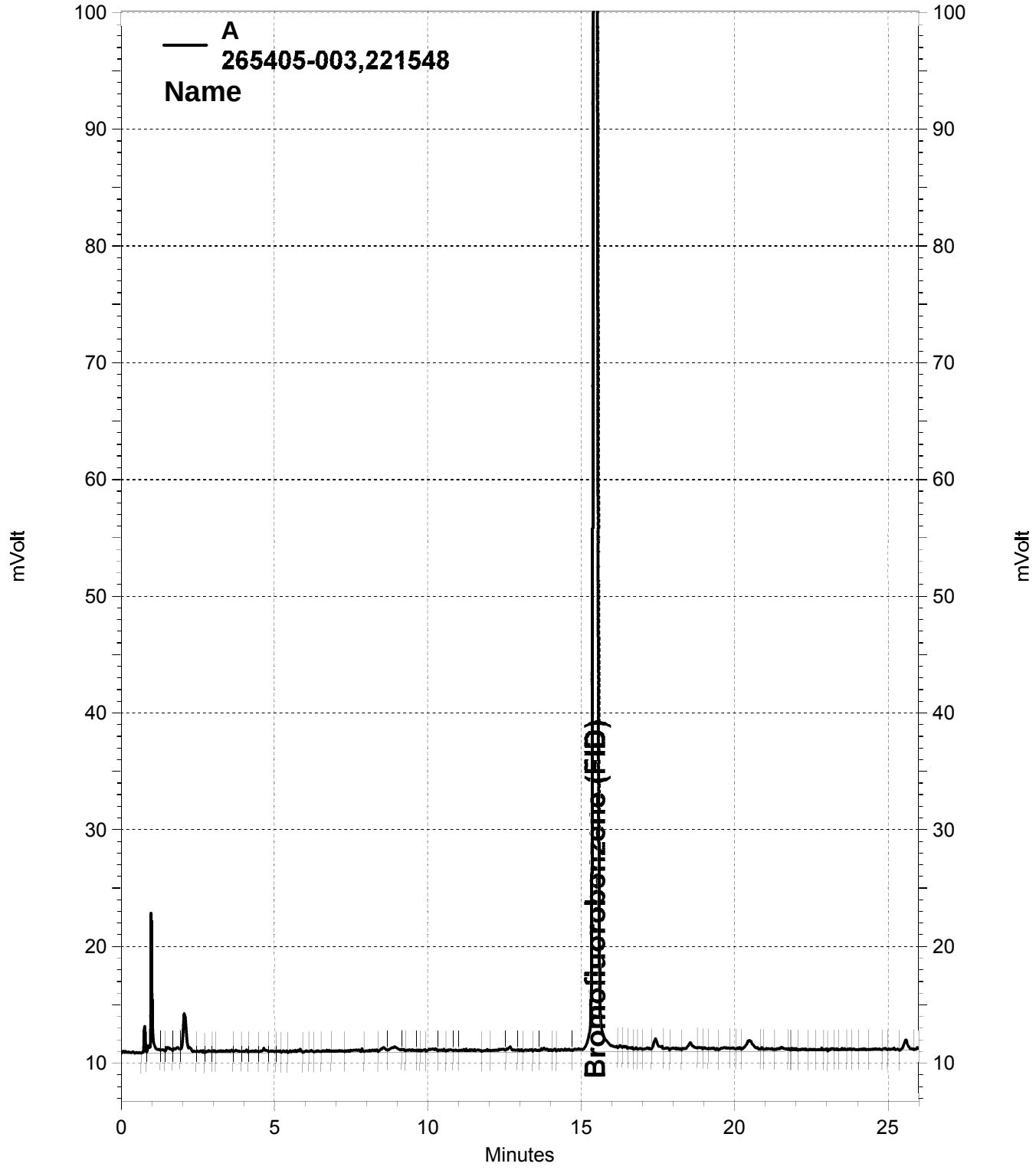

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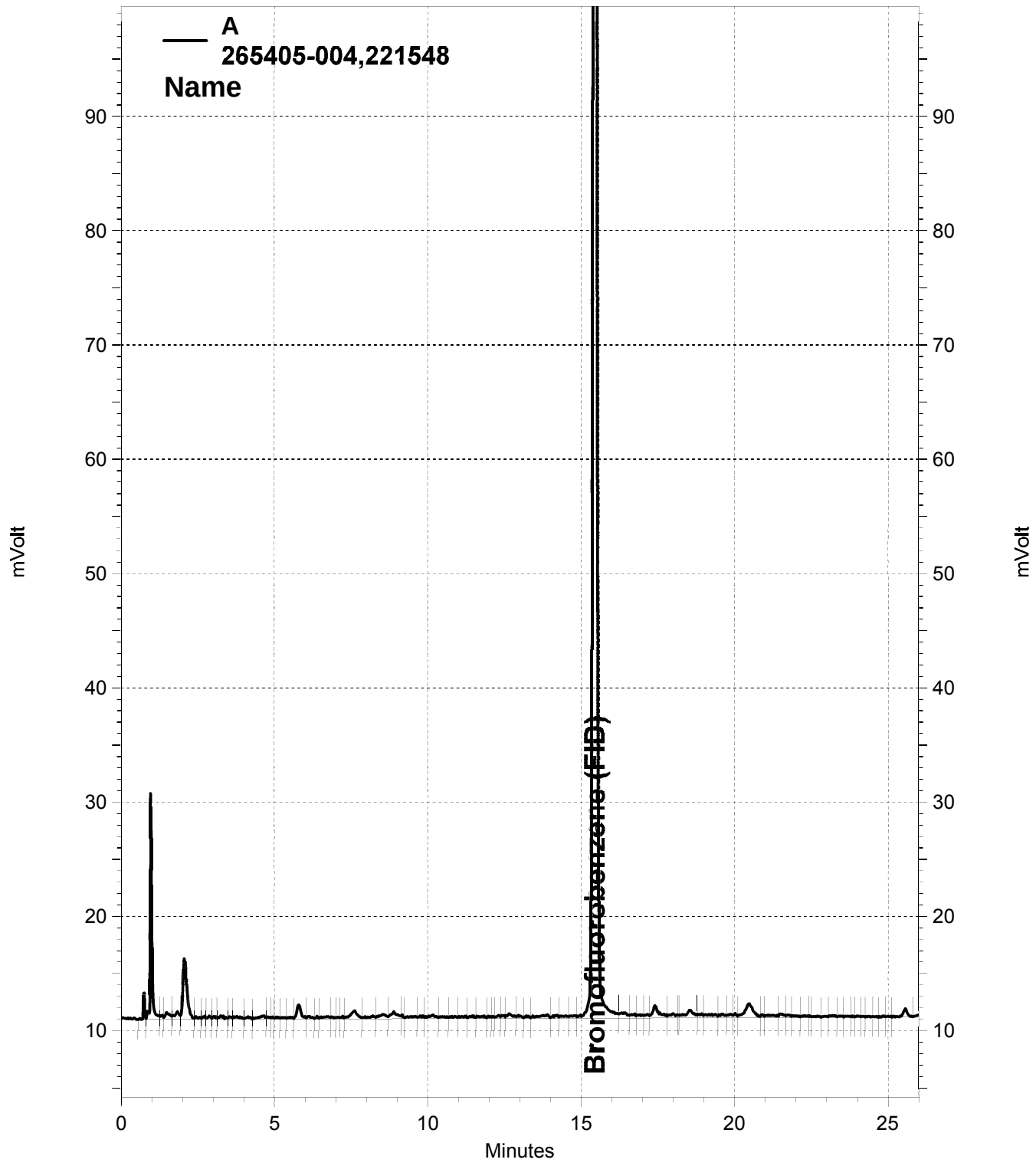

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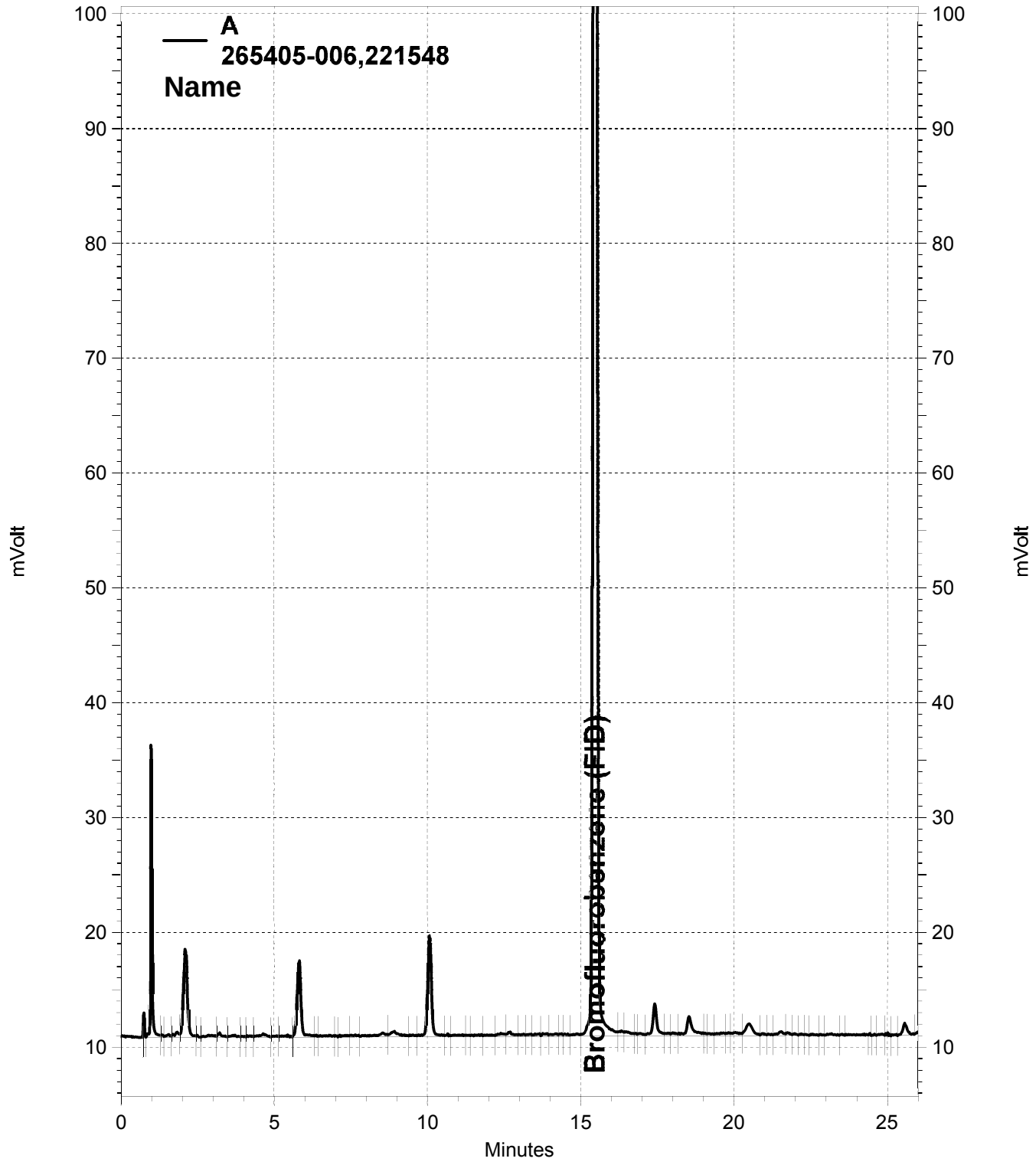

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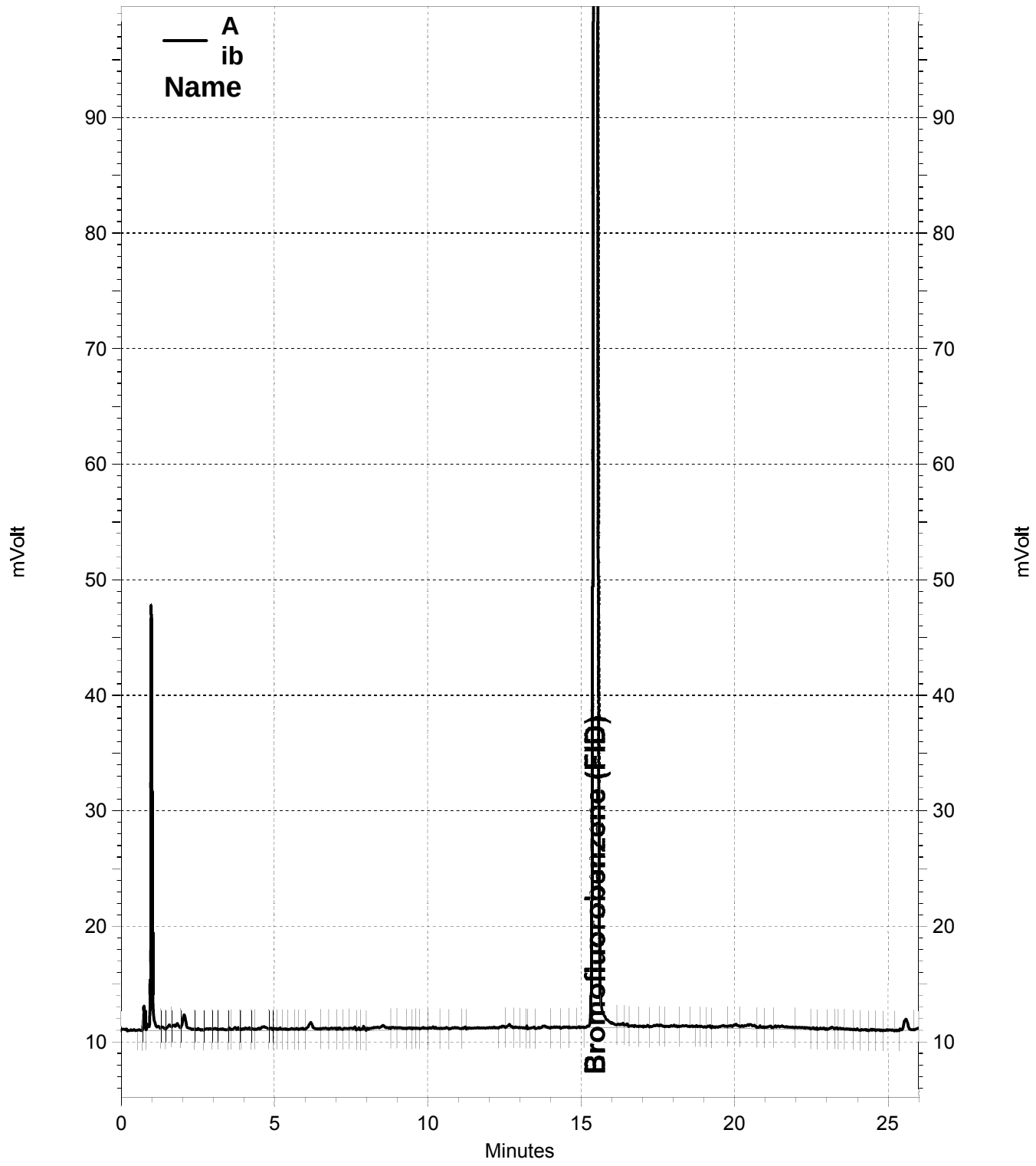

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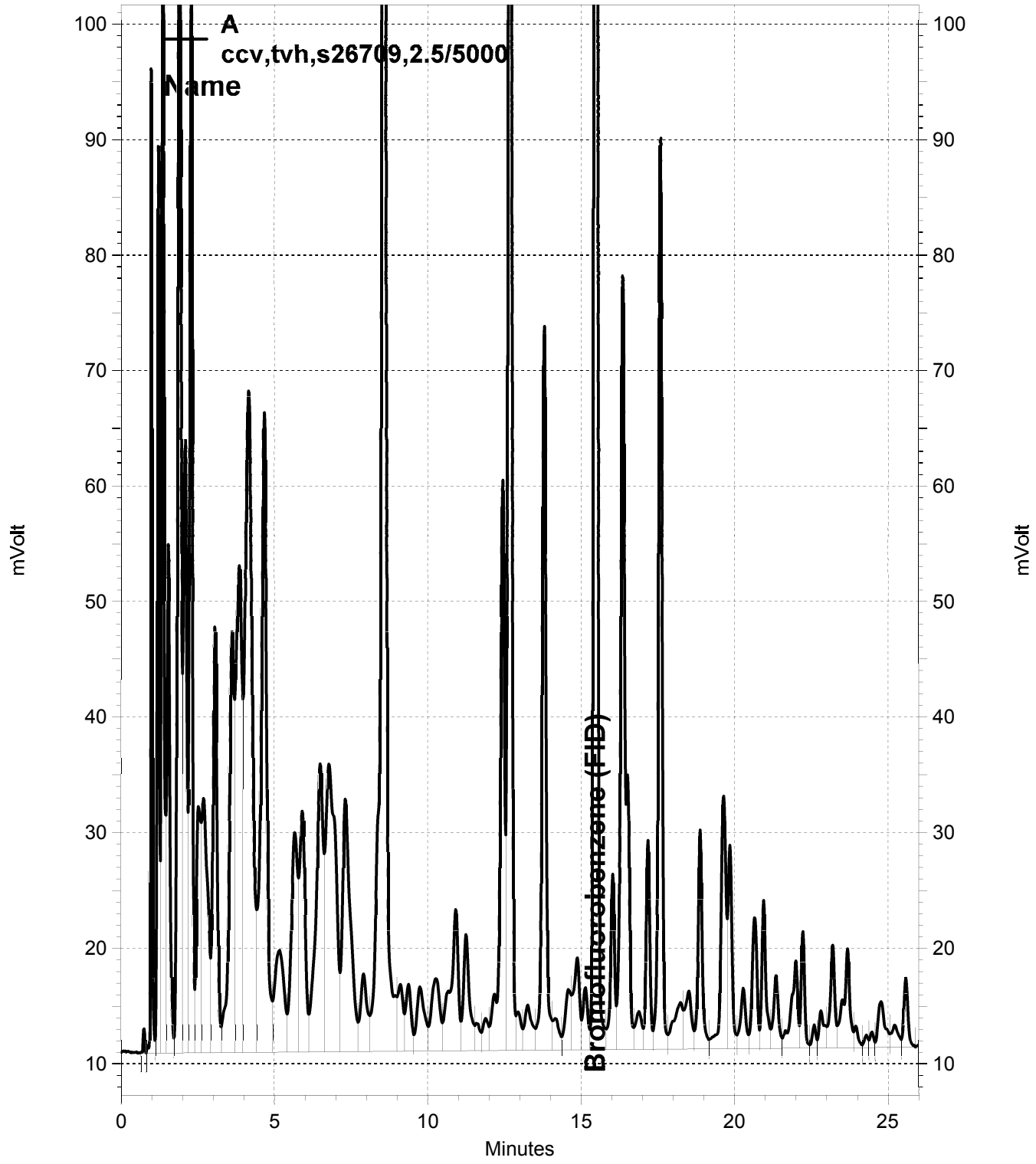

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/19/15
Units:	ug/L	Received:	03/19/15
Diln Fac:	1.000	Prepared:	03/24/15
Batch#:	221619	Analyzed:	03/26/15

Field ID: MW-5B-GW Lab ID: 265405-001
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	66 Y	53	18
Motor Oil C24-C36	ND	320	100

Surrogate	%REC	Limits
o-Terphenyl	99	67-136

Field ID: MW-5A-GW Lab ID: 265405-002
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	ND	53	18
Motor Oil C24-C36	ND	320	100

Surrogate	%REC	Limits
o-Terphenyl	108	67-136

Field ID: MW-4B-GW Lab ID: 265405-003
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	ND	53	18
Motor Oil C24-C36	ND	320	100

Surrogate	%REC	Limits
o-Terphenyl	104	67-136

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/19/15
Units:	ug/L	Received:	03/19/15
Diln Fac:	1.000	Prepared:	03/24/15
Batch#:	221619	Analyzed:	03/26/15

Field ID: DUP-GW-031915 Lab ID: 265405-004
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	ND	53	18
Motor Oil C24-C36	ND	320	100

Surrogate	%REC	Limits
o-Terphenyl	92	67-136

Field ID: MW-4A-GW Lab ID: 265405-006
Type: SAMPLE

Analyte	Result	RL	MDL
Diesel C10-C24	31 J	53	18
Motor Oil C24-C36	ND	320	100

Surrogate	%REC	Limits
o-Terphenyl	107	67-136

Type: BLANK Lab ID: QC781841

Analyte	Result	RL	MDL
Diesel C10-C24	17 J	50	16
Motor Oil C24-C36	100 J	300	96

Surrogate	%REC	Limits
o-Terphenyl	105	67-136

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC781842	Batch#:	221619
Matrix:	Water	Prepared:	03/24/15
Units:	ug/L	Analyzed:	03/26/15

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,486	99	60-121

Surrogate	%REC	Limits
o-Terphenyl	105	67-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	MW-4A-GW	Batch#:	221619
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/24/15
Diln Fac:	1.000	Analyzed:	03/26/15

Type: MS Lab ID: QC781843

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	31.42	2,717	2,410	88	55-122

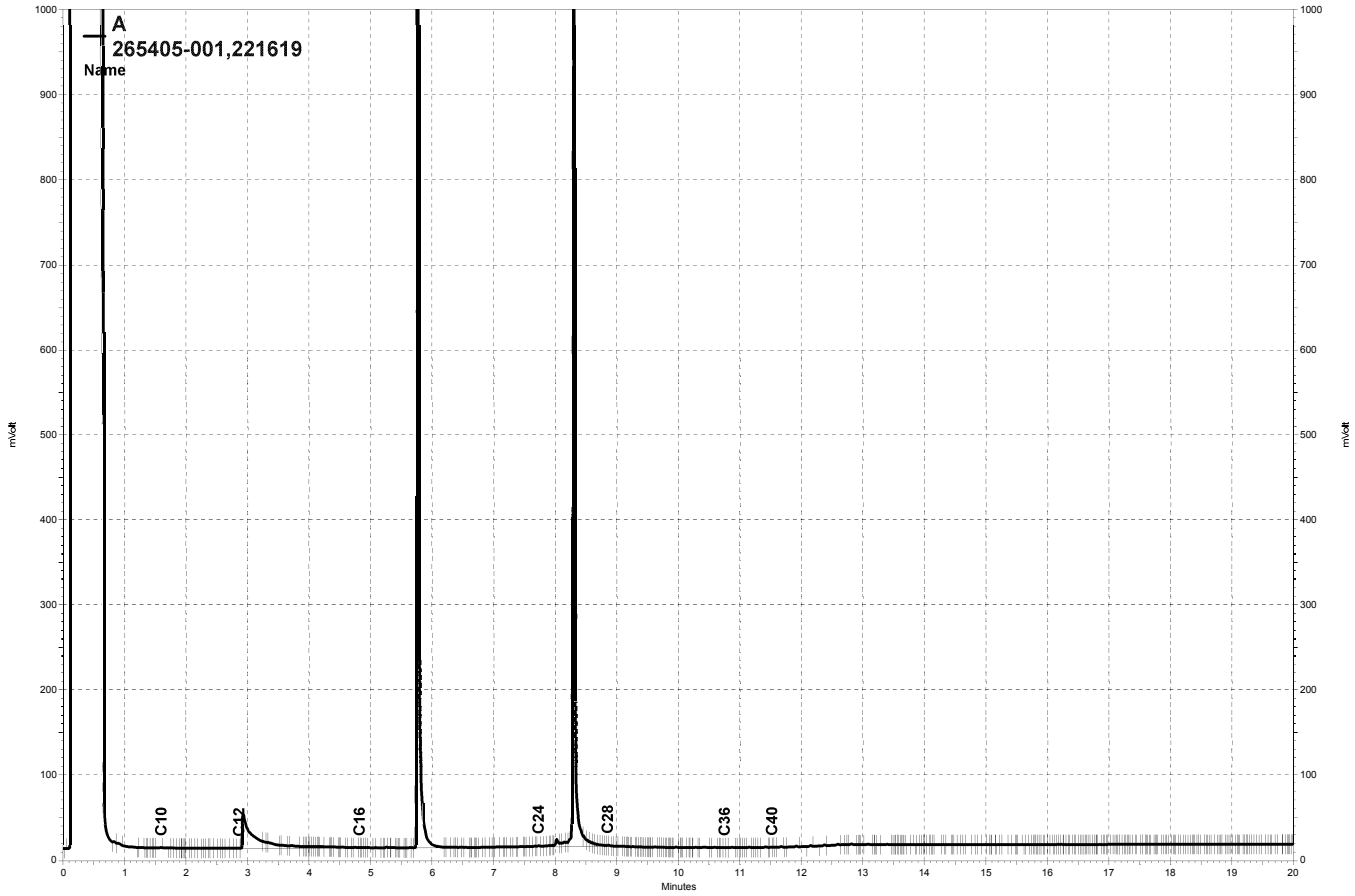
Surrogate	%REC	Limits
o-Terphenyl	104	67-136

Type: MSD Lab ID: QC781844

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,660	2,392	89	55-122	1	53

Surrogate	%REC	Limits
o-Terphenyl	103	67-136

RPD= Relative Percent Difference



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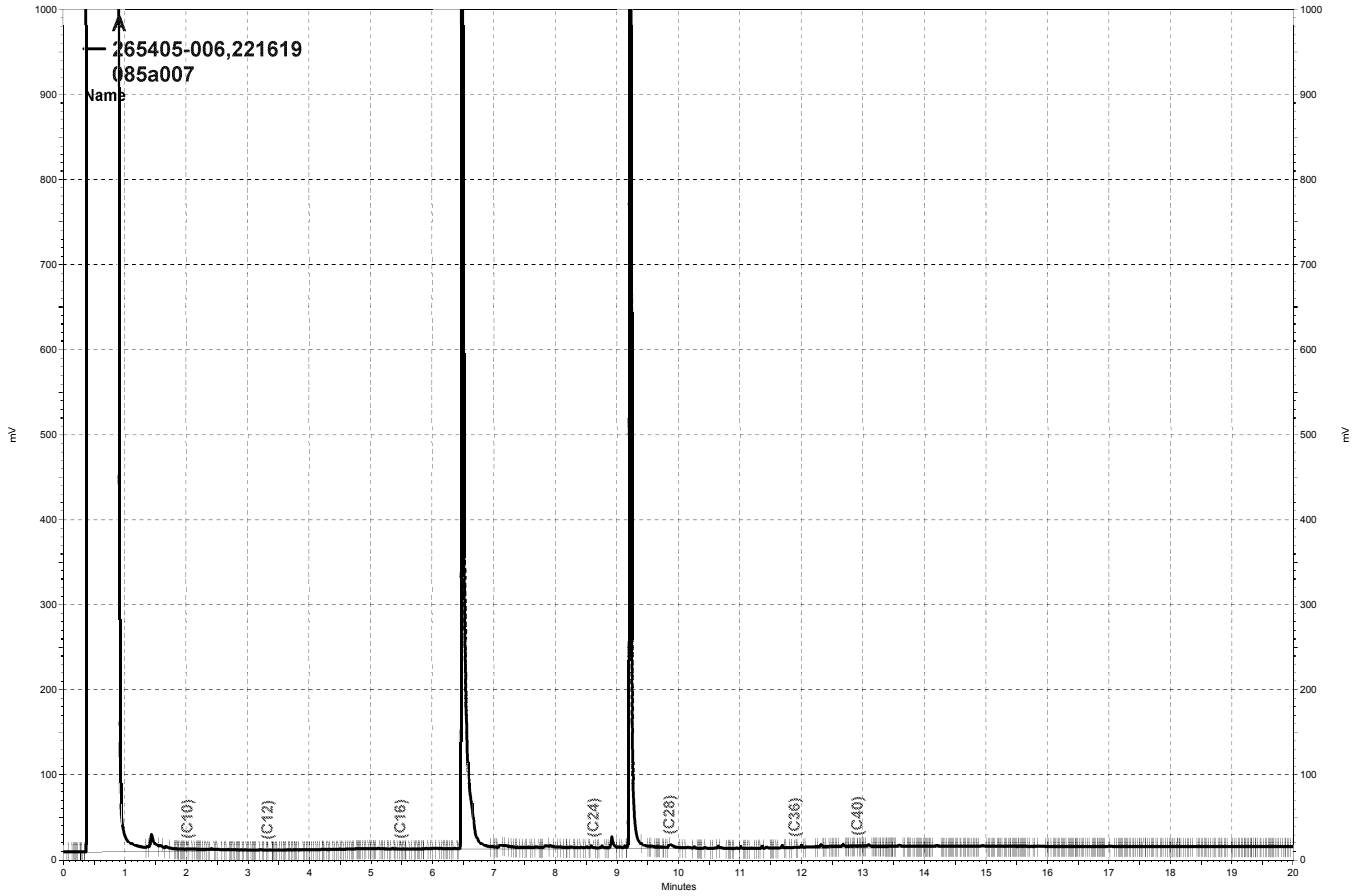

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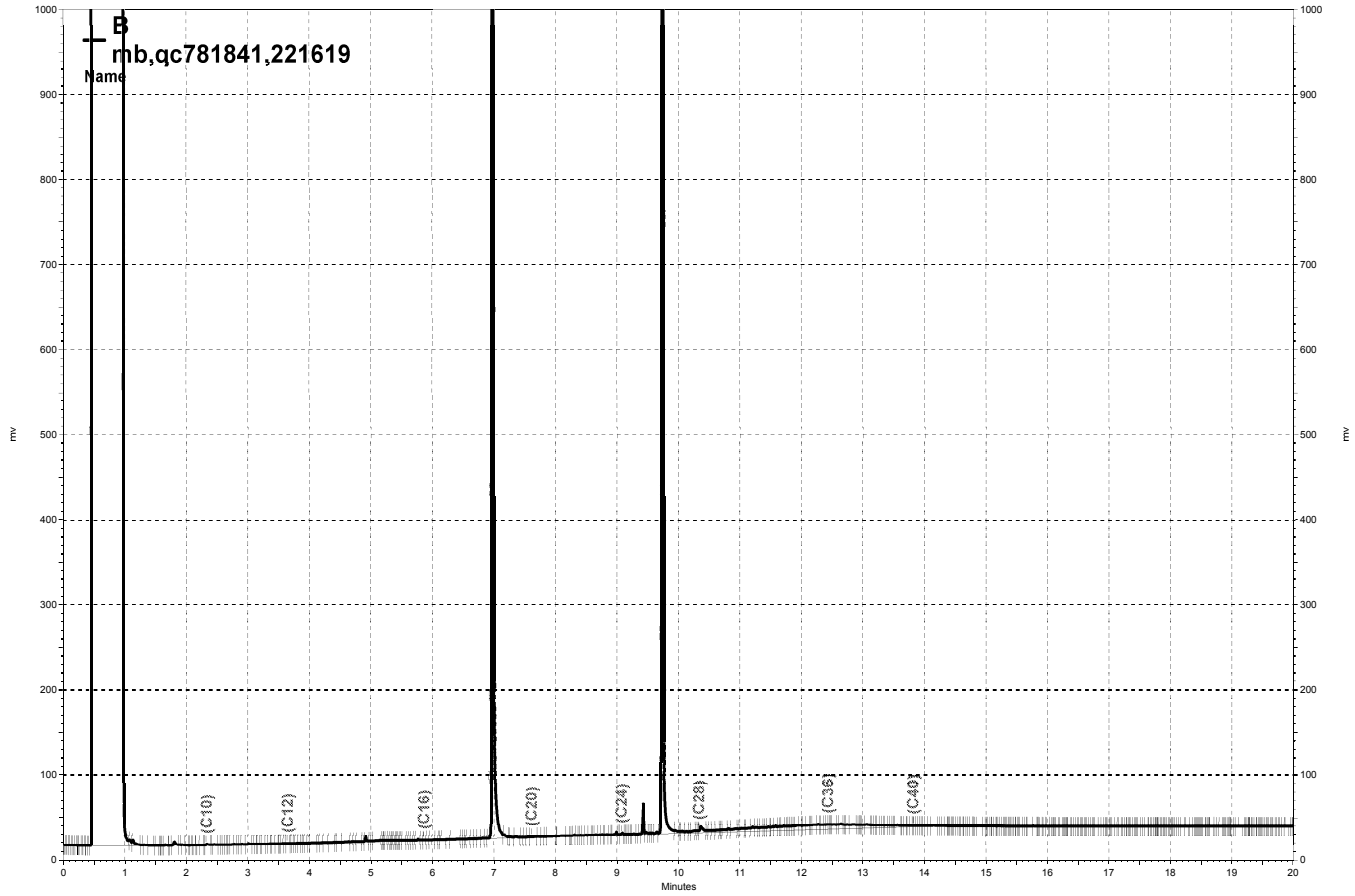

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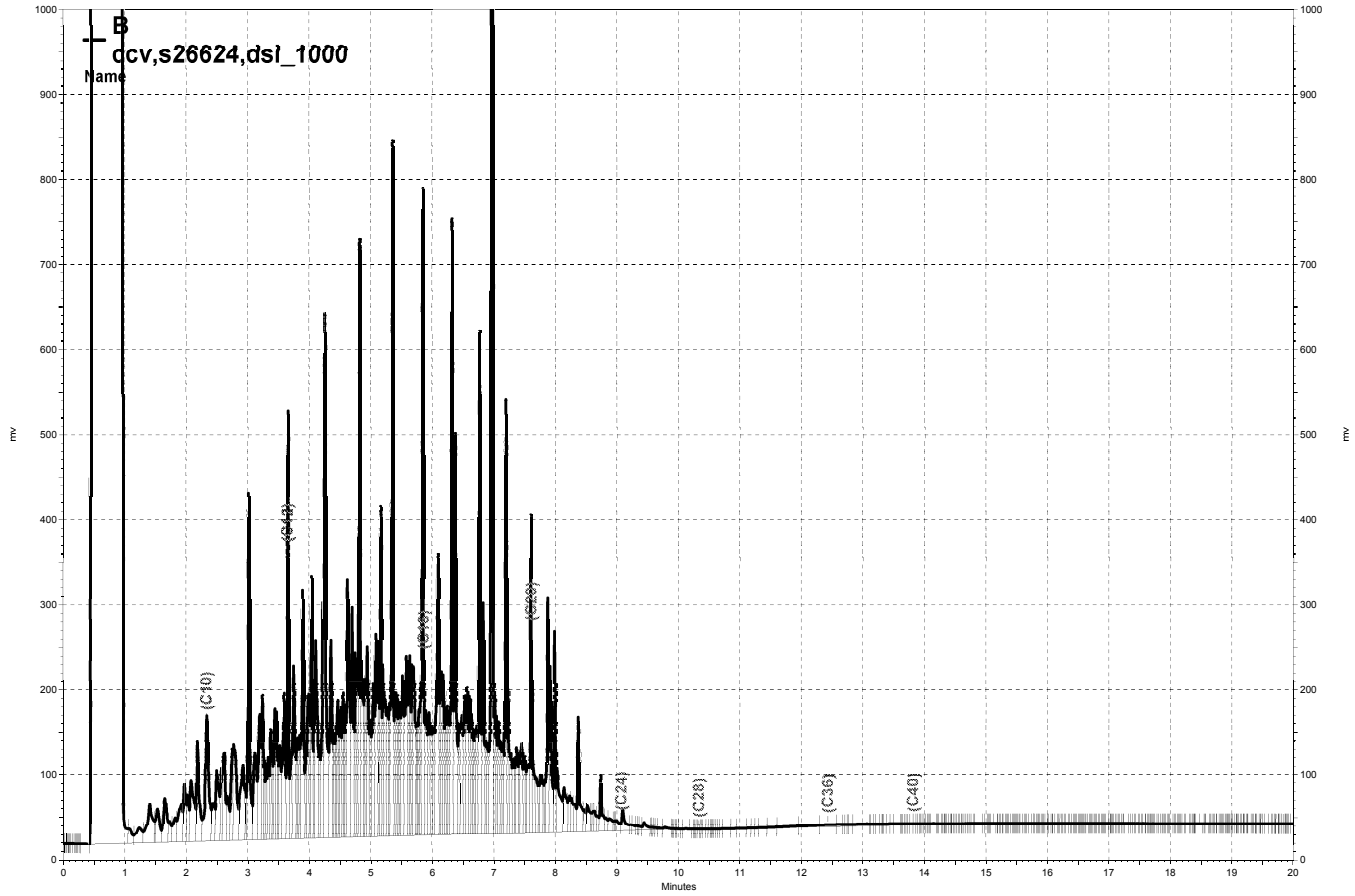

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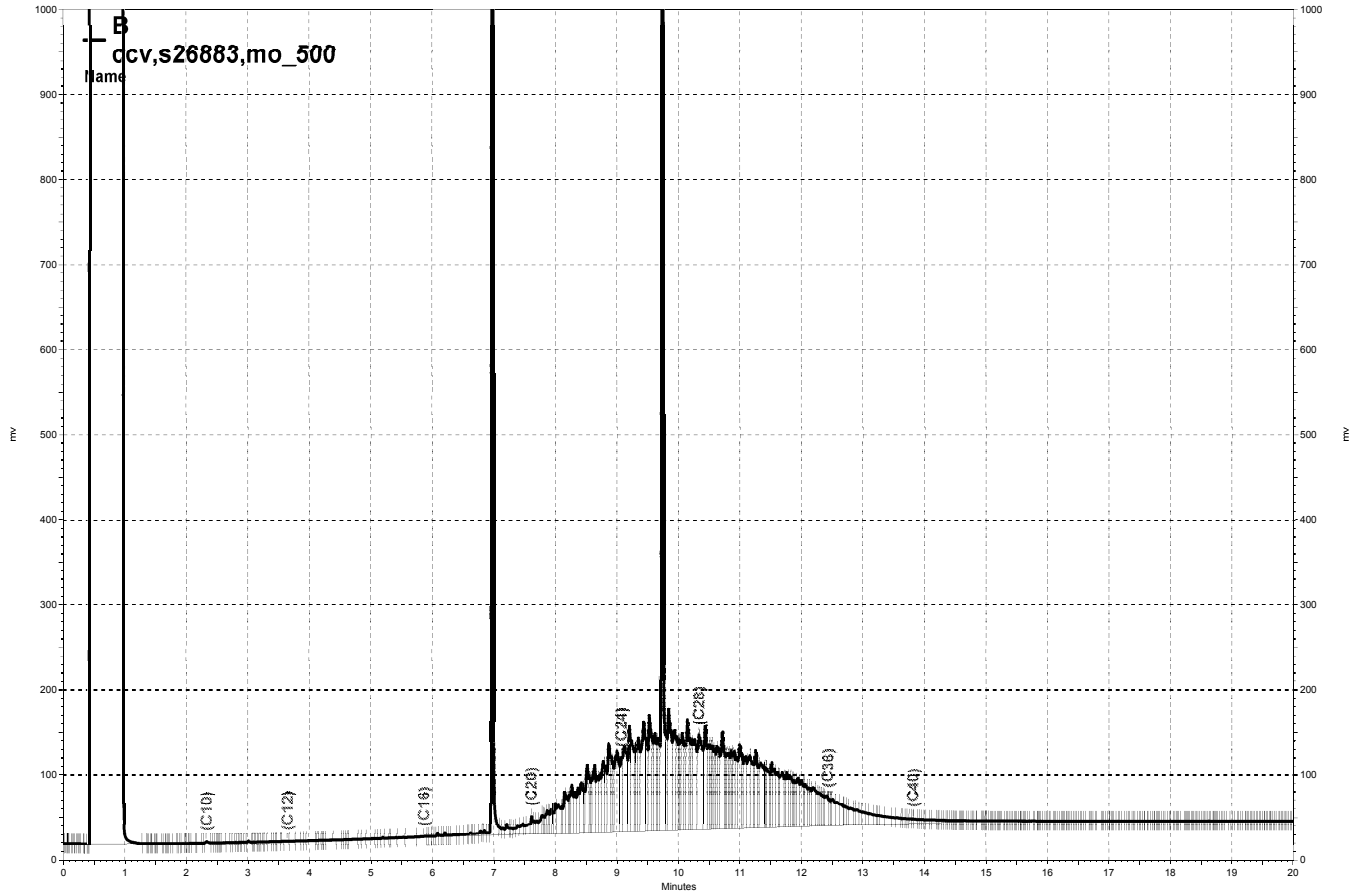

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-5B-GW	Batch#:	221521
Lab ID:	265405-001	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.1 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.9	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-5B-GW	Batch#:	221521
Lab ID:	265405-001	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-128
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	91	80-120
Bromofluorobenzene	101	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-5A-GW	Batch#:	221521
Lab ID:	265405-002	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.5 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	2.1	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	2.4	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-5A-GW	Batch#:	221521
Lab ID:	265405-002	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	118	75-139
Toluene-d8	88	80-120
Bromofluorobenzene	104	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-4B-GW	Batch#:	221521
Lab ID:	265405-003	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.6 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	0.2 J	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-4B-GW	Batch#:	221521
Lab ID:	265405-003	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-128
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	93	80-120
Bromofluorobenzene	103	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	DUP-GW-031915	Batch#:	221521
Lab ID:	265405-004	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.8 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	0.1 J	0.5	0.1
MTBE	2.2	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	2.1	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	DUP-GW-031915	Batch#:	221521
Lab ID:	265405-004	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-128
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	84	80-120
Bromofluorobenzene	96	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-031915	Batch#:	221521
Lab ID:	265405-005	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.8 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	0.2 J	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-031915	Batch#:	221521
Lab ID:	265405-005	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	91	80-120
Bromofluorobenzene	99	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-4A-GW	Batch#:	221521
Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	0.7 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.1
MTBE	4.7	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	1.3	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	0.2 J	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	12	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	20	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-4A-GW	Batch#:	221521
Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-128
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	94	80-120
Bromofluorobenzene	101	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-031915-2	Batch#:	221521
Lab ID:	265405-007	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	1.0 J	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	0.1 J	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TB-031915-2	Batch#:	221521
Lab ID:	265405-007	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-128
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	92	80-120
Bromofluorobenzene	99	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	221521
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC781449

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.19	106	66-135
Benzene	12.50	13.11	105	80-123
Trichloroethene	12.50	13.42	107	80-123
Toluene	12.50	11.90	95	80-121
Chlorobenzene	12.50	12.08	97	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC781450

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.00	96	66-135	9	24
Benzene	12.50	12.39	99	80-123	6	20
Trichloroethene	12.50	12.42	99	80-123	8	20
Toluene	12.50	11.09	89	80-121	7	20
Chlorobenzene	12.50	11.54	92	80-123	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	90	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	MW-4A-GW	Batch#:	221521
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Analyzed:	03/20/15
Diln Fac:	1.000		

Type: MS Lab ID: QC781451

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1259	25.00	26.12	104	73-129
Benzene	<0.1492	25.00	26.62	106	80-120
Trichloroethene	12.29	25.00	38.14	103	73-123
Toluene	<0.1147	25.00	23.75	95	80-120
Chlorobenzene	<0.1188	25.00	23.68	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	92	80-120
Bromofluorobenzene	99	80-120

Type: MSD Lab ID: QC781452

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.21	101	73-129	4	25
Benzene	25.00	24.85	99	80-120	7	20
Trichloroethene	25.00	36.16	95	73-123	5	20
Toluene	25.00	24.48	98	80-120	3	21
Chlorobenzene	25.00	24.03	96	80-120	1	24

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-128
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC781453	Batch#:	221521
Matrix:	Water	Analyzed:	03/20/15
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.1
Chloromethane	ND	1.0	0.1
Vinyl Chloride	ND	0.5	0.1
Bromomethane	ND	1.0	0.1
Chloroethane	ND	1.0	0.1
Trichlorofluoromethane	ND	1.0	0.1
Acetone	ND	10	0.3
Freon 113	ND	2.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	0.1 J	0.5	0.1
MTBE	ND	0.5	0.1
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.2
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.3
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.1
Chloroform	ND	0.5	0.1
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.1
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.2
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.1
Trichloroethene	ND	0.5	0.1
1,2-Dichloropropane	ND	0.5	0.1
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.1
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.1
Toluene	ND	0.5	0.1
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.1
2-Hexanone	ND	10	0.3
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.2
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.1
Chlorobenzene	ND	0.5	0.1
1,1,1,2-Tetrachloroethane	ND	0.5	0.1
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.1
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.2
Isopropylbenzene	ND	0.5	0.1
1,1,2,2-Tetrachloroethane	ND	0.5	0.1
1,2,3-Trichloropropane	ND	0.5	0.1
Propylbenzene	ND	0.5	0.1
Bromobenzene	ND	0.5	0.1
1,3,5-Trimethylbenzene	ND	0.5	0.1

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC781453	Batch#:	221521
Matrix:	Water	Analyzed:	03/20/15
Units:	ug/L		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.1
tert-Butylbenzene	ND	0.5	0.1
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.1
para-Isopropyl Toluene	ND	0.5	0.1
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.1
n-Butylbenzene	ND	0.5	0.1
1,2-Dichlorobenzene	ND	0.5	0.1
1,2-Dibromo-3-Chloropropane	ND	2.0	0.2
1,2,4-Trichlorobenzene	ND	0.5	0.1
Hexachlorobutadiene	ND	2.0	0.2
Naphthalene	ND	2.0	0.2
1,2,3-Trichlorobenzene	ND	0.5	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-128
1,2-Dichloroethane-d4	98	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	98	80-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-5B-GW	Batch#:	221532
Lab ID:	265405-001	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	9.8	1.4
Phenol	ND	9.8	1.0
bis(2-Chloroethyl)ether	ND	9.8	1.2
2-Chlorophenol	ND	9.8	0.80
1,3-Dichlorobenzene	ND	9.8	1.0
1,4-Dichlorobenzene	ND	9.8	1.0
Benzyl alcohol	ND	9.8	1.1
1,2-Dichlorobenzene	ND	9.8	2.0
2-Methylphenol	ND	9.8	2.1
bis(2-Chloroisopropyl) ether	ND	9.8	1.4
4-Methylphenol	ND	9.8	1.7
N-Nitroso-di-n-propylamine	ND	9.8	1.2
Hexachloroethane	ND	9.8	1.1
Nitrobenzene	ND	9.8	1.2
Isophorone	ND	9.8	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	9.8	2.4
Benzoic acid	ND	49	15
bis(2-Chloroethoxy)methane	ND	9.8	1.1
2,4-Dichlorophenol	ND	9.8	2.1
1,2,4-Trichlorobenzene	ND	9.8	2.2
Naphthalene	ND	9.8	1.9
4-Chloroaniline	ND	9.8	2.0
Hexachlorobutadiene	ND	9.8	2.3
4-Chloro-3-methylphenol	ND	9.8	1.0
2-Methylnaphthalene	ND	9.8	1.8
Hexachlorocyclopentadiene	ND	20	0.66
2,4,6-Trichlorophenol	ND	9.8	0.90
2,4,5-Trichlorophenol	ND	9.8	0.83
2-Chloronaphthalene	ND	9.8	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	9.8	2.0
Acenaphthylene	ND	9.8	1.7
2,6-Dinitrotoluene	ND	9.8	1.7
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	9.8	1.8
2,4-Dinitrophenol	ND	20	2.5
4-Nitrophenol	ND	20	1.7
Dibenzofuran	ND	9.8	1.8
2,4-Dinitrotoluene	ND	9.8	2.0
Diethylphthalate	ND	9.8	1.0
Fluorene	ND	9.8	1.7
4-Chlorophenyl-phenylether	ND	9.8	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	9.8	1.6
Azobenzene	ND	9.8	1.1
4-Bromophenyl-phenylether	ND	9.8	2.0
Hexachlorobenzene	ND	9.8	1.9
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	9.8	1.9
Anthracene	ND	9.8	1.8
Di-n-butylphthalate	ND	9.8	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-5B-GW	Batch#:	221532
Lab ID:	265405-001	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Fluoranthene	ND	9.8	1.9
Pyrene	ND	9.8	1.6
Butylbenzylphthalate	ND	9.8	0.99
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	9.8	1.6
Chrysene	ND	9.8	1.7
bis(2-Ethylhexyl)phthalate	ND	9.8	1.8
Di-n-octylphthalate	ND	9.8	1.8
Benzo(b)fluoranthene	ND	9.8	1.7
Benzo(k)fluoranthene	ND	9.8	1.9
Benzo(a)pyrene	ND	9.8	1.5
Indeno(1,2,3-cd)pyrene	ND	9.8	1.8
Dibenz(a,h)anthracene	ND	9.8	1.7
Benzo(g,h,i)perylene	ND	9.8	1.8

Surrogate	%REC	Limits
2-Fluorophenol	88	38-120
Phenol-d5	95	38-120
2,4,6-Tribromophenol	92	46-120
Nitrobenzene-d5	93	51-120
2-Fluorobiphenyl	84	54-120
Terphenyl-d14	76	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-5A-GW	Batch#:	221532
Lab ID:	265405-002	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	1.5
Phenol	ND	10	1.0
bis(2-Chloroethyl)ether	ND	10	1.2
2-Chlorophenol	ND	10	0.82
1,3-Dichlorobenzene	ND	10	1.0
1,4-Dichlorobenzene	ND	10	1.1
Benzyl alcohol	ND	10	1.1
1,2-Dichlorobenzene	ND	10	2.1
2-Methylphenol	ND	10	2.2
bis(2-Chloroisopropyl) ether	ND	10	1.4
4-Methylphenol	ND	10	1.7
N-Nitroso-di-n-propylamine	ND	10	1.2
Hexachloroethane	ND	10	1.1
Nitrobenzene	ND	10	1.2
Isophorone	ND	10	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	2.5
Benzoic acid	ND	50	16
bis(2-Chloroethoxy)methane	ND	10	1.1
2,4-Dichlorophenol	ND	10	2.1
1,2,4-Trichlorobenzene	ND	10	2.2
Naphthalene	ND	10	1.9
4-Chloroaniline	ND	10	2.1
Hexachlorobutadiene	ND	10	2.4
4-Chloro-3-methylphenol	ND	10	1.0
2-Methylnaphthalene	ND	10	1.8
Hexachlorocyclopentadiene	ND	20	0.68
2,4,6-Trichlorophenol	ND	10	0.92
2,4,5-Trichlorophenol	ND	10	0.85
2-Chloronaphthalene	ND	10	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	10	2.0
Acenaphthylene	ND	10	1.7
2,6-Dinitrotoluene	ND	10	1.8
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	10	1.8
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.8
Dibenzofuran	ND	10	1.9
2,4-Dinitrotoluene	ND	10	2.1
Diethylphthalate	ND	10	1.0
Fluorene	ND	10	1.8
4-Chlorophenyl-phenylether	ND	10	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	10	1.7
Azobenzene	ND	10	1.2
4-Bromophenyl-phenylether	ND	10	2.0
Hexachlorobenzene	ND	10	2.0
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	10	1.9
Anthracene	ND	10	1.8
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-5A-GW	Batch#:	221532
Lab ID:	265405-002	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.9
Pyrene	ND	10	1.7
Butylbenzylphthalate	ND	10	1.0
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	10	1.6
Chrysene	ND	10	1.7
bis(2-Ethylhexyl)phthalate	ND	10	1.8
Di-n-octylphthalate	ND	10	1.8
Benzo(b)fluoranthene	ND	10	1.7
Benzo(k)fluoranthene	ND	10	2.0
Benzo(a)pyrene	ND	10	1.6
Indeno(1,2,3-cd)pyrene	ND	10	1.8
Dibenz(a,h)anthracene	ND	10	1.8
Benzo(g,h,i)perylene	ND	10	1.9

Surrogate	%REC	Limits
2-Fluorophenol	74	38-120
Phenol-d5	82	38-120
2,4,6-Tribromophenol	87	46-120
Nitrobenzene-d5	79	51-120
2-Fluorobiphenyl	74	54-120
Terphenyl-d14	83	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-4B-GW	Batch#:	221532
Lab ID:	265405-003	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	9.6	1.4
Phenol	ND	9.6	0.98
bis(2-Chloroethyl)ether	ND	9.6	1.2
2-Chlorophenol	ND	9.6	0.79
1,3-Dichlorobenzene	ND	9.6	0.99
1,4-Dichlorobenzene	ND	9.6	1.0
Benzyl alcohol	ND	9.6	1.1
1,2-Dichlorobenzene	ND	9.6	2.0
2-Methylphenol	ND	9.6	2.1
bis(2-Chloroisopropyl) ether	ND	9.6	1.4
4-Methylphenol	ND	9.6	1.6
N-Nitroso-di-n-propylamine	ND	9.6	1.2
Hexachloroethane	ND	9.6	1.1
Nitrobenzene	ND	9.6	1.2
Isophorone	ND	9.6	1.3
2-Nitrophenol	ND	19	2.5
2,4-Dimethylphenol	ND	9.6	2.4
Benzoic acid	ND	48	15
bis(2-Chloroethoxy)methane	ND	9.6	1.0
2,4-Dichlorophenol	ND	9.6	2.0
1,2,4-Trichlorobenzene	ND	9.6	2.2
Naphthalene	ND	9.6	1.8
4-Chloroaniline	ND	9.6	2.0
Hexachlorobutadiene	ND	9.6	2.3
4-Chloro-3-methylphenol	ND	9.6	1.0
2-Methylnaphthalene	ND	9.6	1.8
Hexachlorocyclopentadiene	ND	19	0.65
2,4,6-Trichlorophenol	ND	9.6	0.88
2,4,5-Trichlorophenol	ND	9.6	0.82
2-Chloronaphthalene	ND	9.6	1.8
2-Nitroaniline	ND	19	1.1
Dimethylphthalate	ND	9.6	1.9
Acenaphthylene	ND	9.6	1.7
2,6-Dinitrotoluene	ND	9.6	1.7
3-Nitroaniline	ND	19	1.9
Acenaphthene	ND	9.6	1.7
2,4-Dinitrophenol	ND	19	2.5
4-Nitrophenol	ND	19	1.7
Dibenzofuran	ND	9.6	1.8
2,4-Dinitrotoluene	ND	9.6	2.0
Diethylphthalate	ND	9.6	0.98
Fluorene	ND	9.6	1.7
4-Chlorophenyl-phenylether	ND	9.6	1.6
4-Nitroaniline	ND	19	2.3
4,6-Dinitro-2-methylphenol	ND	19	1.1
N-Nitrosodiphenylamine	ND	9.6	1.6
Azobenzene	ND	9.6	1.1
4-Bromophenyl-phenylether	ND	9.6	1.9
Hexachlorobenzene	ND	9.6	1.9
Pentachlorophenol	ND	19	1.9
Phenanthrene	ND	9.6	1.8
Anthracene	ND	9.6	1.8

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-4B-GW	Batch#:	221532
Lab ID:	265405-003	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	9.6	1.1
Fluoranthene	ND	9.6	1.9
Pyrene	ND	9.6	1.6
Butylbenzylphthalate	ND	9.6	0.97
3,3'-Dichlorobenzidine	ND	19	1.0
Benzo(a)anthracene	ND	9.6	1.5
Chrysene	ND	9.6	1.7
bis(2-Ethylhexyl)phthalate	2.9 J	9.6	1.8
Di-n-octylphthalate	ND	9.6	1.8
Benzo(b)fluoranthene	ND	9.6	1.7
Benzo(k)fluoranthene	ND	9.6	1.9
Benzo(a)pyrene	ND	9.6	1.5
Indeno(1,2,3-cd)pyrene	ND	9.6	1.7
Dibenz(a,h)anthracene	ND	9.6	1.7
Benzo(g,h,i)perylene	ND	9.6	1.8

Surrogate	%REC	Limits
2-Fluorophenol	71	38-120
Phenol-d5	80	38-120
2,4,6-Tribromophenol	56	46-120
Nitrobenzene-d5	71	51-120
2-Fluorobiphenyl	55	54-120
Terphenyl-d14	55	21-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	DUP-GW-031915	Batch#:	221532
Lab ID:	265405-004	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	1.5
Phenol	ND	10	1.0
bis(2-Chloroethyl)ether	ND	10	1.2
2-Chlorophenol	ND	10	0.82
1,3-Dichlorobenzene	ND	10	1.0
1,4-Dichlorobenzene	ND	10	1.1
Benzyl alcohol	ND	10	1.1
1,2-Dichlorobenzene	ND	10	2.1
2-Methylphenol	ND	10	2.2
bis(2-Chloroisopropyl) ether	ND	10	1.4
4-Methylphenol	ND	10	1.7
N-Nitroso-di-n-propylamine	ND	10	1.2
Hexachloroethane	ND	10	1.1
Nitrobenzene	ND	10	1.2
Isophorone	ND	10	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	2.5
Benzoic acid	ND	50	16
bis(2-Chloroethoxy)methane	ND	10	1.1
2,4-Dichlorophenol	ND	10	2.1
1,2,4-Trichlorobenzene	ND	10	2.2
Naphthalene	ND	10	1.9
4-Chloroaniline	ND	10	2.1
Hexachlorobutadiene	ND	10	2.4
4-Chloro-3-methylphenol	ND	10	1.0
2-Methylnaphthalene	ND	10	1.8
Hexachlorocyclopentadiene	ND	20	0.68
2,4,6-Trichlorophenol	ND	10	0.92
2,4,5-Trichlorophenol	ND	10	0.85
2-Chloronaphthalene	ND	10	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	10	2.0
Acenaphthylene	ND	10	1.7
2,6-Dinitrotoluene	ND	10	1.8
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	10	1.8
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.8
Dibenzofuran	ND	10	1.9
2,4-Dinitrotoluene	ND	10	2.1
Diethylphthalate	ND	10	1.0
Fluorene	ND	10	1.8
4-Chlorophenyl-phenylether	ND	10	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	10	1.7
Azobenzene	ND	10	1.2
4-Bromophenyl-phenylether	ND	10	2.0
Hexachlorobenzene	ND	10	2.0
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	10	1.9
Anthracene	ND	10	1.8

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	DUP-GW-031915	Batch#:	221532
Lab ID:	265405-004	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	10	1.2
Fluoranthene	ND	10	1.9
Pyrene	ND	10	1.7
Butylbenzylphthalate	ND	10	1.0
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	10	1.6
Chrysene	ND	10	1.7
bis(2-Ethylhexyl)phthalate	2.7 J	10	1.8
Di-n-octylphthalate	ND	10	1.8
Benzo(b)fluoranthene	ND	10	1.7
Benzo(k)fluoranthene	ND	10	2.0
Benzo(a)pyrene	ND	10	1.6
Indeno(1,2,3-cd)pyrene	ND	10	1.8
Dibenz(a,h)anthracene	ND	10	1.8
Benzo(g,h,i)perylene	ND	10	1.9

Surrogate	%REC	Limits
2-Fluorophenol	68	38-120
Phenol-d5	78	38-120
2,4,6-Tribromophenol	79	46-120
Nitrobenzene-d5	74	51-120
2-Fluorobiphenyl	68	54-120
Terphenyl-d14	79	21-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-4A-GW	Batch#:	221532
Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	9.8	1.4
Phenol	ND	9.8	1.0
bis(2-Chloroethyl)ether	ND	9.8	1.2
2-Chlorophenol	ND	9.8	0.80
1,3-Dichlorobenzene	ND	9.8	1.0
1,4-Dichlorobenzene	ND	9.8	1.0
Benzyl alcohol	ND	9.8	1.1
1,2-Dichlorobenzene	ND	9.8	2.0
2-Methylphenol	ND	9.8	2.1
bis(2-Chloroisopropyl) ether	ND	9.8	1.4
4-Methylphenol	ND	9.8	1.7
N-Nitroso-di-n-propylamine	ND	9.8	1.2
Hexachloroethane	ND	9.8	1.1
Nitrobenzene	ND	9.8	1.2
Isophorone	ND	9.8	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	9.8	2.4
Benzoic acid	ND	49	15
bis(2-Chloroethoxy)methane	ND	9.8	1.1
2,4-Dichlorophenol	ND	9.8	2.1
1,2,4-Trichlorobenzene	ND	9.8	2.2
Naphthalene	ND	9.8	1.9
4-Chloroaniline	ND	9.8	2.0
Hexachlorobutadiene	ND	9.8	2.3
4-Chloro-3-methylphenol	ND	9.8	1.0
2-Methylnaphthalene	ND	9.8	1.8
Hexachlorocyclopentadiene	ND	20	0.66
2,4,6-Trichlorophenol	ND	9.8	0.90
2,4,5-Trichlorophenol	ND	9.8	0.83
2-Chloronaphthalene	ND	9.8	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	9.8	2.0
Acenaphthylene	ND	9.8	1.7
2,6-Dinitrotoluene	ND	9.8	1.7
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	9.8	1.8
2,4-Dinitrophenol	ND	20	2.5
4-Nitrophenol	ND	20	1.7
Dibenzofuran	ND	9.8	1.8
2,4-Dinitrotoluene	ND	9.8	2.0
Diethylphthalate	ND	9.8	1.0
Fluorene	ND	9.8	1.7
4-Chlorophenyl-phenylether	ND	9.8	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	9.8	1.6
Azobenzene	ND	9.8	1.1
4-Bromophenyl-phenylether	ND	9.8	2.0
Hexachlorobenzene	ND	9.8	1.9
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	9.8	1.9
Anthracene	ND	9.8	1.8

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-4A-GW	Batch#:	221532
Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	9.8	1.2
Fluoranthene	ND	9.8	1.9
Pyrene	ND	9.8	1.6
Butylbenzylphthalate	ND	9.8	0.99
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	9.8	1.6
Chrysene	ND	9.8	1.7
bis(2-Ethylhexyl)phthalate	4.7 J	9.8	1.8
Di-n-octylphthalate	ND	9.8	1.8
Benzo(b)fluoranthene	ND	9.8	1.7
Benzo(k)fluoranthene	ND	9.8	1.9
Benzo(a)pyrene	ND	9.8	1.5
Indeno(1,2,3-cd)pyrene	ND	9.8	1.8
Dibenz(a,h)anthracene	ND	9.8	1.7
Benzo(g,h,i)perylene	ND	9.8	1.8

Surrogate	%REC	Limits
2-Fluorophenol	72	38-120
Phenol-d5	81	38-120
2,4,6-Tribromophenol	76	46-120
Nitrobenzene-d5	77	51-120
2-Fluorobiphenyl	67	54-120
Terphenyl-d14	76	21-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC781493	Batch#:	221532
Matrix:	Water	Prepared:	03/20/15
Units:	ug/L	Analyzed:	03/23/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	1.5
Phenol	ND	10	1.0
bis(2-Chloroethyl)ether	ND	10	1.2
2-Chlorophenol	ND	10	0.82
1,3-Dichlorobenzene	ND	10	1.0
1,4-Dichlorobenzene	ND	10	1.1
Benzyl alcohol	ND	10	1.1
1,2-Dichlorobenzene	ND	10	2.1
2-Methylphenol	ND	10	2.2
bis(2-Chloroisopropyl) ether	ND	10	1.4
4-Methylphenol	ND	10	1.7
N-Nitroso-di-n-propylamine	ND	10	1.2
Hexachloroethane	ND	10	1.1
Nitrobenzene	ND	10	1.2
Isophorone	ND	10	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	2.5
Benzoic acid	ND	50	16
bis(2-Chloroethoxy)methane	ND	10	1.1
2,4-Dichlorophenol	ND	10	2.1
1,2,4-Trichlorobenzene	ND	10	2.2
Naphthalene	ND	10	1.9
4-Chloroaniline	ND	10	2.1
Hexachlorobutadiene	ND	10	2.4
4-Chloro-3-methylphenol	ND	10	1.0
2-Methylnaphthalene	ND	10	1.8
Hexachlorocyclopentadiene	ND	20	0.68
2,4,6-Trichlorophenol	ND	10	0.92
2,4,5-Trichlorophenol	ND	10	0.85
2-Chloronaphthalene	ND	10	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	10	2.0
Acenaphthylene	ND	10	1.7
2,6-Dinitrotoluene	ND	10	1.8
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	10	1.8
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.8
Dibenzofuran	ND	10	1.9
2,4-Dinitrotoluene	ND	10	2.1
Diethylphthalate	ND	10	1.0
Fluorene	ND	10	1.8
4-Chlorophenyl-phenylether	ND	10	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	10	1.7
Azobenzene	ND	10	1.2
4-Bromophenyl-phenylether	ND	10	2.0
Hexachlorobenzene	ND	10	2.0
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	10	1.9
Anthracene	ND	10	1.8
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC781493	Batch#:	221532
Matrix:	Water	Prepared:	03/20/15
Units:	ug/L	Analyzed:	03/23/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.9
Pyrene	ND	10	1.7
Butylbenzylphthalate	ND	10	1.0
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	10	1.6
Chrysene	ND	10	1.7
bis(2-Ethylhexyl)phthalate	ND	10	1.8
Di-n-octylphthalate	ND	10	1.8
Benzo(b)fluoranthene	ND	10	1.7
Benzo(k)fluoranthene	ND	10	2.0
Benzo(a)pyrene	ND	10	1.6
Indeno(1,2,3-cd)pyrene	ND	10	1.8
Dibenz(a,h)anthracene	ND	10	1.8
Benzo(g,h,i)perylene	ND	10	1.9

Surrogate	%REC	Limits
2-Fluorophenol	91	38-120
Phenol-d5	101	38-120
2,4,6-Tribromophenol	87	46-120
Nitrobenzene-d5	95	51-120
2-Fluorobiphenyl	86	54-120
Terphenyl-d14	94	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC781494	Batch#:	221532
Matrix:	Water	Prepared:	03/20/15
Units:	ug/L	Analyzed:	03/23/15

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	73.05	91	46-120
2-Chlorophenol	80.00	67.94	85	48-120
1,4-Dichlorobenzene	80.00	53.20	66	52-120
N-Nitroso-di-n-propylamine	80.00	73.71	92	46-120
1,2,4-Trichlorobenzene	80.00	52.13	65	53-120
4-Chloro-3-methylphenol	80.00	59.12	74	40-120
Acenaphthene	30.00	22.94	76	61-120
4-Nitrophenol	80.00	89.79	112	40-120
2,4-Dinitrotoluene	80.00	75.87	95	64-120
Pentachlorophenol	80.00	68.48	86	47-120
Pyrene	30.00	23.99	80	62-120

Surrogate	%REC	Limits
2-Fluorophenol	79	38-120
Phenol-d5	91	38-120
2,4,6-Tribromophenol	100	46-120
Nitrobenzene-d5	84	51-120
2-Fluorobiphenyl	77	54-120
Terphenyl-d14	84	21-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	MW-4A-GW	Batch#:	221532
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15

Type: MS Lab ID: QC781495

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed
Phenol	<0.9974	78.43	99.55	127 *	55-120	2.000	03/24/15
2-Chlorophenol	<0.8015	78.43	72.59	93	57-120	1.000	03/23/15
1,4-Dichlorobenzene	<1.034	78.43	67.30	86	51-120	1.000	03/23/15
N-Nitroso-di-n-propylamine	<1.178	78.43	76.11	97	57-120	1.000	03/23/15
1,2,4-Trichlorobenzene	<2.198	78.43	64.58	82	62-120	1.000	03/23/15
4-Chloro-3-methylphenol	<1.027	78.43	58.65	75	62-120	1.000	03/23/15
Acenaphthene	<1.754	29.41	23.68	81	55-120	1.000	03/23/15
4-Nitrophenol	<1.740	78.43	87.51	112	61-120	1.000	03/23/15
2,4-Dinitrotoluene	<2.045	78.43	75.34	96	58-120	1.000	03/23/15
Pentachlorophenol	<1.890	78.43	69.24	88	56-122	1.000	03/23/15
Pyrene	<1.621	29.41	24.11	82	63-120	1.000	03/23/15

Surrogate	%REC	Limits	Diln Fac	Analyzed
2-Fluorophenol	84	38-120	1.000	03/23/15
Phenol-d5	97	38-120	1.000	03/23/15
2,4,6-Tribromophenol	97	46-120	1.000	03/23/15
Nitrobenzene-d5	88	51-120	1.000	03/23/15
2-Fluorobiphenyl	79	54-120	1.000	03/23/15
Terphenyl-d14	68	21-120	1.000	03/23/15

Type: MSD Lab ID: QC781496

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Phenol	78.43	98.24	125 *	55-120	1	31	2.000	03/24/15
2-Chlorophenol	78.43	67.06	85	57-120	8	31	1.000	03/23/15
1,4-Dichlorobenzene	78.43	61.03	78	51-120	10	45	1.000	03/23/15
N-Nitroso-di-n-propylamine	78.43	74.10	94	57-120	3	28	1.000	03/23/15
1,2,4-Trichlorobenzene	78.43	60.23	77	62-120	7	29	1.000	03/23/15
4-Chloro-3-methylphenol	78.43	57.78	74	62-120	1	28	1.000	03/23/15
Acenaphthene	29.41	23.43	80	55-120	1	35	1.000	03/23/15
4-Nitrophenol	78.43	88.52	113	61-120	1	55	1.000	03/23/15
2,4-Dinitrotoluene	78.43	74.05	94	58-120	2	43	1.000	03/23/15
Pentachlorophenol	78.43	69.41	88	56-122	0	58	1.000	03/23/15
Pyrene	29.41	24.34	83	63-120	1	29	1.000	03/23/15

Surrogate	%REC	Limits	Diln Fac	Analyzed
2-Fluorophenol	76	38-120	1.000	03/23/15
Phenol-d5	89	38-120	1.000	03/23/15
2,4,6-Tribromophenol	95	46-120	1.000	03/23/15
Nitrobenzene-d5	81	51-120	1.000	03/23/15
2-Fluorobiphenyl	76	54-120	1.000	03/23/15
Terphenyl-d14	66	21-120	1.000	03/23/15

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	221501
Units:	ug/L	Sampled:	03/19/15
Diln Fac:	1.000	Received:	03/19/15

Field ID: MW-5B-GW
Type: SAMPLE
Lab ID: 265405-001

Prepared: 03/20/15
Analyzed: 03/23/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	80	39-120
Decachlorobiphenyl	81	28-120

Field ID: MW-5A-GW
Type: SAMPLE
Lab ID: 265405-002

Prepared: 03/20/15
Analyzed: 03/23/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.49	0.16
Aroclor-1221	ND	0.98	0.32
Aroclor-1232	ND	0.49	0.14
Aroclor-1242	ND	0.49	0.16
Aroclor-1248	ND	0.49	0.16
Aroclor-1254	ND	0.49	0.15
Aroclor-1260	ND	0.49	0.13

Surrogate	%REC	Limits
TCMX	79	39-120
Decachlorobiphenyl	82	28-120

Field ID: MW-4B-GW
Type: SAMPLE
Lab ID: 265405-003

Prepared: 03/20/15
Analyzed: 03/23/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.17
Aroclor-1221	ND	1.0	0.34
Aroclor-1232	ND	0.50	0.15
Aroclor-1242	ND	0.50	0.17
Aroclor-1248	ND	0.50	0.17
Aroclor-1254	ND	0.50	0.17
Aroclor-1260	ND	0.50	0.14

Surrogate	%REC	Limits
TCMX	75	39-120
Decachlorobiphenyl	85	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Water	Batch#:	221501
Units:	ug/L	Sampled:	03/19/15
Diln Fac:	1.000	Received:	03/19/15

Field ID:	DUP-GW-031915	Prepared:	03/20/15
Type:	SAMPLE	Analyzed:	03/23/15
Lab ID:	265405-004		

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.17
Aroclor-1221	ND	1.0	0.34
Aroclor-1232	ND	0.50	0.15
Aroclor-1242	ND	0.50	0.17
Aroclor-1248	ND	0.50	0.17
Aroclor-1254	ND	0.50	0.17
Aroclor-1260	ND	0.50	0.14

Surrogate	%REC	Limits
TCMX	78	39-120
Decachlorobiphenyl	90	28-120

Field ID:	MW-4A-GW	Prepared:	03/20/15
Type:	SAMPLE	Analyzed:	03/23/15
Lab ID:	265405-006		

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.17
Aroclor-1221	ND	1.0	0.34
Aroclor-1232	ND	0.50	0.15
Aroclor-1242	ND	0.50	0.17
Aroclor-1248	ND	0.50	0.17
Aroclor-1254	ND	0.50	0.17
Aroclor-1260	ND	0.50	0.14

Surrogate	%REC	Limits
TCMX	80	39-120
Decachlorobiphenyl	104	28-120

Type:	BLANK	Prepared:	03/19/15
Lab ID:	QC781381	Analyzed:	03/20/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	0.50	0.16
Aroclor-1221	ND	1.0	0.32
Aroclor-1232	ND	0.50	0.14
Aroclor-1242	ND	0.50	0.16
Aroclor-1248	ND	0.50	0.16
Aroclor-1254	ND	0.50	0.16
Aroclor-1260	ND	0.50	0.13

Surrogate	%REC	Limits
TCMX	71	39-120
Decachlorobiphenyl	93	28-120

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8082
Field ID:	MW-4A-GW	Batch#:	221501
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Water	Received:	03/19/15
Units:	ug/L	Prepared:	03/20/15
Diln Fac:	1.000	Analyzed:	03/23/15

Type: MS Lab ID: QC781487

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<0.1715	4.808	4.400	92	52-137
Aroclor-1260	<0.1430	4.808	4.436	92	50-145

Surrogate	%REC	Limits
TCMX	82	39-120
Decachlorobiphenyl	86	28-120

Type: MSD Lab ID: QC781488

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	5.192	104	52-137	13	39
Aroclor-1260	5.000	4.991	100	50-145	8	50

Surrogate	%REC	Limits
TCMX	88	39-120
Decachlorobiphenyl	90	28-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-5B-GW	Diln Fac:	1.000
Lab ID:	265405-001	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Barium	58	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	221644	03/25/15	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	221644	03/25/15	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	221644	03/25/15	03/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	221644	03/25/15	03/25/15	EPA 6010B
Copper	0.70 J	5.0	0.67	221644	03/25/15	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	221644	03/25/15	03/25/15	EPA 6010B
Mercury	ND	0.20	0.021	221562	03/23/15	03/23/15	EPA 7470A
Molybdenum	7.7	5.0	0.55	221644	03/25/15	03/25/15	EPA 6010B
Nickel	ND	5.0	0.75	221644	03/25/15	03/25/15	EPA 6010B
Selenium	9.7 J	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Silver	ND	5.0	1.1	221644	03/25/15	03/25/15	EPA 6010B
Thallium	ND	10	2.0	221644	03/25/15	03/26/15	EPA 6010B
Vanadium	6.6	5.0	0.72	221644	03/25/15	03/25/15	EPA 6010B
Zinc	6.0 J	20	2.8	221644	03/25/15	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-5A-GW	Diln Fac:	1.000
Lab ID:	265405-002	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Arsenic	1.6 J	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Barium	12	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	221644	03/25/15	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	221644	03/25/15	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	221644	03/25/15	03/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	221644	03/25/15	03/25/15	EPA 6010B
Copper	1.3 J	5.0	0.67	221644	03/25/15	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	221644	03/25/15	03/25/15	EPA 6010B
Mercury	ND	0.20	0.021	221562	03/23/15	03/23/15	EPA 7470A
Molybdenum	2.2 J	5.0	0.55	221644	03/25/15	03/25/15	EPA 6010B
Nickel	1.5 J	5.0	0.75	221644	03/25/15	03/25/15	EPA 6010B
Selenium	6.1 J	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Silver	ND	5.0	1.1	221644	03/25/15	03/25/15	EPA 6010B
Thallium	ND	10	2.0	221644	03/25/15	03/26/15	EPA 6010B
Vanadium	6.0	5.0	0.72	221644	03/25/15	03/25/15	EPA 6010B
Zinc	6.0 J	20	2.8	221644	03/25/15	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-4B-GW	Diln Fac:	1.000
Lab ID:	265405-003	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Barium	110	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	221644	03/25/15	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	221644	03/25/15	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	221644	03/25/15	03/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	221644	03/25/15	03/25/15	EPA 6010B
Copper	ND	5.0	0.67	221644	03/25/15	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	221644	03/25/15	03/25/15	EPA 6010B
Mercury	ND	0.20	0.021	221562	03/23/15	03/23/15	EPA 7470A
Molybdenum	4.6 J	5.0	0.55	221644	03/25/15	03/25/15	EPA 6010B
Nickel	0.84 J	5.0	0.75	221644	03/25/15	03/25/15	EPA 6010B
Selenium	8.3 J	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Silver	ND	5.0	1.1	221644	03/25/15	03/25/15	EPA 6010B
Thallium	ND	10	2.0	221644	03/25/15	03/26/15	EPA 6010B
Vanadium	6.2	5.0	0.72	221644	03/25/15	03/25/15	EPA 6010B
Zinc	6.3 J	20	2.8	221644	03/25/15	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	DUP-GW-031915	Diln Fac:	1.000
Lab ID:	265405-004	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15
Units:	ug/L		

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Arsenic	3.0 J	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Barium	12	5.0	1.0	221644	03/25/15	03/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	221644	03/25/15	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	221644	03/25/15	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	221644	03/25/15	03/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	221644	03/25/15	03/25/15	EPA 6010B
Copper	ND	5.0	0.67	221644	03/25/15	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	221644	03/25/15	03/25/15	EPA 6010B
Mercury	0.029 J	0.20	0.021	221562	03/23/15	03/23/15	EPA 7470A
Molybdenum	2.1 J	5.0	0.55	221644	03/25/15	03/25/15	EPA 6010B
Nickel	ND	5.0	0.75	221644	03/25/15	03/25/15	EPA 6010B
Selenium	9.1 J	10	2.3	221644	03/25/15	03/25/15	EPA 6010B
Silver	1.1 J	5.0	1.1	221644	03/25/15	03/25/15	EPA 6010B
Thallium	ND	10	2.0	221644	03/25/15	03/26/15	EPA 6010B
Vanadium	6.0	5.0	0.72	221644	03/25/15	03/25/15	EPA 6010B
Zinc	4.3 J	20	2.8	221644	03/25/15	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-4A-GW	Units:	ug/L
Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	2.3	1.000	221644	03/25/15	03/25/15	EPA 6010B
Arsenic	ND	5.0	1.0	1.000	221644	03/25/15	03/25/15	EPA 6010B
Barium	210	5.0	1.0	1.000	221644	03/25/15	03/25/15	EPA 6010B
Beryllium	0.39 J	2.0	0.15	1.000	221644	03/25/15	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	1.000	221644	03/25/15	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	1.000	221644	03/25/15	03/25/15	EPA 6010B
Cobalt	5.9	5.0	0.89	1.000	221644	03/25/15	03/25/15	EPA 6010B
Copper	4.0 J	5.0	0.67	1.000	221644	03/25/15	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	1.000	221644	03/25/15	03/25/15	EPA 6010B
Mercury	0.029 J	0.20	0.021	1.000	221562	03/23/15	03/23/15	EPA 7470A
Molybdenum	6.0	5.0	0.55	1.000	221644	03/25/15	03/25/15	EPA 6010B
Nickel	76	5.0	0.75	1.000	221644	03/25/15	03/25/15	EPA 6010B
Selenium	30	10	2.3	1.000	221644	03/25/15	03/25/15	EPA 6010B
Silver	3.9 J	5.0	1.1	1.000	221644	03/25/15	03/25/15	EPA 6010B
Thallium	0.054 J	1.0	0.020	5.000	221644	03/25/15	03/26/15	EPA 6020
Vanadium	4.9 J	5.0	0.72	1.000	221644	03/25/15	03/25/15	EPA 6010B
Zinc	11 J	20	2.8	1.000	221644	03/25/15	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221562
Lab ID:	QC781624	Prepared:	03/23/15
Matrix:	Filtrate	Analyzed:	03/23/15
Units:	ug/L		

Result	RL	MDL
ND	0.20	0.021

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	221562
Matrix:	Water	Prepared:	03/23/15
Units:	ug/L	Analyzed:	03/23/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC781625	2.500	2.500	100	80-120		
BSD	QC781626	2.500	2.586	103	80-120	3	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	221562
Field ID:	MW-4A-GW	Sampled:	03/19/15
MSS Lab ID:	265405-006	Received:	03/19/15
Matrix:	Filtrate	Prepared:	03/23/15
Units:	ug/L	Analyzed:	03/23/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC781627	0.02886	2.500	2.741	109	60-130		
MSD	QC781628		2.500	2.835	112	60-130	3	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Type:	BLANK	Units:	ug/L
Lab ID:	QC781936	Batch#:	221644
Matrix:	Filtrate	Prepared:	03/25/15

Analyte	Result	RL	MDL	Diln Fac	Analyzed	Analysis
Antimony	ND	10	2.3	1.000	03/25/15	EPA 6010B
Arsenic	1.2 J	5.0	1.0	1.000	03/25/15	EPA 6010B
Barium	ND	5.0	1.0	1.000	03/25/15	EPA 6010B
Beryllium	ND	2.0	0.15	1.000	03/25/15	EPA 6010B
Cadmium	ND	5.0	0.28	1.000	03/25/15	EPA 6010B
Chromium	ND	5.0	0.60	1.000	03/25/15	EPA 6010B
Cobalt	ND	5.0	0.89	1.000	03/25/15	EPA 6010B
Copper	ND	5.0	0.67	1.000	03/25/15	EPA 6010B
Lead	ND	5.0	1.3	1.000	03/25/15	EPA 6010B
Molybdenum	ND	5.0	0.55	1.000	03/25/15	EPA 6010B
Nickel	ND	5.0	0.75	1.000	03/25/15	EPA 6010B
Selenium	ND	10	2.3	1.000	03/25/15	EPA 6010B
Silver	ND	5.0	1.1	1.000	03/25/15	EPA 6010B
Thallium	ND	10	2.8	1.000	03/25/15	EPA 6010B
Thallium	ND	1.0	0.020	5.000	03/26/15	EPA 6020
Vanadium	ND	5.0	0.72	1.000	03/25/15	EPA 6010B
Zinc	7.0 J	20	2.8	1.000	03/25/15	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Matrix:	Filtrate	Batch#:	221644
Units:	ug/L	Prepared:	03/25/15

Type: BS Lab ID: QC781937

Analyte	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Antimony	100.0	90.83	91	79-120	1.000	03/25/15	EPA 6010B
Arsenic	100.0	102.9	103	80-120	1.000	03/25/15	EPA 6010B
Barium	100.0	98.63	99	80-120	1.000	03/25/15	EPA 6010B
Beryllium	100.0	95.55	96	80-120	1.000	03/25/15	EPA 6010B
Cadmium	100.0	105.2	105	80-120	1.000	03/25/15	EPA 6010B
Chromium	100.0	98.37	98	80-120	1.000	03/25/15	EPA 6010B
Cobalt	100.0	97.13	97	80-120	1.000	03/25/15	EPA 6010B
Copper	100.0	95.04	95	80-120	1.000	03/25/15	EPA 6010B
Lead	100.0	92.50	93	80-120	1.000	03/25/15	EPA 6010B
Molybdenum	100.0	92.98	93	80-120	1.000	03/25/15	EPA 6010B
Nickel	100.0	97.21	97	80-120	1.000	03/25/15	EPA 6010B
Selenium	100.0	101.2	101	80-120	1.000	03/25/15	EPA 6010B
Silver	100.0	100.1	100	77-120	1.000	03/25/15	EPA 6010B
Thallium	50.00	50.55	101	80-121	1.000	03/25/15	EPA 6010B
Thallium	50.00	47.93	96	80-120	5.000	03/26/15	EPA 6020
Vanadium	100.0	97.91	98	80-120	1.000	03/25/15	EPA 6010B
Zinc	100.0	100.8	101	80-120	1.000	03/25/15	EPA 6010B

Type: BSD Lab ID: QC781938

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Antimony	100.0	91.64	92	79-120	1	20	1.000	03/25/15	EPA 6010B
Arsenic	100.0	103.8	104	80-120	1	20	1.000	03/25/15	EPA 6010B
Barium	100.0	100.1	100	80-120	1	20	1.000	03/25/15	EPA 6010B
Beryllium	100.0	97.30	97	80-120	2	20	1.000	03/25/15	EPA 6010B
Cadmium	100.0	105.9	106	80-120	1	20	1.000	03/25/15	EPA 6010B
Chromium	100.0	99.86	100	80-120	2	20	1.000	03/25/15	EPA 6010B
Cobalt	100.0	99.12	99	80-120	2	20	1.000	03/25/15	EPA 6010B
Copper	100.0	97.40	97	80-120	2	20	1.000	03/25/15	EPA 6010B
Lead	100.0	94.85	95	80-120	3	20	1.000	03/25/15	EPA 6010B
Molybdenum	100.0	94.92	95	80-120	2	20	1.000	03/25/15	EPA 6010B
Nickel	100.0	98.45	98	80-120	1	20	1.000	03/25/15	EPA 6010B
Selenium	100.0	106.2	106	80-120	5	20	1.000	03/25/15	EPA 6010B
Silver	100.0	102.2	102	77-120	2	20	1.000	03/25/15	EPA 6010B
Thallium	50.00	51.09	102	80-121	1	20	1.000	03/25/15	EPA 6010B
Thallium	50.00	50.90	102	80-120	6	20	5.000	03/26/15	EPA 6020
Vanadium	100.0	99.57	100	80-120	2	20	1.000	03/25/15	EPA 6010B
Zinc	100.0	103.2	103	80-120	2	20	1.000	03/25/15	EPA 6010B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374		
Field ID:	MW-4A-GW	Batch#:	221644
MSS Lab ID:	265405-006	Sampled:	03/19/15
Matrix:	Filtrate	Received:	03/19/15
Units:	ug/L	Prepared:	03/25/15

Type: MS Lab ID: QC781939

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed	Analysis
Antimony	<2.348	100.0	92.27	92	74-120	1.000	03/25/15	EPA 6010B
Arsenic	<1.028	100.0	109.4	109	80-127	1.000	03/25/15	EPA 6010B
Barium	205.6	100.0	294.8	89	80-120	1.000	03/25/15	EPA 6010B
Beryllium	0.3857	100.0	93.30	93	80-120	1.000	03/25/15	EPA 6010B
Cadmium	<0.2822	100.0	92.28	92	80-120	1.000	03/25/15	EPA 6010B
Chromium	<0.6000	100.0	95.72	96	80-120	1.000	03/25/15	EPA 6010B
Cobalt	5.857	100.0	95.33	89	80-120	1.000	03/25/15	EPA 6010B
Copper	4.016	100.0	110.1	106	80-120	1.000	03/25/15	EPA 6010B
Lead	<1.306	100.0	65.05	65 *	67-120	1.000	03/25/15	EPA 6010B
Molybdenum	6.046	100.0	97.10	91	80-120	1.000	03/25/15	EPA 6010B
Nickel	76.12	100.0	160.9	85	80-120	1.000	03/25/15	EPA 6010B
Selenium	29.65	100.0	136.0	106	73-132	1.000	03/25/15	EPA 6010B
Silver	3.921	100.0	120.3	116	67-120	1.000	03/25/15	EPA 6010B
Thallium	7.483	50.00	54.61	94	76-121	1.000	03/25/15	EPA 6010B
Thallium	0.05350	50.00	55.15	110	80-120	5.000	03/26/15	EPA 6020
Vanadium	4.897	100.0	105.5	101	80-120	1.000	03/25/15	EPA 6010B
Zinc	11.15	100.0	102.1	91	80-122	1.000	03/25/15	EPA 6010B

Type: MSD Lab ID: QC781940

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed	Analysis
Antimony	100.0	91.42	91	74-120	1	24	1.000	03/25/15	EPA 6010B
Arsenic	100.0	109.8	110	80-127	0	25	1.000	03/25/15	EPA 6010B
Barium	100.0	297.2	92	80-120	1	20	1.000	03/25/15	EPA 6010B
Beryllium	100.0	96.28	96	80-120	3	20	1.000	03/25/15	EPA 6010B
Cadmium	100.0	92.04	92	80-120	0	20	1.000	03/25/15	EPA 6010B
Chromium	100.0	97.10	97	80-120	1	20	1.000	03/25/15	EPA 6010B
Cobalt	100.0	96.42	91	80-120	1	20	1.000	03/25/15	EPA 6010B
Copper	100.0	111.1	107	80-120	1	20	1.000	03/25/15	EPA 6010B
Lead	100.0	65.45	65 *	67-120	1	23	1.000	03/25/15	EPA 6010B
Molybdenum	100.0	96.94	91	80-120	0	20	1.000	03/25/15	EPA 6010B
Nickel	100.0	162.4	86	80-120	1	20	1.000	03/25/15	EPA 6010B
Selenium	100.0	136.6	107	73-132	0	30	1.000	03/25/15	EPA 6010B
Silver	100.0	121.9	118	67-120	1	22	1.000	03/25/15	EPA 6010B
Thallium	50.00	52.57	90	76-121	4	20	1.000	03/25/15	EPA 6010B
Thallium	50.00	53.70	107	80-120	3	20	5.000	03/26/15	EPA 6020
Vanadium	100.0	106.5	102	80-120	1	20	1.000	03/25/15	EPA 6010B
Zinc	100.0	101.4	90	80-122	1	20	1.000	03/25/15	EPA 6010B

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Matrix:	Water	Batch#:	221498
Units:	mg/L	Received:	03/19/15

Field ID	Type	Lab ID	Result	RL	Sampled	Analyzed
MW-5B-GW	SAMPLE	265405-001	ND	0.01	03/19/15 11:40	03/19/15 16:48
MW-5A-GW	SAMPLE	265405-002	ND	0.01	03/19/15 13:02	03/19/15 16:48
MW-4B-GW	SAMPLE	265405-003	ND	0.01	03/19/15 14:45	03/19/15 16:48
DUP-GW-031915	SAMPLE	265405-004	ND	0.01	03/19/15	03/19/15 16:48
MW-4A-GW	SAMPLE	265405-006	ND	0.01	03/19/15	03/19/15 19:05
	BLANK	QC781372	ND	0.01		03/19/15 16:48

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Hexavalent Chromium

Lab #:	265405	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	221498
Matrix:	Water	Sampled:	03/19/15
Units:	mg/L	Received:	03/19/15
Diln Fac:	1.000		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
	LCS		QC781373		1.000	0.9300	93	90-110			03/19/15 16:48
DUP-GW-031915	MS	265405-004	QC781374	<0.01000	1.000	0.9560	95	85-115			03/19/15 16:48
DUP-GW-031915	MSD	265405-004	QC781375		1.000	0.9500	95	85-115	1	23	03/19/15 16:48
MW-4A-GW	MS	265405-006	QC781392	<0.01000	1.000	0.9310	93	85-115			03/19/15 19:05
MW-4A-GW	MSD	265405-006	QC781393		1.000	0.9400	94	85-115	1	23	03/19/15 19:05

RPD= Relative Percent Difference

APPENDIX H

LABORATORY ANALYTICAL REPORTS FOR ARCHIVED SAMPLES

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1501277 A

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: John Mark Pendleton
Project P.O.: #74293
Project Name: #338315; Allied Engineering

Project Received: 01/12/2015

Analytical Report reviewed & approved for release on 02/05/2015 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

ACCREDITED IN ACCORDANCE WITH nelac

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #338315; Allied Engineering
WorkOrder: 1501277

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

H	samples were analyzed out of holding time
S	spike recovery outside accepted recovery limits
a2	sample diluted due to cluttered chromatogram
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW3060A
Date Received:	1/12/15 18:19	**Analytical Method:**	SW7199
Date Prepared:	2/4/15	**Unit:**	mg/Kg

TTLC Hexachrome by Alkaline Digestion and IC-UV Analysis

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-1-S	**1501277-001A**	**Soil/TOTAL**	**01/12/2015 08:50**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**290**	4.0	1	02/04/2015 22:48

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-2-S	**1501277-004A**	**Soil/TOTAL**	**01/12/2015 09:40**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**420**	4.0	1	02/04/2015 23:06

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-4-1	**1501277-010A**	**Soil/TOTAL**	**01/12/2015 10:15**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	4.0	1	02/04/2015 23:24

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-5-1	**1501277-013A**	**Soil/TOTAL**	**01/12/2015 10:45**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**5.6**	4.0	1	02/04/2015 23:42

Analyst(s): AE

(Cont.)

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"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW3060A
Date Received:	1/12/15 18:19	**Analytical Method:**	SW7199
Date Prepared:	2/4/15	**Unit:**	mg/Kg

TTLC Hexachrome by Alkaline Digestion and IC-UV Analysis

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-S	**1501277-016A**	**Soil/TOTAL**	**01/12/2015 11:40**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**60**	4.0	1	02/05/2015 00:37

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-1	**1501277-017A**	**Soil/TOTAL**	**01/12/2015 11:50**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**51**	4.0	1	02/05/2015 00:56

Analyst(s): AE

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW3550B
Date Received:	1/12/15 18:19	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-1-S	**1501277-001A**	**Soil**	**01/12/2015 08:50**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.25	5	02/02/2015 21:37
Aroclor1221	ND	H	0.25	5	02/02/2015 21:37
Aroclor1232	ND	H	0.25	5	02/02/2015 21:37
Aroclor1242	ND	H	0.25	5	02/02/2015 21:37
Aroclor1248	ND	H	0.25	5	02/02/2015 21:37
Aroclor1254	**1.4**	H	0.25	5	02/02/2015 21:37
Aroclor1260	**0.52**	H	0.25	5	02/02/2015 21:37
PCBs, total	**1.92**	H	0.25	5	02/02/2015 21:37

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c1,h4	
Decachlorobiphenyl	170	SH	70-130		02/02/2015 21:37

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-2-S	**1501277-004A**	**Soil**	**01/12/2015 09:40**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.25	5	02/02/2015 22:15
Aroclor1221	ND	H	0.25	5	02/02/2015 22:15
Aroclor1232	ND	H	0.25	5	02/02/2015 22:15
Aroclor1242	ND	H	0.25	5	02/02/2015 22:15
Aroclor1248	ND	H	0.25	5	02/02/2015 22:15
Aroclor1254	**1.8**	H	0.25	5	02/02/2015 22:15
Aroclor1260	**0.63**	H	0.25	5	02/02/2015 22:15
PCBs, total	**2.43**	H	0.25	5	02/02/2015 22:15

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: h4	
Decachlorobiphenyl	125	H	70-130		02/02/2015 22:15

Analyst(s): SS

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW3550B
Date Received:	1/12/15 18:19	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-4-1	**1501277-010A**	**Soil**	**01/12/2015 10:15**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.25	5	02/02/2015 22:53
Aroclor1221	ND	H	0.25	5	02/02/2015 22:53
Aroclor1232	ND	H	0.25	5	02/02/2015 22:53
Aroclor1242	ND	H	0.25	5	02/02/2015 22:53
Aroclor1248	ND	H	0.25	5	02/02/2015 22:53
Aroclor1254	ND	H	0.25	5	02/02/2015 22:53
Aroclor1260	ND	H	0.25	5	02/02/2015 22:53
PCBs, total	ND	H	0.25	5	02/02/2015 22:53

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a2,h4	
Decachlorobiphenyl	95	H	70-130		02/02/2015 22:53

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-5-1	**1501277-013A**	**Soil**	**01/12/2015 10:45**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.25	5	02/02/2015 23:31
Aroclor1221	ND	H	0.25	5	02/02/2015 23:31
Aroclor1232	ND	H	0.25	5	02/02/2015 23:31
Aroclor1242	ND	H	0.25	5	02/02/2015 23:31
Aroclor1248	ND	H	0.25	5	02/02/2015 23:31
Aroclor1254	ND	H	0.25	5	02/02/2015 23:31
Aroclor1260	ND	H	0.25	5	02/02/2015 23:31
PCBs, total	ND	H	0.25	5	02/02/2015 23:31

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a2,h4	
Decachlorobiphenyl	118	H	70-130		02/02/2015 23:31

Analyst(s): SS

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW3550B
Date Received:	1/12/15 18:19	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-S	**1501277-016A**	**Soil**	**01/12/2015 11:40**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.10	2	02/03/2015 00:09
Aroclor1221	ND	H	0.10	2	02/03/2015 00:09
Aroclor1232	ND	H	0.10	2	02/03/2015 00:09
Aroclor1242	ND	H	0.10	2	02/03/2015 00:09
Aroclor1248	ND	H	0.10	2	02/03/2015 00:09
Aroclor1254	ND	H	0.10	2	02/03/2015 00:09
Aroclor1260	**0.27**	H	0.10	2	02/03/2015 00:09
PCBs, total	**0.27**	H	0.10	2	02/03/2015 00:09

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: h4	
Decachlorobiphenyl	104	H	70-130		02/03/2015 00:09

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-1	**1501277-017A**	**Soil**	**01/12/2015 11:50**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.050	1	02/03/2015 00:47
Aroclor1221	ND	H	0.050	1	02/03/2015 00:47
Aroclor1232	ND	H	0.050	1	02/03/2015 00:47
Aroclor1242	ND	H	0.050	1	02/03/2015 00:47
Aroclor1248	ND	H	0.050	1	02/03/2015 00:47
Aroclor1254	ND	H	0.050	1	02/03/2015 00:47
Aroclor1260	**0.19**	H	0.050	1	02/03/2015 00:47
PCBs, total	**0.19**	H	0.050	1	02/03/2015 00:47

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: h4	
Decachlorobiphenyl	110	H	70-130		02/03/2015 00:47

Analyst(s): SS

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	CA Title 22
Date Received:	1/12/15 18:19	**Analytical Method:**	SW6020
Date Prepared:	1/31/15	**Unit:**	mg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-1-S	**1501277-001A**	**Soil/WET**	**01/12/2015 08:50**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1100**	10	100	02/03/2015 13:35
Nickel	**2.7**	0.10	1	02/02/2015 22:10

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-2-S	**1501277-004A**	**Soil/WET**	**01/12/2015 09:40**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Lead	**1800**	10	100	02/03/2015 13:42
Nickel	**1.2**	0.10	1	02/02/2015 22:17
Zinc	**70**	1.0	1	02/02/2015 22:17

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-5-1	**1501277-013A**	**Soil/WET**	**01/12/2015 10:45**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Lead	**15**	0.10	1	02/03/2015 13:48
Nickel	**5.5**	0.10	1	02/03/2015 13:48

Analyst(s): DB

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	CA Title 22
Date Received:	1/12/15 18:19	**Analytical Method:**	SW6020
Date Prepared:	1/31/15	**Unit:**	mg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-S	**1501277-016A**	**Soil/WET**	**01/12/2015 11:40**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Lead	**350**	1.0	10	02/03/2015 13:54
Nickel	**5.6**	0.10	1	02/02/2015 22:29

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-1	**1501277-017A**	**Soil/WET**	**01/12/2015 11:50**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Lead	**96**	1.0	10	02/03/2015 14:00
Nickel	**5.7**	0.10	1	02/02/2015 22:35

Analyst(s): DB

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	CA Title 22
Date Received:	1/12/15 18:19	**Analytical Method:**	SW6010B
Date Prepared:	1/31/15	**Unit:**	mg/L

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-4-1	**1501277-010A**	**Soil/WET**	**01/12/2015 10:15**	**ICP-JY**	**100540**

Analytes	Result	RL	DF	Date Analyzed
Lead	**65**	0.20	1	02/02/2015 12:07

Analyst(s): DB

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW1311/SW3010
Date Received:	1/12/15 18:19	**Analytical Method:**	SW6010B
Date Prepared:	1/29/15	**Unit:**	mg/L

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-1-S	**1501277-001A**	**Soil/TCLP**	**01/12/2015 08:50**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**130**	0.20	1	02/03/2015 17:13

Analyst(s): AG

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-2-S	**1501277-004A**	**Soil/TCLP**	**01/12/2015 09:40**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**140**	0.20	1	02/03/2015 17:16

Analyst(s): AG

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-4-1	**1501277-010A**	**Soil/TCLP**	**01/12/2015 10:15**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**0.56**	0.20	1	02/03/2015 17:18

Analyst(s): AG

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-5-1	**1501277-013A**	**Soil/TCLP**	**01/12/2015 10:45**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**0.40**	0.20	1	02/03/2015 17:21

Analyst(s): AG

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Project:	#338315; Allied Engineering	**Extraction Method:**	SW1311/SW3010
Date Received:	1/12/15 18:19	**Analytical Method:**	SW6010B
Date Prepared:	1/29/15	**Unit:**	mg/L

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-S	**1501277-016A**	**Soil/TCLP**	**01/12/2015 11:40**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**35**	0.20	1	02/03/2015 17:23

Analyst(s): AG

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SS-7-1	**1501277-017A**	**Soil/TCLP**	**01/12/2015 11:50**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Lead	**0.61**	0.20	1	02/03/2015 17:31

Analyst(s): AG

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Date Prepared:	2/4/15	**BatchID:**	100776
Date Analyzed:	2/4/15	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#338315; Allied Engineering	**Sample ID:**	MB/LCS-100776 1501277-013AMS/MSD

QC Summary Report for SW7199 (Hexachrome)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	189	4.0	200	-	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	206	204	200	5.600	100	99	70-130	1.07	20

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Date Prepared:	1/29/15	**BatchID:**	100549
Date Analyzed:	1/30/15	**Extraction Method:**	SW3550B
Instrument:	GC5A	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	#338315; Allied Engineering	**Sample ID:**	MB/LCS-100549 1501885-003AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.163	0.050	0.15	-	109	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0485	0.0487		0.050	97	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.190	0.182	0.15	ND	110	104	70-130	4.36	30
Surrogate Recovery									
Decachlorobiphenyl	0.0521	0.0484	0.050		104	97	70-130	7.26	30

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Date Prepared:	1/28/15	**BatchID:**	100519
Date Analyzed:	1/31/15 - 2/2/15	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315; Allied Engineering	**Sample ID:**	MB/LCS-100519 1412A84-009AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	9.92	0.10	10	-	99	75-125
Nickel	0.131	10.0	0.10	10	-	99	75-125
Zinc	ND	103	1.0	100	-	103	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	10.5	11.2	10	1.6	88	95	75-125	6.64	20
Nickel	9.11	9.57	10	0.25	89	93	75-125	4.86	20
Zinc	290	301	100	211.0	79	90	75-125	3.72	20

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Date Prepared:	1/29/15	**BatchID:**	100540
Date Analyzed:	2/2/15	**Extraction Method:**	CA Title 22
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315; Allied Engineering	**Sample ID:**	MB/LCS-100540 1501290-003AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	0.947	0.20	1	-	95	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	NR	NR	1	2.695	NR	NR	70-130	NR	30

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501277
Date Prepared:	1/29/15	**BatchID:**	100539
Date Analyzed:	1/30/15	**Extraction Method:**	SW1311/SW3010
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315; Allied Engineering	**Sample ID:**	MB/LCS-100539 1501290-001AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	0.860	0.20	1	-	86	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	0.880	0.956	1	ND	88	96	70-130	8.24	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1501277 A **ClientCode: AEL**

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Report to:
John Mark Pendleton
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jpendleton@aeiconsultants.com
cc/3rd Party:
PO: #74293
ProjectNo: #338315; Allied Engineering

Bill to:
Accounts Payable
Integral Consulting, Inc.
115 Sansome Street; Suite 200
San Francisco, CA 94104

Requested TAT: 1 day
Date Received: 01/12/2015
Date Add-On: 01/29/2015
Date Printed: 02/05/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1501277-001	SS-1-S	Soil	1/12/2015 8:50	☐	A	A		A	A							
1501277-004	SS-2-S	Soil	1/12/2015 9:40	☐	A	A		A	A							
1501277-010	SS-4-1	Soil	1/12/2015 10:15	☐	A	A	A		A							
1501277-013	SS-5-1	Soil	1/12/2015 10:45	☐	A	A		A	A							
1501277-016	SS-7-S	Soil	1/12/2015 11:40	☐	A	A		A	A							
1501277-017	SS-7-1	Soil	1/12/2015 11:50	☐	A	A		A	A							

Test Legend:

1	7199-TTLC_S	2	8082_PCB_S	3	STLC_PB_S	4	STLCMETALMS_S	5	TCLP_PB_S
6		7		8		9		10	
11		12							

Prepared by: Agustina Venegas

Add-On Prepared By: Jena Alfaro

Comments: STLC and TCLPs , PCBs and CR6 added 1/29/15 5D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS
Project: #338315; Allied Engineering
Comments: STLC and TCLPs , PCBs and CR6 added 1/29/15 5D TAT

QC Level: LEVEL 2
Client Contact: John Mark Pendleton
Contact's Email: jpendleton@aeiconsultants.com

Work Order: 1501277
Date Received: 1/12/2015
Date Add-On: 1/29/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501277-001A	SS-1-S	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 8:50	5 days*		☐	
			SW6020 (Metals) (STLC) <Lead, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501277-004A	SS-2-S	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 9:40	5 days*		☐	
			SW6020 (Metals) (STLC) <Lead, Nickel, Zinc>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501277-010A	SS-4-1	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 10:15	5 days*		☐	
			SW6010B (Lead) (STLC)				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501277-013A	SS-5-1	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 10:45	5 days*		☐	
			SW6020 (Metals) (STLC) <Lead, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501277-016A	SS-7-S	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 11:40	5 days*		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name:	AEI CONSULTANTS	**QC Level:**	LEVEL 2	**Work Order:**	1501277
Project:	#338315; Allied Engineering	**Client Contact:**	John Mark Pendleton	**Date Received:**	1/12/2015
Comments:	STLC and TCLPs , PCBs and CR6 added 1/29/15 5D TAT	**Contact's Email:**	jpendleton@aeiconsultants.com	**Date Add-On:**	1/29/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501277-016A	SS-7-S	Soil	SW6020 (Metals) (STLC) <Lead, Nickel>	1	Stainless Tube	1/12/2015 11:40	5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501277-017A	SS-7-1	Soil	SW6010B (Lead) (TCLP)	1	Stainless Tube	1/12/2015 11:50	5 days*		☐	
			SW6020 (Metals) (STLC) <Lead, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1501477

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RUSH CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ■ 2 DAY ☐ 3 DAY ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐; **Claim #**_____

Report To: John Mark Pendleton **Bill To:** same

Company: AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597 **E-Mail:** jpendleton@aeiconsultants.com

Tele: (925) 262-7582 **Fax:** (925) 746-6099

Project #: 338315 **Project Name:** Allied Engineering

Project Location: 2421 Blanding Ave, Alameda, CA **Purchase Order#** 74293

Sampler Signature:

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX Ground Water	MATRIX Waste Water	MATRIX Drinking Water	MATRIX Sea Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	CAM 17 Metals	Hold	STLC Pb	TCLP Pb	STLC Ni	STLC Zn	PCBs	Cr+6	
															Fee			1/29/15 5D						
SS-1-S		1-12	8:50	1					X						X	X		X	X	X		X	X	X
SS-1-1		"	9:10													X								
SS-1-2		"	9:20														X							
SS-2-S		"	9:40													X		X	X	X	X	X	X	X
SS-2-1		"	9:45													X								
SS-2-2		"	9:50														X							
SS-3-S		"	12:30													X								
SS-3-1		"	12:35													X								
SS-4-S		"	10:07													X								
SS-4-1		"	10:15													X		X	X			X	X	X
SS-4-2		"	10:20														X							

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
John Pendleton	1-12-15	1530	Agustina V.

ICE/t° 9.4
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION____ pH<2____

COMMENTS:

McCampbell Analytical, Inc. RUSH CHAIN OF CUSTODY RECORD

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TURN AROUND TIME: RUSH ☐ 1 DAY ■ 2 DAY ☐ 3 DAY ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ **; Claim #**_____

Report To: John Mark Pendleton **Bill To:** same

Company: AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597 **E-Mail:** jpendleton@aeiconsultants.com

Tele: (925) 262-7582 **Fax:** (925) 746-6099

Project #: 338315 **Project Name:** Allied Engineering

Project Location: 2421 Blanding Ave, Alameda, CA **Purchase Order#** 74293

Sampler Signature:

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX Ground Water	MATRIX Waste Water	MATRIX Drinking Water	MATRIX Sea Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other (Ice)	CAM 17 Metals	Hold	STLC Pb 1/29/15	TCLP Pb 5D	STLC Ni	PCB's	Cr+6
SS-5-S		1-12	10:40	1					X						X	X						
SS-5-1		"	10:43													X		X	X	X	X	X
SS-5-2		"	10:50														X					
SS-6-S		"	11:10													X						
SS-7-S		"	11:40													X		X	X	X	X	X
SS-7-1		"	11:50													X		X	X	X	X	X
SS-7-2		"	12:00														X					

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
John Pendleton	1-12-15	1530	Agustina V.

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

PRESERVATION_____ VOAS O&G METALS OTHER pH<2_____ HAZARDOUS:

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1501290 A

Report Created for: AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Trent Weise
Project P.O.: #74293
Project Name: #338315

Project Received: 01/12/2015

Analytical Report reviewed & approved for release on 02/05/2015 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

ACCREDITED IN ACCORDANCE WITH nelac

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Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: #338315
WorkOrder: 1501290

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

H	samples were analyzed out of holding time
a1	sample diluted due to matrix interference
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
h4	sulfuric acid permanganate (EPA 3665) cleanup
i1	results are reported on a dry weight basis
j1	see attached narrative

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW3060A
Date Received:	1/12/15 21:17	**Analytical Method:**	SW7199
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

TTLC Hexachrome by Alkaline Digestion and IC-UV Analysis

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0001	**1501290-001A**	**Sludge/TOTAL**	**01/12/2015 12:22**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	7.3	1	02/05/2015 01:51

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0003	**1501290-003A**	**Sludge/TOTAL**	**01/12/2015 13:35**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	7.2	1	02/05/2015 02:09

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0005	**1501290-005A**	**Sludge/TOTAL**	**01/12/2015 14:50**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	6.8	1	02/05/2015 02:27

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0007	**1501290-007A**	**Sludge/TOTAL**	**01/12/2015 16:00**	**IC2**	**100776**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	6.3	1	02/05/2015 02:45

Analytical Comments: i1

Analyst(s): AE

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW3550B
Date Received:	1/12/15 21:17	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0001	**1501290-001A**	**Sludge**	**01/12/2015 12:22**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.25	5	02/02/2015 19:05
Aroclor1221	ND	H	0.25	5	02/02/2015 19:05
Aroclor1232	ND	H	0.25	5	02/02/2015 19:05
Aroclor1242	ND	H	0.25	5	02/02/2015 19:05
Aroclor1248	ND	H	0.25	5	02/02/2015 19:05
Aroclor1254	ND	H	0.25	5	02/02/2015 19:05
Aroclor1260	ND	H	0.25	5	02/02/2015 19:05
PCBs, total	ND	H	0.25	5	02/02/2015 19:05

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4	
Decachlorobiphenyl	94	H	70-130		02/02/2015 19:05

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0003	**1501290-003A**	**Sludge**	**01/12/2015 13:35**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.50	10	02/02/2015 19:43
Aroclor1221	ND	H	0.50	10	02/02/2015 19:43
Aroclor1232	ND	H	0.50	10	02/02/2015 19:43
Aroclor1242	ND	H	0.50	10	02/02/2015 19:43
Aroclor1248	ND	H	0.50	10	02/02/2015 19:43
Aroclor1254	ND	H	0.50	10	02/02/2015 19:43
Aroclor1260	ND	H	0.50	10	02/02/2015 19:43
PCBs, total	ND	H	0.50	10	02/02/2015 19:43

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4	
Decachlorobiphenyl	91	H	70-130		02/02/2015 19:43

Analyst(s): SS

(Cont.)

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW3550B
Date Received:	1/12/15 21:17	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0005	**1501290-005A**	**Sludge**	**01/12/2015 14:50**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.50	10	02/02/2015 20:21
Aroclor1221	ND	H	0.50	10	02/02/2015 20:21
Aroclor1232	ND	H	0.50	10	02/02/2015 20:21
Aroclor1242	ND	H	0.50	10	02/02/2015 20:21
Aroclor1248	ND	H	0.50	10	02/02/2015 20:21
Aroclor1254	ND	H	0.50	10	02/02/2015 20:21
Aroclor1260	ND	H	0.50	10	02/02/2015 20:21
PCBs, total	ND	H	0.50	10	02/02/2015 20:21

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4	
Decachlorobiphenyl	86	H	70-130		02/02/2015 20:21

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0007	**1501290-007A**	**Sludge**	**01/12/2015 16:00**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	1.0	20	02/02/2015 20:58
Aroclor1221	ND	H	1.0	20	02/02/2015 20:58
Aroclor1232	ND	H	1.0	20	02/02/2015 20:58
Aroclor1242	ND	H	1.0	20	02/02/2015 20:58
Aroclor1248	ND	H	1.0	20	02/02/2015 20:58
Aroclor1254	ND	H	1.0	20	02/02/2015 20:58
Aroclor1260	ND	H	1.0	20	02/02/2015 20:58
PCBs, total	ND	H	1.0	20	02/02/2015 20:58

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4	
Decachlorobiphenyl	105	H	70-130		02/02/2015 20:58

Analyst(s): SS

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW3550B
Date Received:	1/12/15 21:17	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg-dry

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0001	**1501290-001A**	**Sludge**	**01/12/2015 12:22**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.45	5	02/02/2015 19:05
Aroclor1221	ND	H	0.45	5	02/02/2015 19:05
Aroclor1232	ND	H	0.45	5	02/02/2015 19:05
Aroclor1242	ND	H	0.45	5	02/02/2015 19:05
Aroclor1248	ND	H	0.45	5	02/02/2015 19:05
Aroclor1254	ND	H	0.45	5	02/02/2015 19:05
Aroclor1260	ND	H	0.45	5	02/02/2015 19:05
PCBs, total	ND	H	0.45	5	02/02/2015 19:05

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4,i1	
Decachlorobiphenyl	94	H	70-130		02/02/2015 19:05

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0003	**1501290-003A**	**Sludge**	**01/12/2015 13:35**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.91	10	02/02/2015 19:43
Aroclor1221	ND	H	0.91	10	02/02/2015 19:43
Aroclor1232	ND	H	0.91	10	02/02/2015 19:43
Aroclor1242	ND	H	0.91	10	02/02/2015 19:43
Aroclor1248	ND	H	0.91	10	02/02/2015 19:43
Aroclor1254	ND	H	0.91	10	02/02/2015 19:43
Aroclor1260	ND	H	0.91	10	02/02/2015 19:43
PCBs, total	ND	H	0.91	10	02/02/2015 19:43

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4,i1	
Decachlorobiphenyl	91	H	70-130		02/02/2015 19:43

Analyst(s): SS

(Cont.)

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW3550B
Date Received:	1/12/15 21:17	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg-dry

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0005	**1501290-005A**	**Sludge**	**01/12/2015 14:50**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	0.85	10	02/02/2015 20:21
Aroclor1221	ND	H	0.85	10	02/02/2015 20:21
Aroclor1232	ND	H	0.85	10	02/02/2015 20:21
Aroclor1242	ND	H	0.85	10	02/02/2015 20:21
Aroclor1248	ND	H	0.85	10	02/02/2015 20:21
Aroclor1254	ND	H	0.85	10	02/02/2015 20:21
Aroclor1260	ND	H	0.85	10	02/02/2015 20:21
PCBs, total	ND	H	0.85	10	02/02/2015 20:21

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4,i1	
Decachlorobiphenyl	86	H	70-130		02/02/2015 20:21

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0007	**1501290-007A**	**Sludge**	**01/12/2015 16:00**	**GC23**	**100549**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aroclor1016	ND	H	1.6	20	02/02/2015 20:58
Aroclor1221	ND	H	1.6	20	02/02/2015 20:58
Aroclor1232	ND	H	1.6	20	02/02/2015 20:58
Aroclor1242	ND	H	1.6	20	02/02/2015 20:58
Aroclor1248	ND	H	1.6	20	02/02/2015 20:58
Aroclor1254	ND	H	1.6	20	02/02/2015 20:58
Aroclor1260	ND	H	1.6	20	02/02/2015 20:58
PCBs, total	ND	H	1.6	20	02/02/2015 20:58

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a1,h4,i1	
Decachlorobiphenyl	105	H	70-130		02/02/2015 20:58

Analyst(s): SS

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	CA Title 22
Date Received:	1/12/15 21:17	**Analytical Method:**	SW6020
Date Prepared:	1/31/15	**Unit:**	mg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0001	**1501290-001A**	**Sludge/WET**	**01/12/2015 12:22**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Chromium	**4.1**	0.10	1	02/02/2015 22:41
Nickel	**4.5**	0.10	1	02/02/2015 22:41

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0005	**1501290-005A**	**Sludge/WET**	**01/12/2015 14:50**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Chromium	**4.1**	0.10	1	02/02/2015 22:47
Copper	ND	0.10	1	02/02/2015 22:47
Lead	**0.52**	0.10	1	02/02/2015 22:47
Nickel	**2.0**	0.10	1	02/02/2015 22:47

Analyst(s): DB

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0007	**1501290-007A**	**Sludge/WET**	**01/12/2015 16:00**	**ICP-MS2**	**100519**

Analytes	Result	RL	DF	Date Analyzed
Chromium	**3.4**	0.10	1	02/02/2015 22:54
Lead	**3.4**	0.10	1	02/02/2015 22:54
Nickel	**1.3**	0.10	1	02/02/2015 22:54

Analyst(s): DB

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	CA Title 22
Date Received:	1/12/15 21:17	**Analytical Method:**	SW6010B
Date Prepared:	1/31/15	**Unit:**	mg/L

Lead & Chromium

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0003	**1501290-003A**	**Sludge/WET**	**01/12/2015 13:35**	**ICP-JY**	**100540**

Analytes	Result	RL	DF	Date Analyzed
Chromium	**1.4**	0.050	1	02/02/2015 11:57
Lead	**2.7**	0.20	1	02/02/2015 11:57

Analyst(s): DB

Angela Rydelius, Lab Manager

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW1311/SW3010
Date Received:	1/12/15 21:17	**Analytical Method:**	SW6010B
Date Prepared:	1/29/15	**Unit:**	mg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0001	**1501290-001A**	**Sludge/TCLP**	**01/12/2015 12:22**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Chromium	ND	0.050	1	01/30/2015 19:22

Analyst(s): DVH

Angela Rydelius, Lab Manager

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Project:	#338315	**Extraction Method:**	SW1311/SW3010
Date Received:	1/12/15 21:17	**Analytical Method:**	SW6010B
Date Prepared:	1/29/15	**Unit:**	mg/L

Chromium & Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0003	**1501290-003A**	**Sludge/TCLP**	**01/12/2015 13:35**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Chromium	ND	0.050	1	01/30/2015 19:29
Lead	ND	0.20	1	01/30/2015 19:29

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0005	**1501290-005A**	**Sludge/TCLP**	**01/12/2015 14:50**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Chromium	ND	0.050	1	01/30/2015 19:31
Lead	ND	0.20	1	01/30/2015 19:31

Analyst(s): DVH

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SD-0007	**1501290-007A**	**Sludge/TCLP**	**01/12/2015 16:00**	**ICP-JY**	**100539**

Analytes	Result	RL	DF	Date Analyzed
Chromium	ND	0.050	1	01/30/2015 19:34
Lead	ND	0.20	1	01/30/2015 19:34

Analyst(s): DVH

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Date Prepared:	2/4/15	**BatchID:**	100776
Date Analyzed:	2/4/15	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#338315	**Sample ID:**	MB/LCS-100776 1501277-013AMS/MSD

QC Summary Report for SW7199 (Hexachrome)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	189	4.0	200	-	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	206	204	200	5.600	100	99	70-130	1.07	20

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Date Prepared:	1/29/15	**BatchID:**	100549
Date Analyzed:	1/30/15	**Extraction Method:**	SW3550B
Instrument:	GC5A	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	#338315	**Sample ID:**	MB/LCS-100549 1501885-003AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.163	0.050	0.15	-	109	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0485	0.0487		0.050	97	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.190	0.182	0.15	ND	110	104	70-130	4.36	30
Surrogate Recovery									
Decachlorobiphenyl	0.0521	0.0484	0.050		104	97	70-130	7.26	30

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Date Prepared:	1/28/15	**BatchID:**	100519
Date Analyzed:	1/31/15 - 2/2/15	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315	**Sample ID:**	MB/LCS-100519 1412A84-009AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Chromium	ND	9.56	0.10	10	-	96	75-125
Copper	ND	9.95	0.10	10	-	99	75-125
Lead	ND	9.92	0.10	10	-	99	75-125
Nickel	0.131	10.0	0.10	10	-	99	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chromium	8.80	9.33	10	ND	88	93	75-125	5.87	20
Copper	11.9	12.5	10	3.1	88	93	75-125	4.70	20
Lead	10.5	11.2	10	1.6	88	95	75-125	6.64	20
Nickel	9.11	9.57	10	0.25	89	93	75-125	4.86	20

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Date Prepared:	1/29/15	**BatchID:**	100540
Date Analyzed:	2/2/15	**Extraction Method:**	CA Title 22
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315	**Sample ID:**	MB/LCS-100540 1501290-003AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Chromium	ND	0.968	0.050	1	-	97	75-125
Lead	ND	0.947	0.20	1	-	95	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chromium	NR	NR	1	1.400	NR	NR	70-130	NR	30
Lead	NR	NR	1	2.695	NR	NR	70-130	NR	30

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1501290
Date Prepared:	1/29/15	**BatchID:**	100539
Date Analyzed:	1/30/15	**Extraction Method:**	SW1311/SW3010
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/L
Project:	#338315	**Sample ID:**	MB/LCS-100539 1501290-001AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Chromium	ND	0.991	0.050	1	-	99	75-125
Lead	ND	0.860	0.20	1	-	86	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chromium	0.990	1.06	1	ND	99	106	70-130	6.32	30
Lead	0.880	0.956	1	ND	88	96	70-130	8.24	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1501290 A **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Trent Weise
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: tweise@aeiconsultants.com
cc/3rd Party: bdeshields@integral-corp.com
PO: #74293
ProjectNo: #338315

Bill to:
Accounts Payable
Integral Consulting, Inc.
115 Sansome Street; Suite 200
San Francisco, CA 94104

Requested TAT: 1 day
Date Received: 01/12/2015
Date Add-On: 01/29/2015
Date Printed: 02/05/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1501290-001	SD-0001	Sludge	1/12/2015 12:22	☐	A	A		A	A							
1501290-003	SD-0003	Sludge	1/12/2015 13:35	☐	A	A	A			A						
1501290-005	SD-0005	Sludge	1/12/2015 14:50	☐	A	A		A		A						
1501290-007	SD-0007	Sludge	1/12/2015 16:00	☐	A	A		A		A						

Test Legend:

1	7199-TTLC_S	2	8082_PCB_S	3	STLC_PBCR_S	4	STLCMETALMS_S	5	TCLP_METALS_S
6	TCLP_PBCR_S	7		8		9		10	
11		12							

Prepared by: Agustina Venegas

Add-On Prepared By: Jena Alfaro

Comments: STLCs and TCLPs PCBs and CR6 added 1/29/15 5D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS
Project: #338315
Comments: STLCs and TCLPs PCBs and CR6 added 1/29/15 5D TAT

QC Level: LEVEL 2
Client Contact: Trent Weise
Contact's Email: tweise@aeiconsultants.com

Work Order: 1501290
Date Received: 1/12/2015
Date Add-On: 1/29/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501290-001A	SD-0001	Sludge	SW6010B (Metals) (TCLP) <Chromium>	6 / (6:1)	8OZ g Jar + Plastic Baggie, Medium	1/12/2015 12:22	5 days*		☐	
			SW6020 (Metals) (STLC) <Chromium, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501290-003A	SD-0003	Sludge	SW6010B (Chromium & Lead) (TCLP)	6 / (6:1)	8OZ g Jar + Plastic Baggie, Medium	1/12/2015 13:35	5 days*		☐	
			SW6010B (Chromium & Lead) (STLC)				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501290-005A	SD-0005	Sludge	SW6010B (Chromium & Lead) (TCLP)	6 / (6:1)	8OZ g Jar + Plastic Baggie, Medium	1/12/2015 14:50	5 days*		☐	
			SW6020 (Metals) (STLC) <Chromium, Copper, Lead, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	
			SW7199 (Hexachrome)				5 days		☐	
1501290-007A	SD-0007	Sludge	SW6010B (Chromium & Lead) (TCLP)	6 / (6:1)	8OZ g Jar + Plastic Baggie, Medium	1/12/2015 16:00	5 days*		☐	
			SW6020 (Metals) (STLC) <Chromium, Lead, Nickel>				5 days*		☐	
			SW8082 (PCBs Only)				5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name:	AEI CONSULTANTS	**QC Level:**	LEVEL 2	**Work Order:**	1501290
Project:	#338315	**Client Contact:**	Trent Weise	**Date Received:**	1/12/2015
Comments:	STLCs and TCLPs PCBs and CR6 added 1/29/15 5D TAT	**Contact's Email:**	tweise@aeiconsultants.com	**Date Add-On:**	1/29/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501290-007A	SD-0007	Sludge	SW7199 (Hexachrome)	6 / (6:1)	8OZ g Jar + Plastic Baggie, Medium	1/12/2015 16:00	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY FORM 2421 Blanding Ave, Alameda, CA **RUSH** 1501290 Page 1 of 1

Project: Former Allied Engineering Property Sediment Sampling (C1361)

Samplers: Chris Lyles

Integral Contact: Bridgette DeShields
Office 707-775-2488 (o)
Phone 707 953-8192 (m)

Ship to: Lab Name McCampbell Analytical, Inc.
Address 1534 Willow Pass Rd.
Pittsburg, CA 94565
Contact Trent Weise
Phone 925-262-7582

integral consulting inc.

ANALYSES REQUESTED

Sample No.	Date	Time	Matrix	TPH diesel by 8015M	TPH as motor oil by 8015M	13 priority pollutant metals	Grain size (archive at room temperature)	TCLP, TOC (archive frozen)	% Moisture Cr DRY weight 1-13-15	24 hr Rush TAT	TCLP Cr, 1/29/15 SD	STLC or STLC Pb	TCLP Pb STLC Cu	Extra Container STLC Ni	PCBs, Cr+6 Archive all individual analyses for archive	Comments
SD-0001	1/12/15	1222	SD	X	X	X	X	X	X	X	X	X		X	X	5-8oz ~~jars~~ jars
SD-0002	1/12/15	1304	SD	X	X	X	X	X	X	X	X	X		X	X	
SD-0003	1/12/15	1335	SD	X	X	X	X	X	X	X	X	X	X	X	X	
SD-0004	1/12/15	1420	SD	X	X	X	X	X	X	X	X	X	X	X	X	
SD-0005	1/12/15	1450	SD	X	X	X	X	X	X	X	X	X	X	X	X	
SD-0006	1/12/15	1525	SD	X	X	X	X	X	X	X	X	X	X	X	X	
SD-0007	1/12/15	1600	SD	X	X	X	X	X	X	X	X	X	X	X	X	
SD-0008	1/12/15	1628	SD	X	X	X	X	X	X	X						
EB-0001	1/12/15	1711	AQ	X	X	X				X						2-1L amber

5:1 COMPS
Sieve #10

ICE/t° 2.5°
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____
PRESERVATION VOAS | O&G | METALS | OTHER

Analysis Turn Time: Normal Rush **Rush Results Needed By:** 24 hr TAT.

Matrix Code: GW - Groundwater; SL - Soil; SD - Sediment; SW - Surface water; Other: Aqueous (AQ)

Shipped by: **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?** n/a

Relinquished by: (signature) Integral **Date/Time:** 1/12/15; 1755 **Received by:** (signature) of Leviathan Env. **Date/Time:** 1/12/15; 1755

Relinquished by: (signature) **Date/Time:** 1/12/15 1917 **Received by:** (signature) **Date/Time:** 1/12/15 19:17

Special Instructions: * these analyses are to be archived and held until further notice.
Email results to: bdeshields@integral-corp.com and tweise@aeiconsultants.com ; Pay by AEI PO # 74293
AEI Consultants at 2500 Camino Diablo Walnut Creek, CA 94597
AEI project # 338315

APPENDIX I

LABORATORY ANALYTICAL REPORTS FOR SOIL, CONSTRUCTION RELATED SAMPLING

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265009
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Former Allied Engineering Level : II

Sample ID	Lab ID
TBL1-1SW-1.2	265009-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/05/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265009**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Former Allied Engineering**
Request Date:	**03/03/15**
Samples Received:	**03/03/15**

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 03/03/15. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 220966; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High recovery was observed for diesel C10-C24 in the MS of TBL1-1SW-1.2 (lab # 265009-001); the LCS was within limits. High RPD was also observed for diesel C10-C24 in the MS/MSD of TBL1-1SW-1.2 (lab # 265009-001). Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 220980; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Low recoveries were observed for 2,4-dinitrotoluene in the MS/MSD of TBL1-1SW-1.2 (lab # 265009-001); the LCS was within limits, and the associated RPD was within limits. TBL1-1SW-1.2 (lab # 265009-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recoveries were observed for barium in the MS/MSD for batch 220988; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. Copper and zinc were detected between the MDL and the RL in the method blank for batch 220988; these analytes were detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

Chain of Custody # _____

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
in Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 265009

Project No: C1374
Project Name: Former Allied Engineering
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☒ RUSH 24 hr. ☐ Standard

Sampler: B. Wishnoff
Report To: B. Deshields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	meoH	TPH gasoline 8015	TPH Diesel 8015	TPH Motor Oil 8015	SVOCs 8270	Title 22 metals
1	TBL1-1SW-1.2	3/3/2015	1500		X	5						1	X	X	X	X	X

Notes: Report to MDL
EDF's needed
Report in dry weight & provide % moisture
Lab to homogenize

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
Ben Wishnoff — DATE 3/3/15 TIME: 1622
[signature] — DATE 3/3/15 TIME: 1700
DATE: TIME:

RECEIVED BY:
[signature] — DATE 3/3/15 TIME: 1622
DATE: TIME:
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265009 Date Received 3/3/15 Number of coolers 1
Client Integral Project Former Allied Engineering

Date Opened 3/3 By (print) BL (sign) [illegible]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☒ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO BL
   If YES, what time were they transferred to freezer? 1715
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? _____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

10.) -001: COC listed 5 containers; received 6.

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265009

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Former Allied Engineering

Client Sample ID : TBL1-1SW-1.2 Laboratory Sample ID : 265009-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.016	J	0.14	0.0075	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	42	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	260		5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Naphthalene	79	J	150	17	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
2-Methylnaphthalene	34	J	150	14	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Acenaphthylene	92	J	150	20	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Dibenzofuran	28	J	740	23	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Fluorene	38	J	150	22	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Phenanthrene	390		150	23	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Anthracene	150	J	150	25	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Fluoranthene	630		150	23	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Pyrene	600		150	24	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	520		150	23	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Chrysene	1,200		150	25	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	51	J	740	29	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	1,000		150	20	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	350		150	21	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	500		150	20	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	300		150	20	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	80	J	150	21	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	350		150	23	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Antimony	18		0.59	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	11		0.30	0.098	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	470		0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.32		0.12	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	4.4		0.30	0.019	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	710		30	2.5	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Cobalt	20		0.30	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	210		0.31	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	7,000		30	8.6	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.54		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	5.8		0.30	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	76		0.30	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	1.3		0.59	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	38		0.30	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	1,600		120	12	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TBL1-1SW-1.2	Diln Fac:	1.000
Matrix:	Soil	Batch#:	220966
Units:	mg/Kg	Sampled:	03/03/15
Basis:	dry	Received:	03/03/15

Type:	SAMPLE	Moisture:	9%
Lab ID:	265009-001	Analyzed:	03/04/15

Analyte	Result		RL	MDL
Gasoline C7-C12	0.016	J	0.14	0.0075

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	78-138

Type:	BLANK	Analyzed:	03/03/15
Lab ID:	QC779310		

Analyte	Result		RL	MDL
Gasoline C7-C12	0.014	J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779309	Batch#:	220966
Matrix:	Soil	Analyzed:	03/03/15
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9600	96	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	78-138

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	264944-019	Batch#:	220966
Matrix:	Soil	Sampled:	02/26/15
Units:	mg/Kg	Received:	02/27/15
Basis:	as received	Analyzed:	03/03/15

Type: MS Lab ID: QC779311

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.05558	10.10	8.940	89	50-120

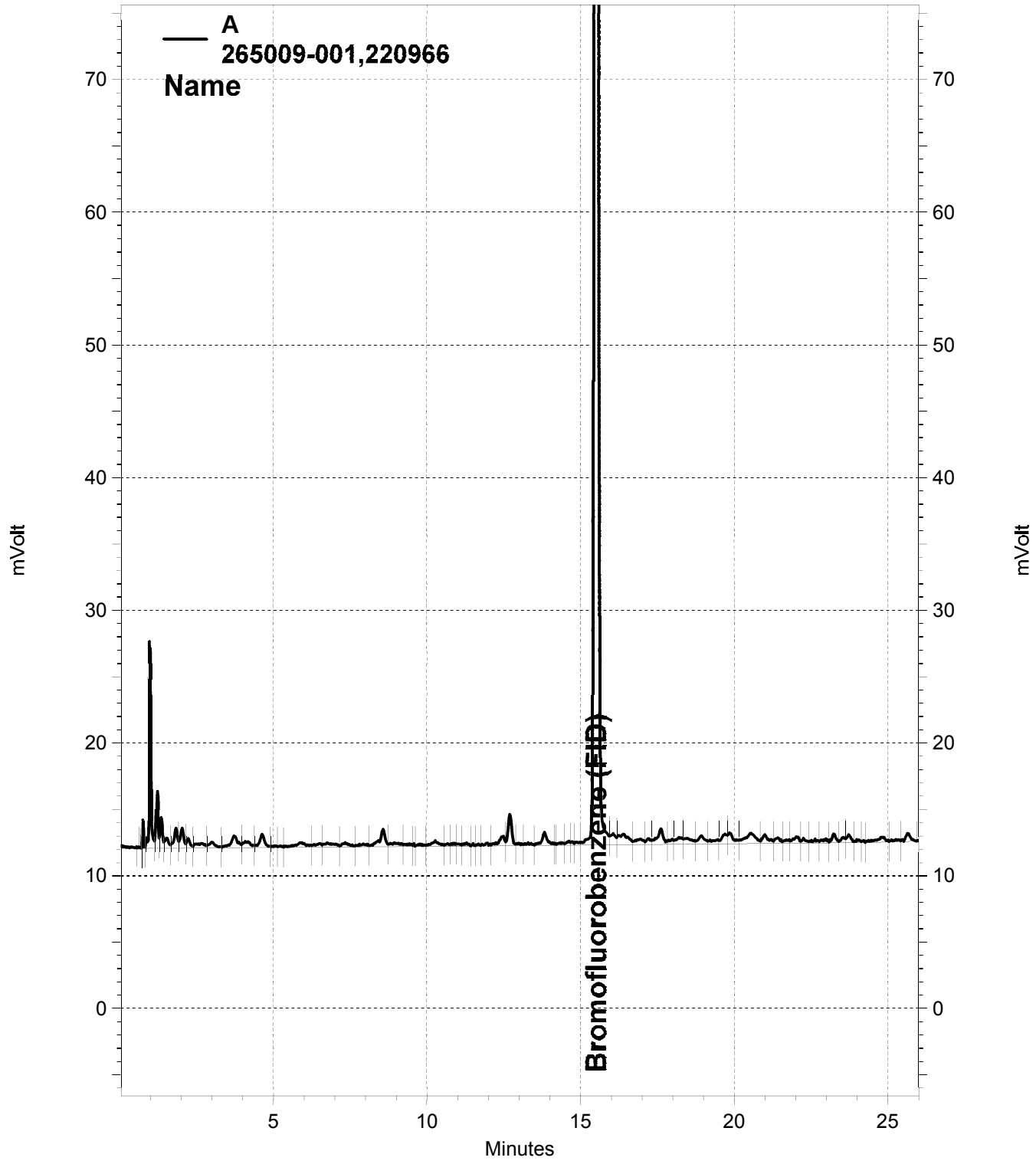
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

Type: MSD Lab ID: QC779312

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	8.312	86	50-120	3	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

RPD= Relative Percent Difference



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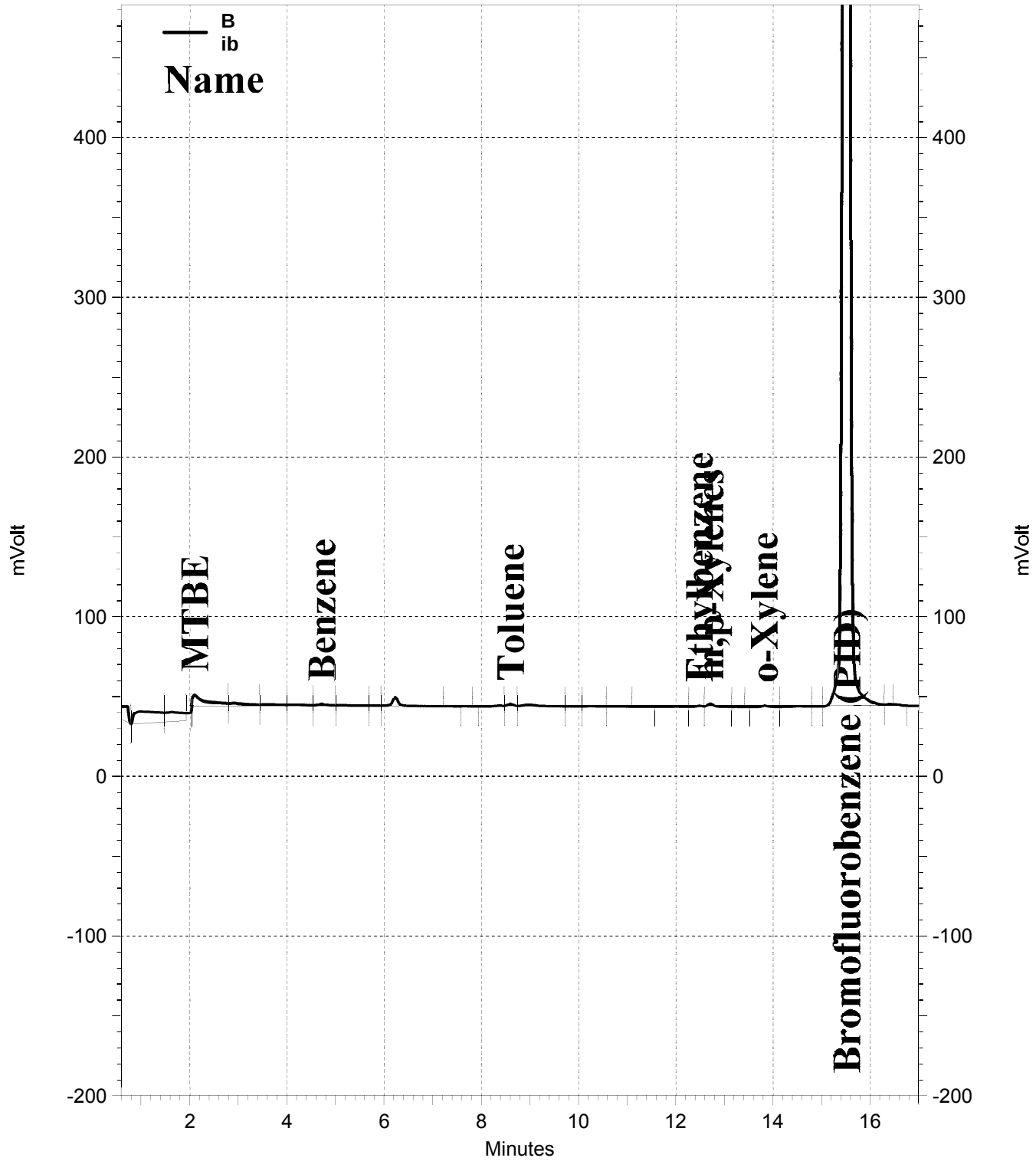

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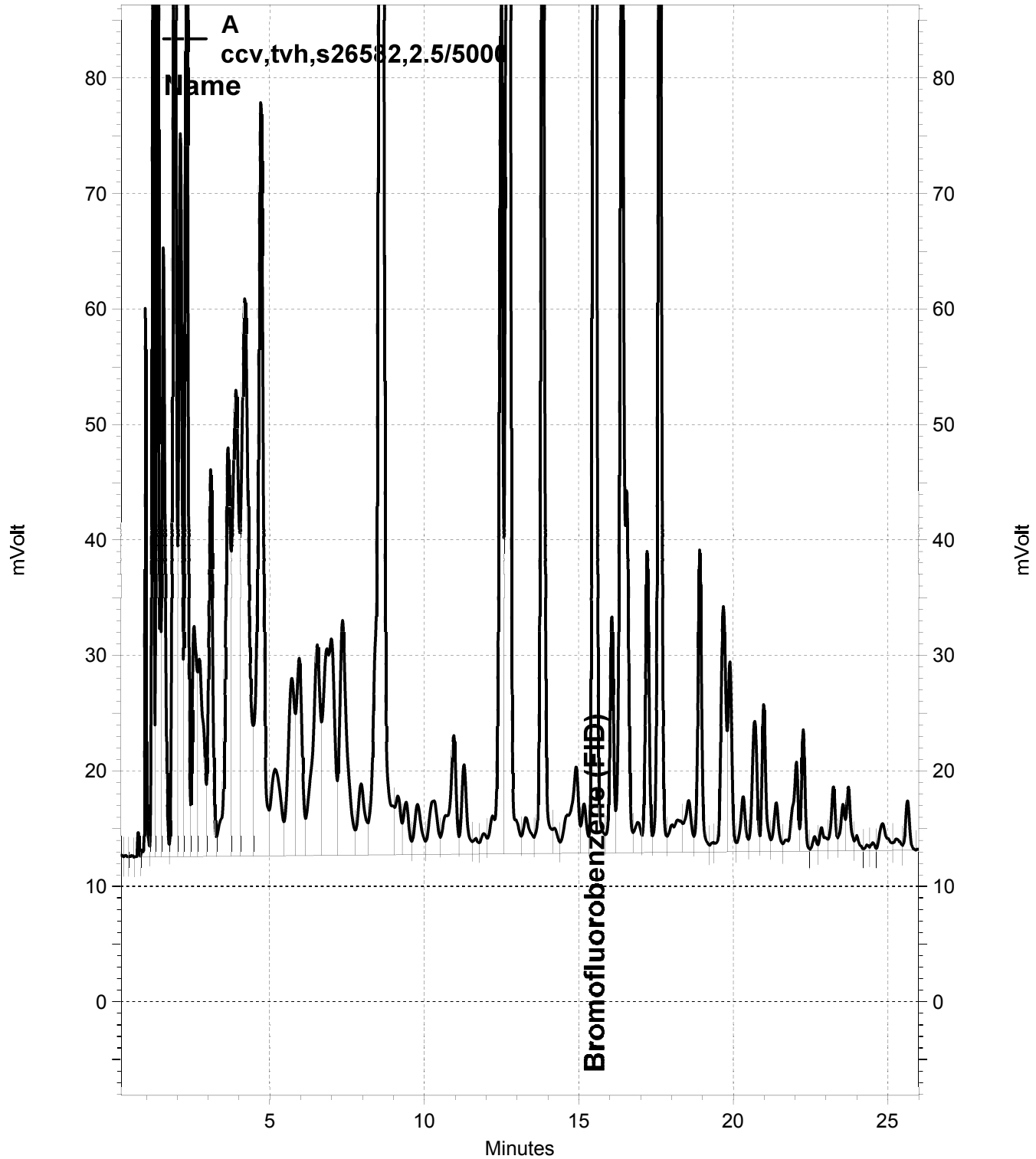

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TBL1-1SW-1.2	Batch#:	220980
Matrix:	Soil	Sampled:	03/03/15
Units:	mg/Kg	Received:	03/03/15
Basis:	dry	Prepared:	03/03/15
Diln Fac:	1.000	Analyzed:	03/04/15

Type: SAMPLE Moisture: 9%
Lab ID: 265009-001

Analyte	Result	RL	MDL
Diesel C10-C24	42 Y	1.1	0.34
Motor Oil C24-C36	260	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	115	59-140

Type: BLANK Lab ID: QC779363

Analyte	Result	RL	MDL
Diesel C10-C24	0.31 J	0.99	0.30
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779364	Batch#:	220980
Matrix:	Soil	Prepared:	03/03/15
Units:	mg/Kg	Analyzed:	03/04/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.67	46.41	93	58-137

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TBL1-1SW-1.2	Batch#:	220980
MSS Lab ID:	265009-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	mg/Kg	Prepared:	03/03/15
Basis:	dry	Analyzed:	03/04/15
Diln Fac:	1.000		

Type: MS Moisture: 9%
Lab ID: QC779365

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	41.88	54.87	159.7	215 *	46-154

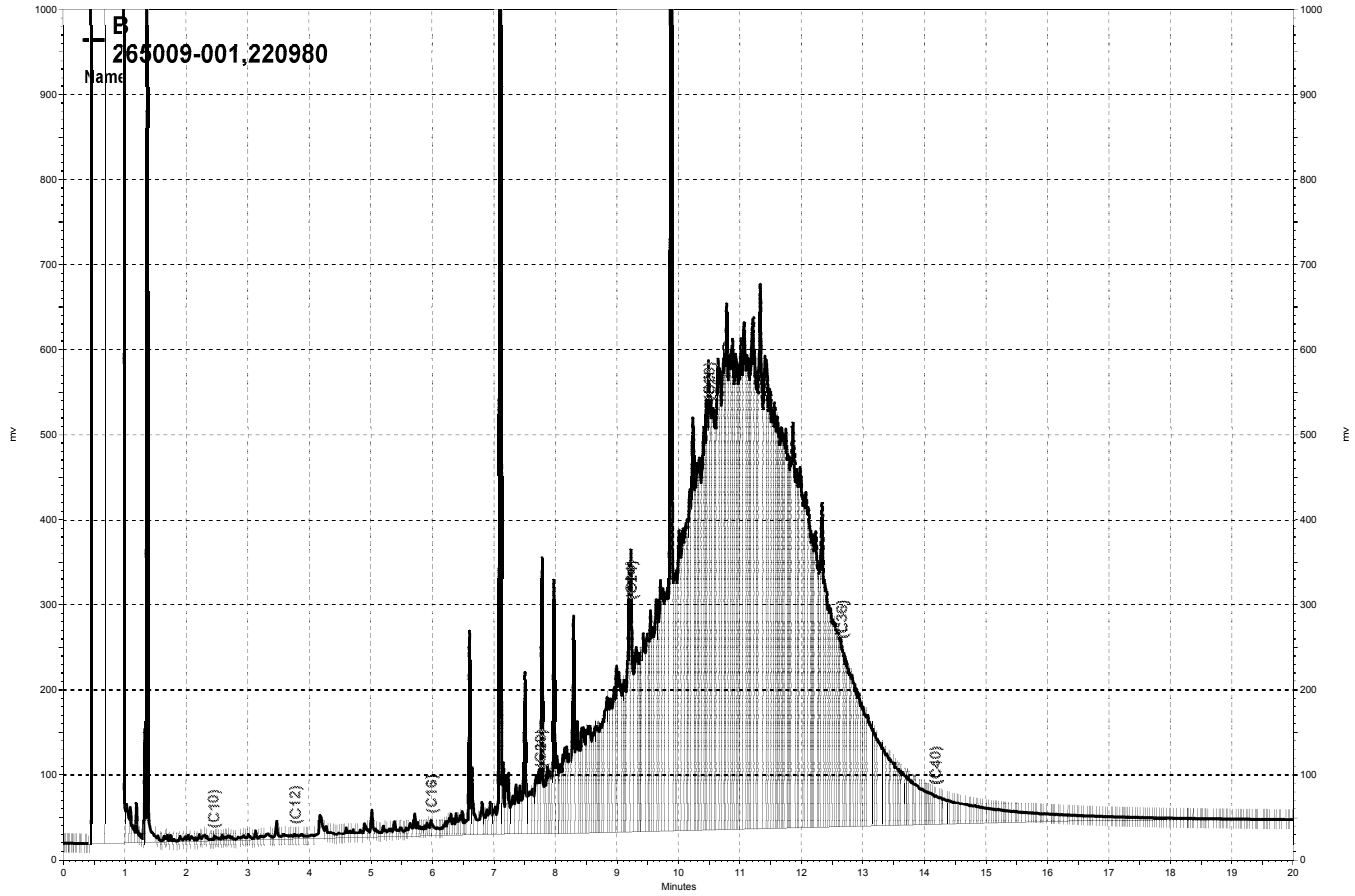
Surrogate	%REC	Limits
o-Terphenyl	123	59-140

Type: MSD Moisture: 9%
Lab ID: QC779366

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	55.09	90.74	89	46-154	55 *	50

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



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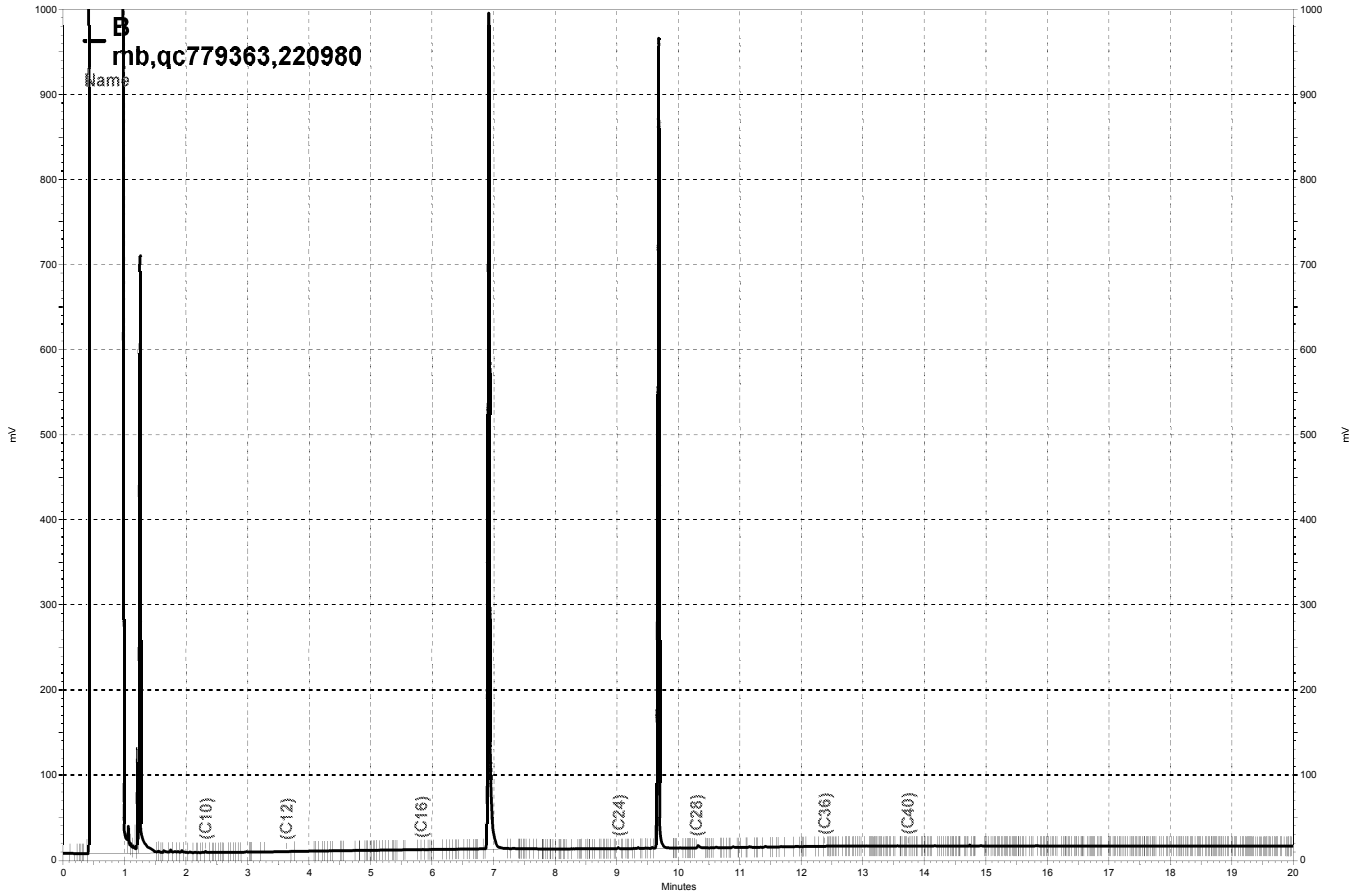

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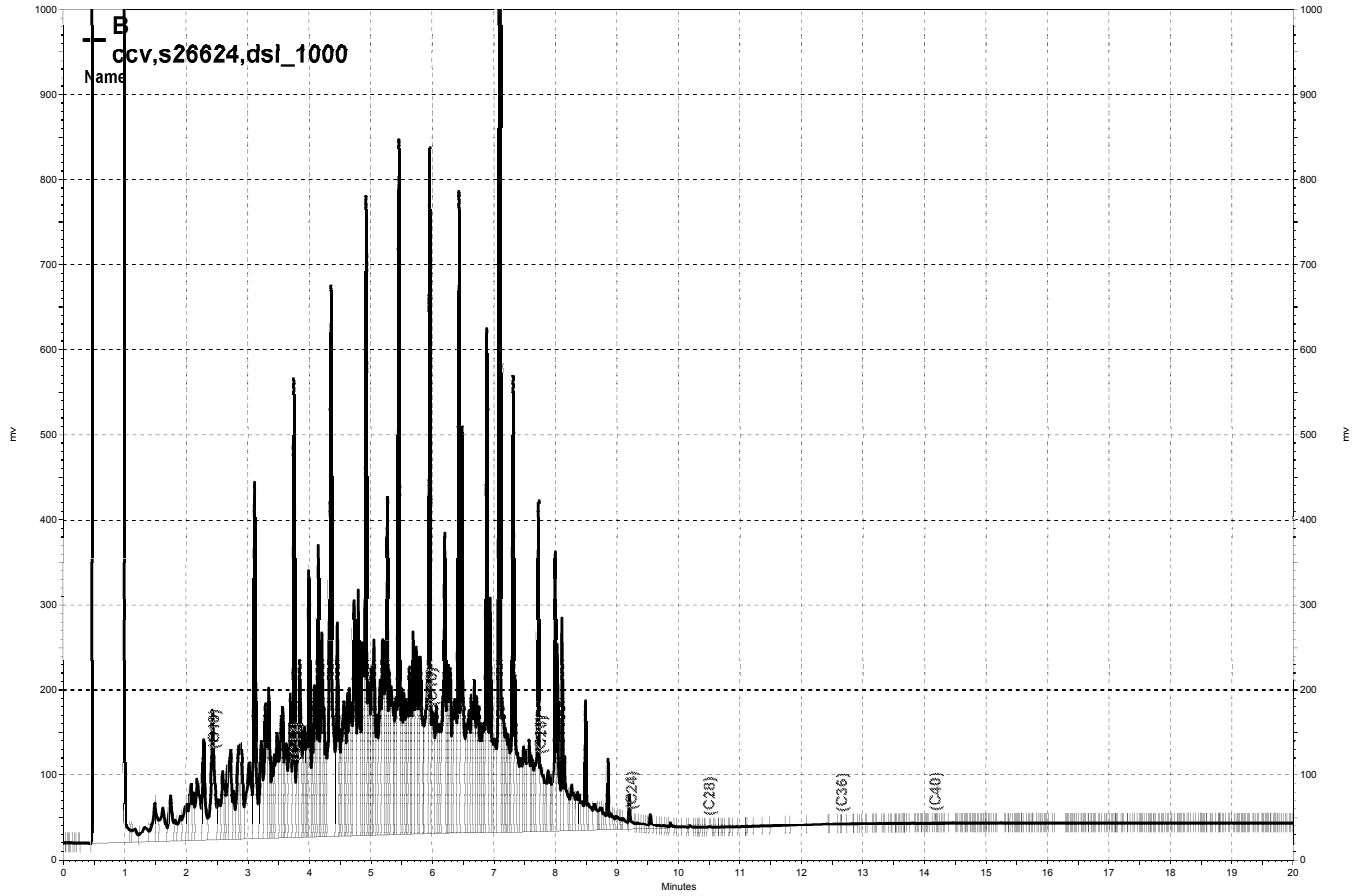

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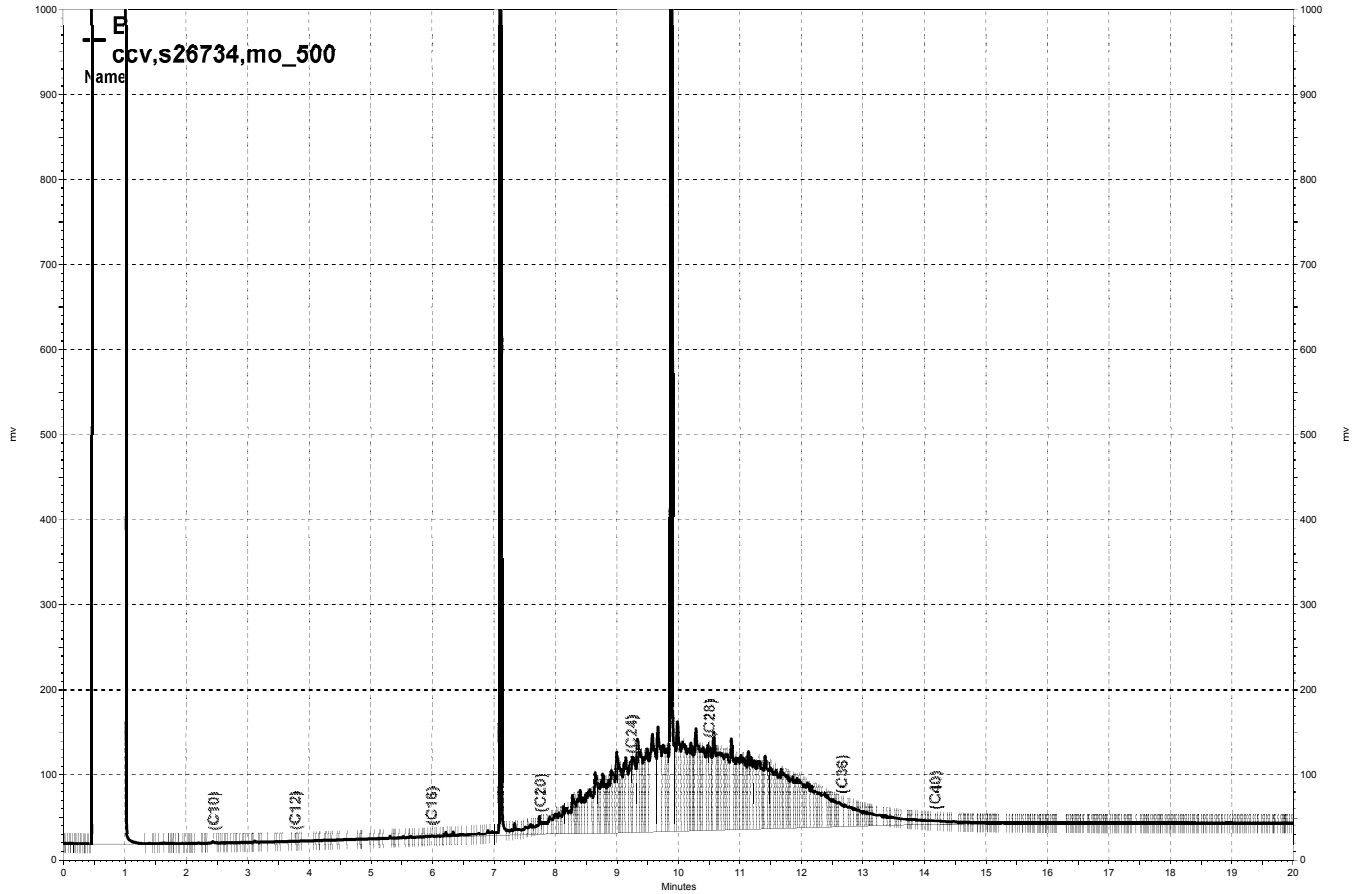

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-1SW-1.2	Batch#:	220979
Lab ID:	265009-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	ug/Kg	Prepared:	03/03/15
Basis:	dry	Analyzed:	03/04/15
Diln Fac:	2.000		

Moisture: 9%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	740	110
Phenol	ND	740	16
bis(2-Chloroethyl)ether	ND	740	130
2-Chlorophenol	ND	740	16
1,3-Dichlorobenzene	ND	740	130
1,4-Dichlorobenzene	ND	740	17
Benzyl alcohol	ND	740	24
1,2-Dichlorobenzene	ND	740	17
2-Methylphenol	ND	740	30
bis(2-Chloroisopropyl) ether	ND	740	16
4-Methylphenol	ND	740	16
N-Nitroso-di-n-propylamine	ND	740	18
Hexachloroethane	ND	740	15
Nitrobenzene	ND	740	24
Isophorone	ND	740	15
2-Nitrophenol	ND	1,500	17
2,4-Dimethylphenol	ND	740	31
Benzoic acid	ND	3,700	970
bis(2-Chloroethoxy)methane	ND	740	17
2,4-Dichlorophenol	ND	740	18
1,2,4-Trichlorobenzene	ND	740	18
Naphthalene	79 J	150	17
4-Chloroaniline	ND	740	21
Hexachlorobutadiene	ND	740	20
4-Chloro-3-methylphenol	ND	740	19
2-Methylnaphthalene	34 J	150	14
Hexachlorocyclopentadiene	ND	1,500	30
2,4,6-Trichlorophenol	ND	740	28
2,4,5-Trichlorophenol	ND	740	19
2-Chloronaphthalene	ND	740	20
2-Nitroaniline	ND	1,500	24
Dimethylphthalate	ND	740	22
Acenaphthylene	92 J	150	20
2,6-Dinitrotoluene	ND	740	20
3-Nitroaniline	ND	1,500	17
Acenaphthene	ND	150	18
2,4-Dinitrophenol	ND	1,500	140
4-Nitrophenol	ND	1,500	160
Dibenzofuran	28 J	740	23
2,4-Dinitrotoluene	ND	740	21
Diethylphthalate	ND	740	25
Fluorene	38 J	150	22
4-Chlorophenyl-phenylether	ND	740	22
4-Nitroaniline	ND	1,500	18
4,6-Dinitro-2-methylphenol	ND	1,500	170
N-Nitrosodiphenylamine	ND	740	24
Azobenzene	ND	740	19
4-Bromophenyl-phenylether	ND	740	24
Hexachlorobenzene	ND	740	24

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-1SW-1.2	Batch#:	220979
Lab ID:	265009-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	ug/Kg	Prepared:	03/03/15
Basis:	dry	Analyzed:	03/04/15
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	1,500	290
Phenanthrene	390	150	23
Anthracene	150 J	150	25
Di-n-butylphthalate	ND	740	27
Fluoranthene	630	150	23
Pyrene	600	150	24
Butylbenzylphthalate	ND	740	22
3,3'-Dichlorobenzidine	ND	1,500	15
Benzo(a)anthracene	520	150	23
Chrysene	1,200	150	25
bis(2-Ethylhexyl)phthalate	51 J	740	29
Di-n-octylphthalate	ND	740	16
Benzo(b)fluoranthene	1,000	150	20
Benzo(k)fluoranthene	350	150	21
Benzo(a)pyrene	500	150	20
Indeno(1,2,3-cd)pyrene	300	150	20
Dibenz(a,h)anthracene	80 J	150	21
Benzo(g,h,i)perylene	350	150	23

Surrogate	%REC	Limits
2-Fluorophenol	62	25-120
Phenol-d5	63	36-120
2,4,6-Tribromophenol	58	27-120
Nitrobenzene-d5	55	44-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	56	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779359	Batch#:	220979
Matrix:	Soil	Prepared:	03/03/15
Units:	ug/Kg	Analyzed:	03/04/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	47
Phenol	ND	330	7.0
bis(2-Chloroethyl)ether	ND	330	59
2-Chlorophenol	ND	330	7.3
1,3-Dichlorobenzene	ND	330	56
1,4-Dichlorobenzene	ND	330	7.7
Benzyl alcohol	ND	330	11
1,2-Dichlorobenzene	ND	330	7.6
2-Methylphenol	ND	330	14
bis(2-Chloroisopropyl) ether	ND	330	7.0
4-Methylphenol	ND	330	7.2
N-Nitroso-di-n-propylamine	ND	330	7.8
Hexachloroethane	ND	330	6.8
Nitrobenzene	ND	330	11
Isophorone	ND	330	6.7
2-Nitrophenol	ND	660	7.6
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	430
bis(2-Chloroethoxy)methane	ND	330	7.5
2,4-Dichlorophenol	ND	330	8.1
1,2,4-Trichlorobenzene	ND	330	7.9
Naphthalene	ND	66	7.7
4-Chloroaniline	ND	330	9.3
Hexachlorobutadiene	ND	330	8.8
4-Chloro-3-methylphenol	ND	330	8.3
2-Methylnaphthalene	ND	66	6.3
Hexachlorocyclopentadiene	ND	660	14
2,4,6-Trichlorophenol	ND	330	13
2,4,5-Trichlorophenol	ND	330	8.3
2-Chloronaphthalene	ND	330	8.9
2-Nitroaniline	ND	660	11
Dimethylphthalate	ND	330	10
Acenaphthylene	ND	66	8.9
2,6-Dinitrotoluene	ND	330	8.9
3-Nitroaniline	ND	660	7.5
Acenaphthene	ND	66	8.2
2,4-Dinitrophenol	ND	660	64
4-Nitrophenol	ND	660	71
Dibenzofuran	ND	330	10
2,4-Dinitrotoluene	ND	330	9.6
Diethylphthalate	ND	330	11
Fluorene	ND	66	9.8
4-Chlorophenyl-phenylether	ND	330	9.6
4-Nitroaniline	ND	660	8.0
4,6-Dinitro-2-methylphenol	ND	660	76
N-Nitrosodiphenylamine	ND	330	11
Azobenzene	ND	330	8.5
4-Bromophenyl-phenylether	ND	330	10
Hexachlorobenzene	ND	330	11
Pentachlorophenol	ND	660	130
Phenanthrene	ND	66	10
Anthracene	ND	66	11
Di-n-butylphthalate	ND	330	12

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779359	Batch#:	220979
Matrix:	Soil	Prepared:	03/03/15
Units:	ug/Kg	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Fluoranthene	ND	66	10
Pyrene	ND	66	11
Butylbenzylphthalate	ND	330	10
3,3'-Dichlorobenzidine	ND	660	6.9
Benzo(a)anthracene	ND	66	10
Chrysene	ND	66	11
bis(2-Ethylhexyl)phthalate	ND	330	13
Di-n-octylphthalate	ND	330	7.2
Benzo(b)fluoranthene	ND	66	8.9
Benzo(k)fluoranthene	ND	66	9.4
Benzo(a)pyrene	ND	66	8.7
Indeno(1,2,3-cd)pyrene	ND	66	8.8
Dibenz(a,h)anthracene	ND	66	9.3
Benzo(g,h,i)perylene	ND	66	10

Surrogate	%REC	Limits
2-Fluorophenol	79	25-120
Phenol-d5	74	36-120
2,4,6-Tribromophenol	58	27-120
Nitrobenzene-d5	67	44-120
2-Fluorobiphenyl	71	47-120
Terphenyl-d14	73	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779360	Batch#:	220979
Matrix:	Soil	Prepared:	03/03/15
Units:	ug/Kg	Analyzed:	03/04/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,647	1,870	71	42-120
2-Chlorophenol	2,647	1,881	71	45-120
1,4-Dichlorobenzene	2,647	1,958	74	48-120
N-Nitroso-di-n-propylamine	2,647	2,102	79	27-123
1,2,4-Trichlorobenzene	2,647	2,048	77	50-120
4-Chloro-3-methylphenol	2,647	2,071	78	59-120
Acenaphthene	992.7	711.6	72	53-120
4-Nitrophenol	2,647	2,180	82	47-120
2,4-Dinitrotoluene	2,647	2,039	77	55-120
Pentachlorophenol	2,647	1,598	60	32-120
Pyrene	992.7	678.1	68	52-120

Surrogate	%REC	Limits
2-Fluorophenol	70	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	63	44-120
2-Fluorobiphenyl	66	47-120
Terphenyl-d14	63	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-1SW-1.2	Batch#:	220979
MSS Lab ID:	265009-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	ug/Kg	Prepared:	03/03/15
Basis:	dry	Analyzed:	03/04/15
Diln Fac:	2.000		

Type: MS Moisture: 9%
Lab ID: QC779361

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<15.77	2,911	1,701	58	47-120
2-Chlorophenol	<16.42	2,911	1,765	61	44-120
1,4-Dichlorobenzene	<17.19	2,911	1,865	64	49-120
N-Nitroso-di-n-propylamine	<17.55	2,911	1,644	56	42-120
1,2,4-Trichlorobenzene	<17.61	2,911	1,854	64	54-120
4-Chloro-3-methylphenol	<18.59	2,911	1,785	61	55-120
Acenaphthene	<18.31	1,092	626.8	57	51-120
4-Nitrophenol	<159.0	2,911	1,738	60	36-120
2,4-Dinitrotoluene	<21.46	2,911	1,318	45 *	52-120
Pentachlorophenol	<285.3	2,911	910.5	31	14-120
Pyrene	598.5	1,092	1,146	50	46-124

Surrogate	%REC	Limits
2-Fluorophenol	72	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	67	27-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	65	47-120
Terphenyl-d14	55	49-120

Type: MSD Moisture: 9%
Lab ID: QC779362

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,899	1,829	63	47-120	8	39
2-Chlorophenol	2,899	1,865	64	44-120	6	38
1,4-Dichlorobenzene	2,899	1,968	68	49-120	6	45
N-Nitroso-di-n-propylamine	2,899	1,764	61	42-120	7	40
1,2,4-Trichlorobenzene	2,899	1,964	68	54-120	6	38
4-Chloro-3-methylphenol	2,899	1,970	68	55-120	10	41
Acenaphthene	1,087	811.4	75	51-120	26	47
4-Nitrophenol	2,899	1,828	63	36-120	5	41
2,4-Dinitrotoluene	2,899	1,375	47 *	52-120	5	40
Pentachlorophenol	2,899	892.3	31	14-120	2	53
Pyrene	1,087	1,670	99	46-124	37	50

Surrogate	%REC	Limits
2-Fluorophenol	66	25-120
Phenol-d5	67	36-120
2,4,6-Tribromophenol	59	27-120
Nitrobenzene-d5	57	44-120
2-Fluorobiphenyl	60	47-120
Terphenyl-d14	50	49-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265009	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-1SW-1.2	Sampled:	03/03/15
Lab ID:	265009-001	Received:	03/03/15
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/04/15
Basis:	dry		

Moisture: 9%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	18	0.59	0.19	1.000	220988	EPA 3050B	EPA 6010B
Arsenic	11	0.30	0.098	1.000	220988	EPA 3050B	EPA 6010B
Barium	470	0.30	0.058	1.000	220988	EPA 3050B	EPA 6010B
Beryllium	0.32	0.12	0.022	1.000	220988	EPA 3050B	EPA 6010B
Cadmium	4.4	0.30	0.019	1.000	220988	EPA 3050B	EPA 6010B
Chromium	710	30	2.5	100.0	220988	EPA 3050B	EPA 6010B
Cobalt	20	0.30	0.023	1.000	220988	EPA 3050B	EPA 6010B
Copper	210	0.31	0.10	1.000	220988	EPA 3050B	EPA 6010B
Lead	7,000	30	8.6	100.0	220988	EPA 3050B	EPA 6010B
Mercury	0.54	0.020	0.0011	1.000	220997	METHOD	EPA 7471A
Molybdenum	5.8	0.30	0.066	1.000	220988	EPA 3050B	EPA 6010B
Nickel	76	0.30	0.080	1.000	220988	EPA 3050B	EPA 6010B
Selenium	1.3	0.59	0.17	1.000	220988	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.088	1.000	220988	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.19	1.000	220988	EPA 3050B	EPA 6010B
Vanadium	38	0.30	0.029	1.000	220988	EPA 3050B	EPA 6010B
Zinc	1,600	120	12	100.0	220988	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779392	Batch#:	220988
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/04/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.16
Arsenic	ND	0.25	0.083
Barium	ND	0.25	0.049
Beryllium	ND	0.10	0.019
Cadmium	ND	0.25	0.016
Chromium	ND	0.25	0.021
Cobalt	ND	0.25	0.019
Copper	0.096 J	0.26	0.086
Lead	ND	0.25	0.073
Molybdenum	ND	0.25	0.056
Nickel	ND	0.25	0.068
Selenium	ND	0.50	0.15
Silver	ND	0.25	0.075
Thallium	ND	0.50	0.16
Vanadium	ND	0.25	0.025
Zinc	0.17 J	1.0	0.098

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	LCS	Diln Fac:	5.000
Lab ID:	QC779393	Batch#:	220988
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/04/15

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	50.66	101	80-120
Arsenic	50.00	50.58	101	80-120
Barium	50.00	52.10	104	80-120
Beryllium	50.00	51.23	102	80-120
Cadmium	50.00	53.79	108	80-120
Chromium	50.00	51.66	103	80-120
Cobalt	50.00	49.37	99	80-120
Copper	50.00	43.01	86	80-120
Lead	50.00	49.20	98	80-120
Molybdenum	50.00	51.68	103	80-120
Nickel	50.00	49.81	100	80-120
Selenium	50.00	52.62	105	80-120
Silver	50.00	49.34	99	80-120
Thallium	50.00	51.38	103	80-120
Vanadium	50.00	53.13	106	80-120
Zinc	50.00	52.47	105	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	220988
MSS Lab ID:	264907-001	Sampled:	02/24/15
Matrix:	Soil	Received:	02/25/15
Units:	mg/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/04/15
Diln Fac:	5.000		

Type: MS Moisture: 27%
Lab ID: QC779394

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	5.039	64.62	39.42	53	15-120
Arsenic	3.953	64.62	75.16	110	69-120
Barium	190.6	64.62	324.3	207 *	35-154
Beryllium	0.6267	64.62	75.75	116	75-120
Cadmium	0.3649	64.62	78.04	120	71-120
Chromium	33.38	64.62	118.8	132	57-133
Cobalt	11.55	64.62	83.75	112	56-125
Copper	26.93	64.62	101.8	116	54-144
Lead	6.339	64.62	77.67	110	53-125
Molybdenum	0.1140	64.62	66.07	102	66-120
Nickel	29.47	64.62	108.5	122	44-141
Selenium	<0.2065	64.62	71.27	110	61-120
Silver	<0.1056	64.62	70.86	110	69-120
Thallium	<0.2302	64.62	70.14	109	59-120
Vanadium	64.34	64.62	155.6	141	52-144
Zinc	62.19	64.62	154.8	143	45-145

Type: MSD Moisture: 27%
Lab ID: QC779395

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	67.82	41.33	54	15-120	0	41
Arsenic	67.82	75.62	106	69-120	4	35
Barium	67.82	312.4	180 *	35-154	5	36
Beryllium	67.82	77.23	113	75-120	3	20
Cadmium	67.82	78.96	116	71-120	4	25
Chromium	67.82	120.7	129	57-133	2	33
Cobalt	67.82	84.51	108	56-125	3	36
Copper	67.82	103.1	112	54-144	2	38
Lead	67.82	78.29	106	53-125	4	42
Molybdenum	67.82	68.09	100	66-120	2	20
Nickel	67.82	109.6	118	44-141	2	39
Selenium	67.82	71.84	106	61-120	4	33
Silver	67.82	72.63	107	69-120	2	22
Thallium	67.82	71.84	106	59-120	2	27
Vanadium	67.82	156.1	135	52-144	2	29
Zinc	67.82	153.1	134	45-145	4	39

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220997
Lab ID:	QC779423	Prepared:	03/04/15
Matrix:	Soil	Analyzed:	03/04/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	220997
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/04/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779424	0.2083	0.2219	107	80-120		
BSD	QC779425	0.2083	0.2241	108	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265009	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	220997
MSS Lab ID:	265011-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	mg/Kg	Prepared:	03/04/15
Basis:	as received	Analyzed:	03/04/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779426	0.01674	0.2119	0.2474	109	69-142		
MSD	QC779427		0.2119	0.2425	107	69-142	2	36

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265056
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Former Allied Engineering Level : II

Sample ID	Lab ID
TBL1-2SW-1.3	265056-001
TBL1-3SW-1.2	265056-002
TBL1-4SW-0.9	265056-003
TBL1-5SW-1.0	265056-004
TBL1-6SW-2.3	265056-005
TBL1-7SW-2.0	265056-006
TBL1-1B-4.5	265056-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/09/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265056**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Former Allied Engineering**
Request Date:	**03/04/15**
Samples Received:	**03/04/15**

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 03/04/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Low recoveries were observed for diesel C10-C24 in the MS/MSD for batch 221009; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 221009. TBL1-2SW-1.3 (lab # 265056-001), TBL1-4SW-0.9 (lab # 265056-003), and TBL1-5SW-1.0 (lab # 265056-004) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for copper and lead in the MS/MSD for batch 221007; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High recoveries were observed for chromium, nickel, and vanadium in the MSD for batch 221007; the BS/BSD were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

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Berkeley, CA 94710

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Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 2605056

Project No: C1374
Project Name: Former Allied Engineering
Project P. O. No: C1374
EDD Format: Report Level ☑ II ☐ III ☐ IV
Turnaround Time: ☑ RUSH 24 hr. ☐ Standard

Sampler: B. Wishoff
Report To: B. Desheild
Company: Integral Consulting Inc.
Telephone:
Email: bdeshield@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Sampling Date Collected	Sampling Time Collected	Matrix Water	Matrix Solid	# of Containers	Chemical Preservative HCl	H2SO4	HNO3	NaOH	None	TPH gasoline	TPH diesel 8015	TPH Motor Oil 8015	SVOCs 8270	Title 22 Metals
	TBL1-2SW-1.3	3/4/2015	0840		X	5						X	X	X	X	X
	TBL1-3SW-1.2	3/4/2015	1055		X	5										
	TBL1-4SW-0.9	3/4/2015	1115		X	5										
	TBL1-5SW-1.0	3/4/2015	1130		X	5										
	TBL1-6SW-2.3	3/4/2015	1600		X	5										
	TBL1-7SW-2.0	3/4/2015	1640		X	5										
	TBL1-1B-4.5	3/4/2015	1540		X	5										
	SS 030415															

Notes: Report to MDL
EDFs needed
Report in dry weight
& provide % moisture
Lab to homogenize

SAMPLE RECEIPT
☑ Intact
☑ Cold
☑ On Ice
☐ Ambient

RELINQUISHED BY:
Stephen Sherman — DATE: 3/4/15 TIME: 1700
[signature] — DATE: 3/4/15 TIME: 1803
DATE: TIME:

RECEIVED BY:
[signature] — DATE: 3/4/15 TIME: 1700
[signature] — DATE: 3/4/15 TIME: 1700
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 1505056 Date Received 3/4/15 Number of coolers 1
Client Integral Project C1374

Date Opened 3/4 By (print) FJ (sign) [illegible]
Date Logged in " " By (print) " (sign) "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES NO
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO N/A
3. Were custody papers dry and intact when received? ____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ YES NO
6. Indicate the packing in cooler: (if other, describe) ____

   ☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.3°

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES NO
   If YES, what time were they transferred to freezer? 1830
9. Did all bottles arrive unbroken/unopened? ____ YES NO
10. Are there any missing / extra samples? ____ YES NO
11. Are samples in the appropriate containers for indicated tests? ____ YES NO
12. Are sample labels present, in good condition and complete? ____ YES NO
13. Do the sample labels agree with custody papers? ____ YES NO
14. Was sufficient amount of sample sent for tests requested? ____ YES NO
15. Are the samples appropriately preserved? ____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO N/A
17. Did you document your preservative check? ____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES NO
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265056

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Former Allied Engineering

Client Sample ID : TBL1-2SW-1.3 Laboratory Sample ID : 265056-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.025	J	0.20	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	54	Y	5.2	1.6	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	370		26	7.8	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Phenanthrene	43	J	350	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluoranthene	72	J	350	49	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Pyrene	75	J	350	38	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	42	J	350	35	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Chrysene	60	J	350	43	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	67	J	350	30	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	43	J	350	31	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	48	J	350	40	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	90	J	350	43	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Arsenic	4.5		0.26	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	96		0.26	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.36		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	3.2		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	50		0.26	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.4		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	35		0.26	0.086	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	430		0.26	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.25		0.017	0.00094	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.92		0.26	0.050	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	25		0.26	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.40		0.26	0.041	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	26		0.26	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	170		1.0	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	4		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-3SW-1.2 Laboratory Sample ID : 265056-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.18	0.0098	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	54	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	130		5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Naphthalene	89	J	370	71	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Acenaphthylene	440		370	46	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Acenaphthene	120	J	370	37	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Dibenzofuran	140	J	1,800	46	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluorene	310	J	370	44	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Phenanthrene	3,700		370	45	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Anthracene	840		370	49	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluoranthene	4,300		370	51	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Pyrene	3,900		370	40	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	2,100		370	37	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Chrysene	2,300		370	45	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	80	J	1,800	47	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	2,100		370	32	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	880		370	33	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	1,700		370	32	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	900		370	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	280	J	370	41	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	1,000		370	45	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Antimony	4.2		0.55	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	35		0.27	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	700		27	5.9	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Beryllium	0.34		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	4.7		0.27	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	390		0.27	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	15		0.27	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	180		0.27	0.092	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	4,200		27	7.7	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.79		0.017	0.00094	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	3.4		0.27	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	53		0.27	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.41		0.27	0.044	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	29		0.27	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	1,500		110	6.2	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Moisture, Percent	9		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-4SW-0.9 Laboratory Sample ID : 265056-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.014	J	0.18	0.0097	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	35	Y	5.2	1.6	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	220		26	7.9	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Acenaphthylene	52	J	340	43	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Phenanthrene	460		340	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Anthracene	64	J	340	46	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluoranthene	630		340	48	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Pyrene	620		340	38	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	220	J	340	34	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Chrysene	310	J	340	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	340	J	340	30	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	120	J	340	31	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	250	J	340	30	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	190	J	340	39	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	40	J	340	38	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	270	J	340	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Arsenic	9.8		0.24	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	160		0.24	0.051	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.23		0.096	0.012	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.0		0.24	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	56		0.24	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	9.8		0.24	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	59		0.24	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	460		0.24	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.72		0.017	0.00095	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	1.2		0.24	0.047	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	36		0.24	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.37		0.24	0.038	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	36		0.24	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	280		0.96	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	4		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-5SW-1.0 Laboratory Sample ID : 265056-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.018	J	0.17	0.0092	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	20	Y	5.4	1.6	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	200		27	8.1	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Phenanthrene	470	J	490	60	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Fluoranthene	690		490	69	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Pyrene	510		490	54	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	270	J	490	49	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Chrysene	360	J	490	60	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	320	J	490	43	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	120	J	490	44	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	200	J	490	44	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	120	J	490	56	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	170	J	490	61	ug/Kg	Dry	7.000	EPA 8270C	EPA 3550B
Antimony	1.4		0.51	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	28		0.25	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	150		0.25	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.24		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	4.3		0.25	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	76		0.25	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	14		0.25	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	58		0.25	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	360		0.25	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.33		0.017	0.00096	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	2.8		0.25	0.049	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	48		0.25	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	1.0		0.25	0.040	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	53		0.25	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	300		1.0	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	6		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-6SW-2.3 Laboratory Sample ID : 265056-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.021	J	0.24	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.2	Y	1.2	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	5.4	J	5.8	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Arsenic	8.4		0.29	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	230		0.29	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.57		0.12	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.1		0.29	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	66		0.29	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	13		0.29	0.035	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	28		0.29	0.097	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	42		0.29	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.15		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.74		0.29	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	96		0.29	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.12	J	0.29	0.046	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.16	J	0.58	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	39		0.29	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	81		1.2	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TBL1-7SW-2.0 Laboratory Sample ID : 265056-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.020	J	0.18	0.0094	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.1	J	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	4.7	J	5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Arsenic	6.2		0.28	0.082	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	190		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.50		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.2		0.28	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	66		0.28	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	13		0.28	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	28		0.28	0.094	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	180		0.28	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.21		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.82		0.28	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	90		0.28	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.10	J	0.28	0.045	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	35		0.28	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	93		1.1	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-1B-4.5 Laboratory Sample ID : 265056-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.023	J	0.20	0.010	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.3	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	6.5		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Pyrene	8.7	J	75	8.2	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	6.2		0.26	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	89		0.26	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.31		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.85		0.26	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	31		0.26	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.6		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	19		0.26	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	30		0.26	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.16		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.56		0.26	0.051	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	36		0.26	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.35		0.26	0.042	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	37		0.26	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	73		1.1	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	11		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	220996
Units:	mg/Kg	Sampled:	03/04/15
Basis:	dry	Received:	03/04/15
Diln Fac:	1.000		

Field ID: TBL1-2SW-1.3 Moisture: 4%
Type: SAMPLE Analyzed: 03/05/15
Lab ID: 265056-001

Analyte	Result	RL	MDL
Gasoline C7-C12	0.025 J	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

Field ID: TBL1-3SW-1.2 Moisture: 9%
Type: SAMPLE Analyzed: 03/05/15
Lab ID: 265056-002

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.18	0.0098

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

Field ID: TBL1-4SW-0.9 Moisture: 4%
Type: SAMPLE Analyzed: 03/05/15
Lab ID: 265056-003

Analyte	Result	RL	MDL
Gasoline C7-C12	0.014 J	0.18	0.0097

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	78-138

Field ID: TBL1-5SW-1.0 Moisture: 6%
Type: SAMPLE Analyzed: 03/05/15
Lab ID: 265056-004

Analyte	Result	RL	MDL
Gasoline C7-C12	0.018 J	0.17	0.0092

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	78-138

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	220996
Units:	mg/Kg	Sampled:	03/04/15
Basis:	dry	Received:	03/04/15
Diln Fac:	1.000		

Field ID:	TBL1-6SW-2.3	Moisture:	13%
Type:	SAMPLE	Analyzed:	03/05/15
Lab ID:	265056-005		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.24	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Field ID:	TBL1-7SW-2.0	Moisture:	13%
Type:	SAMPLE	Analyzed:	03/05/15
Lab ID:	265056-006		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.020 J	0.18	0.0094

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	78-138

Field ID:	TBL1-1B-4.5	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/05/15
Lab ID:	265056-007		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.023 J	0.20	0.010

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

Type:	BLANK	Analyzed:	03/04/15
Lab ID:	QC779422		

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	0.20	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	78-138

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	220996
Units:	mg/Kg	Analyzed:	03/04/15
Diln Fac:	1.000		

Type: BS Lab ID: QC779420

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.045	105	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	78-138

Type: BSD Lab ID: QC779421

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.013	101	80-121	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	CONCRETE-03042015	Diln Fac:	1.000
MSS Lab ID:	265057-001	Batch#:	220996
Matrix:	Miscell.	Sampled:	03/04/15
Units:	mg/Kg	Received:	03/04/15
Basis:	dry	Analyzed:	03/04/15

Type: MS Moisture: 5%
Lab ID: QC779501

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	4.012	11.57	10.96	60	50-120

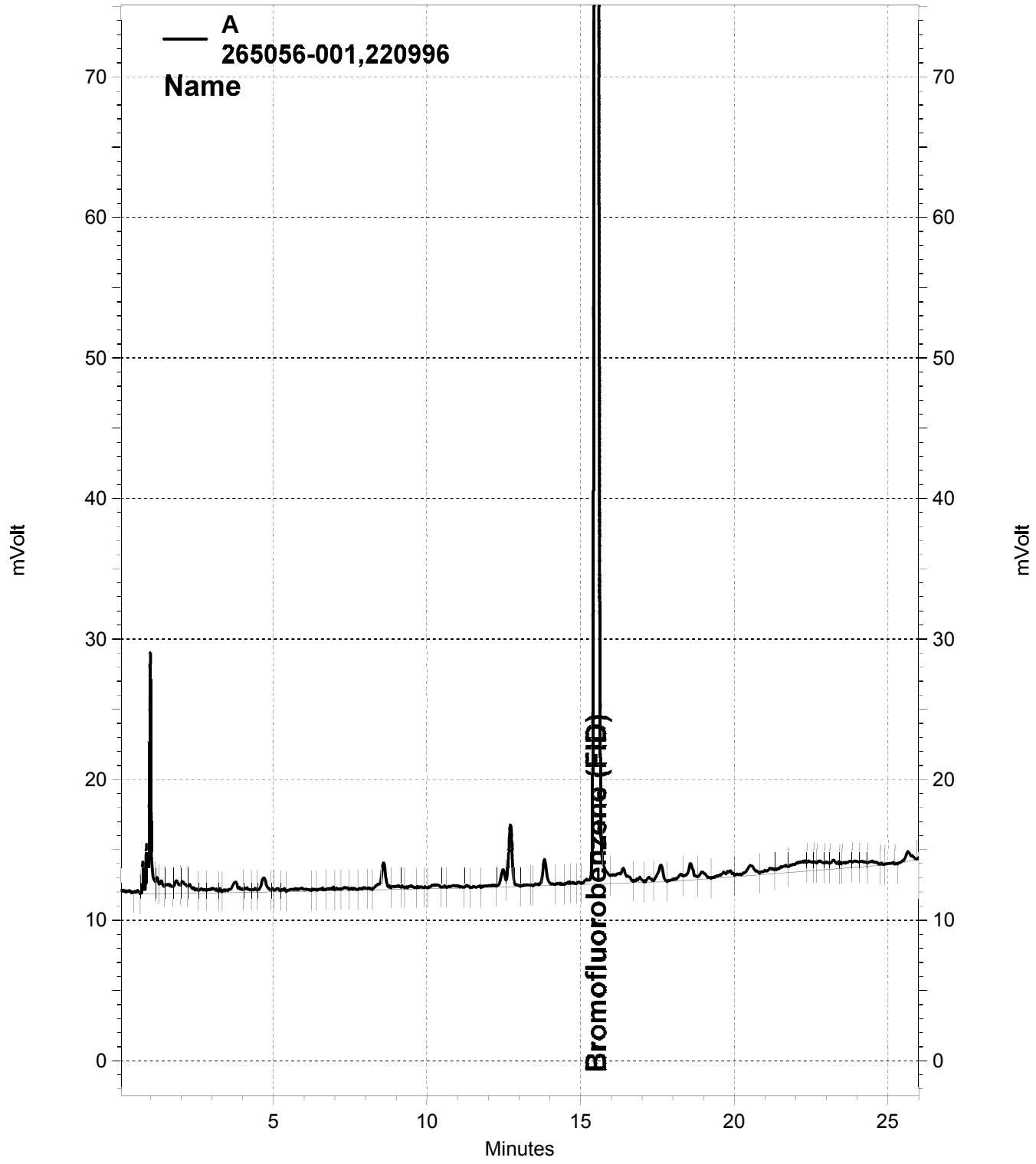
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	78-138

Type: MSD Moisture: 5%
Lab ID: QC779502

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.96	9.947	54	50-120	6	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

RPD= Relative Percent Difference



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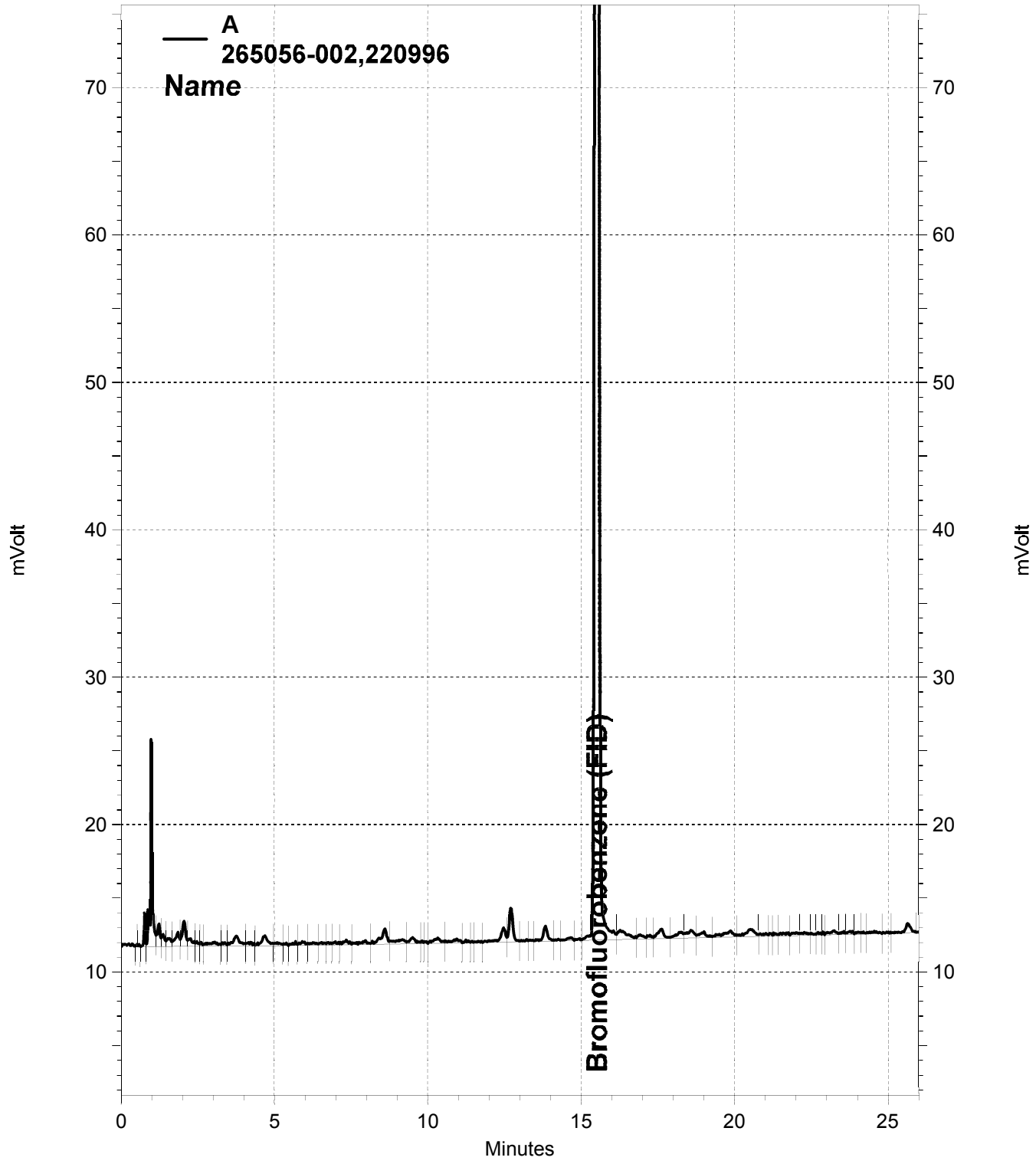

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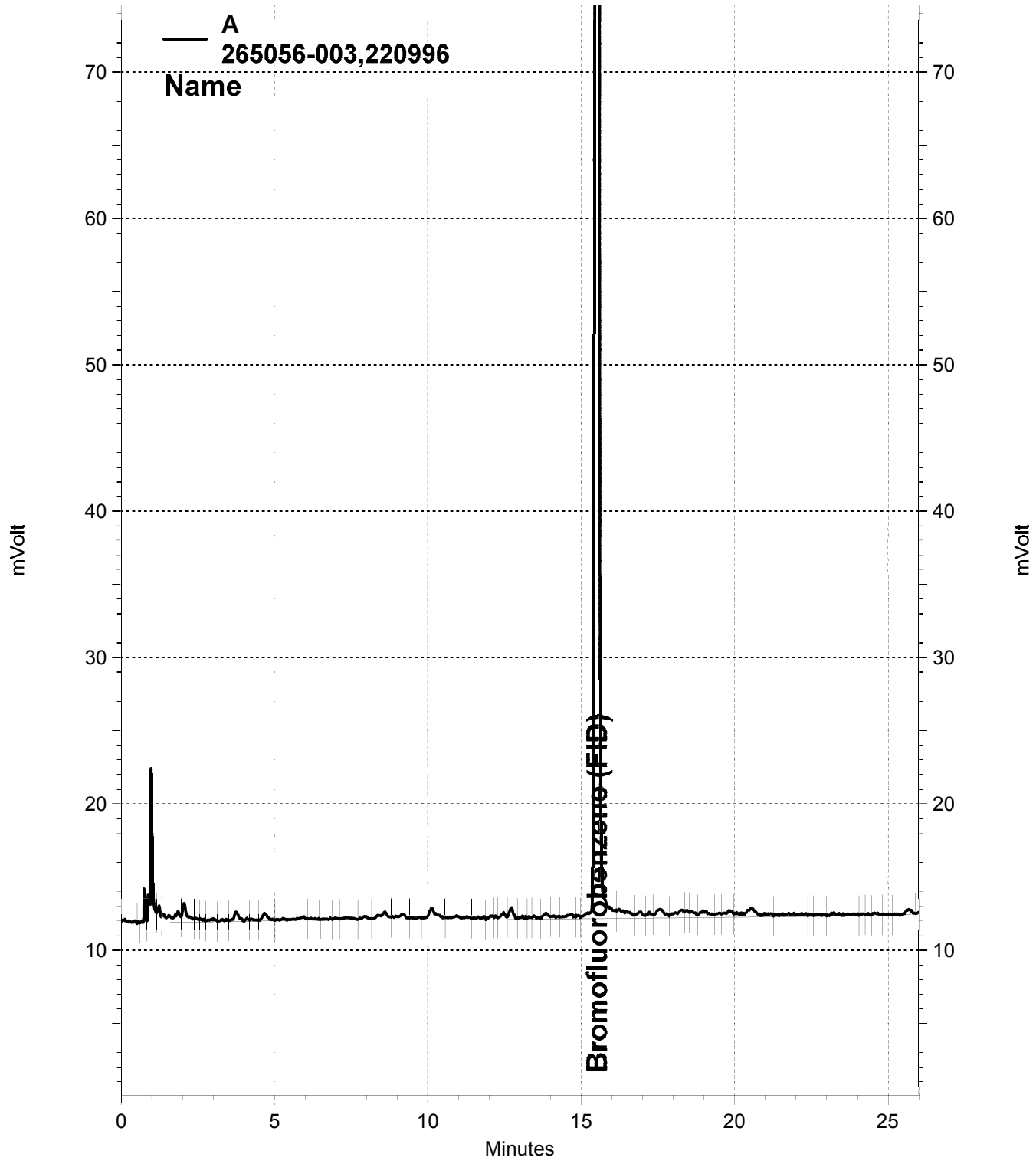

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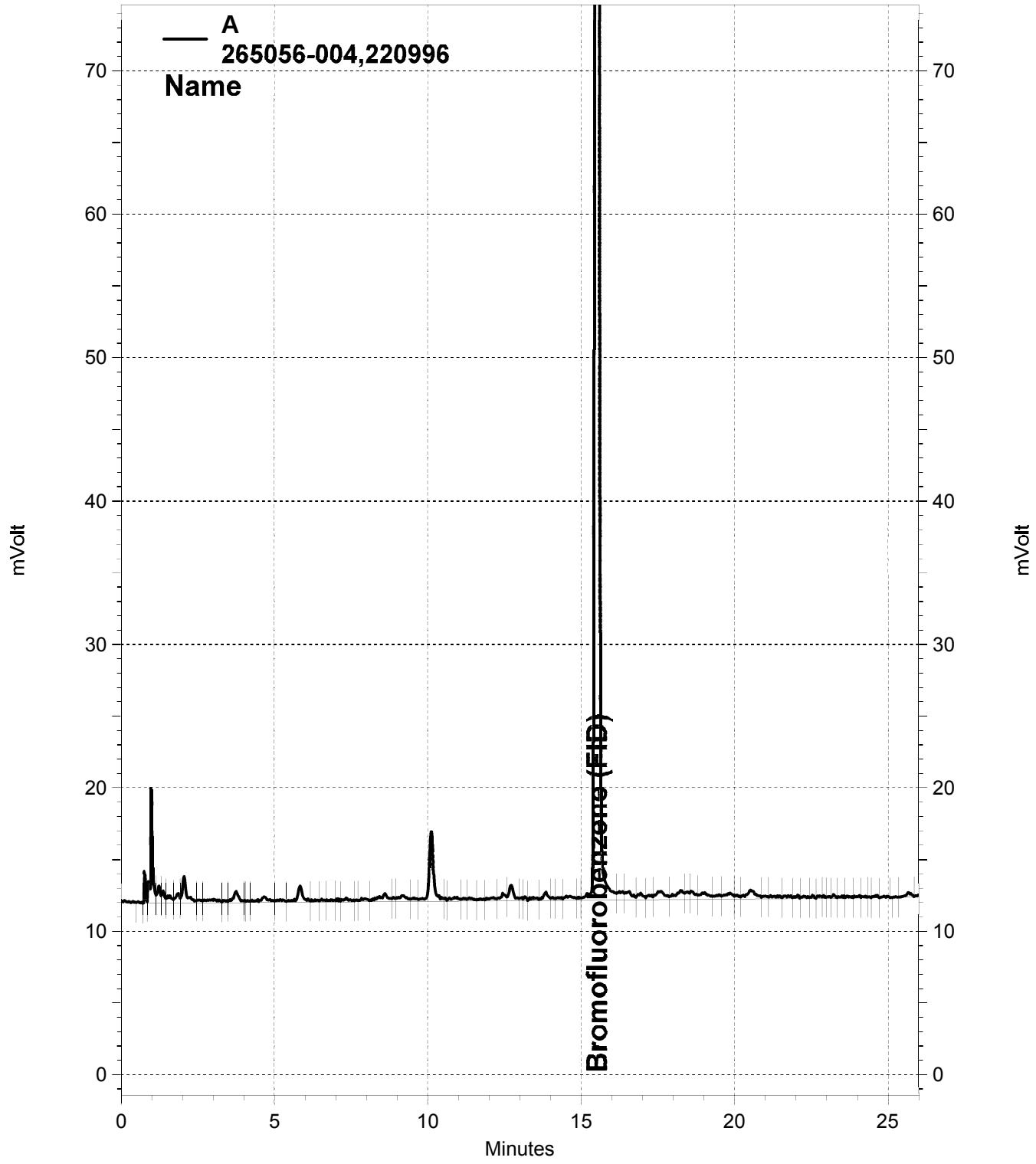

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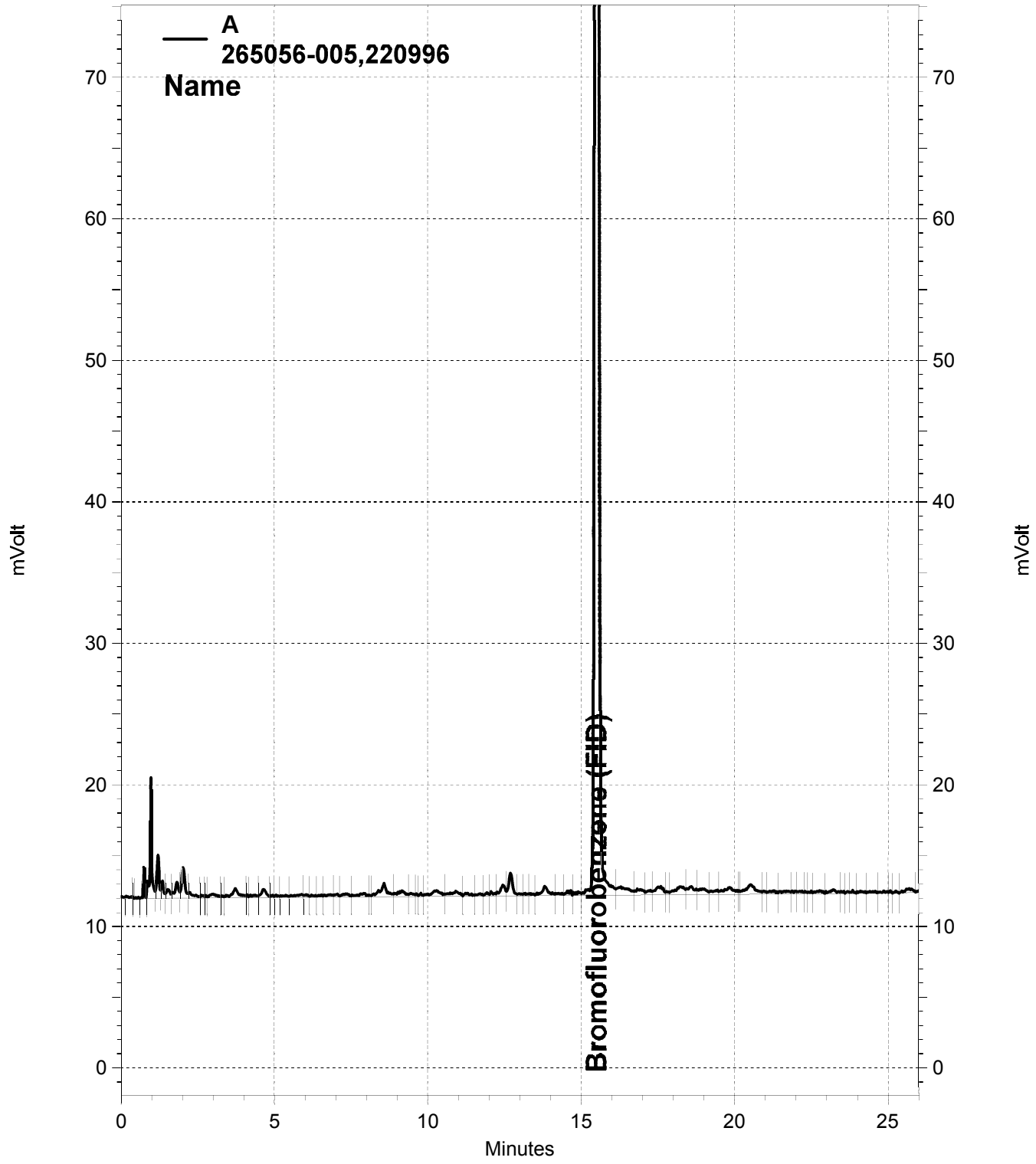

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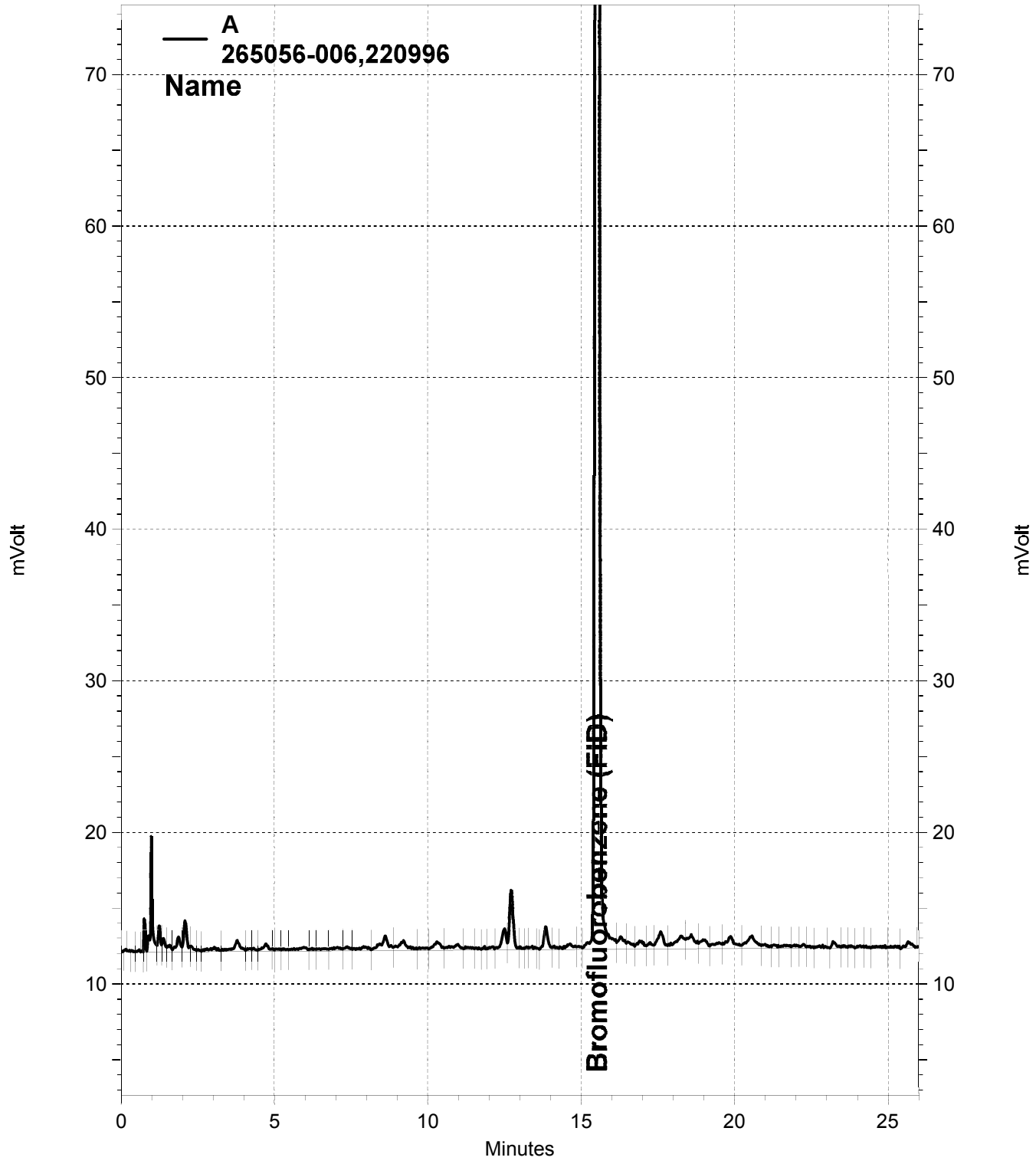

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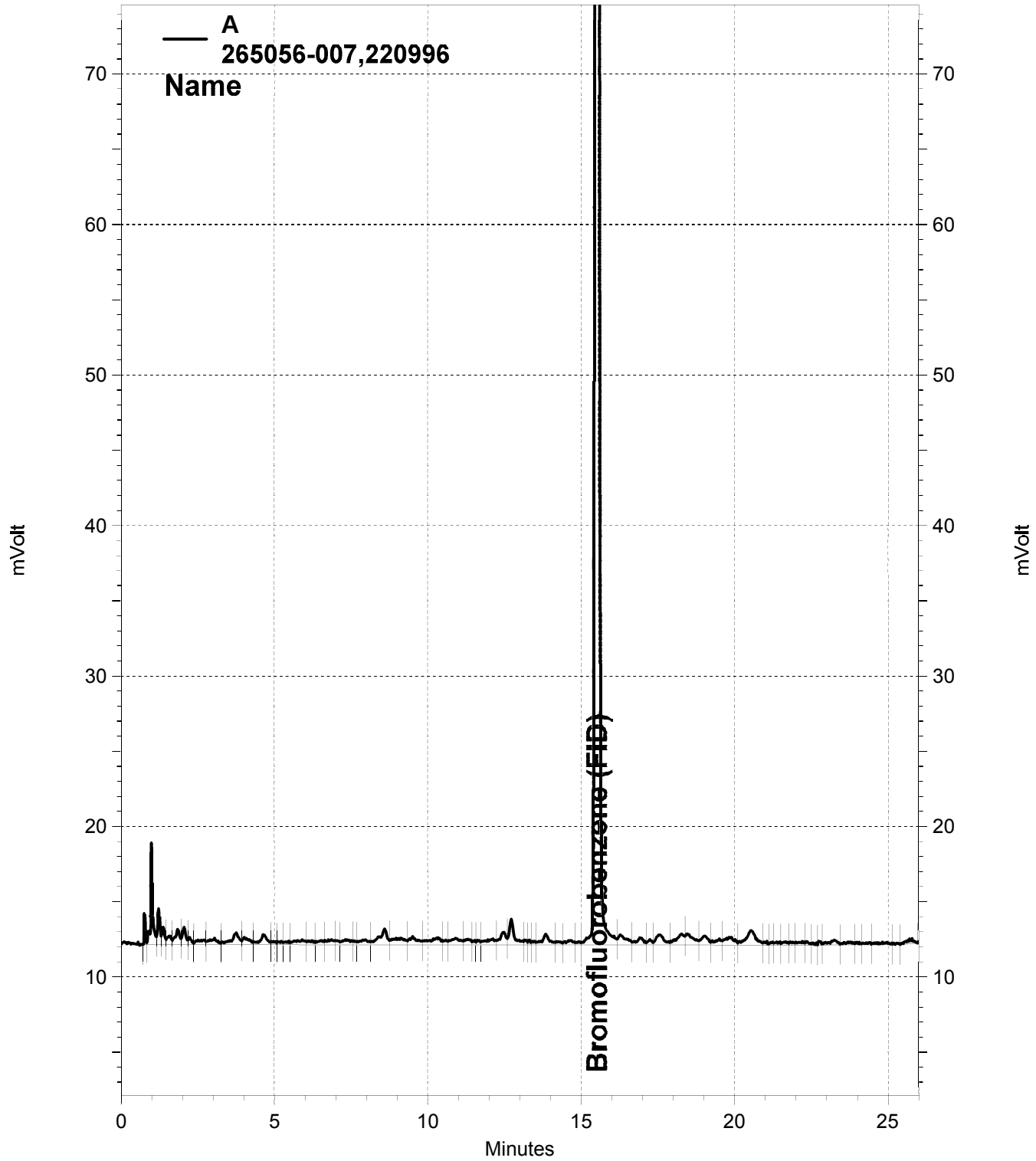

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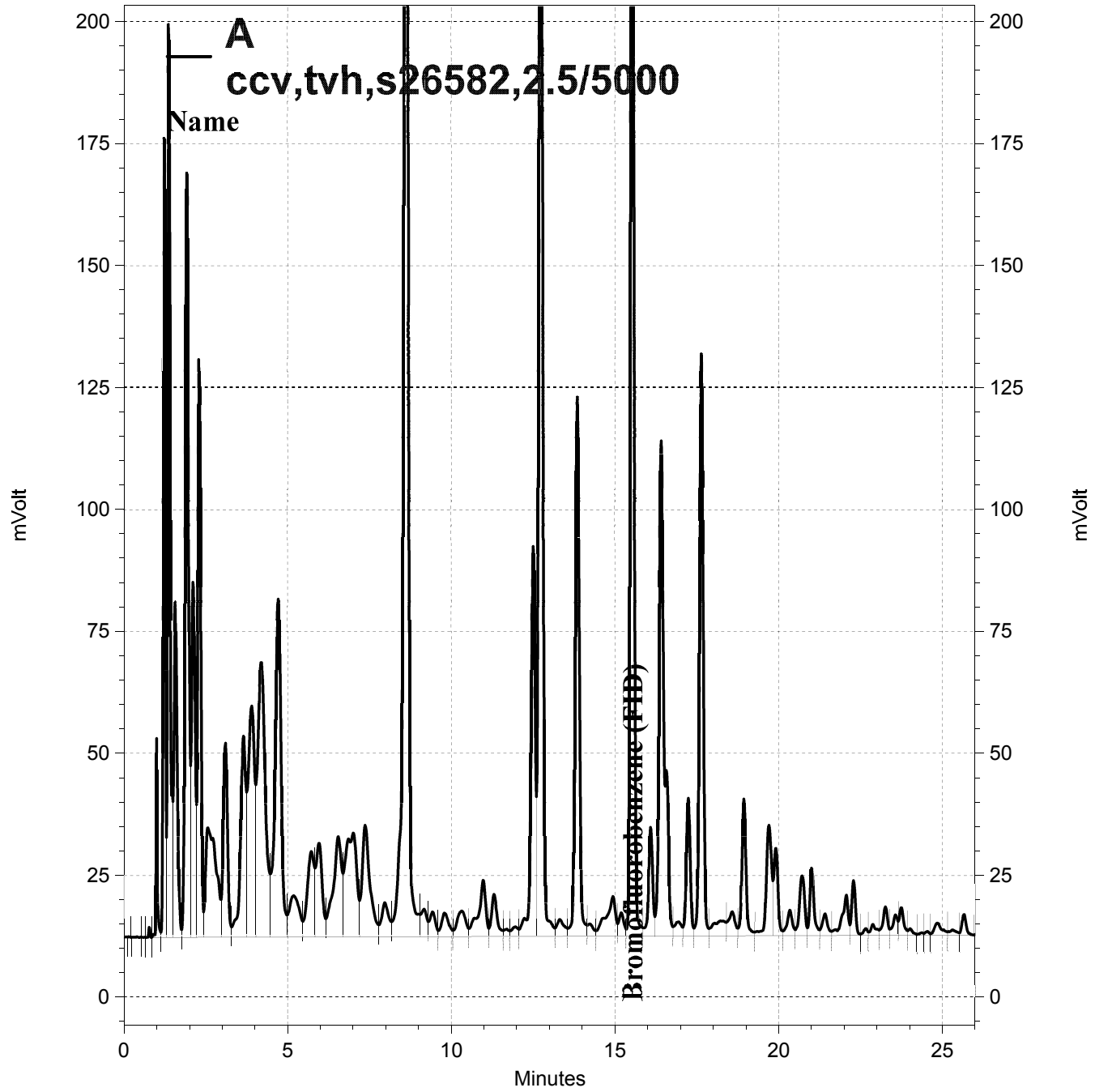

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/04/15
Units:	mg/Kg	Received:	03/04/15
Basis:	dry	Prepared:	03/04/15
Batch#:	221009	Analyzed:	03/05/15

Field ID: TBL1-2SW-1.3 Moisture: 4%
Type: SAMPLE Diln Fac: 5.000
Lab ID: 265056-001

Analyte	Result	RL	MDL
Diesel C10-C24	54 Y	5.2	1.6
Motor Oil C24-C36	370	26	7.8

Surrogate	%REC	Limits
o-Terphenyl	88	59-140

Field ID: TBL1-3SW-1.2 Moisture: 9%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265056-002

Analyte	Result	RL	MDL
Diesel C10-C24	54 Y	1.1	0.34
Motor Oil C24-C36	130	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Field ID: TBL1-4SW-0.9 Moisture: 4%
Type: SAMPLE Diln Fac: 5.000
Lab ID: 265056-003

Analyte	Result	RL	MDL
Diesel C10-C24	35 Y	5.2	1.6
Motor Oil C24-C36	220	26	7.9

Surrogate	%REC	Limits
o-Terphenyl	91	59-140

Field ID: TBL1-5SW-1.0 Moisture: 6%
Type: SAMPLE Diln Fac: 5.000
Lab ID: 265056-004

Analyte	Result	RL	MDL
Diesel C10-C24	20 Y	5.4	1.6
Motor Oil C24-C36	200	27	8.1

Surrogate	%REC	Limits
o-Terphenyl	94	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/04/15
Units:	mg/Kg	Received:	03/04/15
Basis:	dry	Prepared:	03/04/15
Batch#:	221009	Analyzed:	03/05/15

Field ID: TBL1-6SW-2.3 Moisture: 13%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265056-005

Analyte	Result	RL	MDL
Diesel C10-C24	2.2 Y	1.2	0.35
Motor Oil C24-C36	5.4 J	5.8	1.8

Surrogate	%REC	Limits
o-Terphenyl	80	59-140

Field ID: TBL1-7SW-2.0 Moisture: 13%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265056-006

Analyte	Result	RL	MDL
Diesel C10-C24	1.1 J	1.1	0.35
Motor Oil C24-C36	4.7 J	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	98	59-140

Field ID: TBL1-1B-4.5 Moisture: 11%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265056-007

Analyte	Result	RL	MDL
Diesel C10-C24	2.3 Y	1.1	0.35
Motor Oil C24-C36	6.5	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	88	59-140

Type: BLANK Diln Fac: 1.000
Lab ID: QC779484

Analyte	Result	RL	MDL
Diesel C10-C24	0.38 J	0.99	0.30
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	115	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779485	Batch#:	221009
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.98	49.68	99	58-137

Surrogate	%REC	Limits
o-Terphenyl	98	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	221009
MSS Lab ID:	265038-003	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Prepared:	03/04/15
Basis:	as received	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: MS Lab ID: QC779486

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	70.02	49.62	76.84	14 *	46-154

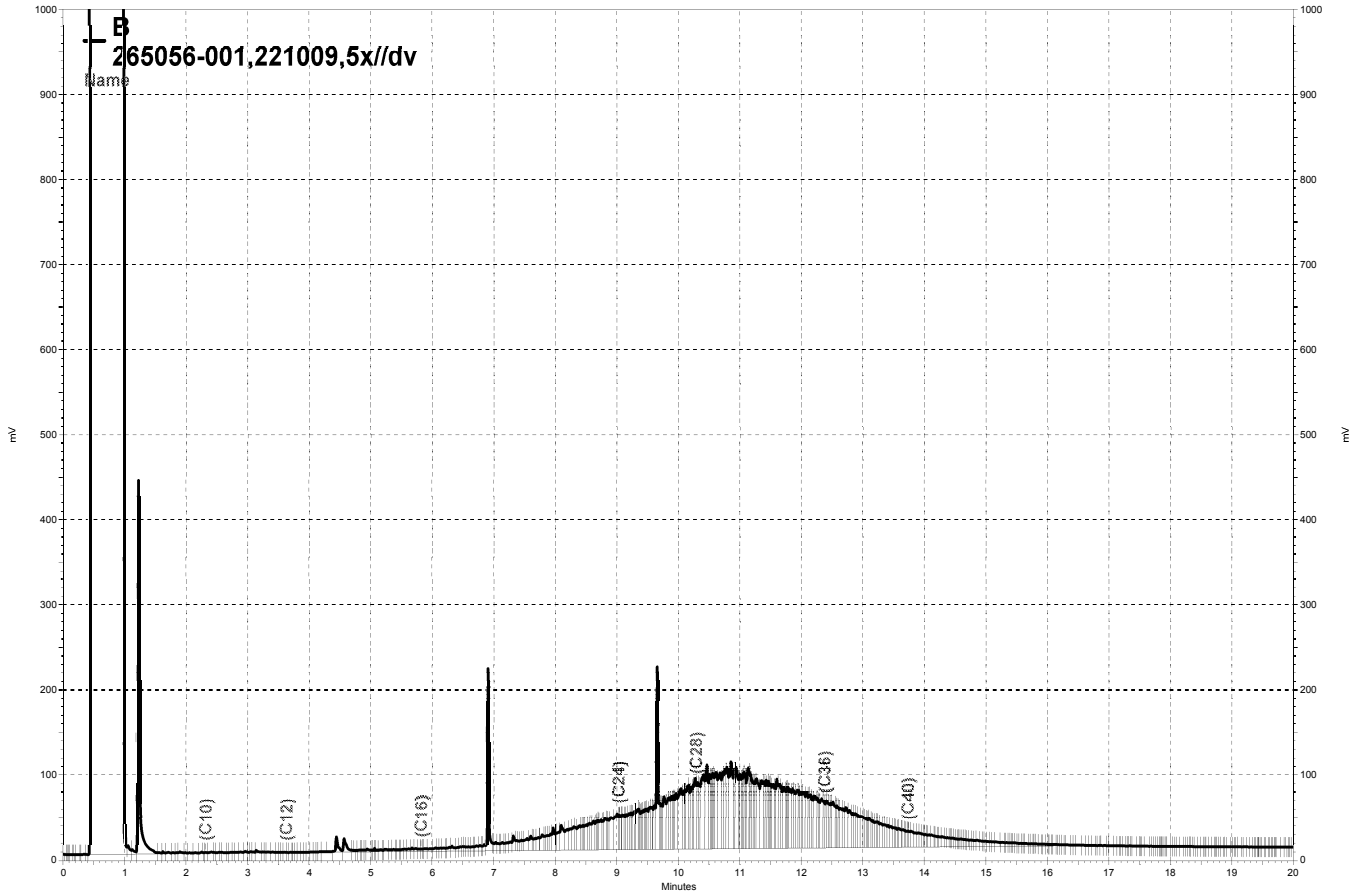
Surrogate	%REC	Limits
o-Terphenyl	103	59-140

Type: MSD Lab ID: QC779487

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.02	86.65	33 *	46-154	12	50

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



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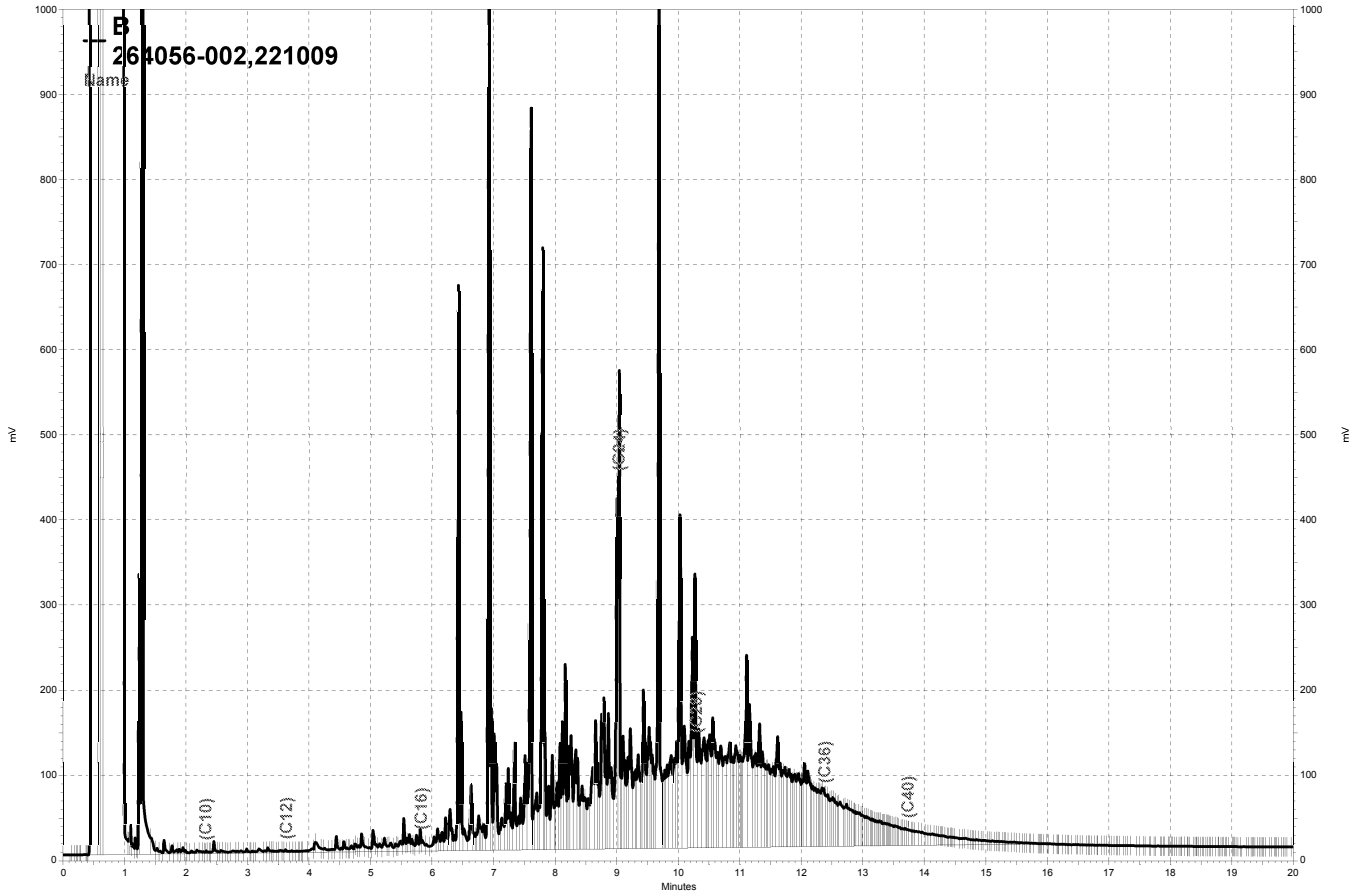

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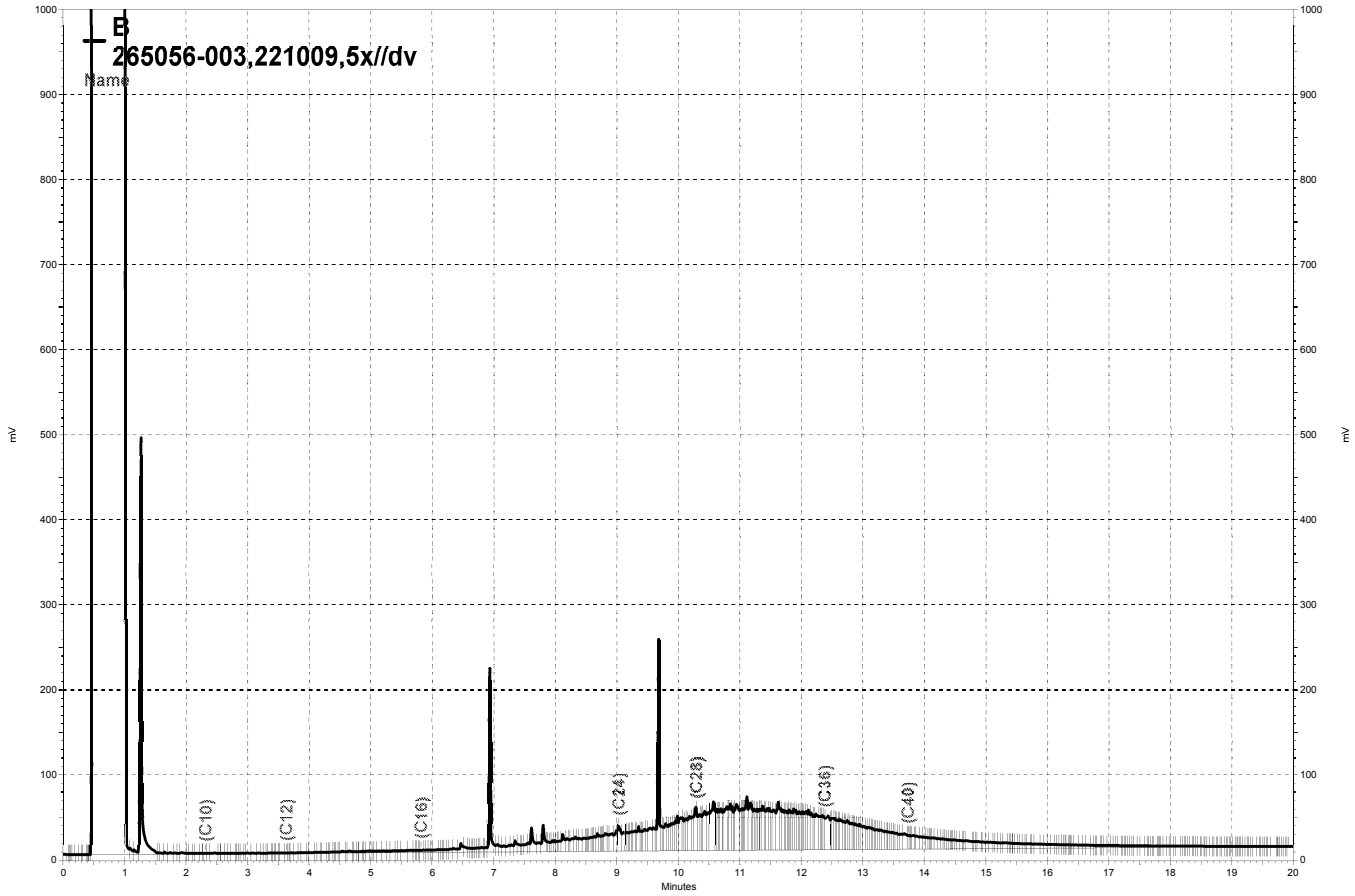

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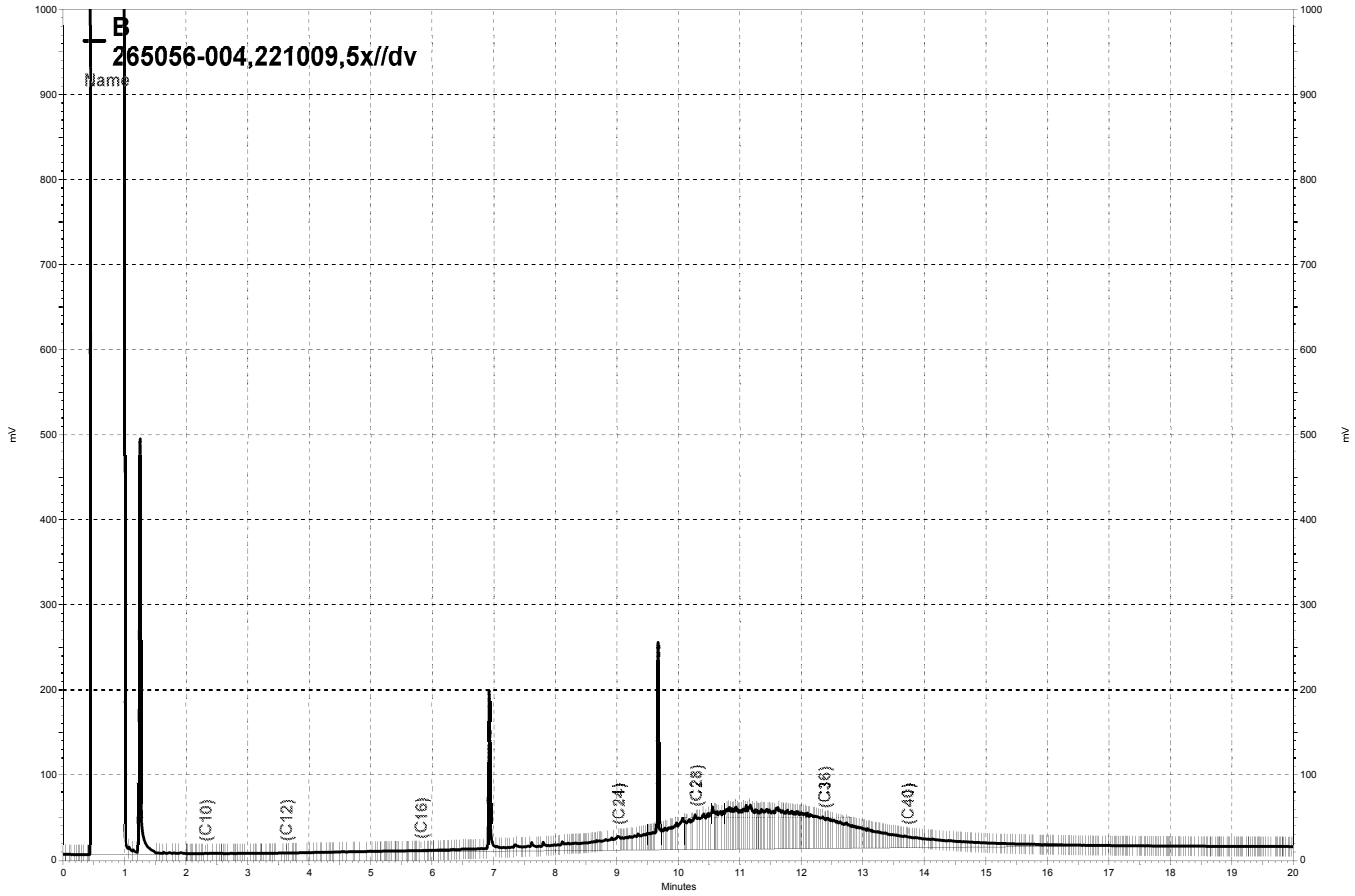

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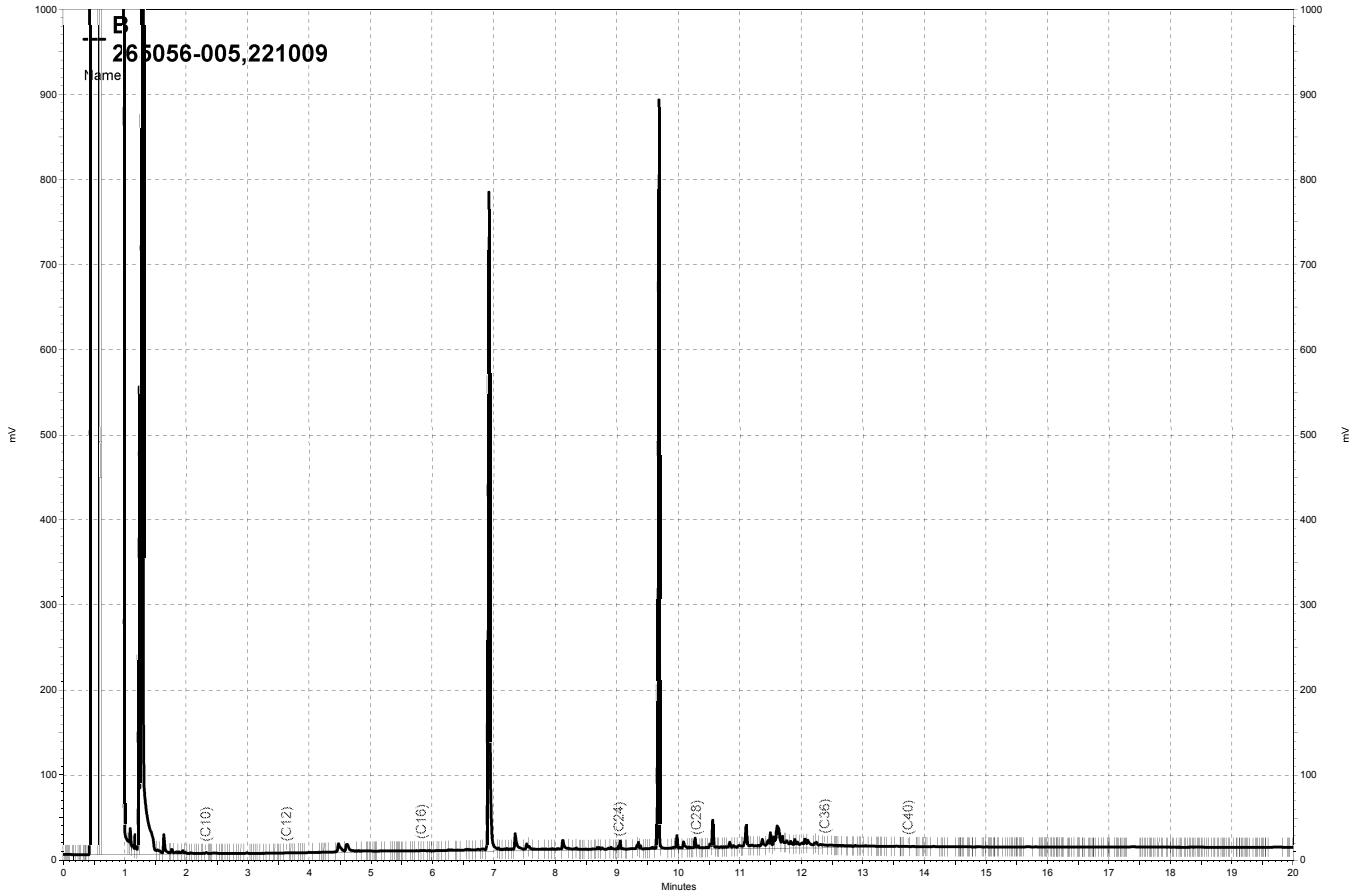

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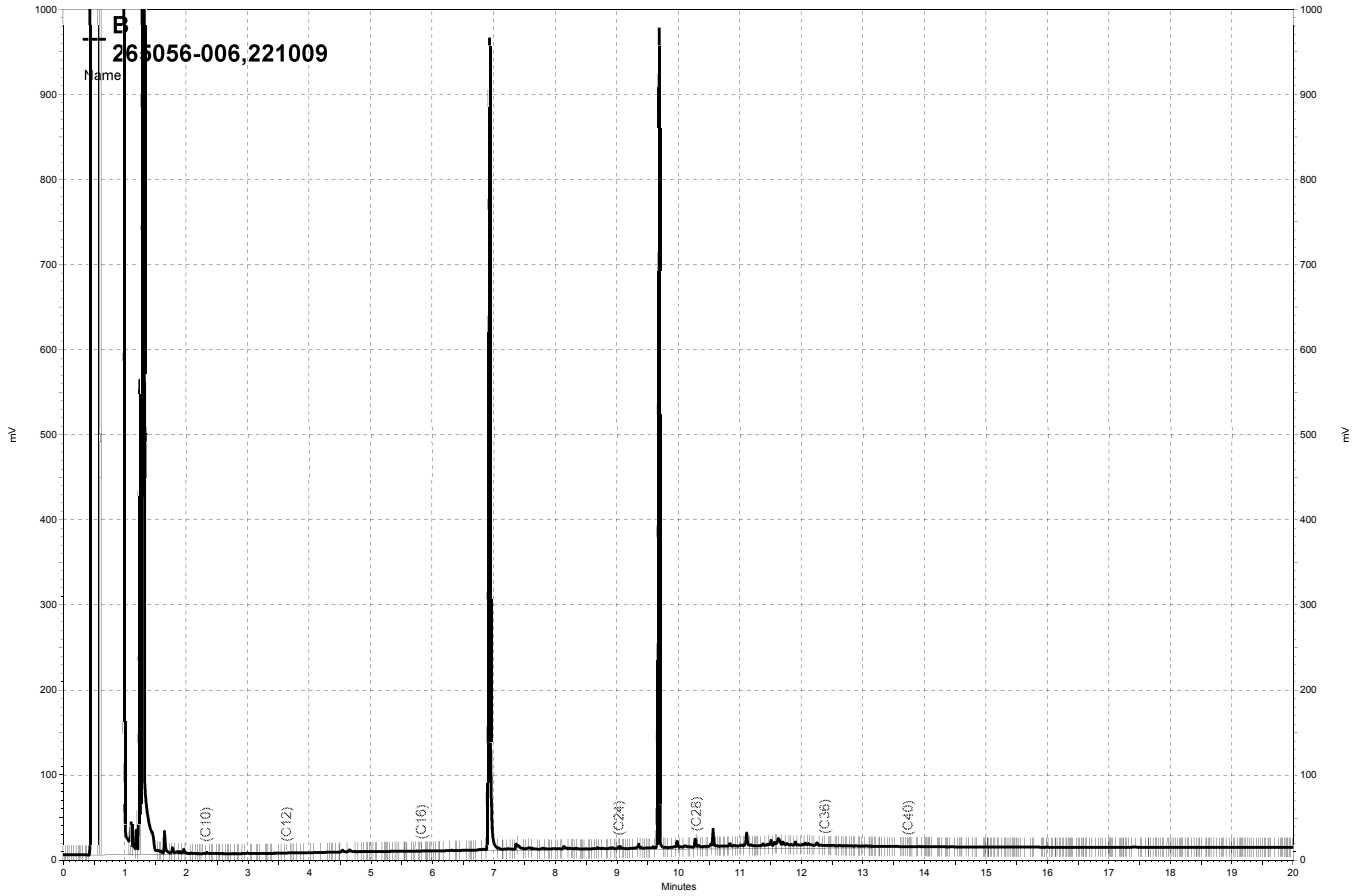

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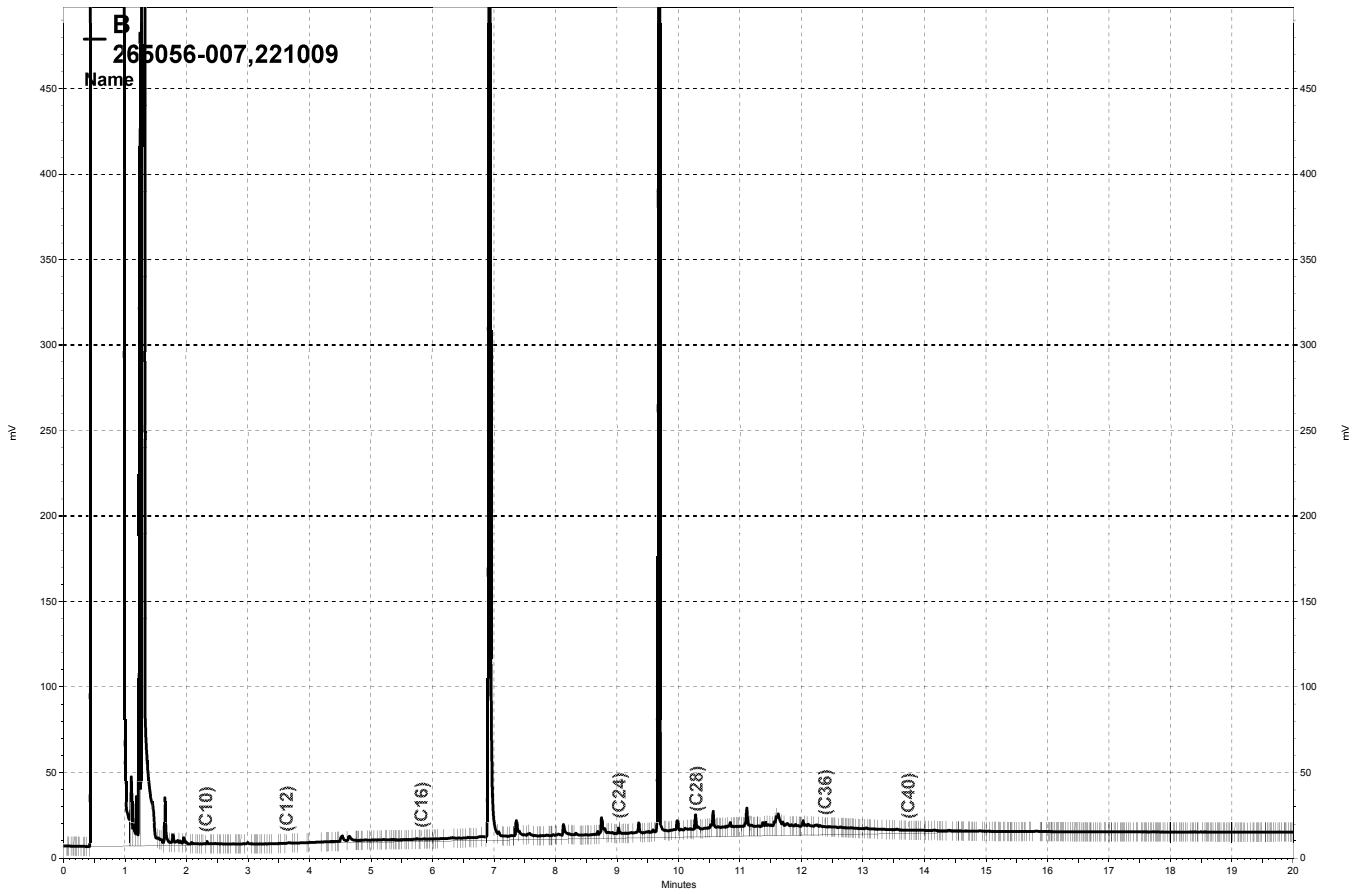

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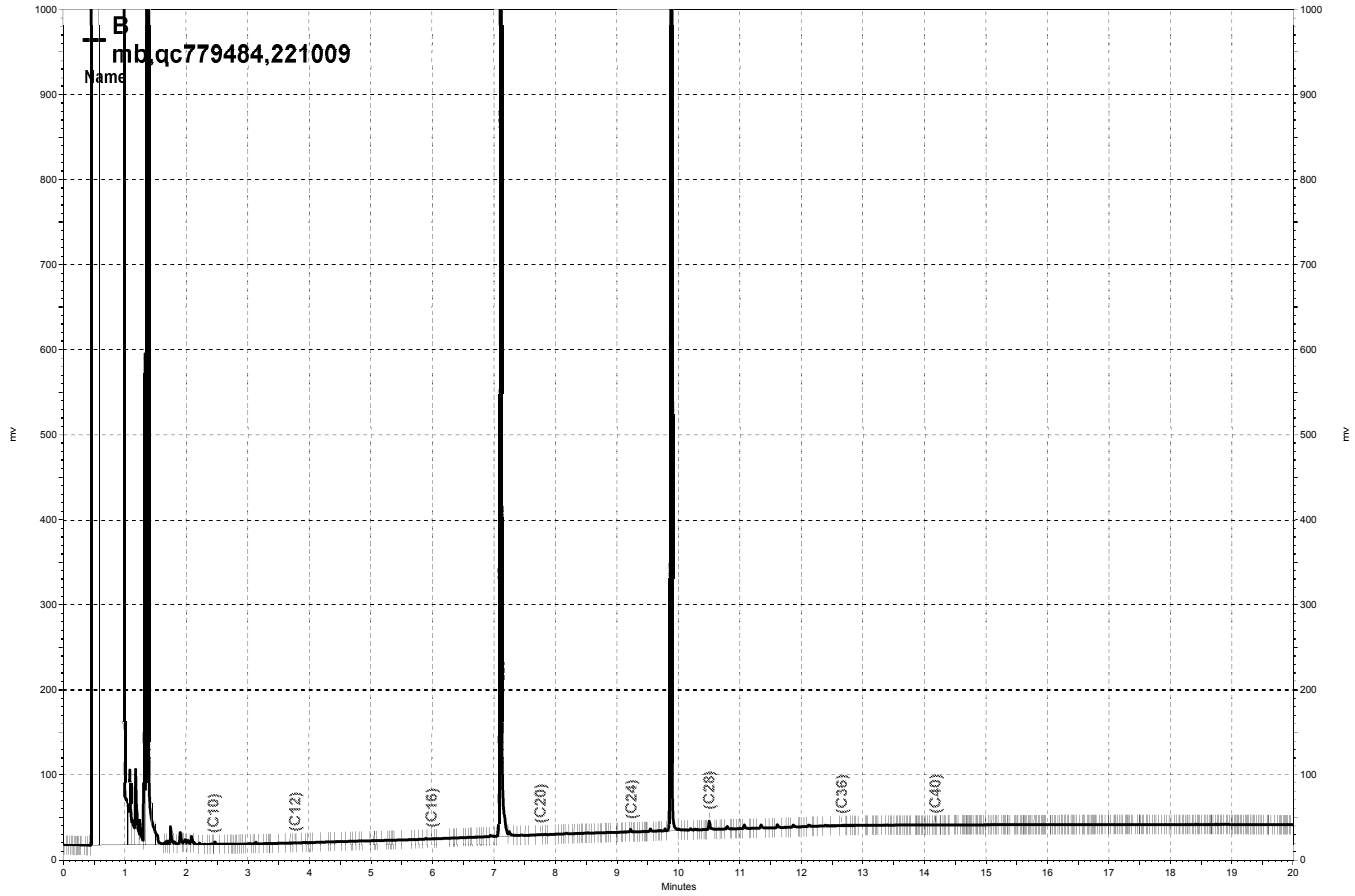

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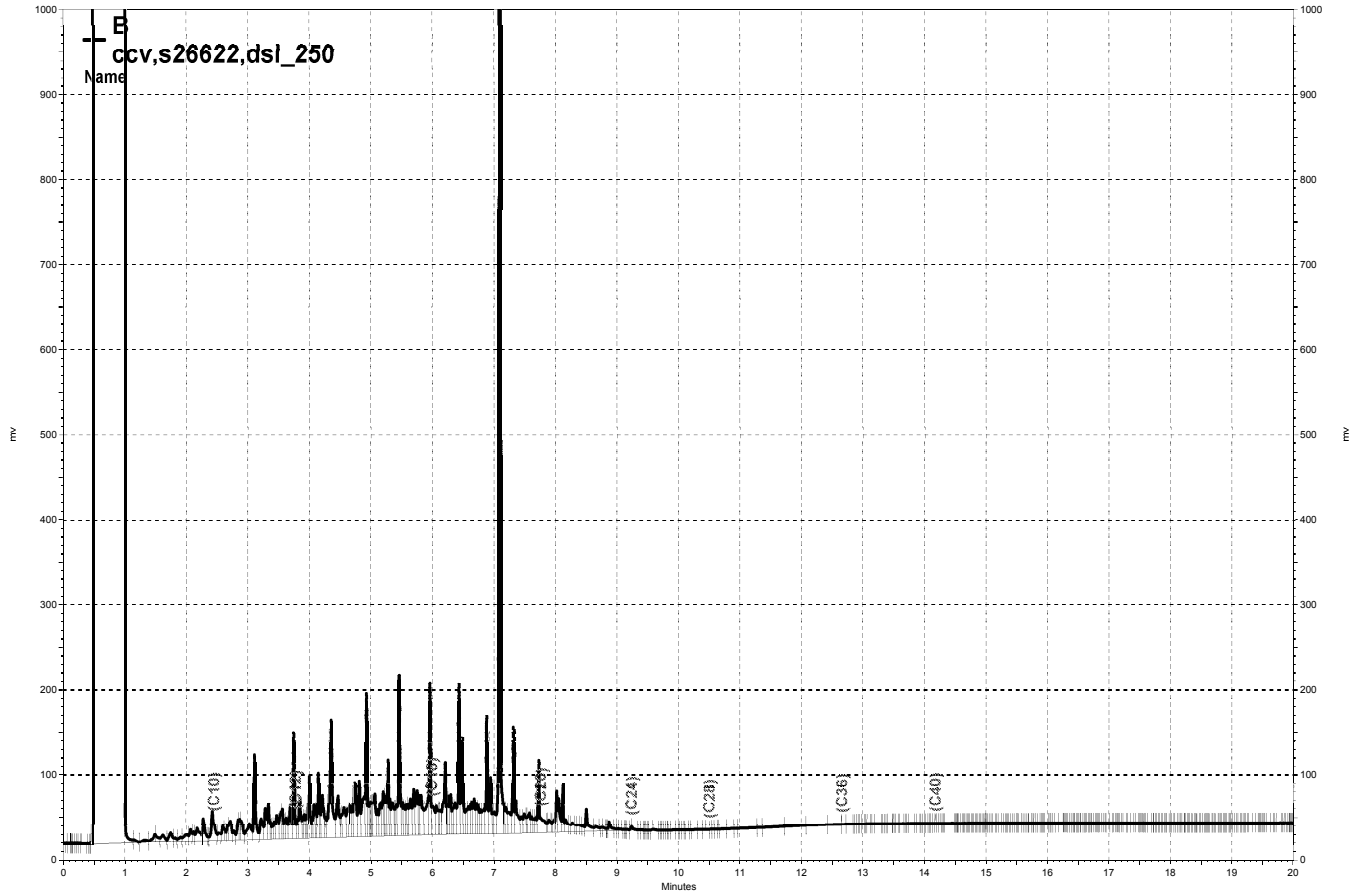

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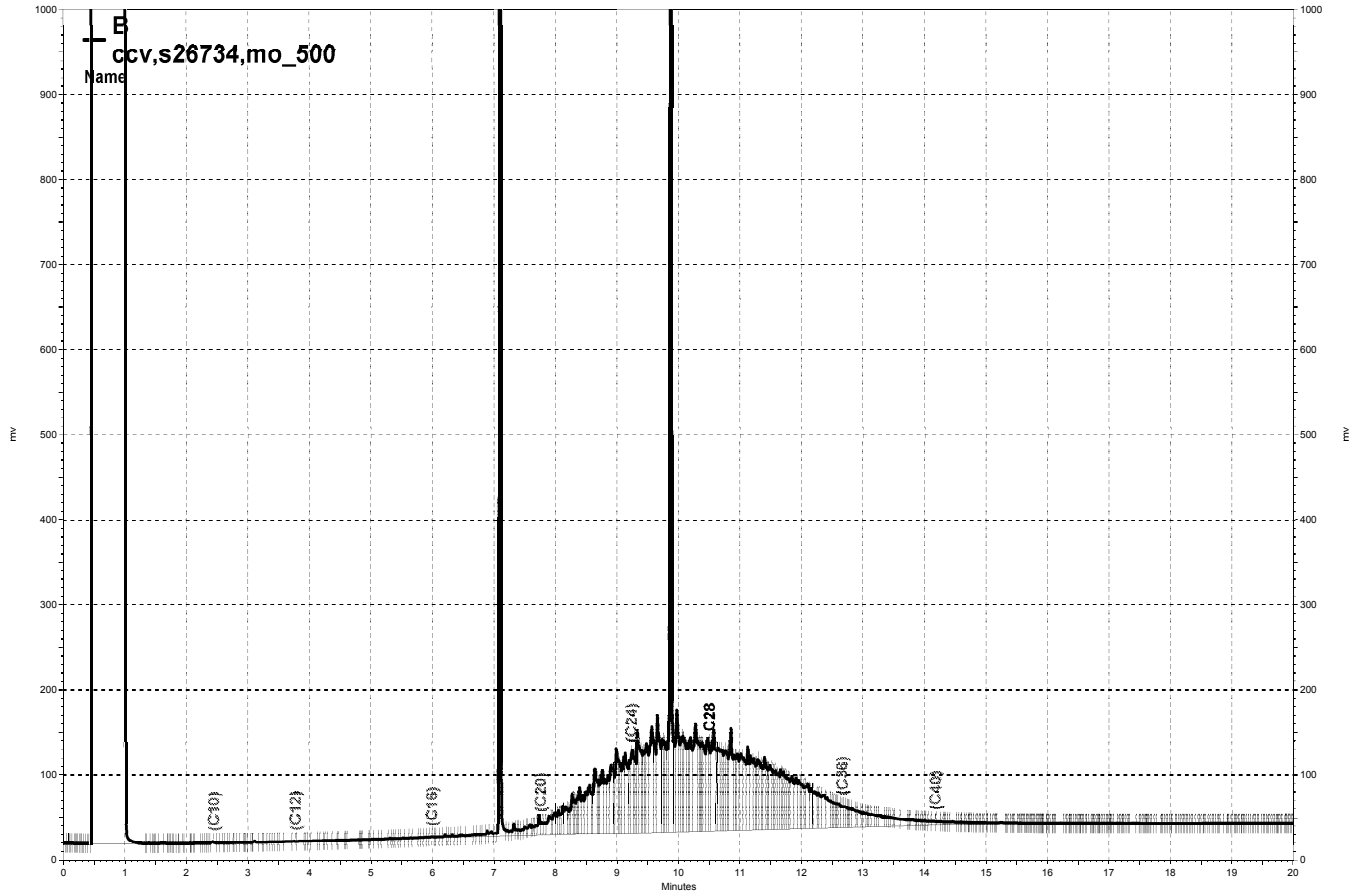

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-2SW-1.3	Batch#:	221013
Lab ID:	265056-001	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Moisture: 4%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,700	110
Phenol	ND	1,700	78
bis(2-Chloroethyl)ether	ND	1,700	83
2-Chlorophenol	ND	1,700	73
1,3-Dichlorobenzene	ND	1,700	69
1,4-Dichlorobenzene	ND	1,700	38
Benzyl alcohol	ND	1,700	85
1,2-Dichlorobenzene	ND	1,700	54
2-Methylphenol	ND	1,700	75
bis(2-Chloroisopropyl) ether	ND	1,700	83
4-Methylphenol	ND	1,700	83
N-Nitroso-di-n-propylamine	ND	1,700	79
Hexachloroethane	ND	1,700	55
Nitrobenzene	ND	1,700	47
Isophorone	ND	1,700	53
2-Nitrophenol	ND	3,500	200
2,4-Dimethylphenol	ND	1,700	97
Benzoic acid	ND	8,700	2,000
bis(2-Chloroethoxy)methane	ND	1,700	54
2,4-Dichlorophenol	ND	1,700	49
1,2,4-Trichlorobenzene	ND	1,700	44
Naphthalene	ND	350	67
4-Chloroaniline	ND	1,700	66
Hexachlorobutadiene	ND	1,700	43
4-Chloro-3-methylphenol	ND	1,700	45
2-Methylnaphthalene	ND	350	52
Hexachlorocyclopentadiene	ND	3,500	400
2,4,6-Trichlorophenol	ND	1,700	57
2,4,5-Trichlorophenol	ND	1,700	48
2-Chloronaphthalene	ND	1,700	40
2-Nitroaniline	ND	3,500	180
Dimethylphthalate	ND	1,700	38
Acenaphthylene	ND	350	43
2,6-Dinitrotoluene	ND	1,700	180
3-Nitroaniline	ND	3,500	38
Acenaphthene	ND	350	35
2,4-Dinitrophenol	ND	3,500	260
4-Nitrophenol	ND	3,500	37
Dibenzofuran	ND	1,700	44
2,4-Dinitrotoluene	ND	1,700	43
Diethylphthalate	ND	1,700	44
Fluorene	ND	350	41
4-Chlorophenyl-phenylether	ND	1,700	44
4-Nitroaniline	ND	3,500	55
4,6-Dinitro-2-methylphenol	ND	3,500	180
N-Nitrosodiphenylamine	ND	1,700	41
Azobenzene	ND	1,700	36
4-Bromophenyl-phenylether	ND	1,700	42
Hexachlorobenzene	ND	1,700	36

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-2SW-1.3	Batch#:	221013
Lab ID:	265056-001	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	3,500	530
Phenanthrene	43 J	350	42
Anthracene	ND	350	47
Di-n-butylphthalate	ND	1,700	50
Fluoranthene	72 J	350	49
Pyrene	75 J	350	38
Butylbenzylphthalate	ND	1,700	50
3,3'-Dichlorobenzidine	ND	3,500	410
Benzo(a)anthracene	42 J	350	35
Chrysene	60 J	350	43
bis(2-Ethylhexyl)phthalate	ND	1,700	45
Di-n-octylphthalate	ND	1,700	180
Benzo(b)fluoranthene	67 J	350	30
Benzo(k)fluoranthene	ND	350	31
Benzo(a)pyrene	43 J	350	31
Indeno(1,2,3-cd)pyrene	48 J	350	40
Dibenz(a,h)anthracene	ND	350	38
Benzo(g,h,i)perylene	90 J	350	43

Surrogate	%REC	Limits
2-Fluorophenol	71	25-120
Phenol-d5	76	36-120
2,4,6-Tribromophenol	79	27-120
Nitrobenzene-d5	71	44-120
2-Fluorobiphenyl	85	47-120
Terphenyl-d14	78	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-3SW-1.2	Batch#:	221013
Lab ID:	265056-002	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Moisture: 9%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,800	120
Phenol	ND	1,800	82
bis(2-Chloroethyl)ether	ND	1,800	87
2-Chlorophenol	ND	1,800	77
1,3-Dichlorobenzene	ND	1,800	72
1,4-Dichlorobenzene	ND	1,800	40
Benzyl alcohol	ND	1,800	90
1,2-Dichlorobenzene	ND	1,800	57
2-Methylphenol	ND	1,800	79
bis(2-Chloroisopropyl) ether	ND	1,800	88
4-Methylphenol	ND	1,800	87
N-Nitroso-di-n-propylamine	ND	1,800	83
Hexachloroethane	ND	1,800	58
Nitrobenzene	ND	1,800	49
Isophorone	ND	1,800	56
2-Nitrophenol	ND	3,700	210
2,4-Dimethylphenol	ND	1,800	100
Benzoic acid	ND	9,100	2,100
bis(2-Chloroethoxy)methane	ND	1,800	57
2,4-Dichlorophenol	ND	1,800	51
1,2,4-Trichlorobenzene	ND	1,800	47
Naphthalene	89 J	370	71
4-Chloroaniline	ND	1,800	69
Hexachlorobutadiene	ND	1,800	46
4-Chloro-3-methylphenol	ND	1,800	48
2-Methylnaphthalene	ND	370	55
Hexachlorocyclopentadiene	ND	3,700	420
2,4,6-Trichlorophenol	ND	1,800	61
2,4,5-Trichlorophenol	ND	1,800	50
2-Chloronaphthalene	ND	1,800	43
2-Nitroaniline	ND	3,700	190
Dimethylphthalate	ND	1,800	40
Acenaphthylene	440	370	46
2,6-Dinitrotoluene	ND	1,800	180
3-Nitroaniline	ND	3,700	40
Acenaphthene	120 J	370	37
2,4-Dinitrophenol	ND	3,700	270
4-Nitrophenol	ND	3,700	39
Dibenzofuran	140 J	1,800	46
2,4-Dinitrotoluene	ND	1,800	46
Diethylphthalate	ND	1,800	46
Fluorene	310 J	370	44
4-Chlorophenyl-phenylether	ND	1,800	46
4-Nitroaniline	ND	3,700	58
4,6-Dinitro-2-methylphenol	ND	3,700	190
N-Nitrosodiphenylamine	ND	1,800	43
Azobenzene	ND	1,800	38
4-Bromophenyl-phenylether	ND	1,800	44
Hexachlorobenzene	ND	1,800	38

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-3SW-1.2	Batch#:	221013
Lab ID:	265056-002	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	3,700	560
Phenanthrene	3,700	370	45
Anthracene	840	370	49
Di-n-butylphthalate	ND	1,800	52
Fluoranthene	4,300	370	51
Pyrene	3,900	370	40
Butylbenzylphthalate	ND	1,800	53
3,3'-Dichlorobenzidine	ND	3,700	440
Benzo(a)anthracene	2,100	370	37
Chrysene	2,300	370	45
bis(2-Ethylhexyl)phthalate	80 J	1,800	47
Di-n-octylphthalate	ND	1,800	190
Benzo(b)fluoranthene	2,100	370	32
Benzo(k)fluoranthene	880	370	33
Benzo(a)pyrene	1,700	370	32
Indeno(1,2,3-cd)pyrene	900	370	42
Dibenz(a,h)anthracene	280 J	370	41
Benzo(g,h,i)perylene	1,000	370	45

Surrogate	%REC	Limits
2-Fluorophenol	82	25-120
Phenol-d5	83	36-120
2,4,6-Tribromophenol	88	27-120
Nitrobenzene-d5	79	44-120
2-Fluorobiphenyl	93	47-120
Terphenyl-d14	83	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-4SW-0.9	Batch#:	221013
Lab ID:	265056-003	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Moisture: 4%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,700	110
Phenol	ND	1,700	77
bis(2-Chloroethyl)ether	ND	1,700	82
2-Chlorophenol	ND	1,700	72
1,3-Dichlorobenzene	ND	1,700	68
1,4-Dichlorobenzene	ND	1,700	38
Benzyl alcohol	ND	1,700	84
1,2-Dichlorobenzene	ND	1,700	53
2-Methylphenol	ND	1,700	74
bis(2-Chloroisopropyl) ether	ND	1,700	82
4-Methylphenol	ND	1,700	82
N-Nitroso-di-n-propylamine	ND	1,700	78
Hexachloroethane	ND	1,700	54
Nitrobenzene	ND	1,700	46
Isophorone	ND	1,700	52
2-Nitrophenol	ND	3,400	200
2,4-Dimethylphenol	ND	1,700	96
Benzoic acid	ND	8,600	1,900
bis(2-Chloroethoxy)methane	ND	1,700	53
2,4-Dichlorophenol	ND	1,700	48
1,2,4-Trichlorobenzene	ND	1,700	44
Naphthalene	ND	340	66
4-Chloroaniline	ND	1,700	65
Hexachlorobutadiene	ND	1,700	43
4-Chloro-3-methylphenol	ND	1,700	45
2-Methylnaphthalene	ND	340	51
Hexachlorocyclopentadiene	ND	3,400	390
2,4,6-Trichlorophenol	ND	1,700	57
2,4,5-Trichlorophenol	ND	1,700	47
2-Chloronaphthalene	ND	1,700	40
2-Nitroaniline	ND	3,400	170
Dimethylphthalate	ND	1,700	37
Acenaphthylene	52 J	340	43
2,6-Dinitrotoluene	ND	1,700	170
3-Nitroaniline	ND	3,400	37
Acenaphthene	ND	340	34
2,4-Dinitrophenol	ND	3,400	250
4-Nitrophenol	ND	3,400	36
Dibenzofuran	ND	1,700	43
2,4-Dinitrotoluene	ND	1,700	43
Diethylphthalate	ND	1,700	43
Fluorene	ND	340	41
4-Chlorophenyl-phenylether	ND	1,700	43
4-Nitroaniline	ND	3,400	54
4,6-Dinitro-2-methylphenol	ND	3,400	180
N-Nitrosodiphenylamine	ND	1,700	40
Azobenzene	ND	1,700	36
4-Bromophenyl-phenylether	ND	1,700	41
Hexachlorobenzene	ND	1,700	35

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-4SW-0.9	Batch#:	221013
Lab ID:	265056-003	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	3,400	530
Phenanthrene	460	340	42
Anthracene	64 J	340	46
Di-n-butylphthalate	ND	1,700	49
Fluoranthene	630	340	48
Pyrene	620	340	38
Butylbenzylphthalate	ND	1,700	49
3,3'-Dichlorobenzidine	ND	3,400	410
Benzo(a)anthracene	220 J	340	34
Chrysene	310 J	340	42
bis(2-Ethylhexyl)phthalate	ND	1,700	44
Di-n-octylphthalate	ND	1,700	180
Benzo(b)fluoranthene	340 J	340	30
Benzo(k)fluoranthene	120 J	340	31
Benzo(a)pyrene	250 J	340	30
Indeno(1,2,3-cd)pyrene	190 J	340	39
Dibenz(a,h)anthracene	40 J	340	38
Benzo(g,h,i)perylene	270 J	340	42

Surrogate	%REC	Limits
2-Fluorophenol	85	25-120
Phenol-d5	87	36-120
2,4,6-Tribromophenol	93	27-120
Nitrobenzene-d5	83	44-120
2-Fluorobiphenyl	97	47-120
Terphenyl-d14	88	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-5SW-1.0	Batch#:	221013
Lab ID:	265056-004	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	7.000		

Moisture: 6%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	2,500	160
Phenol	ND	2,500	110
bis(2-Chloroethyl)ether	ND	2,500	120
2-Chlorophenol	ND	2,500	100
1,3-Dichlorobenzene	ND	2,500	97
1,4-Dichlorobenzene	ND	2,500	54
Benzyl alcohol	ND	2,500	120
1,2-Dichlorobenzene	ND	2,500	76
2-Methylphenol	ND	2,500	110
bis(2-Chloroisopropyl) ether	ND	2,500	120
4-Methylphenol	ND	2,500	120
N-Nitroso-di-n-propylamine	ND	2,500	110
Hexachloroethane	ND	2,500	78
Nitrobenzene	ND	2,500	66
Isophorone	ND	2,500	75
2-Nitrophenol	ND	4,900	290
2,4-Dimethylphenol	ND	2,500	140
Benzoic acid	ND	12,000	2,800
bis(2-Chloroethoxy)methane	ND	2,500	76
2,4-Dichlorophenol	ND	2,500	69
1,2,4-Trichlorobenzene	ND	2,500	62
Naphthalene	ND	490	95
4-Chloroaniline	ND	2,500	93
Hexachlorobutadiene	ND	2,500	61
4-Chloro-3-methylphenol	ND	2,500	64
2-Methylnaphthalene	ND	490	73
Hexachlorocyclopentadiene	ND	4,900	560
2,4,6-Trichlorophenol	ND	2,500	81
2,4,5-Trichlorophenol	ND	2,500	68
2-Chloronaphthalene	ND	2,500	57
2-Nitroaniline	ND	4,900	250
Dimethylphthalate	ND	2,500	53
Acenaphthylene	ND	490	61
2,6-Dinitrotoluene	ND	2,500	250
3-Nitroaniline	ND	4,900	53
Acenaphthene	ND	490	49
2,4-Dinitrophenol	ND	4,900	360
4-Nitrophenol	ND	4,900	52
Dibenzofuran	ND	2,500	62
2,4-Dinitrotoluene	ND	2,500	61
Diethylphthalate	ND	2,500	62
Fluorene	ND	490	59
4-Chlorophenyl-phenylether	ND	2,500	62
4-Nitroaniline	ND	4,900	78
4,6-Dinitro-2-methylphenol	ND	4,900	260
N-Nitrosodiphenylamine	ND	2,500	58
Azobenzene	ND	2,500	51
4-Bromophenyl-phenylether	ND	2,500	59
Hexachlorobenzene	ND	2,500	50

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-5SW-1.0	Batch#:	221013
Lab ID:	265056-004	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	7.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	4,900	760
Phenanthrene	470 J	490	60
Anthracene	ND	490	66
Di-n-butylphthalate	ND	2,500	70
Fluoranthene	690	490	69
Pyrene	510	490	54
Butylbenzylphthalate	ND	2,500	71
3,3'-Dichlorobenzidine	ND	4,900	580
Benzo(a)anthracene	270 J	490	49
Chrysene	360 J	490	60
bis(2-Ethylhexyl)phthalate	ND	2,500	63
Di-n-octylphthalate	ND	2,500	250
Benzo(b)fluoranthene	320 J	490	43
Benzo(k)fluoranthene	120 J	490	44
Benzo(a)pyrene	200 J	490	44
Indeno(1,2,3-cd)pyrene	120 J	490	56
Dibenz(a,h)anthracene	ND	490	54
Benzo(g,h,i)perylene	170 J	490	61

Surrogate	%REC	Limits
2-Fluorophenol	80	25-120
Phenol-d5	84	36-120
2,4,6-Tribromophenol	89	27-120
Nitrobenzene-d5	78	44-120
2-Fluorobiphenyl	96	47-120
Terphenyl-d14	87	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-6SW-2.3	Batch#:	221013
Lab ID:	265056-005	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Moisture: 13%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	25
Phenol	ND	380	17
bis(2-Chloroethyl)ether	ND	380	18
2-Chlorophenol	ND	380	16
1,3-Dichlorobenzene	ND	380	15
1,4-Dichlorobenzene	ND	380	8.3
Benzyl alcohol	ND	380	19
1,2-Dichlorobenzene	ND	380	12
2-Methylphenol	ND	380	16
bis(2-Chloroisopropyl) ether	ND	380	18
4-Methylphenol	ND	380	18
N-Nitroso-di-n-propylamine	ND	380	17
Hexachloroethane	ND	380	12
Nitrobenzene	ND	380	10
Isophorone	ND	380	12
2-Nitrophenol	ND	760	44
2,4-Dimethylphenol	ND	380	21
Benzoic acid	ND	1,900	430
bis(2-Chloroethoxy)methane	ND	380	12
2,4-Dichlorophenol	ND	380	11
1,2,4-Trichlorobenzene	ND	380	9.6
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	14
Hexachlorobutadiene	ND	380	9.5
4-Chloro-3-methylphenol	ND	380	9.9
2-Methylnaphthalene	ND	76	11
Hexachlorocyclopentadiene	ND	760	86
2,4,6-Trichlorophenol	ND	380	13
2,4,5-Trichlorophenol	ND	380	10
2-Chloronaphthalene	ND	380	8.8
2-Nitroaniline	ND	760	38
Dimethylphthalate	ND	380	8.2
Acenaphthylene	ND	76	9.4
2,6-Dinitrotoluene	ND	380	38
3-Nitroaniline	ND	760	8.2
Acenaphthene	ND	76	7.6
2,4-Dinitrophenol	ND	760	56
4-Nitrophenol	ND	760	8.1
Dibenzofuran	ND	380	9.6
2,4-Dinitrotoluene	ND	380	9.5
Diethylphthalate	ND	380	9.5
Fluorene	ND	76	9.1
4-Chlorophenyl-phenylether	ND	380	9.6
4-Nitroaniline	ND	760	12
4,6-Dinitro-2-methylphenol	ND	760	40
N-Nitrosodiphenylamine	ND	380	8.9
Azobenzene	ND	380	7.9
4-Bromophenyl-phenylether	ND	380	9.2
Hexachlorobenzene	ND	380	7.8
Pentachlorophenol	ND	760	120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-6SW-2.3	Batch#:	221013
Lab ID:	265056-005	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	76	9.2
Anthracene	ND	76	10
Di-n-butylphthalate	ND	380	11
Fluoranthene	ND	76	11
Pyrene	ND	76	8.3
Butylbenzylphthalate	ND	380	11
3,3'-Dichlorobenzidine	ND	760	90
Benzo(a)anthracene	ND	76	7.6
Chrysene	ND	76	9.3
bis(2-Ethylhexyl)phthalate	ND	380	9.7
Di-n-octylphthalate	ND	380	39
Benzo(b)fluoranthene	ND	76	6.6
Benzo(k)fluoranthene	ND	76	6.8
Benzo(a)pyrene	ND	76	6.7
Indeno(1,2,3-cd)pyrene	ND	76	8.7
Dibenz(a,h)anthracene	ND	76	8.4
Benzo(g,h,i)perylene	ND	76	9.4

Surrogate	%REC	Limits
2-Fluorophenol	65	25-120
Phenol-d5	70	36-120
2,4,6-Tribromophenol	83	27-120
Nitrobenzene-d5	65	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	70	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-7SW-2.0	Batch#:	221013
Lab ID:	265056-006	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Moisture: 13%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	25
Phenol	ND	380	17
bis(2-Chloroethyl)ether	ND	380	18
2-Chlorophenol	ND	380	16
1,3-Dichlorobenzene	ND	380	15
1,4-Dichlorobenzene	ND	380	8.3
Benzyl alcohol	ND	380	19
1,2-Dichlorobenzene	ND	380	12
2-Methylphenol	ND	380	16
bis(2-Chloroisopropyl) ether	ND	380	18
4-Methylphenol	ND	380	18
N-Nitroso-di-n-propylamine	ND	380	17
Hexachloroethane	ND	380	12
Nitrobenzene	ND	380	10
Isophorone	ND	380	12
2-Nitrophenol	ND	760	44
2,4-Dimethylphenol	ND	380	21
Benzoic acid	ND	1,900	430
bis(2-Chloroethoxy)methane	ND	380	12
2,4-Dichlorophenol	ND	380	11
1,2,4-Trichlorobenzene	ND	380	9.7
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	14
Hexachlorobutadiene	ND	380	9.5
4-Chloro-3-methylphenol	ND	380	9.9
2-Methylnaphthalene	ND	76	11
Hexachlorocyclopentadiene	ND	760	87
2,4,6-Trichlorophenol	ND	380	13
2,4,5-Trichlorophenol	ND	380	10
2-Chloronaphthalene	ND	380	8.8
2-Nitroaniline	ND	760	38
Dimethylphthalate	ND	380	8.2
Acenaphthylene	ND	76	9.5
2,6-Dinitrotoluene	ND	380	38
3-Nitroaniline	ND	760	8.2
Acenaphthene	ND	76	7.6
2,4-Dinitrophenol	ND	760	56
4-Nitrophenol	ND	760	8.1
Dibenzofuran	ND	380	9.6
2,4-Dinitrotoluene	ND	380	9.5
Diethylphthalate	ND	380	9.6
Fluorene	ND	76	9.1
4-Chlorophenyl-phenylether	ND	380	9.6
4-Nitroaniline	ND	760	12
4,6-Dinitro-2-methylphenol	ND	760	40
N-Nitrosodiphenylamine	ND	380	8.9
Azobenzene	ND	380	8.0
4-Bromophenyl-phenylether	ND	380	9.2
Hexachlorobenzene	ND	380	7.8
Pentachlorophenol	ND	760	120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-7SW-2.0	Batch#:	221013
Lab ID:	265056-006	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	76	9.2
Anthracene	ND	76	10
Di-n-butylphthalate	ND	380	11
Fluoranthene	ND	76	11
Pyrene	ND	76	8.3
Butylbenzylphthalate	ND	380	11
3,3'-Dichlorobenzidine	ND	760	90
Benzo(a)anthracene	ND	76	7.6
Chrysene	ND	76	9.3
bis(2-Ethylhexyl)phthalate	ND	380	9.7
Di-n-octylphthalate	ND	380	39
Benzo(b)fluoranthene	ND	76	6.6
Benzo(k)fluoranthene	ND	76	6.8
Benzo(a)pyrene	ND	76	6.7
Indeno(1,2,3-cd)pyrene	ND	76	8.7
Dibenz(a,h)anthracene	ND	76	8.4
Benzo(g,h,i)perylene	ND	76	9.4

Surrogate	%REC	Limits
2-Fluorophenol	75	25-120
Phenol-d5	78	36-120
2,4,6-Tribromophenol	83	27-120
Nitrobenzene-d5	77	44-120
2-Fluorobiphenyl	69	47-120
Terphenyl-d14	73	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-1B-4.5	Batch#:	221013
Lab ID:	265056-007	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	24
Phenol	ND	380	17
bis(2-Chloroethyl)ether	ND	380	18
2-Chlorophenol	ND	380	16
1,3-Dichlorobenzene	ND	380	15
1,4-Dichlorobenzene	ND	380	8.2
Benzyl alcohol	ND	380	18
1,2-Dichlorobenzene	ND	380	12
2-Methylphenol	ND	380	16
bis(2-Chloroisopropyl) ether	ND	380	18
4-Methylphenol	ND	380	18
N-Nitroso-di-n-propylamine	ND	380	17
Hexachloroethane	ND	380	12
Nitrobenzene	ND	380	10
Isophorone	ND	380	11
2-Nitrophenol	ND	750	44
2,4-Dimethylphenol	ND	380	21
Benzoic acid	ND	1,900	430
bis(2-Chloroethoxy)methane	ND	380	12
2,4-Dichlorophenol	ND	380	10
1,2,4-Trichlorobenzene	ND	380	9.6
Naphthalene	ND	75	15
4-Chloroaniline	ND	380	14
Hexachlorobutadiene	ND	380	9.4
4-Chloro-3-methylphenol	ND	380	9.8
2-Methylnaphthalene	ND	75	11
Hexachlorocyclopentadiene	ND	750	86
2,4,6-Trichlorophenol	ND	380	12
2,4,5-Trichlorophenol	ND	380	10
2-Chloronaphthalene	ND	380	8.7
2-Nitroaniline	ND	750	38
Dimethylphthalate	ND	380	8.1
Acenaphthylene	ND	75	9.4
2,6-Dinitrotoluene	ND	380	38
3-Nitroaniline	ND	750	8.1
Acenaphthene	ND	75	7.5
2,4-Dinitrophenol	ND	750	55
4-Nitrophenol	ND	750	8.0
Dibenzofuran	ND	380	9.5
2,4-Dinitrotoluene	ND	380	9.4
Diethylphthalate	ND	380	9.4
Fluorene	ND	75	9.0
4-Chlorophenyl-phenylether	ND	380	9.5
4-Nitroaniline	ND	750	12
4,6-Dinitro-2-methylphenol	ND	750	39
N-Nitrosodiphenylamine	ND	380	8.8
Azobenzene	ND	380	7.9
4-Bromophenyl-phenylether	ND	380	9.1
Hexachlorobenzene	ND	380	7.7

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-1B-4.5	Batch#:	221013
Lab ID:	265056-007	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	750	120
Phenanthrene	ND	75	9.1
Anthracene	ND	75	10
Di-n-butylphthalate	ND	380	11
Fluoranthene	ND	75	11
Pyrene	8.7 J	75	8.2
Butylbenzylphthalate	ND	380	11
3,3'-Dichlorobenzidine	ND	750	89
Benzo(a)anthracene	ND	75	7.6
Chrysene	ND	75	9.2
bis(2-Ethylhexyl)phthalate	ND	380	9.6
Di-n-octylphthalate	ND	380	38
Benzo(b)fluoranthene	ND	75	6.6
Benzo(k)fluoranthene	ND	75	6.7
Benzo(a)pyrene	ND	75	6.7
Indeno(1,2,3-cd)pyrene	ND	75	8.6
Dibenz(a,h)anthracene	ND	75	8.3
Benzo(g,h,i)perylene	ND	75	9.3

Surrogate	%REC	Limits
2-Fluorophenol	71	25-120
Phenol-d5	73	36-120
2,4,6-Tribromophenol	72	27-120
Nitrobenzene-d5	72	44-120
2-Fluorobiphenyl	64	47-120
Terphenyl-d14	68	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779503	Batch#:	221013
Matrix:	Soil	Prepared:	03/04/15
Units:	ug/Kg	Analyzed:	03/05/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	13
Phenol	ND	330	17
bis(2-Chloroethyl)ether	ND	330	13
2-Chlorophenol	ND	330	16
1,3-Dichlorobenzene	ND	330	7.6
1,4-Dichlorobenzene	ND	330	10
Benzyl alcohol	ND	330	16
1,2-Dichlorobenzene	ND	330	9.5
2-Methylphenol	ND	330	15
bis(2-Chloroisopropyl) ether	ND	330	18
4-Methylphenol	ND	330	18
N-Nitroso-di-n-propylamine	ND	330	11
Hexachloroethane	ND	330	8.2
Nitrobenzene	ND	330	7.8
Isophorone	ND	330	11
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	310
bis(2-Chloroethoxy)methane	ND	330	12
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	9.7
Naphthalene	ND	67	8.8
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	61
4-Chloro-3-methylphenol	ND	330	15
2-Methylnaphthalene	ND	67	9.9
Hexachlorocyclopentadiene	ND	670	61
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	8.8
2-Chloronaphthalene	ND	330	55
2-Nitroaniline	ND	670	8.0
Dimethylphthalate	ND	330	9.4
Acenaphthylene	ND	67	8.5
2,6-Dinitrotoluene	ND	330	8.8
3-Nitroaniline	ND	670	11
Acenaphthene	ND	67	6.9
2,4-Dinitrophenol	ND	670	41
4-Nitrophenol	ND	670	69
Dibenzofuran	ND	330	8.8
2,4-Dinitrotoluene	ND	330	9.7
Diethylphthalate	ND	330	8.5
Fluorene	ND	67	8.9
4-Chlorophenyl-phenylether	ND	330	9.8
4-Nitroaniline	ND	670	7.9
4,6-Dinitro-2-methylphenol	ND	670	42
N-Nitrosodiphenylamine	ND	330	56
Azobenzene	ND	330	7.2
4-Bromophenyl-phenylether	ND	330	59
Hexachlorobenzene	ND	330	7.3
Pentachlorophenol	ND	670	150
Phenanthrene	ND	67	9.6
Anthracene	ND	67	6.9
Di-n-butylphthalate	ND	330	8.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779503	Batch#:	221013
Matrix:	Soil	Prepared:	03/04/15
Units:	ug/Kg	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	8.6
Pyrene	ND	67	9.4
Butylbenzylphthalate	ND	330	8.3
3,3'-Dichlorobenzidine	ND	670	43
Benzo(a)anthracene	ND	67	8.6
Chrysene	ND	67	6.8
bis(2-Ethylhexyl)phthalate	ND	330	8.7
Di-n-octylphthalate	ND	330	8.4
Benzo(b)fluoranthene	ND	67	8.2
Benzo(k)fluoranthene	ND	67	8.7
Benzo(a)pyrene	ND	67	8.7
Indeno(1,2,3-cd)pyrene	ND	67	8.1
Dibenz(a,h)anthracene	ND	67	6.9
Benzo(g,h,i)perylene	ND	67	8.6

Surrogate	%REC	Limits
2-Fluorophenol	96	25-120
Phenol-d5	105	36-120
2,4,6-Tribromophenol	67	27-120
Nitrobenzene-d5	90	44-120
2-Fluorobiphenyl	83	47-120
Terphenyl-d14	83	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC779504	Batch#:	221013
Matrix:	Soil	Prepared:	03/04/15
Units:	ug/Kg	Analyzed:	03/05/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,707	2,164	80	42-120
2-Chlorophenol	2,707	2,178	80	45-120
1,4-Dichlorobenzene	2,707	2,239	83	48-120
N-Nitroso-di-n-propylamine	2,707	2,123	78	27-123
1,2,4-Trichlorobenzene	2,707	2,272	84	50-120
4-Chloro-3-methylphenol	2,707	2,628	97	59-120
Acenaphthene	1,015	909.8	90	53-120
4-Nitrophenol	2,707	2,555	94	47-120
2,4-Dinitrotoluene	2,707	2,625	97	55-120
Pentachlorophenol	2,707	2,660	98	32-120
Pyrene	1,015	960.5	95	52-120

Surrogate	%REC	Limits
2-Fluorophenol	74	25-120
Phenol-d5	78	36-120
2,4,6-Tribromophenol	106	27-120
Nitrobenzene-d5	72	44-120
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	84	49-120

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Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-4SW-0.9	Batch#:	221013
MSS Lab ID:	265056-003	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	ug/Kg	Prepared:	03/04/15
Basis:	dry	Analyzed:	03/05/15
Diln Fac:	5.000		

Type: MS Moisture: 4%
Lab ID: QC779505

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<77.10	2,795	2,157	77	47-120
2-Chlorophenol	<71.62	2,795	2,254	81	44-120
1,4-Dichlorobenzene	<37.61	2,795	2,271	81	49-120
N-Nitroso-di-n-propylamine	<78.00	2,795	2,112	76	42-120
1,2,4-Trichlorobenzene	<43.56	2,795	2,409	86	54-120
4-Chloro-3-methylphenol	<44.51	2,795	2,292	82	55-120
Acenaphthene	<34.37	1,048	871.0	83	51-120
4-Nitrophenol	<36.39	2,795	2,133	76	36-120
2,4-Dinitrotoluene	<42.81	2,795	2,139	77	52-120
Pentachlorophenol	<527.1	2,795	2,152	77	14-120
Pyrene	619.7	1,048	1,660	99	46-124

Surrogate	%REC	Limits
2-Fluorophenol	73	25-120
Phenol-d5	76	36-120
2,4,6-Tribromophenol	88	27-120
Nitrobenzene-d5	70	44-120
2-Fluorobiphenyl	79	47-120
Terphenyl-d14	77	49-120

Type: MSD Moisture: 4%
Lab ID: QC779506

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,824	2,266	80	47-120	4	39
2-Chlorophenol	2,824	2,396	85	44-120	5	38
1,4-Dichlorobenzene	2,824	2,440	86	49-120	6	45
N-Nitroso-di-n-propylamine	2,824	2,185	77	42-120	2	40
1,2,4-Trichlorobenzene	2,824	2,528	90	54-120	4	38
4-Chloro-3-methylphenol	2,824	2,403	85	55-120	4	41
Acenaphthene	1,059	911.6	86	51-120	4	47
4-Nitrophenol	2,824	2,087	74	36-120	3	41
2,4-Dinitrotoluene	2,824	2,166	77	52-120	0	40
Pentachlorophenol	2,824	2,116	75	14-120	3	53
Pyrene	1,059	1,648	97	46-124	1	50

Surrogate	%REC	Limits
2-Fluorophenol	78	25-120
Phenol-d5	81	36-120
2,4,6-Tribromophenol	93	27-120
Nitrobenzene-d5	74	44-120
2-Fluorobiphenyl	82	47-120
Terphenyl-d14	81	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-2SW-1.3	Diln Fac:	1.000
Lab ID:	265056-001	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 4%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.52	0.15	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	4.5	0.26	0.075	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	96	0.26	0.055	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	0.013	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	3.2	0.26	0.026	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	50	0.26	0.065	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	6.4	0.26	0.031	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	35	0.26	0.086	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	430	0.26	0.072	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.25	0.017	0.00094	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	0.92	0.26	0.050	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	25	0.26	0.068	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.52	0.16	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.40	0.26	0.041	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.52	0.14	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	26	0.26	0.059	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	170	1.0	0.058	221007	03/05/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-3SW-1.2	Basis:	dry
Lab ID:	265056-002	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15

Moisture: 9%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	4.2	0.55	0.16	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	35	0.27	0.080	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	700	27	5.9	100.0	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.34	0.11	0.014	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	4.7	0.27	0.028	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	390	0.27	0.069	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	15	0.27	0.033	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	180	0.27	0.092	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	4,200	27	7.7	100.0	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.79	0.017	0.00094	1.000	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	3.4	0.27	0.054	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	53	0.27	0.072	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.18	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.41	0.27	0.044	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.15	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	29	0.27	0.063	1.000	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	1,500	110	6.2	100.0	221007	03/05/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-4SW-0.9	Diln Fac:	1.000
Lab ID:	265056-003	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 4%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.48	0.14	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	9.8	0.24	0.069	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	160	0.24	0.051	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.23	0.096	0.012	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	2.0	0.24	0.024	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	56	0.24	0.060	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	9.8	0.24	0.029	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	59	0.24	0.080	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	460	0.24	0.067	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.72	0.017	0.00095	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	1.2	0.24	0.047	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	36	0.24	0.063	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.48	0.15	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.37	0.24	0.038	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.48	0.13	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	36	0.24	0.054	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	280	0.96	0.054	221007	03/05/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-5SW-1.0	Diln Fac:	1.000
Lab ID:	265056-004	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 6%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	1.4	0.51	0.15	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	28	0.25	0.074	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	150	0.25	0.054	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.24	0.10	0.013	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	4.3	0.25	0.026	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	76	0.25	0.064	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	14	0.25	0.030	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	58	0.25	0.084	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	360	0.25	0.071	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.33	0.017	0.00096	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	2.8	0.25	0.049	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	48	0.25	0.067	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.51	0.16	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	1.0	0.25	0.040	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.51	0.14	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	53	0.25	0.058	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	300	1.0	0.057	221007	03/05/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-6SW-2.3	Diln Fac:	1.000
Lab ID:	265056-005	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 13%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.58	0.17	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	8.4	0.29	0.084	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	230	0.29	0.062	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.57	0.12	0.014	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	1.1	0.29	0.030	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	66	0.29	0.073	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	13	0.29	0.035	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	28	0.29	0.097	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	42	0.29	0.081	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.15	0.020	0.0011	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	0.74	0.29	0.057	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	96	0.29	0.076	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.58	0.19	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.12 J	0.29	0.046	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	0.16 J	0.58	0.16	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	39	0.29	0.066	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	81	1.2	0.065	221007	03/05/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-7SW-2.0	Diln Fac:	1.000
Lab ID:	265056-006	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 13%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.56	0.17	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	6.2	0.28	0.082	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	190	0.28	0.060	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.50	0.11	0.014	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	1.2	0.28	0.029	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	66	0.28	0.071	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	13	0.28	0.034	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	28	0.28	0.094	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	180	0.28	0.078	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.21	0.019	0.0011	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	0.82	0.28	0.055	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	90	0.28	0.074	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.18	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.10 J	0.28	0.045	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.16	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	35	0.28	0.064	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	93	1.1	0.063	221007	03/05/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265056	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Former Allied Engineering
Field ID:	TBL1-1B-4.5	Diln Fac:	1.000
Lab ID:	265056-007	Sampled:	03/04/15
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15
Basis:	dry		

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.53	0.16	221007	03/05/15	EPA 3050B	EPA 6010B
Arsenic	6.2	0.26	0.076	221007	03/05/15	EPA 3050B	EPA 6010B
Barium	89	0.26	0.056	221007	03/05/15	EPA 3050B	EPA 6010B
Beryllium	0.31	0.11	0.013	221007	03/05/15	EPA 3050B	EPA 6010B
Cadmium	0.85	0.26	0.027	221007	03/05/15	EPA 3050B	EPA 6010B
Chromium	31	0.26	0.066	221007	03/05/15	EPA 3050B	EPA 6010B
Cobalt	6.6	0.26	0.031	221007	03/05/15	EPA 3050B	EPA 6010B
Copper	19	0.26	0.088	221007	03/05/15	EPA 3050B	EPA 6010B
Lead	30	0.26	0.073	221007	03/05/15	EPA 3050B	EPA 6010B
Mercury	0.16	0.019	0.0011	220997	03/04/15	METHOD	EPA 7471A
Molybdenum	0.56	0.26	0.051	221007	03/05/15	EPA 3050B	EPA 6010B
Nickel	36	0.26	0.069	221007	03/05/15	EPA 3050B	EPA 6010B
Selenium	ND	0.53	0.17	221007	03/05/15	EPA 3050B	EPA 6010B
Silver	0.35	0.26	0.042	221007	03/05/15	EPA 3050B	EPA 6010B
Thallium	ND	0.53	0.15	221007	03/05/15	EPA 3050B	EPA 6010B
Vanadium	37	0.26	0.060	221007	03/05/15	EPA 3050B	EPA 6010B
Zinc	73	1.1	0.059	221007	03/05/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	220997
Lab ID:	QC779423	Prepared:	03/04/15
Matrix:	Soil	Analyzed:	03/04/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	220997
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/04/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779424	0.2083	0.2219	107	80-120		
BSD	QC779425	0.2083	0.2241	108	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	220997
MSS Lab ID:	265011-001	Sampled:	03/03/15
Matrix:	Soil	Received:	03/03/15
Units:	mg/Kg	Prepared:	03/04/15
Basis:	as received	Analyzed:	03/04/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779426	0.01674	0.2119	0.2474	109	69-142		
MSD	QC779427		0.2119	0.2425	107	69-142	2	36

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779472	Batch#:	221007
Matrix:	Soil	Prepared:	03/04/15
Units:	mg/Kg	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	ND	1.0	0.056

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221007
Units:	mg/Kg	Prepared:	03/04/15
Diln Fac:	5.000	Analyzed:	03/05/15

Type: BS Lab ID: QC779473

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	49.24	98	80-120
Arsenic	50.00	51.34	103	80-120
Barium	50.00	50.73	101	80-120
Beryllium	50.00	49.78	100	80-120
Cadmium	50.00	53.16	106	80-120
Chromium	50.00	51.69	103	80-120
Cobalt	50.00	49.60	99	80-120
Copper	50.00	49.58	99	80-120
Lead	50.00	46.64	93	80-120
Molybdenum	50.00	49.22	98	80-120
Nickel	50.00	50.76	102	80-120
Selenium	50.00	48.88	98	80-120
Silver	50.00	50.18	100	80-120
Thallium	50.00	48.00	96	80-120
Vanadium	50.00	53.26	107	80-120
Zinc	50.00	50.29	101	80-120

Type: BSD Lab ID: QC779474

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	44.50	89	80-120	10	20
Arsenic	50.00	46.29	93	80-120	10	20
Barium	50.00	45.62	91	80-120	11	20
Beryllium	50.00	45.09	90	80-120	10	20
Cadmium	50.00	47.51	95	80-120	11	20
Chromium	50.00	46.28	93	80-120	11	20
Cobalt	50.00	44.48	89	80-120	11	20
Copper	50.00	44.42	89	80-120	11	20
Lead	50.00	42.67	85	80-120	9	20
Molybdenum	50.00	45.09	90	80-120	9	20
Nickel	50.00	45.68	91	80-120	11	20
Selenium	50.00	43.68	87	80-120	11	20
Silver	50.00	45.00	90	80-120	11	20
Thallium	50.00	43.55	87	80-120	10	20
Vanadium	50.00	47.75	95	80-120	11	20
Zinc	50.00	44.34	89	80-120	13	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Diln Fac:	10.00
MSS Lab ID:	265038-001	Batch#:	221007
Matrix:	Soil	Sampled:	03/04/15
Units:	mg/Kg	Received:	03/04/15
Basis:	as received	Prepared:	03/04/15

Type: MS Lab ID: QC779475

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Antimony	<1.643	51.02	13.19	26	15-120	03/04/15
Arsenic	1.998	51.02	47.19	89	69-120	03/04/15
Barium	130.5	51.02	171.2	80	35-154	03/04/15
Beryllium	0.4071	51.02	49.82	97	75-120	03/04/15
Cadmium	1.416	51.02	50.52	96	71-120	03/04/15
Chromium	162.1	51.02	192.6	60	57-133	03/04/15
Cobalt	25.91	51.02	72.93	92	56-125	03/04/15
Copper	52.85	51.02	97.58	88	54-144	03/05/15
Lead	103.9	51.02	129.1	49 *	53-125	03/04/15
Molybdenum	0.6442	51.02	43.44	84	66-120	03/04/15
Nickel	131.7	51.02	163.2	62	44-141	03/04/15
Selenium	<1.755	51.02	36.05	71	61-120	03/04/15
Silver	1.163	51.02	47.93	92	69-120	03/04/15
Thallium	<1.543	51.02	46.48	91	59-120	03/04/15
Vanadium	120.3	51.02	161.1	80	52-144	03/04/15
Zinc	64.69	51.02	105.1	79	45-145	03/04/15

Type: MSD Lab ID: QC779476

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	48.54	14.45	30	15-120	14	41	03/04/15
Arsenic	48.54	50.66	100	69-120	12	35	03/04/15
Barium	48.54	194.4	132	35-154	14	36	03/04/15
Beryllium	48.54	56.50	116	75-120	17	20	03/04/15
Cadmium	48.54	55.23	111	71-120	14	25	03/04/15
Chromium	48.54	248.3	178 *	57-133	26	33	03/04/15
Cobalt	48.54	80.21	112	56-125	13	36	03/04/15
Copper	48.54	73.05	42 *	54-144	26	38	03/05/15
Lead	48.54	145.4	85	53-125	14	42	03/04/15
Molybdenum	48.54	46.35	94	66-120	11	20	03/04/15
Nickel	48.54	214.0	170 *	44-141	28	39	03/04/15
Selenium	48.54	41.02	85	61-120	18	33	03/04/15
Silver	48.54	55.05	111	69-120	19	22	03/04/15
Thallium	48.54	49.67	102	59-120	12	27	03/04/15
Vanadium	48.54	197.3	159 *	52-144	22	29	03/04/15
Zinc	48.54	122.8	120	45-145	18	39	03/04/15

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

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Moisture

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	221015
Matrix:	Soil	Sampled:	03/04/15
Units:	%	Received:	03/04/15
Diln Fac:	1.000	Analyzed:	03/04/15

Field ID	Lab ID	Result	RL
TBL1-2SW-1.3	265056-001	4	1
TBL1-3SW-1.2	265056-002	9	1
TBL1-4SW-0.9	265056-003	4	1
TBL1-5SW-1.0	265056-004	6	1
TBL1-6SW-2.3	265056-005	13	1
TBL1-7SW-2.0	265056-006	13	1
TBL1-1B-4.5	265056-007	11	1

RL= Reporting Limit

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Batch QC Report

Moisture

Lab #:	265056	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	TBL1-2SW-1.3	Diln Fac:	1.000
Type:	SDUP	Batch#:	221015
MSS Lab ID:	265056-001	Sampled:	03/04/15
Lab ID:	QC779512	Received:	03/04/15
Matrix:	Soil	Analyzed:	03/04/15

MSS Result	Result	RL	RPD	Lim
3.669	3.720	1.000	1	26

RL= Reporting Limit
RPD= Relative Percent Difference

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Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265085
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
TRENCH1-1SW-1.2	265085-001
TRENCH1-2SW-1.2	265085-002
TRENCH1-3SW-1.2	265085-003
TRENCH1-4SW-1.2	265085-004
TRENCH1-5SW-1.2	265085-005
TRENCH1-6SW-1.2	265085-006
TRENCH1-1B-2.4	265085-007
TRENCH1-2B-2.4	265085-008
TB-030515	265085-009
EB-030515	265085-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/10/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265085**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/05/15**
Samples Received:	**03/05/15**

This data package contains sample and QC results for seven soil samples, two water samples, and one three-point soil composite, requested for the above referenced project on 03/05/15. The samples were received cold and intact. Some sample preservation was done upon receipt; see the attached receipt form.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
No analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221050; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221050; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221072; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:
Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 221055; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:
A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C) Water:
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C) Soil:
TRENCH1-2SW-1.2 (lab # 265085-002), TRENCH1-3SW-1.2 (lab # 265085-003), and TRENCH1-4SW-1.2 (lab # 265085-004) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A) Water:
Zinc was detected between the MDL and the RL in the method blank for batch 221025; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265085**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/05/15**
Samples Received:	**03/05/15**

Metals (EPA 6010B and EPA 7471A) Soil:
Zinc was detected between the MDL and the RL in the method blank for batch 221066; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 265085

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 task 02002
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☒ RUSH 24 hr TAT ☐ Standard

Sampler: C. Kyler
Report To: B. Deshields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl/MeOH	H2SO4	HNO3	NaOH	None	TPH g by 8015	TPH d by 8015	TPH mo by 8015	SVOCs by 8270	Title 22 metals	MS/MSD	Full list 8260 VOCs	PCBs HOLD	Hexavalent Chromium HOLD	VOCs HOLD
1	TRENCH1-1SW-1.2	3/5/15	1057		X	5	1				4	X	X	X	X	X					
2	TRENCH1-2SW-1.2	↓	1105		↓	↓	↓				↓	↓	↓	↓	↓	↓					
3	TRENCH1-3SW-1.2	↓	1130		↓	↓	↓				↓	↓	↓	↓	↓	↓					
4	TRENCH1-4SW-1.2	↓	1215		↓	↓	↓				↓	↓	↓	↓	↓	↓					
5	TRENCH1-5SW-1.2	↓	1230		↓	↓	↓				↓	↓	↓	↓	↓	↓					
6	TRENCH1-6SW-1.2	↓	1250		↓	↓	↓				↓	↓	↓	↓	↓	↓					
7	TRENCH1-2B-2.4	↓	1145		↓	↓	↓				↓	X	X	X	X	X					
8	TRENCH1-2B-2.4	↓	1240		↓	↓	↓				↓	X	X	X	X	X	X				
9	TB-030515	3/5/15	0000	X		1			1			X						X			
10	EB-030515	3/5/15	1500			14			6		8	X	X	X	X	X		X	X	X	X

Notes:
- Total metals for EB-030515
- Report all to MDL
- EDFs required
- Report in dry weight w/ % moisture
- Lab to homogenize all jars for VOCs
- Lab to homogenize MS/MSD jars together w/ parent sample (TRENCH1-2B-2.4 → homogenize all 3 jars together then analyze)

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
Stephen Sherman — DATE: 3/5/15 TIME: 1630
DATE: 3/5/15 TIME: 1718
DATE: TIME:

RECEIVED BY:
DATE: 3/5/15 TIME: 1630
DATE: 3/5/15 TIME: 1718
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 245085 Date Received 3/5/15 Number of coolers 2
Client Integral Project C1374

Date Opened 3/5 By (print) FJ (sign)
Date Logged in " By (print) " (sign) "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.9, 3.4

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ (YES) NO
   If YES, what time were they transferred to freezer? 1800
9. Did all bottles arrive unbroken/unopened? ____ (YES) NO
10. Are there any missing / extra samples? ____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? ____ (YES) NO
12. Are sample labels present, in good condition and complete? ____ (YES) NO
13. Do the sample labels agree with custody papers? ____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? ____ (YES) NO
15. Are the samples appropriately preserved? ____ YES (NO) N/A
16. Did you check preservatives for all bottles for each sample? ____ (YES) NO N/A
17. Did you document your preservative check? ____ (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ (YES) NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS
(5) Added HNO_3 (# JB99763) on 3/5/15 @1745 to sample -010 to pH<2

Rev 10, 9/12

Curtis & Tompkins Sample Preservation for 265085

Sample	pH: <2	>9	>12	Other
-010a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
c	[ ]	[ ]	[ ]	_____
d	[ ]	[ ]	[ ]	_____
e	[ ]	[ ]	[ ]	_____
f	[ ]	[ ]	[ ]	_____
g	[X]	[ ]	[ ]	_____
h	[ ]	[ ]	[ ]	_____
i	[ ]	[ ]	[ ]	_____
j	[ ]	[ ]	[ ]	_____
k	[ ]	[ ]	[ ]	_____
l	[ ]	[ ]	[ ]	_____
m	[ ]	[ ]	[ ]	_____
n	[ ]	[ ]	[ ]	_____

Analyst: FO
Date: 3/5/15

Page 1 of 1

Curtis & Tompkins, Ltd.

Detections Summary for 265085

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TRENCH1-1SW-1.2 Laboratory Sample ID : 265085-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.20	J	0.44	0.028	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	66	Y	2.2	0.67	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	250		11	3.3	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Phenanthrene	43	J	72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	72		72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	83		72	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	32	J	72	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	43	J	72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	50	J	72	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	31	J	72	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	29	J	72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	36	J	72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	14		0.30	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	190		0.30	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.45		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.4		0.30	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	52		0.30	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	13		0.30	0.036	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	58		0.30	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	310		0.30	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.38		0.017	0.00096	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	4.1		0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	71		0.30	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.056	J	0.30	0.048	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.28	J	0.60	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	52		0.30	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	170		1.2	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TRENCH1-2SW-1.2 Laboratory Sample ID : 265085-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.71	Y	0.48	0.031	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	120	Y	5.6	1.7	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	420		28	8.5	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Benzo(b)fluoranthene	170	J	380	79	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	100	J	380	74	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Arsenic	3.7		0.30	0.086	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	700		30	6.4	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Beryllium	0.24		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	3.2		0.30	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	300		0.30	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	20		0.30	0.035	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	69		0.30	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	5,100		30	8.2	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.96		0.034	0.0019	mg/Kg	Dry	2.000	EPA 7471A	METHOD
Molybdenum	3.4		0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	54		0.30	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.40		0.30	0.047	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	95		0.30	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	510		1.2	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : TRENCH1-3SW-1.2 Laboratory Sample ID : 265085-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.10	J	0.34	0.022	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	56	Y	5.1	1.6	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	210		25	7.7	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Arsenic	4.3		0.27	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	87		0.27	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.19		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.4		0.27	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	230		0.27	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	16		0.27	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	56		0.27	0.090	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	1,800		27	7.5	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.43		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	2.2		0.27	0.052	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	45		0.27	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.35		0.27	0.043	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	100		0.27	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	340		1.1	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH1-4SW-1.2 Laboratory Sample ID : 265085-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.086	J	0.34	0.025	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	890	Y	23	6.9	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550B
Motor Oil C24-C36	1,400		110	34	mg/Kg	Dry	20.00	EPA 8015B	EPA 3550B
Naphthalene	910	J	1,900	360	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Acenaphthylene	9,200		1,900	360	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Fluorene	1,200	J	1,900	330	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Phenanthrene	55,000		1,900	420	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Anthracene	6,300		1,900	350	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Fluoranthene	100,000		5,700	1,100	ug/Kg	Dry	75.00	EPA 8270C	EPA 3550B
Pyrene	130,000		5,700	990	ug/Kg	Dry	75.00	EPA 8270C	EPA 3550B
Benzo(a)anthracene	40,000		1,900	330	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Chrysene	47,000		1,900	410	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	65,000		5,700	1,200	ug/Kg	Dry	75.00	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	23,000		5,700	1,500	ug/Kg	Dry	75.00	EPA 8270C	EPA 3550B
Benzo(a)pyrene	43,000		1,900	440	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	35,000		1,900	420	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	5,400		1,900	410	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	40,000		1,900	370	ug/Kg	Dry	25.00	EPA 8270C	EPA 3550B
Arsenic	4.4		0.28	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	220		0.28	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.24		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.0		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	33		0.28	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	5.7		0.28	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	33		0.28	0.092	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	1,100		28	7.7	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.23		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.63		0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	22		0.28	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.23	J	0.28	0.044	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	23		0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	200		1.1	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH1-5SW-1.2 Laboratory Sample ID : 265085-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.057	J	0.33	0.021	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	69	Y	1.4	0.44	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	260		7.1	2.2	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Naphthalene	29	J	97	19	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Acenaphthylene	82	J	97	12	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	320		97	12	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Anthracene	53	J	97	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	670		97	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	680		97	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	210		97	9.8	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	340		97	12	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	13	J	480	12	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	450		97	8.5	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	150		97	8.6	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	260		97	8.6	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	320		97	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	50	J	97	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	430		97	12	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	6.9		0.37	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	440		0.37	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.34		0.15	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	9.9		0.37	0.038	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	1,100		37	9.4	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Cobalt	17		0.37	0.045	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	75		0.37	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	2,700		37	10	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.49		0.022	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	2.7		0.37	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	45		0.37	0.098	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.51	J	0.74	0.21	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	40		0.37	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	3,100		150	8.3	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH1-6SW-1.2 Laboratory Sample ID : 265085-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.092	J	0.38	0.024	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.0	Y	1.5	0.47	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	16		7.7	2.3	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	18	J	100	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	45	J	100	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	48	J	100	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	17	J	100	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	21	J	100	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	34	J	100	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	21	J	100	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	26	J	100	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	36	J	100	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	7.2		0.40	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	260		0.40	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.50		0.16	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.9		0.40	0.041	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	6.8		0.40	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.40	0.048	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	47		0.40	0.13	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	74		0.40	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.13		0.027	0.0015	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.43		0.40	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	5.2		0.40	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.28	J	0.40	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	66		0.40	0.092	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	99		1.6	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH1-1B-2.4 Laboratory Sample ID : 265085-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.048	J	0.25	0.019	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	19	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	120		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	44	J	74	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	44	J	74	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	43	J	74	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	23	J	74	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	37	J	74	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	39	J	74	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	22	J	74	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	16	J	74	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	5.7		0.26	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	150		0.26	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.48		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.96		0.26	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	35		0.26	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.8		0.26	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	36		0.27	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	110		0.26	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.47		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.55		0.26	0.052	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	43		0.26	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.25	J	0.26	0.042	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	35		0.26	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	92		1.1	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH1-2B-2.4 Laboratory Sample ID : 265085-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.043	J	0.24	0.015	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	9.8	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	63		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
2-Methylnaphthalene	12	J	75	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	26	J	75	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	43	J	75	9.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	46	J	75	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	16	J	75	9.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	31	J	75	7.6	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	37	J	75	9.3	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	20	J	75	9.8	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	14	J	75	9.1	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	17	J	75	9.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	7.4		0.29	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	460		0.29	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.41		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.95		0.29	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	40		0.29	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.29	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	50		0.29	0.096	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	68		0.29	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.43		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.56		0.29	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	52		0.29	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.28	J	0.29	0.046	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	41		0.29	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	72		1.1	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : TB-030515 Laboratory Sample ID : 265085-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	21	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B

Client Sample ID : EB-030515 Laboratory Sample ID : 265085-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	14	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	28	J	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	221032
Units:	ug/L	Sampled:	03/05/15
Diln Fac:	1.000	Received:	03/05/15

Field ID:	TB-030515	Lab ID:	265085-009
Type:	SAMPLE	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	21 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	80-132

Field ID:	EB-030515	Lab ID:	265085-010
Type:	SAMPLE	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	14 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	80-132

Type:	BLANK	Analyzed:	03/05/15
Lab ID:	QC779575		

Analyte	Result	RL	MDL
Gasoline C7-C12	ND	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	80-132

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	221032
Units:	ug/L	Analyzed:	03/05/15
Diln Fac:	1.000		

Type: BS Lab ID: QC779573

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,014	101	80-120

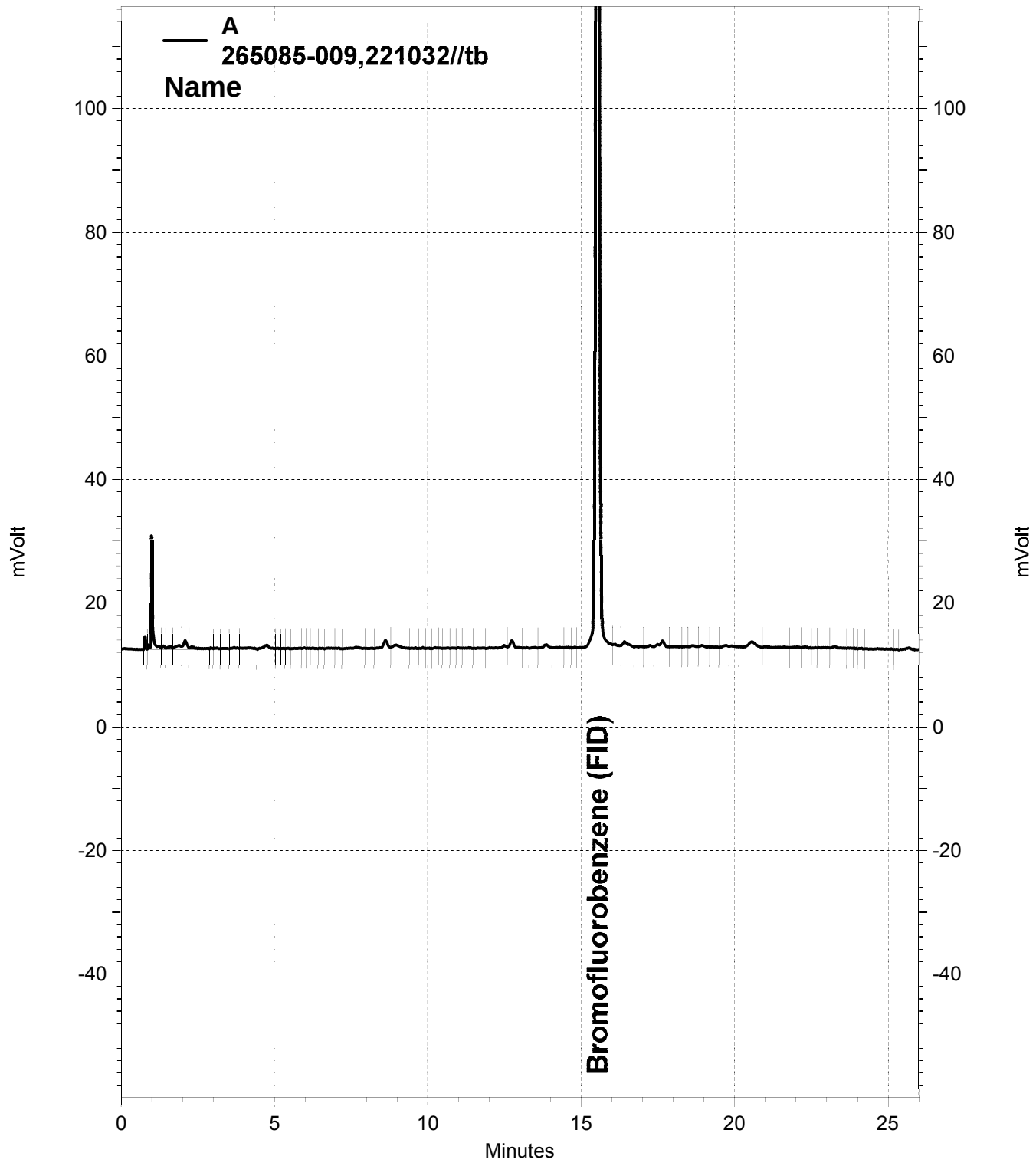
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	80-132

Type: BSD Lab ID: QC779574

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,001	100	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	80-132

RPD= Relative Percent Difference



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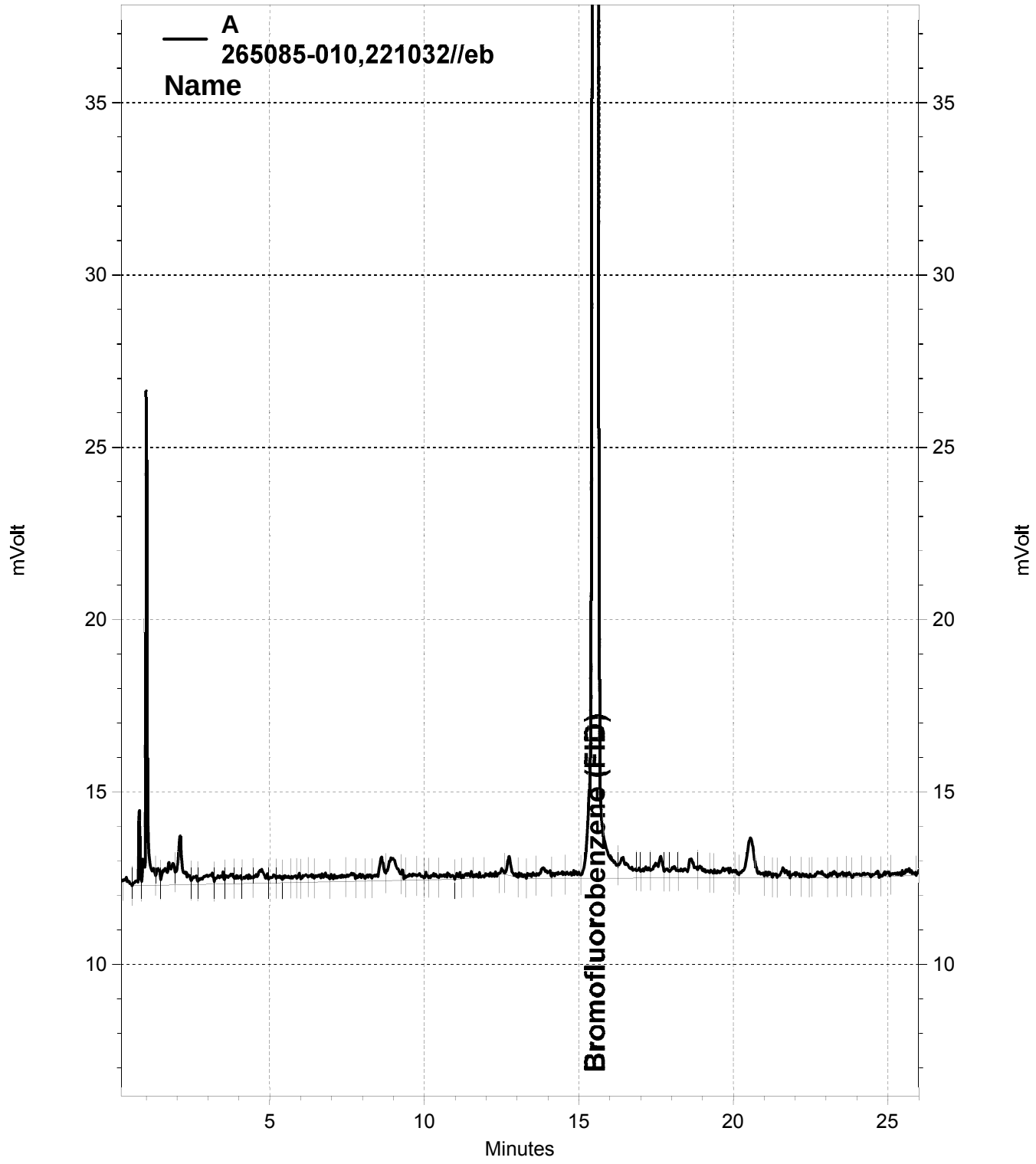

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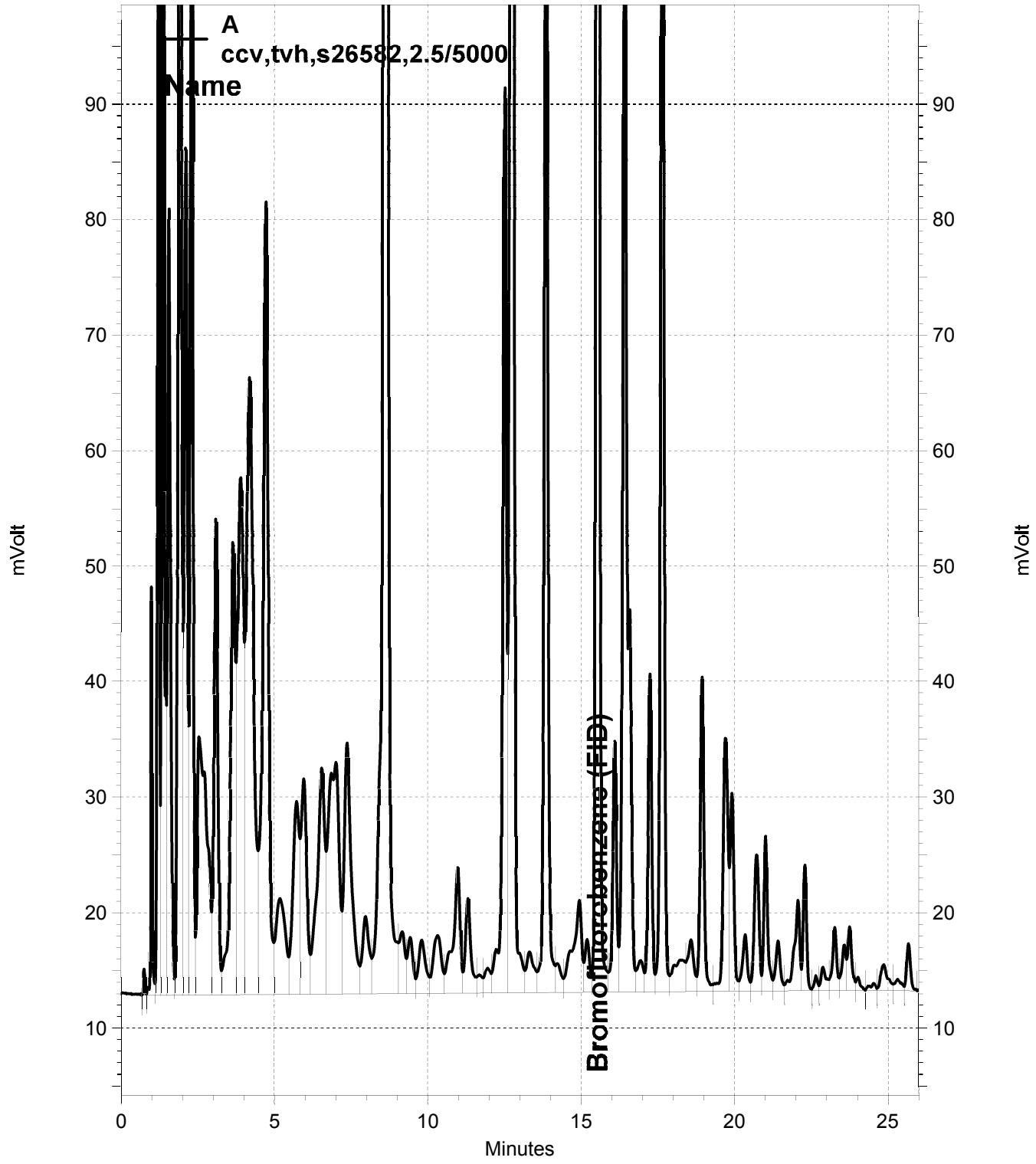

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Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Dilu Fac:	1.000
Units:	mg/Kg	Sampled:	03/05/15
Basis:	dry	Received:	03/05/15

Field ID:	TRENCH1-1SW-1.2	Moisture:	9%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-001	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.20 J	0.44	0.028

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

Field ID:	TRENCH1-2SW-1.2	Moisture:	12%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-002	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.71 Y	0.48	0.031

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

Field ID:	TRENCH1-3SW-1.2	Moisture:	2%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-003	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.10 J	0.34	0.022

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	78-138

Field ID:	TRENCH1-4SW-1.2	Moisture:	11%
Type:	SAMPLE	Batch#:	221072
Lab ID:	265085-004	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.086 J	0.34	0.025

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/05/15
Basis:	dry	Received:	03/05/15

Field ID:	TRENCH1-5SW-1.2	Moisture:	30%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-005	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.057 J	0.33	0.021

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Field ID:	TRENCH1-6SW-1.2	Moisture:	35%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-006	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.092 J	0.38	0.024

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	78-138

Field ID:	TRENCH1-1B-2.4	Moisture:	11%
Type:	SAMPLE	Batch#:	221072
Lab ID:	265085-007	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.048 J	0.25	0.019

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Field ID:	TRENCH1-2B-2.4	Moisture:	11%
Type:	SAMPLE	Batch#:	221050
Lab ID:	265085-008	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.043 J	0.24	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/05/15
Basis:	dry	Received:	03/05/15

Type:	BLANK	Batch#:	221050
Lab ID:	QC779646	Analyzed:	03/05/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	78-138

Type:	BLANK	Batch#:	221050
Lab ID:	QC779925	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.032 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	80	78-138

Type:	BLANK	Batch#:	221072
Lab ID:	QC779787	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Gasoline C7-C12	0.029 J	0.20	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	221050

Type: BS Analyzed: 03/05/15
Lab ID: QC779644

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.143	114	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Type: BSD Analyzed: 03/06/15
Lab ID: QC779645

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	3.000	3.561	119	80-121	4	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221072
Units:	mg/Kg	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: BS Lab ID: QC779727

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9219	92	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	78-138

Type: BSD Lab ID: QC779728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9973	100	80-121	8	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	265088-001	Batch#:	221072
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	as received	Analyzed:	03/06/15

Type: MS Lab ID: QC779729

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2766	9.091	8.916	95	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

Type: MSD Lab ID: QC779730

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.64	10.05	92	50-120	3	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TRENCH1-2B-2.4	Diln Fac:	1.000
MSS Lab ID:	265085-008	Batch#:	221050
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry		

Type:	MS	Moisture:	11%
Lab ID:	QC779797	Analyzed:	03/06/15

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.04285	2.247	1.633	71	50-120

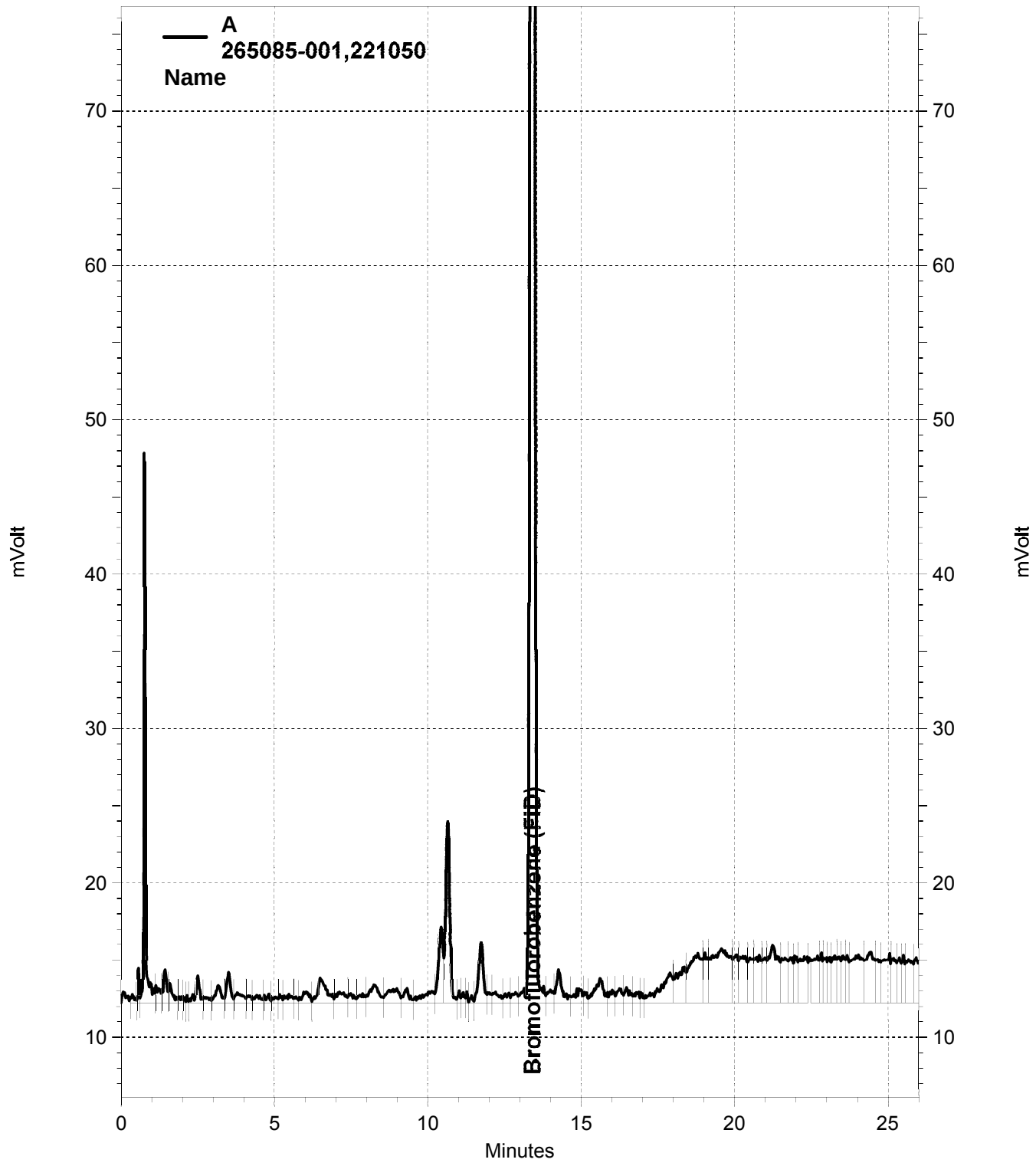
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

Type:	MSD	Moisture:	11%
Lab ID:	QC779798	Analyzed:	03/07/15

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.247	1.796	78	50-120	10	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	78-138

RPD= Relative Percent Difference



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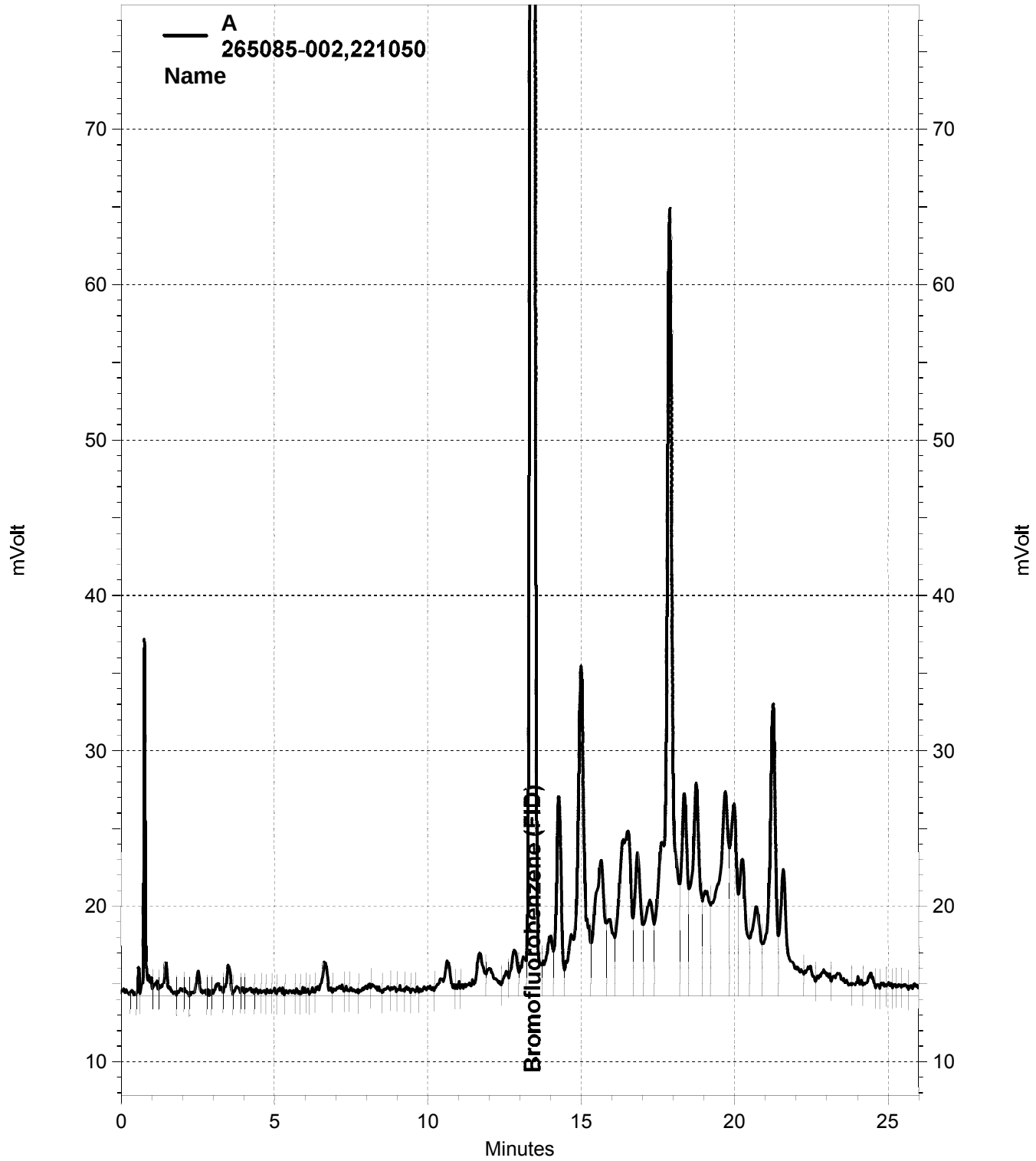

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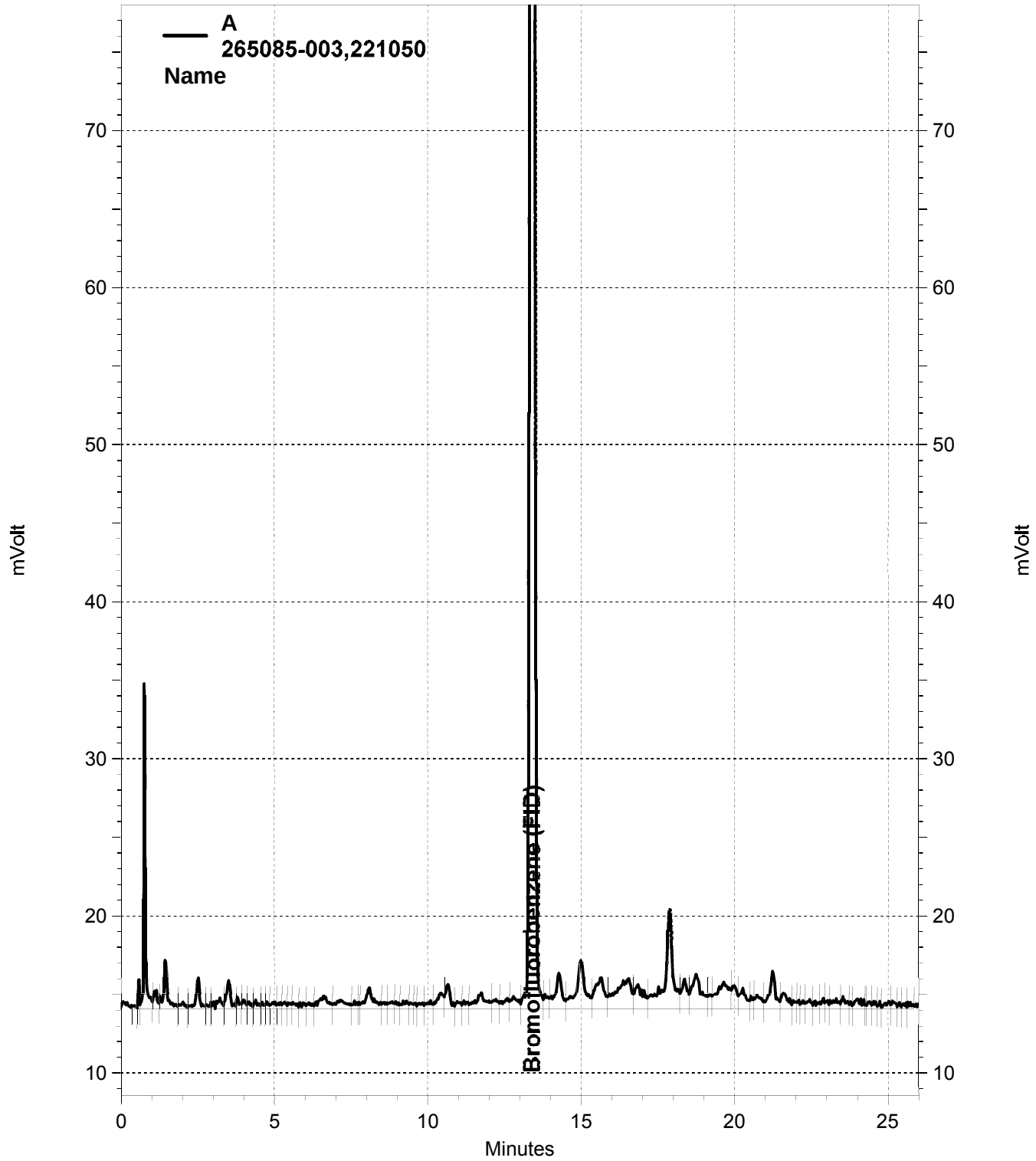

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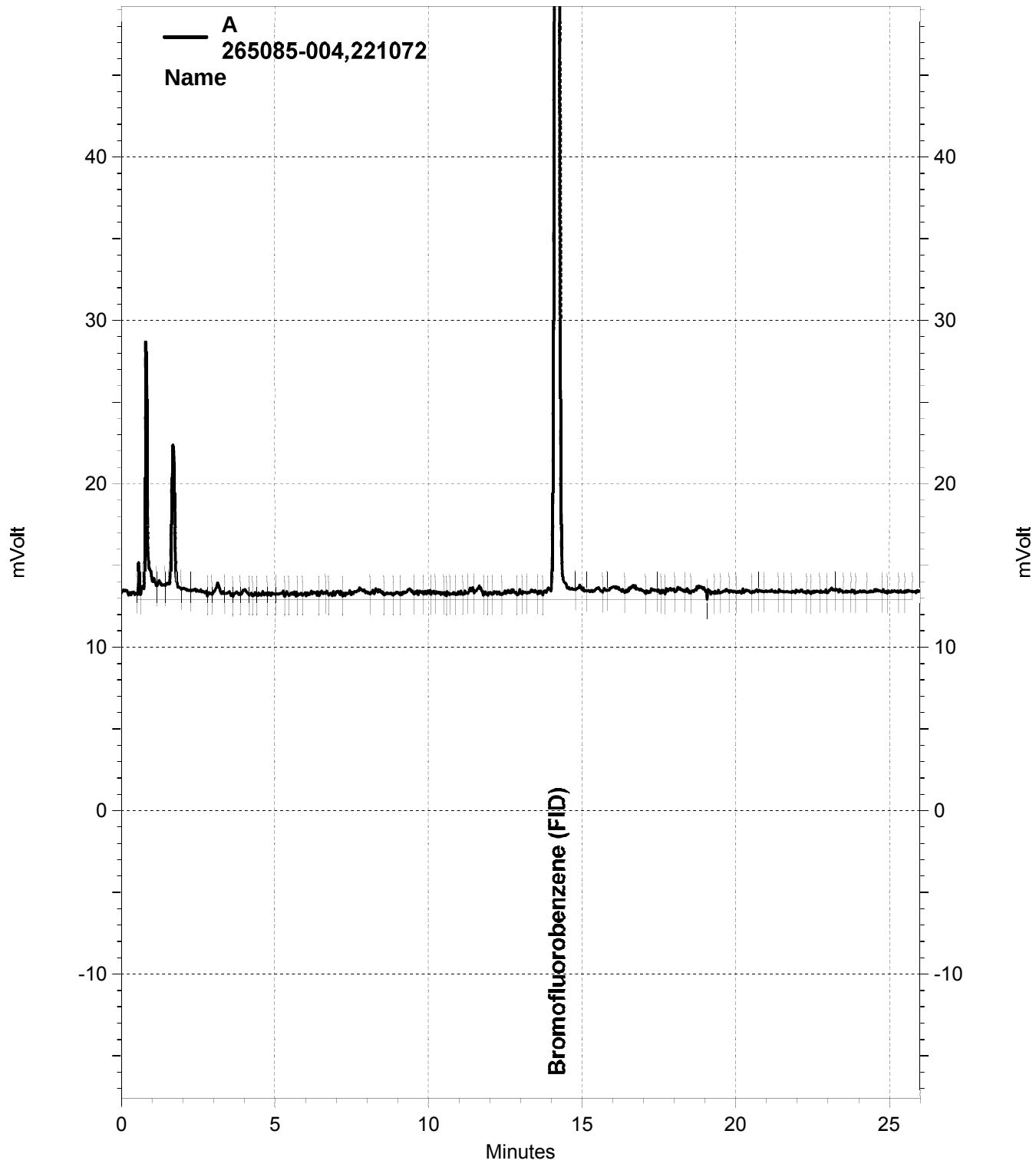

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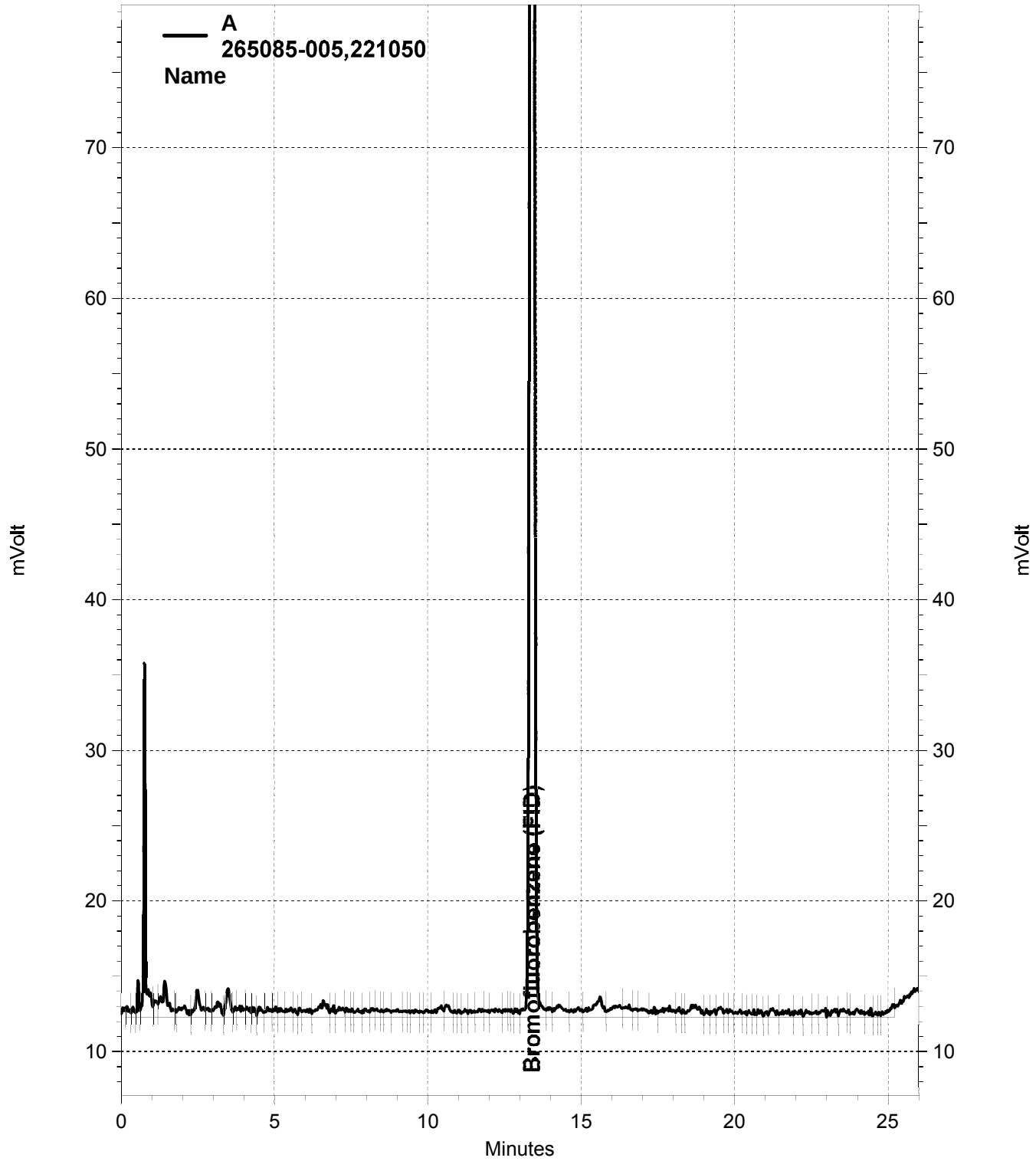

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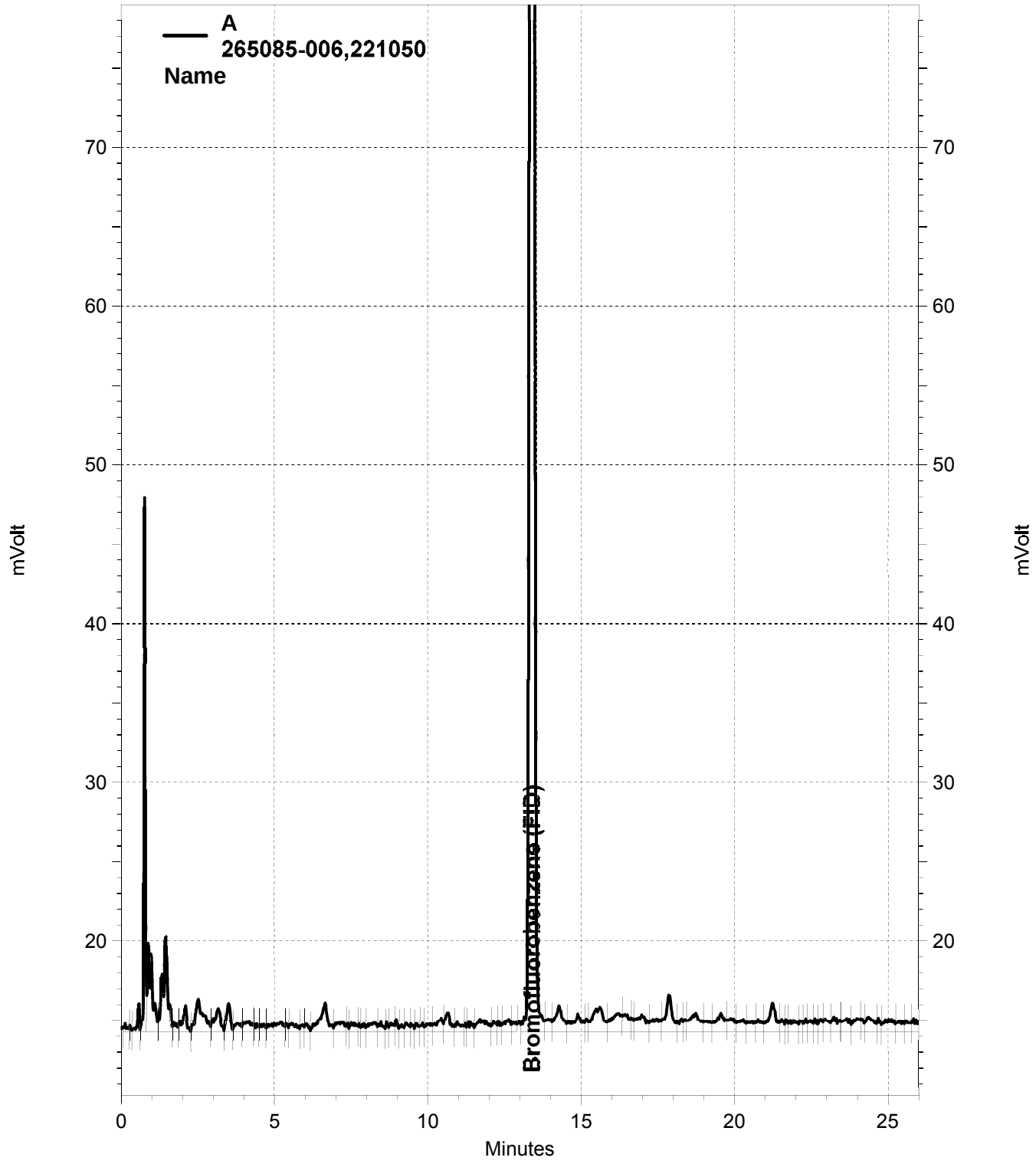

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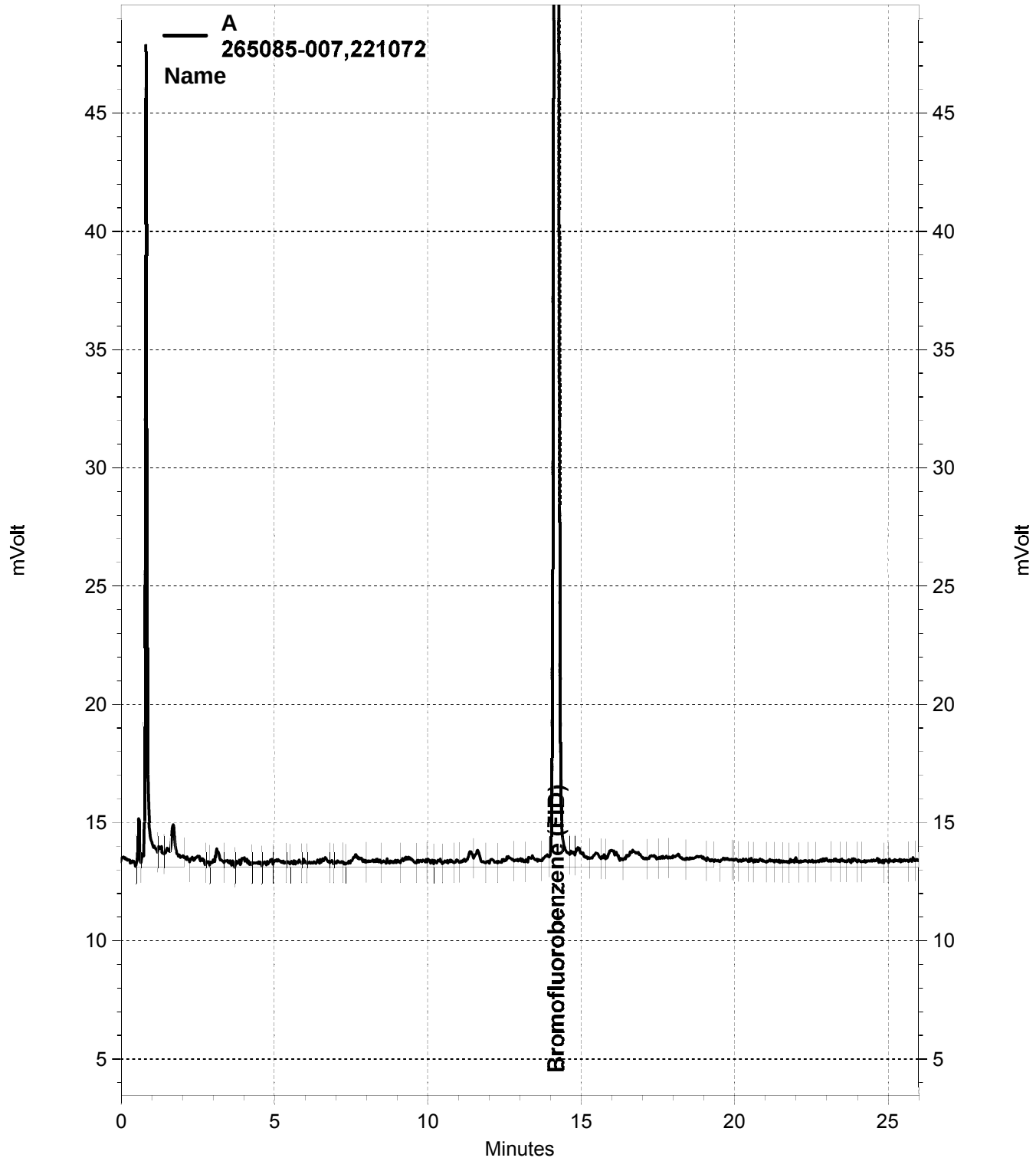

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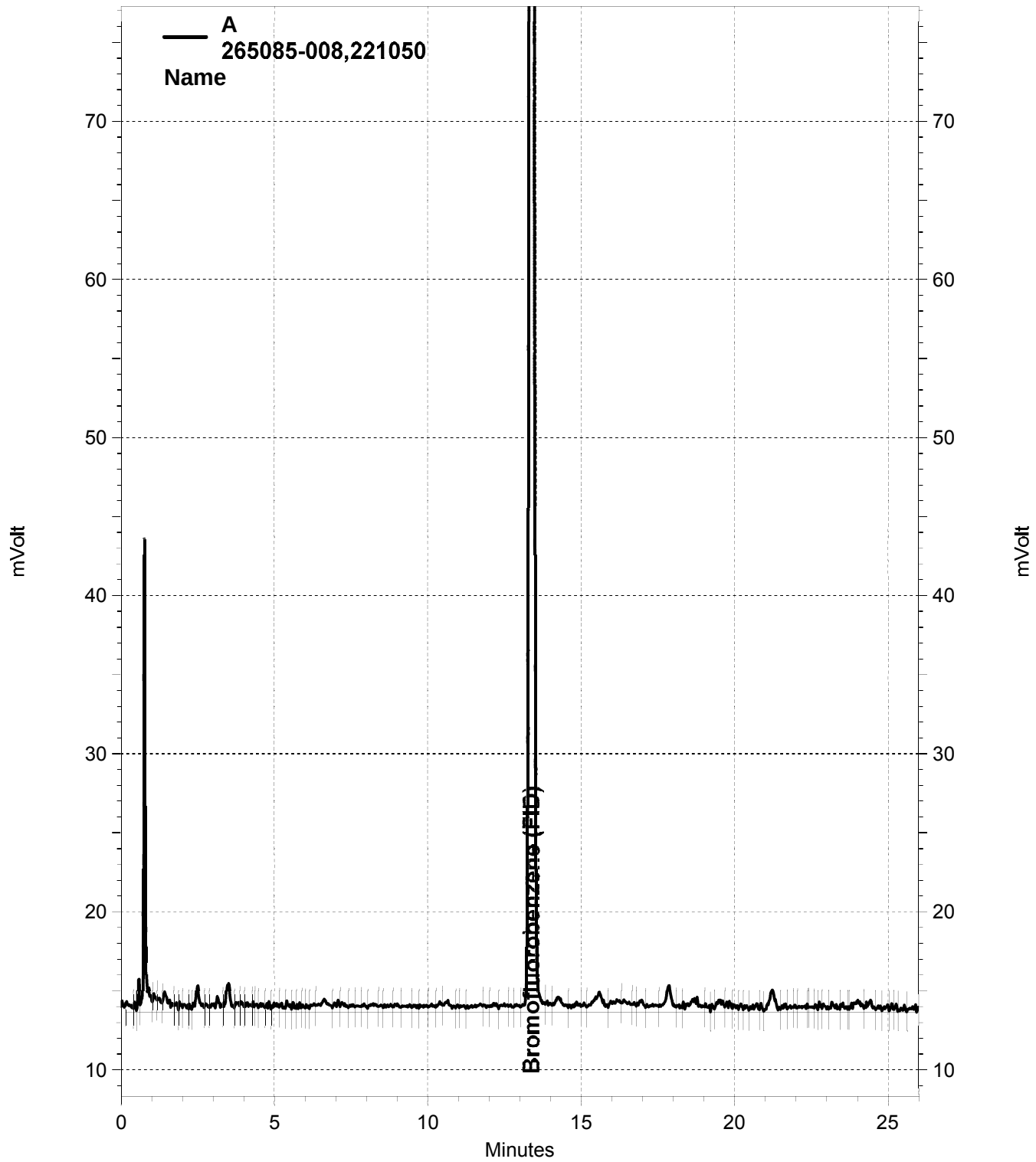

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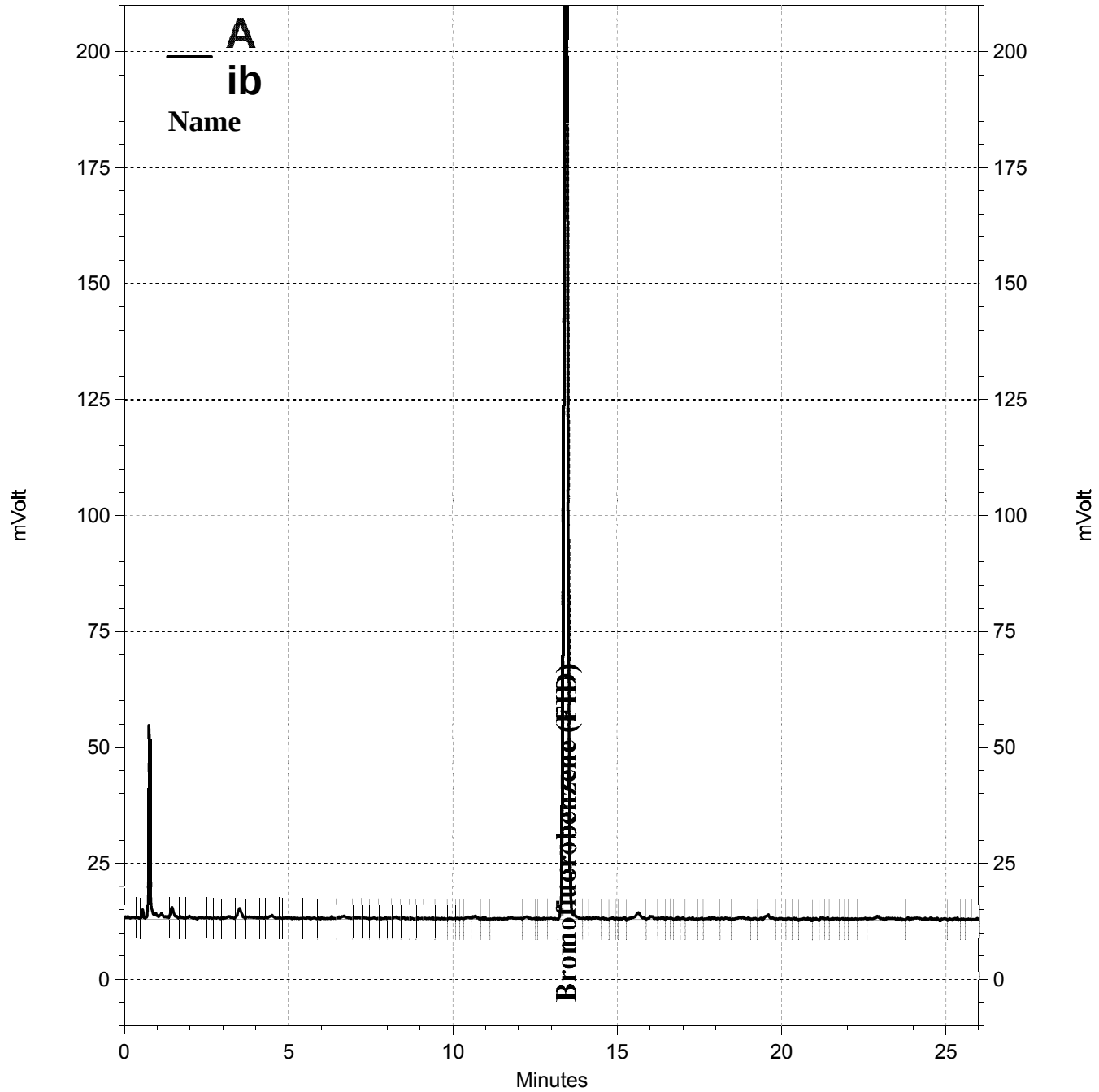

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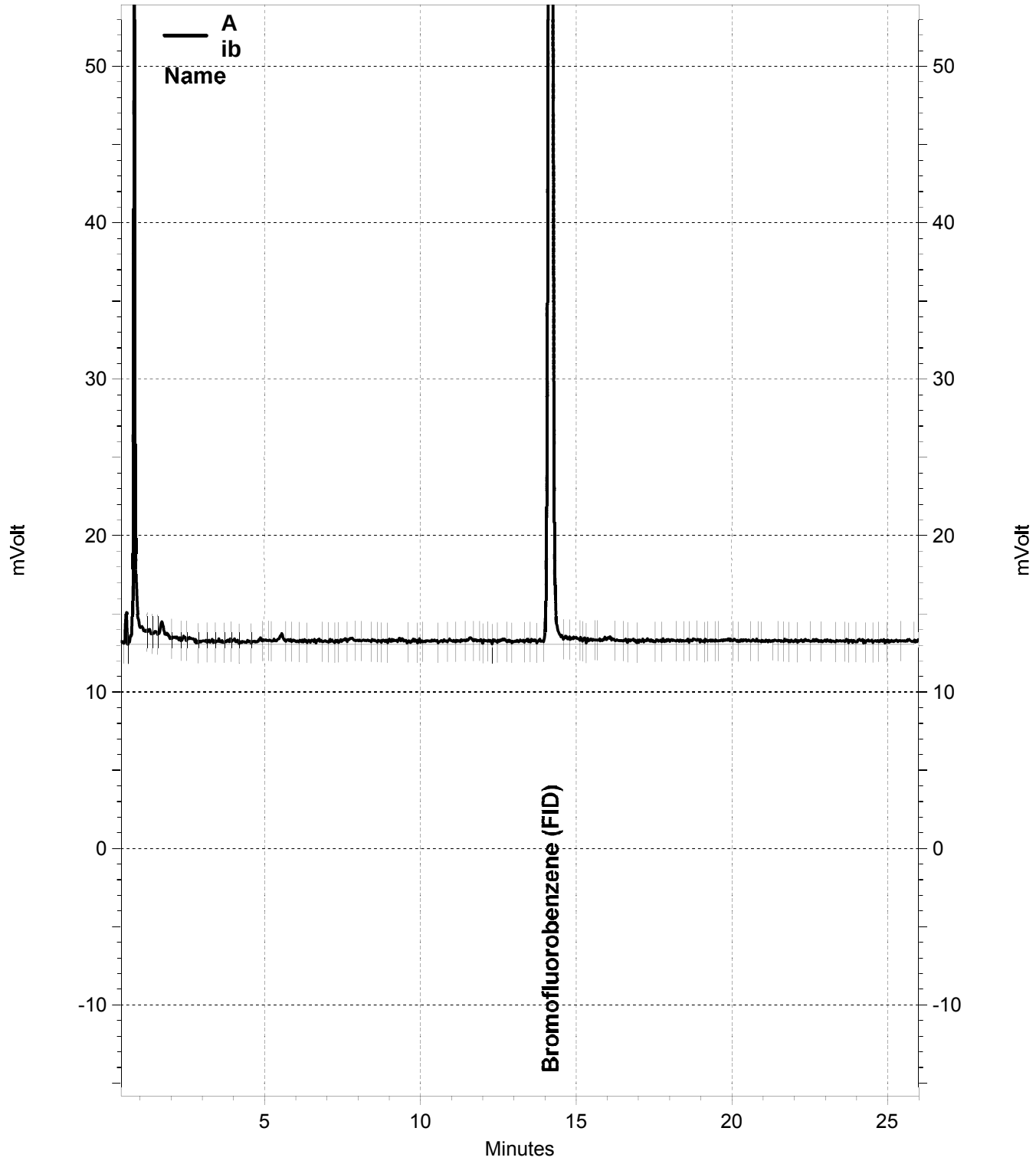

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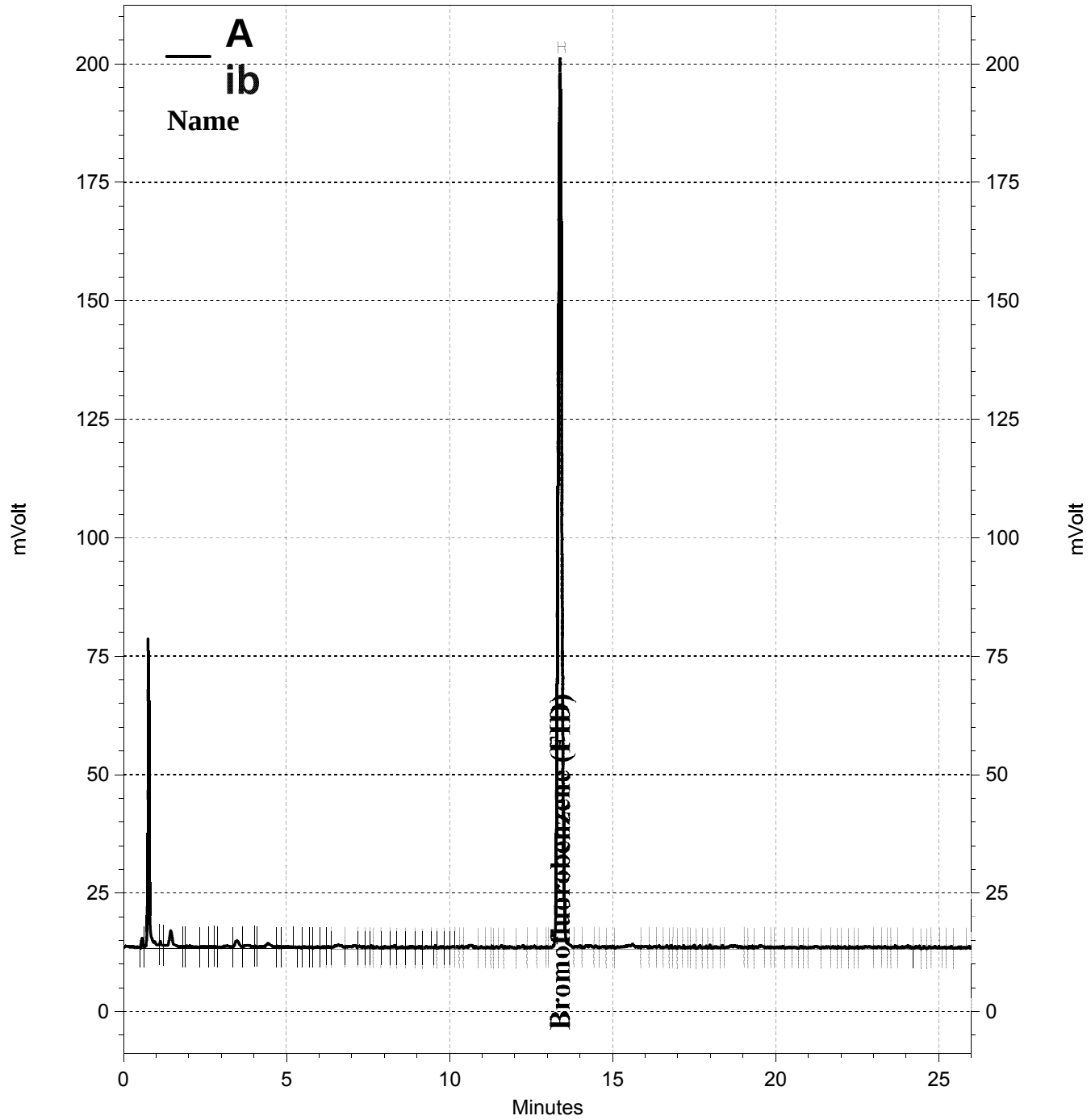

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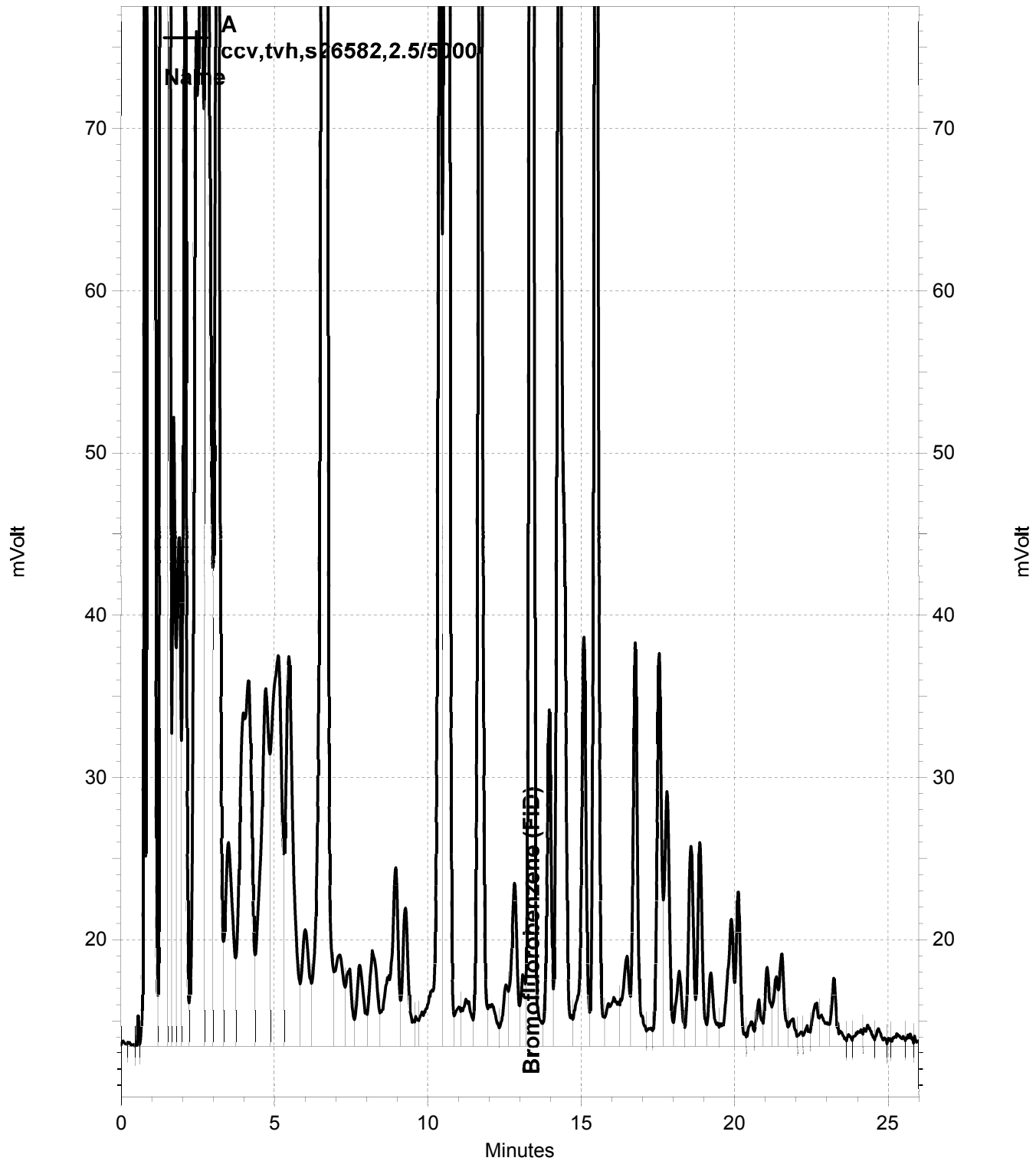

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	EB-030515	Sampled:	03/05/15
Matrix:	Water	Received:	03/05/15
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000	Analyzed:	03/06/15
Batch#:	221055		

Type: SAMPLE Lab ID: 265085-010

Analyte	Result	RL	MDL
Diesel C10-C24	28 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	96	67-136

Type: BLANK Lab ID: QC779670

Analyte	Result	RL	MDL
Diesel C10-C24	32 J	50	16
Motor Oil C24-C36	ND	300	96

Surrogate	%REC	Limits
o-Terphenyl	87	67-136

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	221055
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000	Analyzed:	03/06/15

Type: BS Lab ID: QC779671

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,044	82	60-121

Surrogate	%REC	Limits
o-Terphenyl	86	67-136

Type: BSD Lab ID: QC779672

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,073	83	60-121	1	32

Surrogate	%REC	Limits
o-Terphenyl	94	67-136

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	221055
MSS Lab ID:	265055-010	Sampled:	03/04/15
Matrix:	Water	Received:	03/04/15
Units:	ug/L	Prepared:	03/06/15
Diln Fac:	1.000	Analyzed:	03/09/15

Type: MS Lab ID: QC779799

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	35.12	2,632	2,359	88	55-122

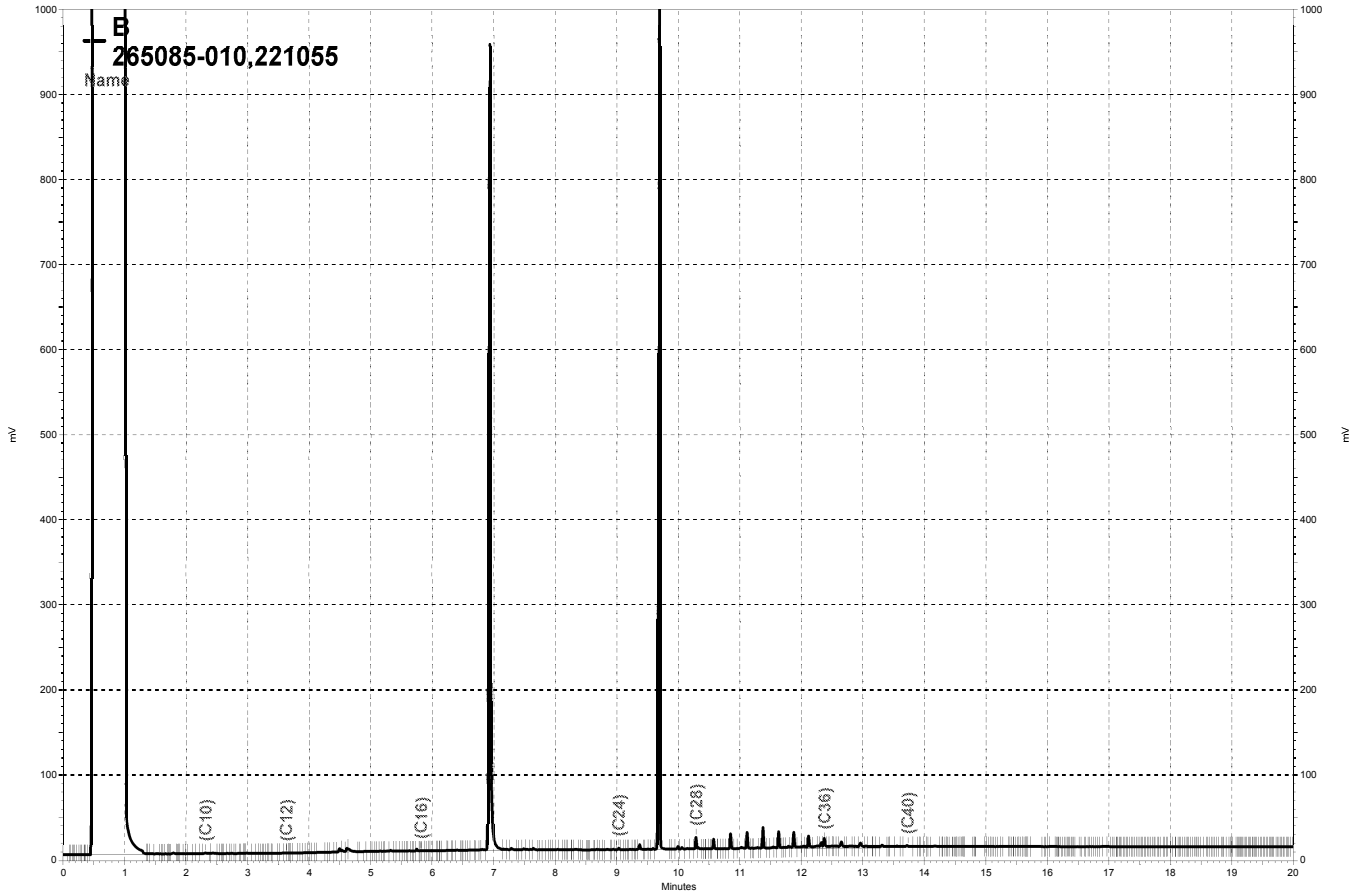
Surrogate	%REC	Limits
o-Terphenyl	96	67-136

Type: MSD Lab ID: QC779800

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,451	2,165	87	55-122	2	53

Surrogate	%REC	Limits
o-Terphenyl	95	67-136

RPD= Relative Percent Difference



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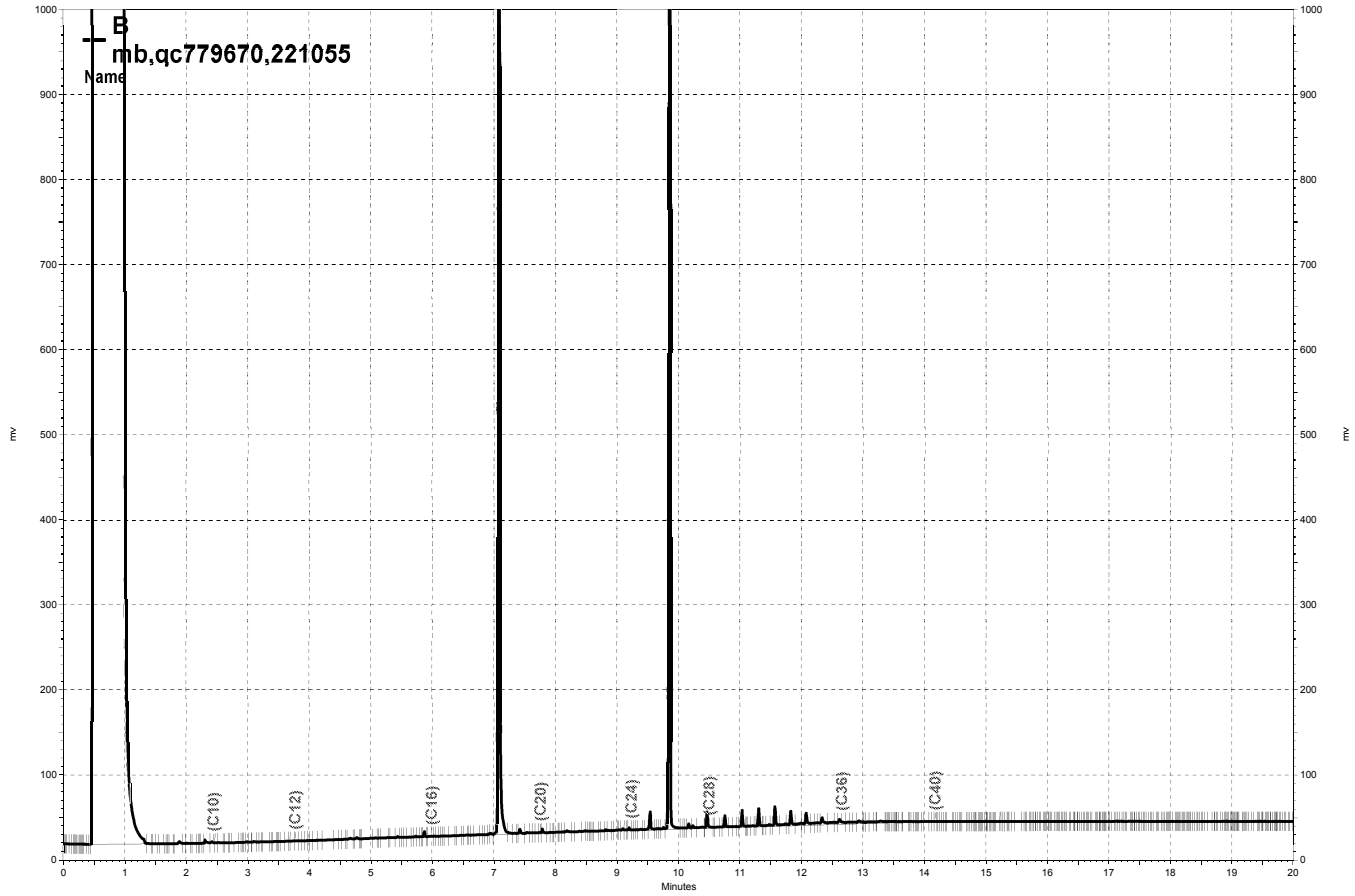

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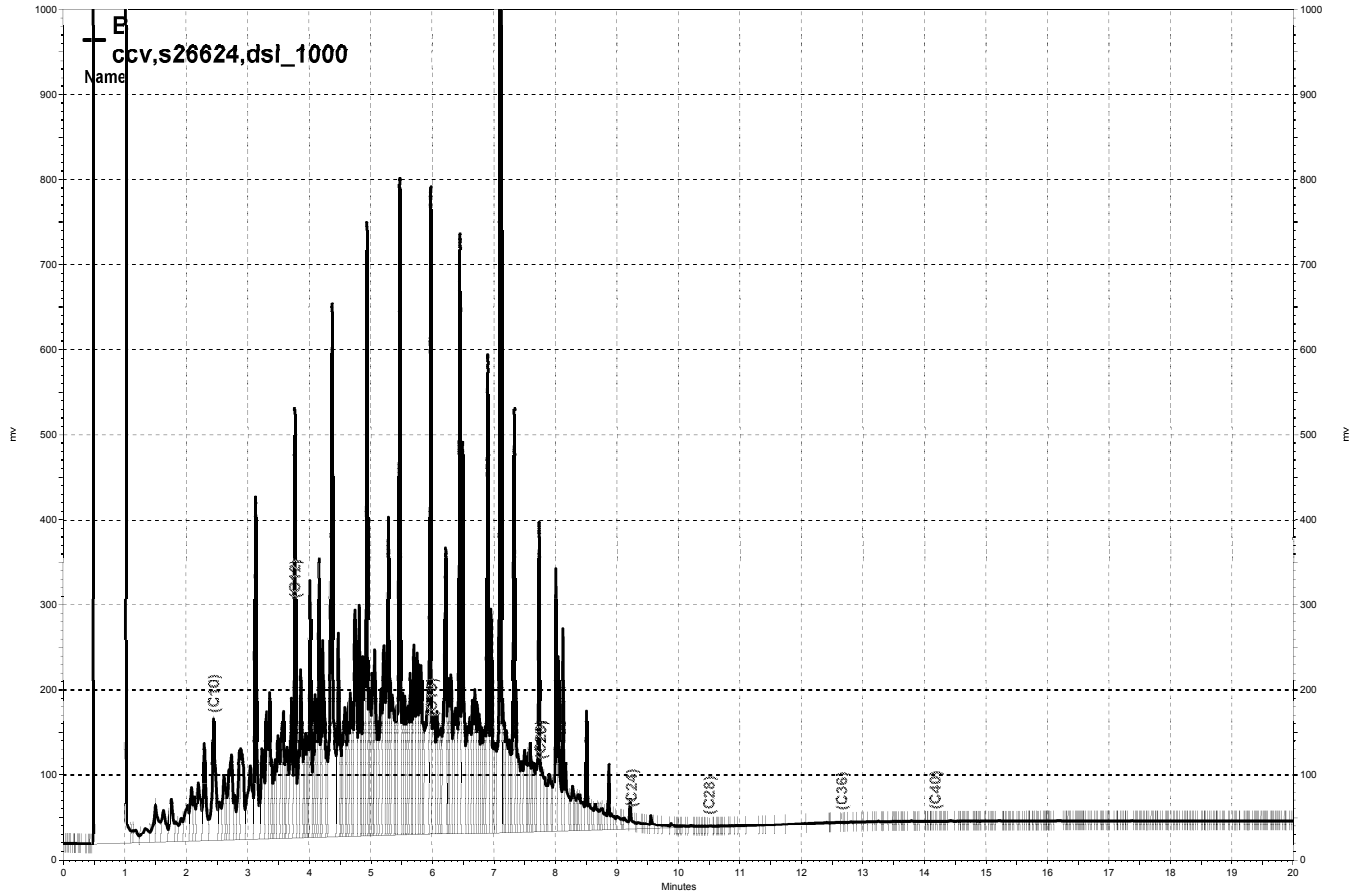

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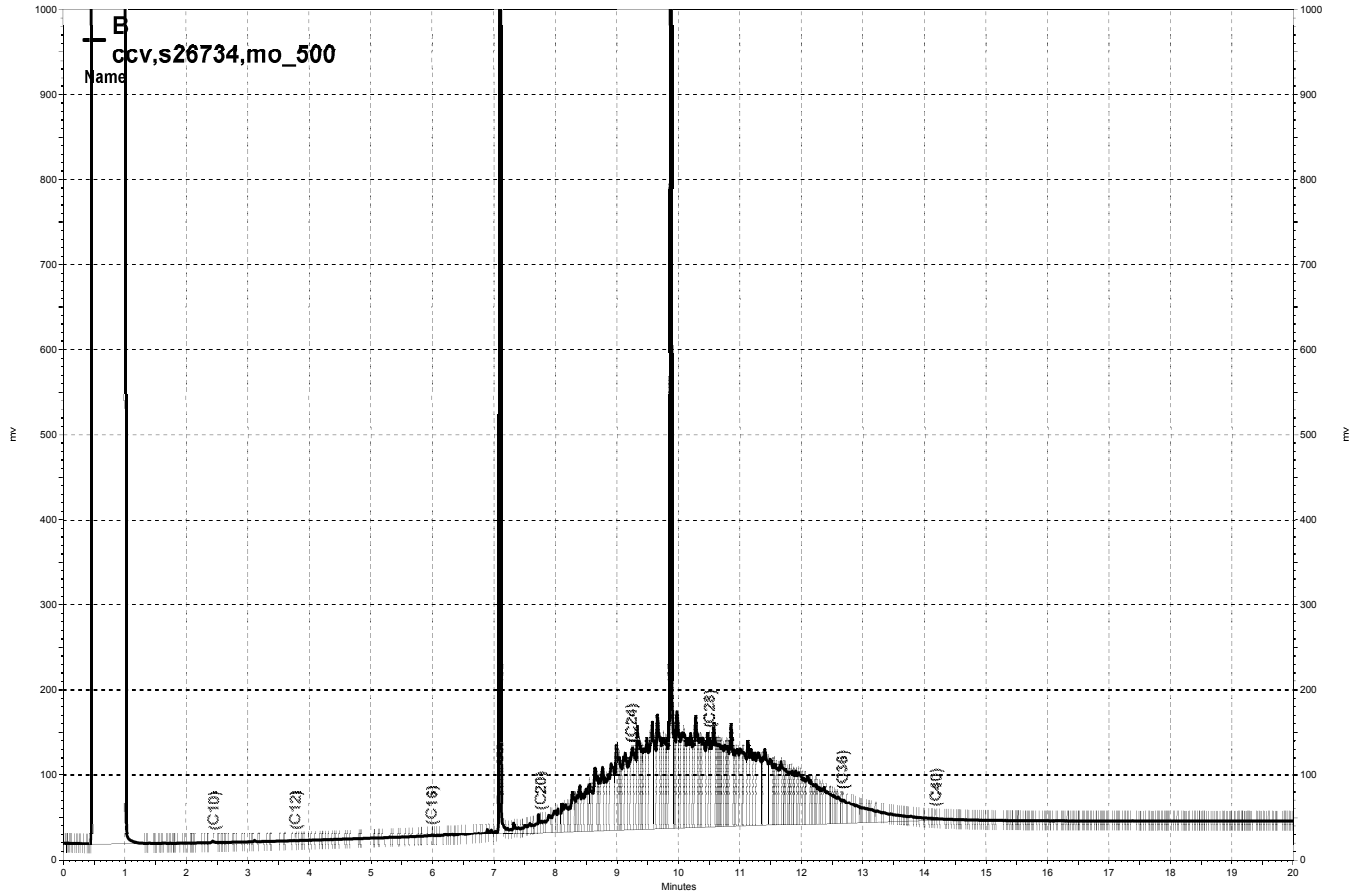

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry	Prepared:	03/05/15
Batch#:	221054	Analyzed:	03/06/15

Field ID:	TRENCH1-1SW-1.2	Moisture:	9%
Type:	SAMPLE	Diln Fac:	2.000
Lab ID:	265085-001		

Analyte	Result	RL	MDL
Diesel C10-C24	66 Y	2.2	0.67
Motor Oil C24-C36	250	11	3.3

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Field ID:	TRENCH1-2SW-1.2	Moisture:	12%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	265085-002		

Analyte	Result	RL	MDL
Diesel C10-C24	120 Y	5.6	1.7
Motor Oil C24-C36	420	28	8.5

Surrogate	%REC	Limits
o-Terphenyl	89	59-140

Field ID:	TRENCH1-3SW-1.2	Moisture:	2%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	265085-003		

Analyte	Result	RL	MDL
Diesel C10-C24	56 Y	5.1	1.6
Motor Oil C24-C36	210	25	7.7

Surrogate	%REC	Limits
o-Terphenyl	96	59-140

Field ID:	TRENCH1-4SW-1.2	Moisture:	11%
Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	265085-004		

Analyte	Result	RL	MDL
Diesel C10-C24	890 Y	23	6.9
Motor Oil C24-C36	1,400	110	34

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry	Prepared:	03/05/15
Batch#:	221054	Analyzed:	03/06/15

Field ID: TRENCH1-5SW-1.2 Moisture: 30%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265085-005

Analyte	Result	RL	MDL
Diesel C10-C24	69 Y	1.4	0.44
Motor Oil C24-C36	260	7.1	2.2

Surrogate	%REC	Limits
o-Terphenyl	100	59-140

Field ID: TRENCH1-6SW-1.2 Moisture: 35%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265085-006

Analyte	Result	RL	MDL
Diesel C10-C24	2.0 Y	1.5	0.47
Motor Oil C24-C36	16	7.7	2.3

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Field ID: TRENCH1-1B-2.4 Moisture: 11%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265085-007

Analyte	Result	RL	MDL
Diesel C10-C24	19 Y	1.1	0.34
Motor Oil C24-C36	120	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	92	59-140

Field ID: TRENCH1-2B-2.4 Moisture: 11%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265085-008

Analyte	Result	RL	MDL
Diesel C10-C24	9.8 Y	1.1	0.34
Motor Oil C24-C36	63	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry	Prepared:	03/05/15
Batch#:	221054	Analyzed:	03/06/15

Type: BLANK
Lab ID: QC779666
Diln Fac: 1.000

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779667	Batch#:	221054
Matrix:	Soil	Prepared:	03/05/15
Units:	mg/Kg	Analyzed:	03/06/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	50.12	100	58-137

Surrogate	%REC	Limits
o-Terphenyl	113	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TRENCH1-2B-2.4	Batch#:	221054
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: MS Moisture: 11%
Lab ID: QC779668

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	9.809	56.56	59.96	89	46-154

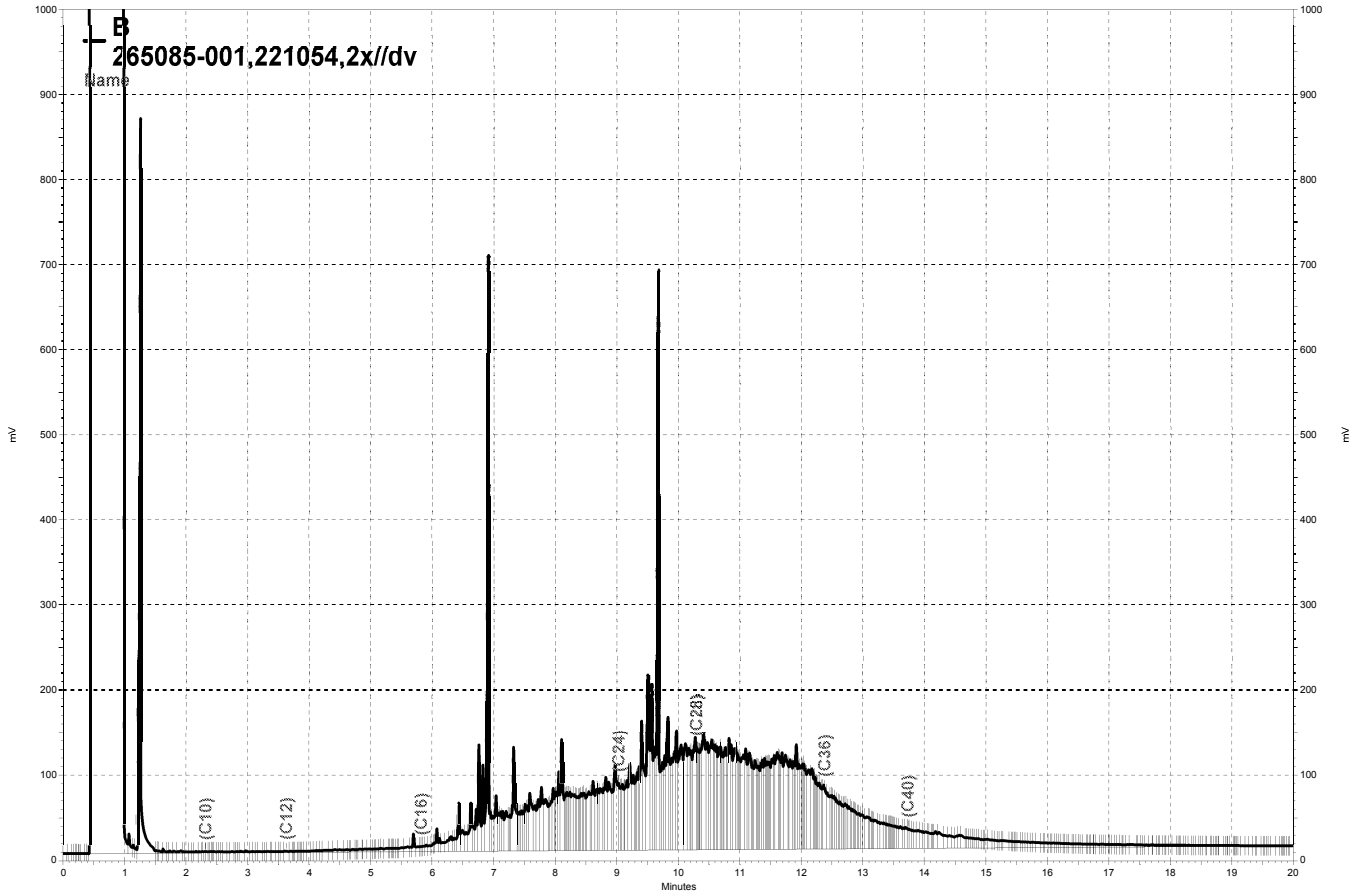
Surrogate	%REC	Limits
o-Terphenyl	93	59-140

Type: MSD Moisture: 11%
Lab ID: QC779669

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	56.18	56.76	84	46-154	5	50

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

RPD= Relative Percent Difference



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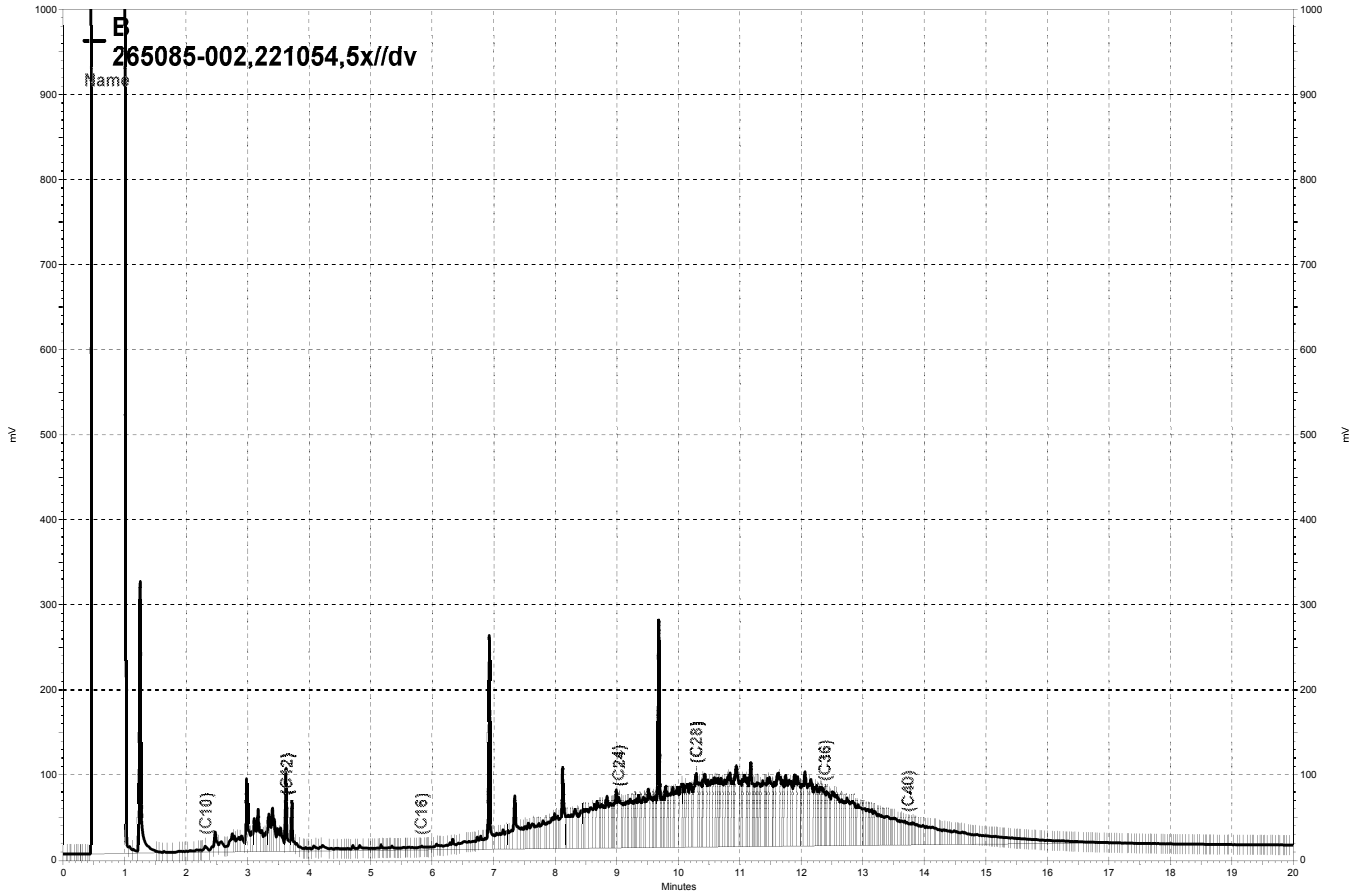

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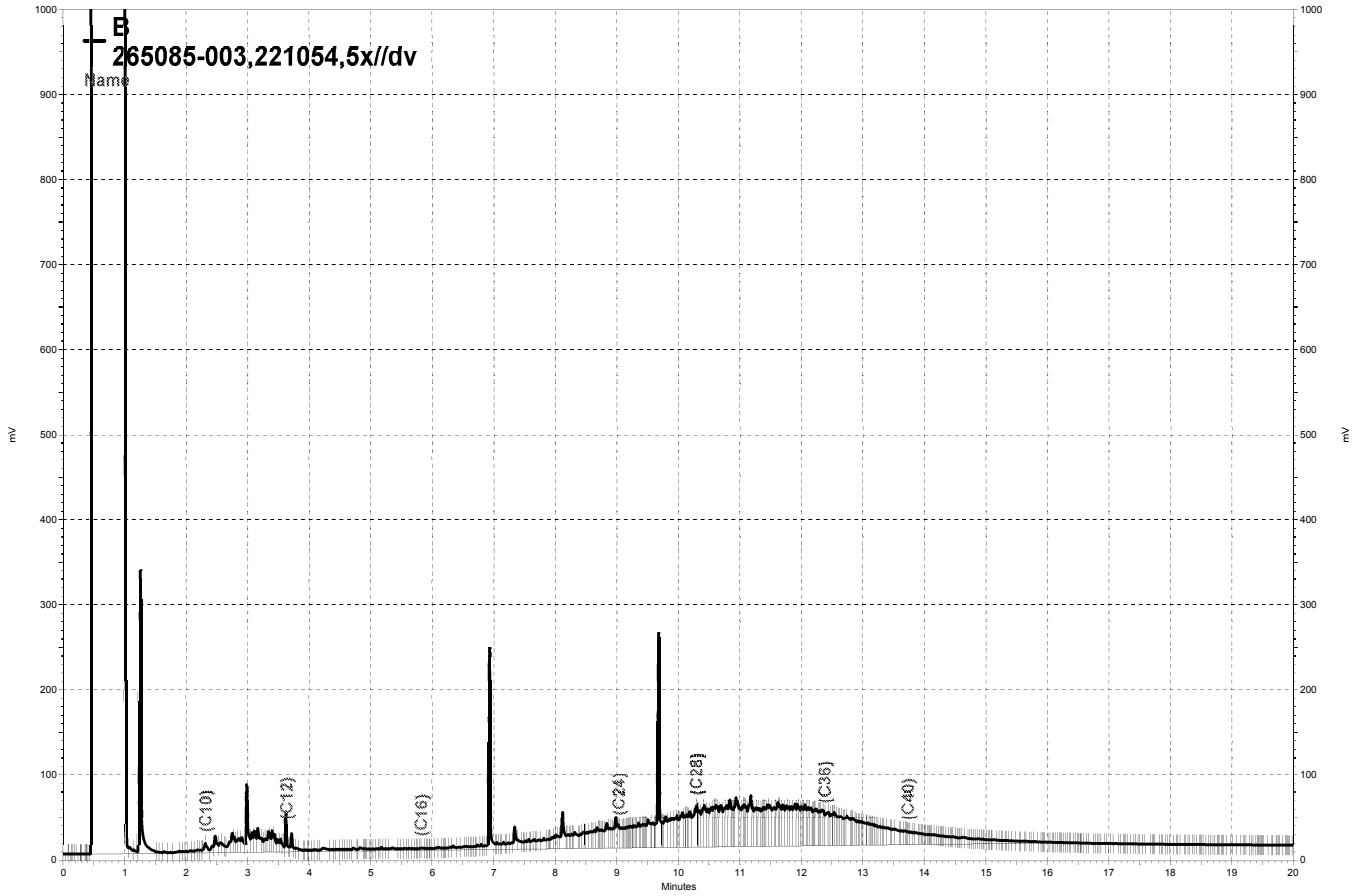

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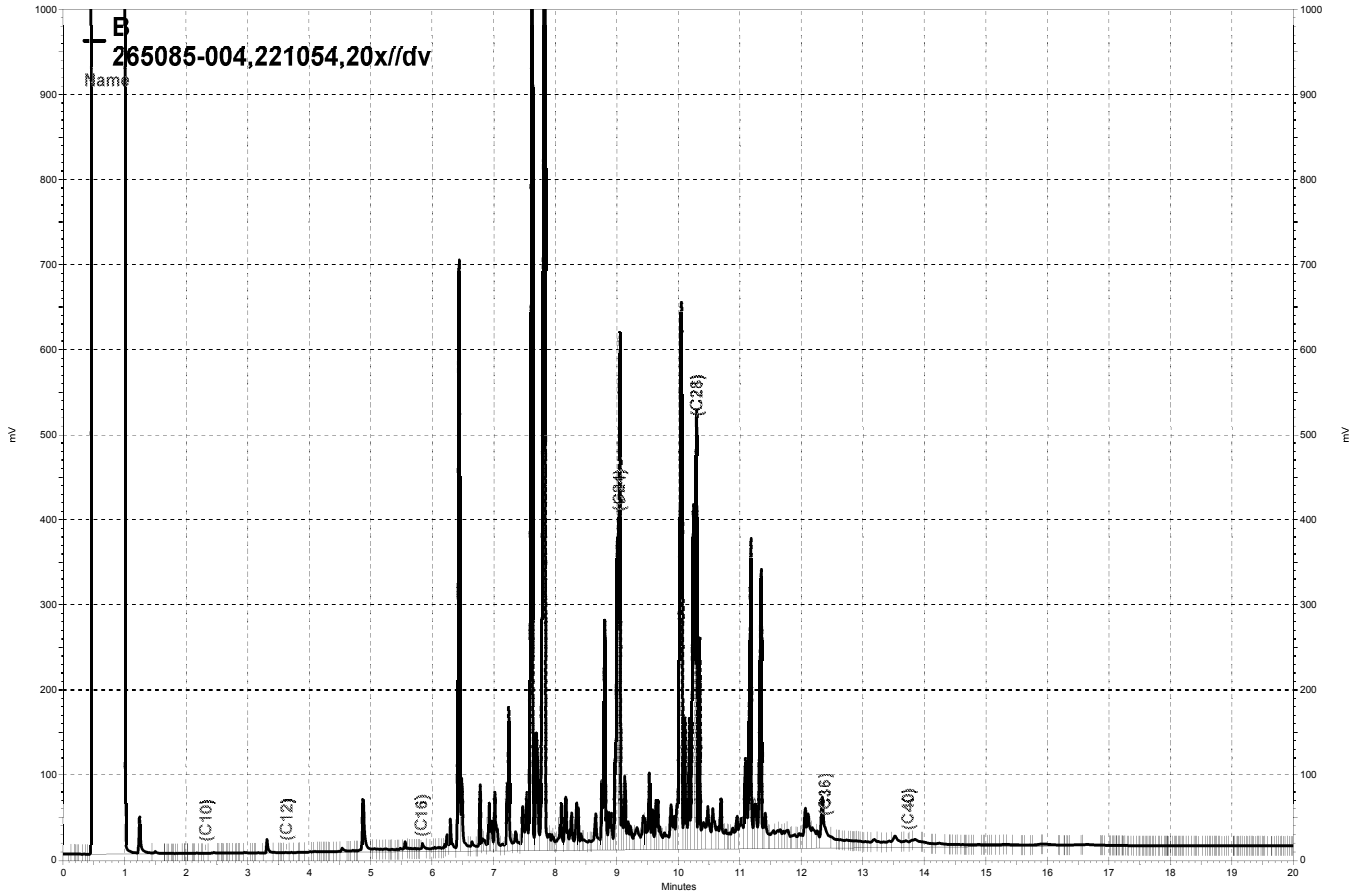

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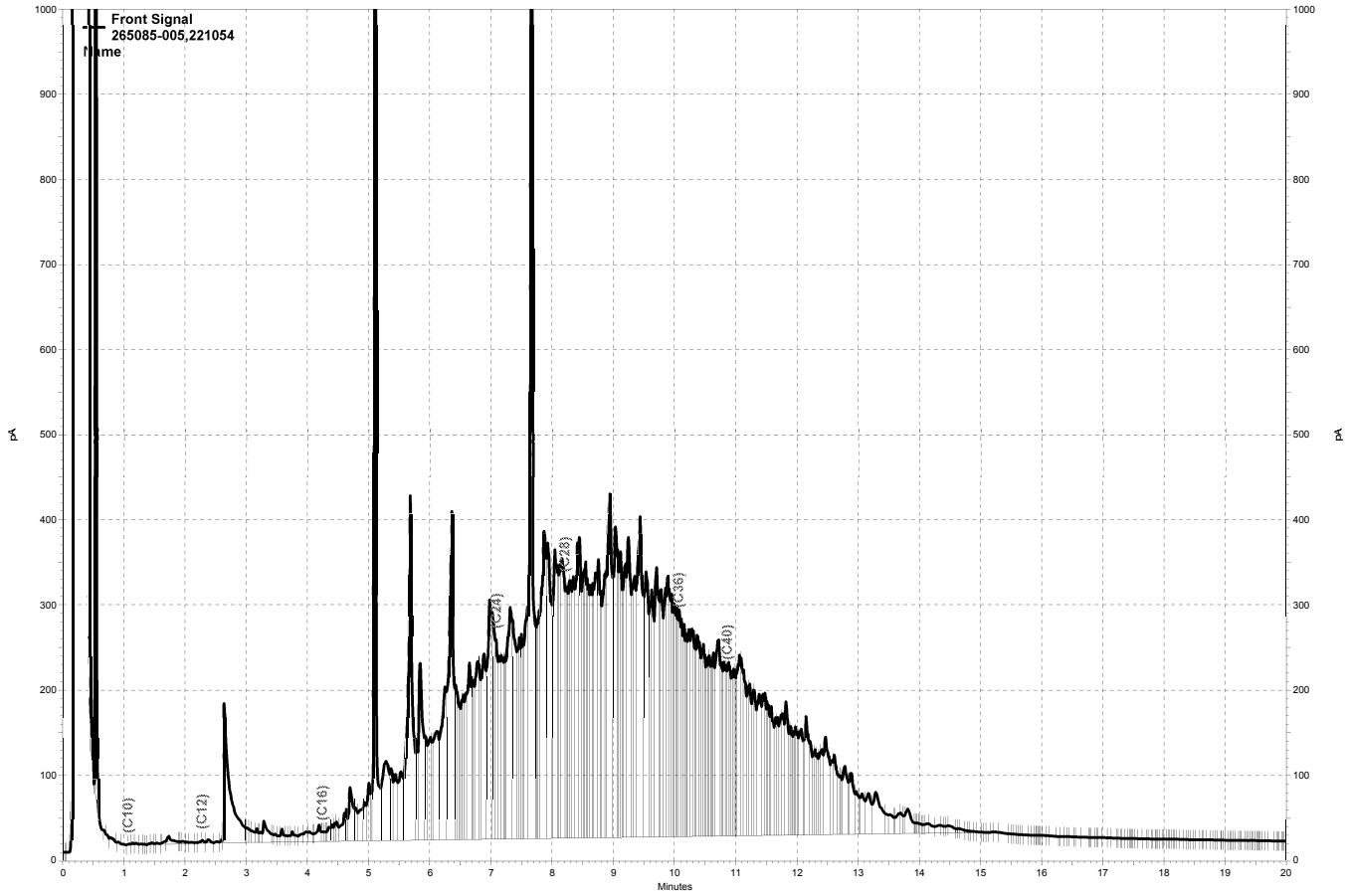

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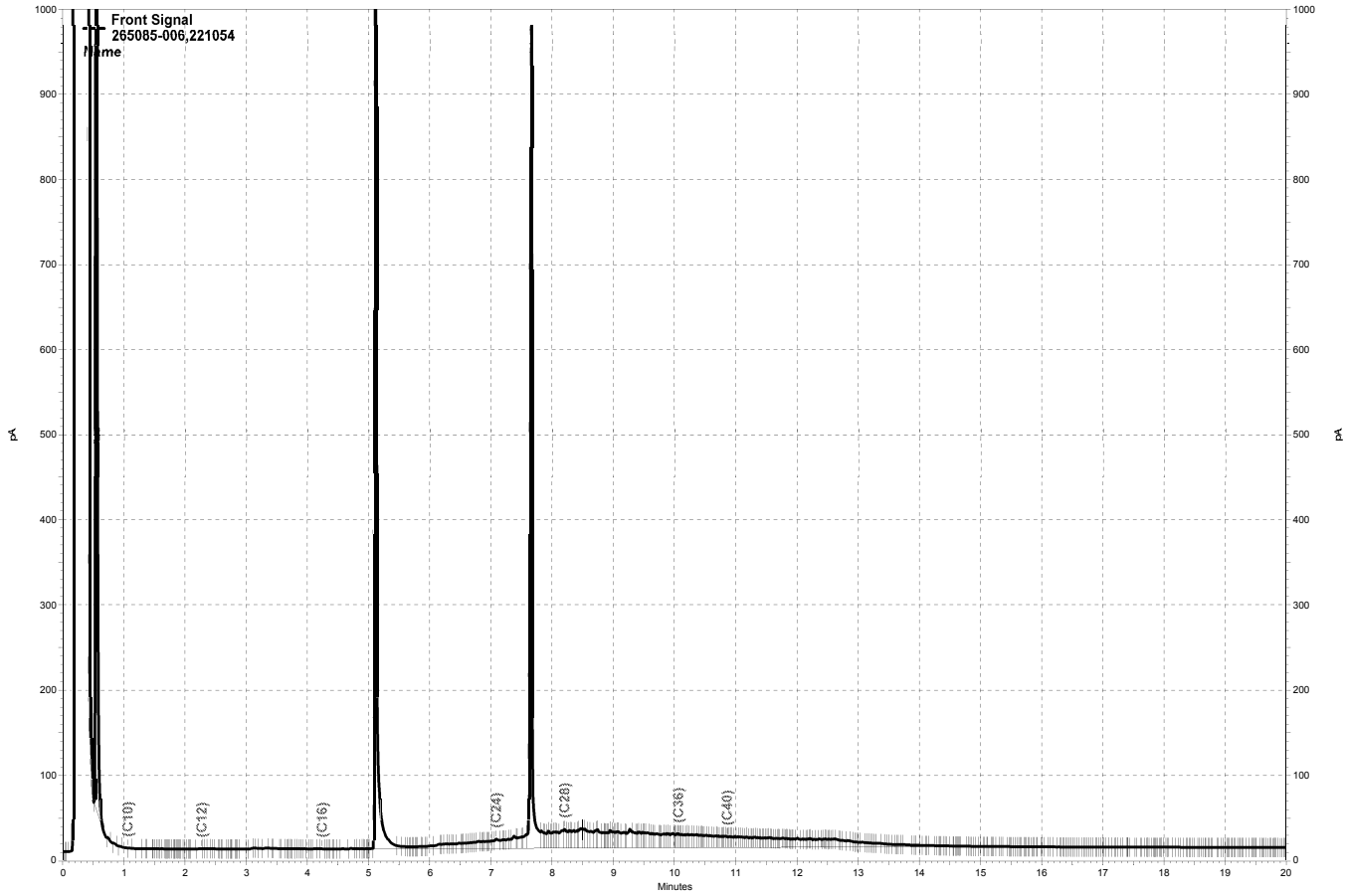

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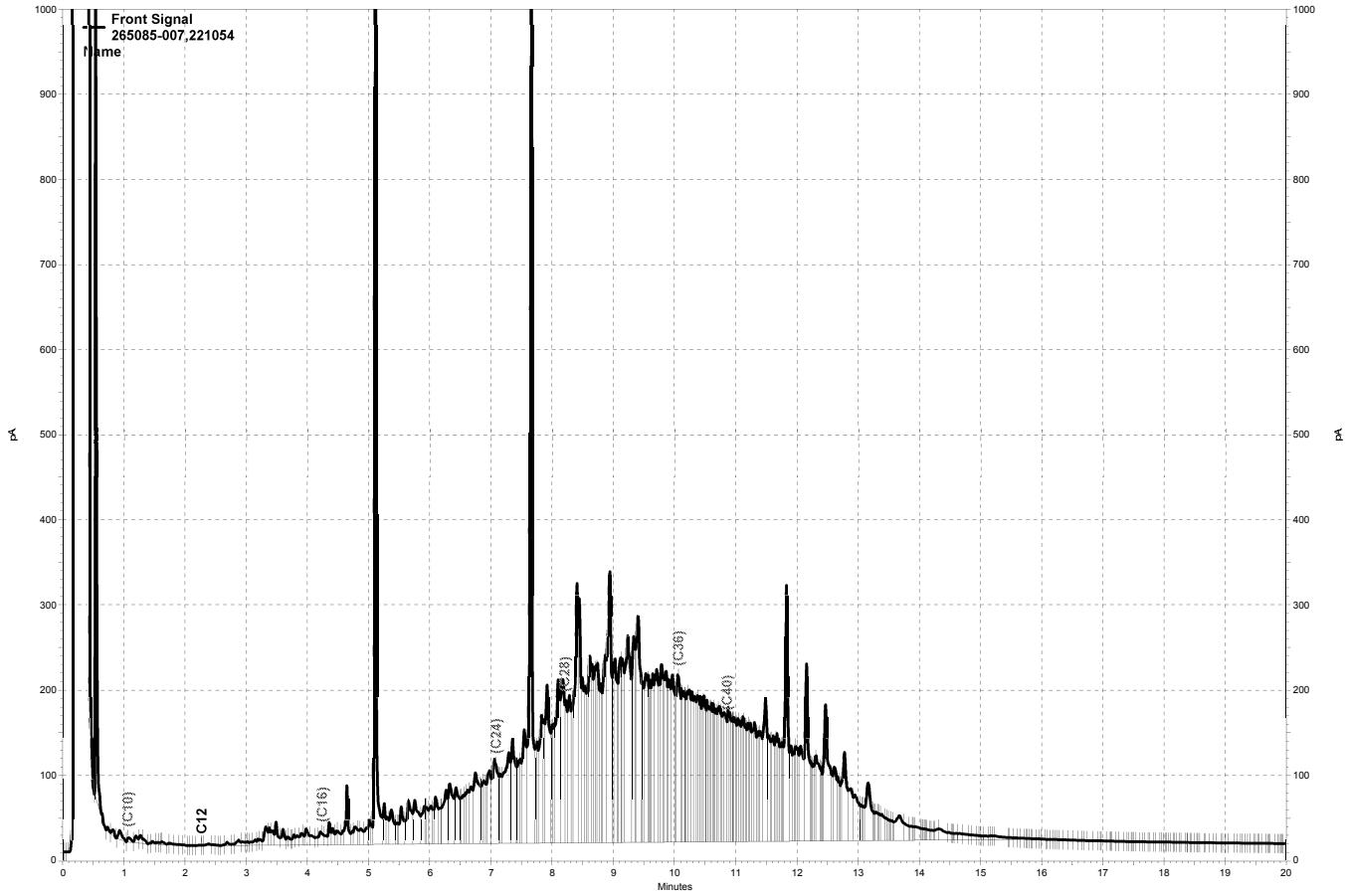

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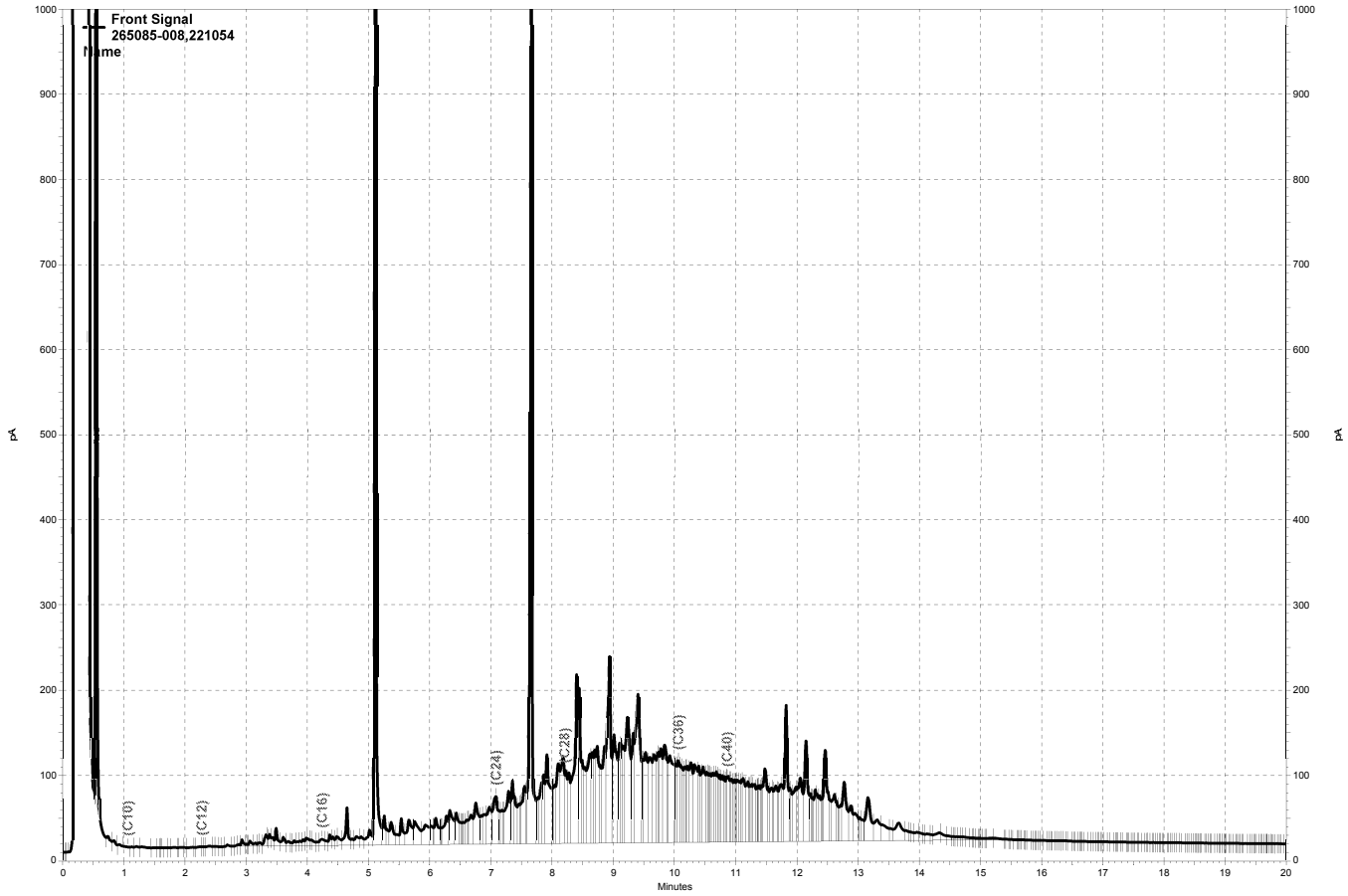

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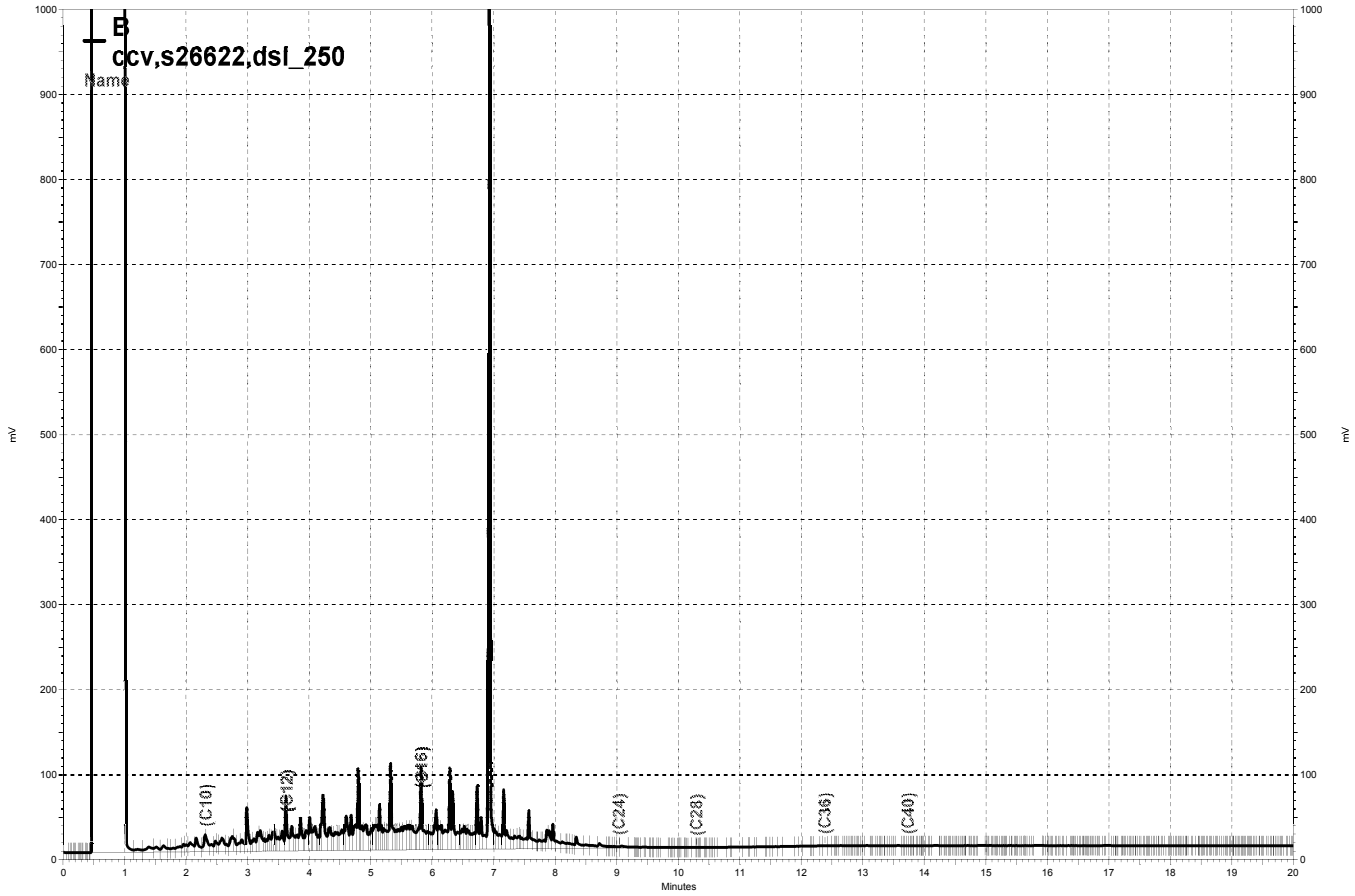

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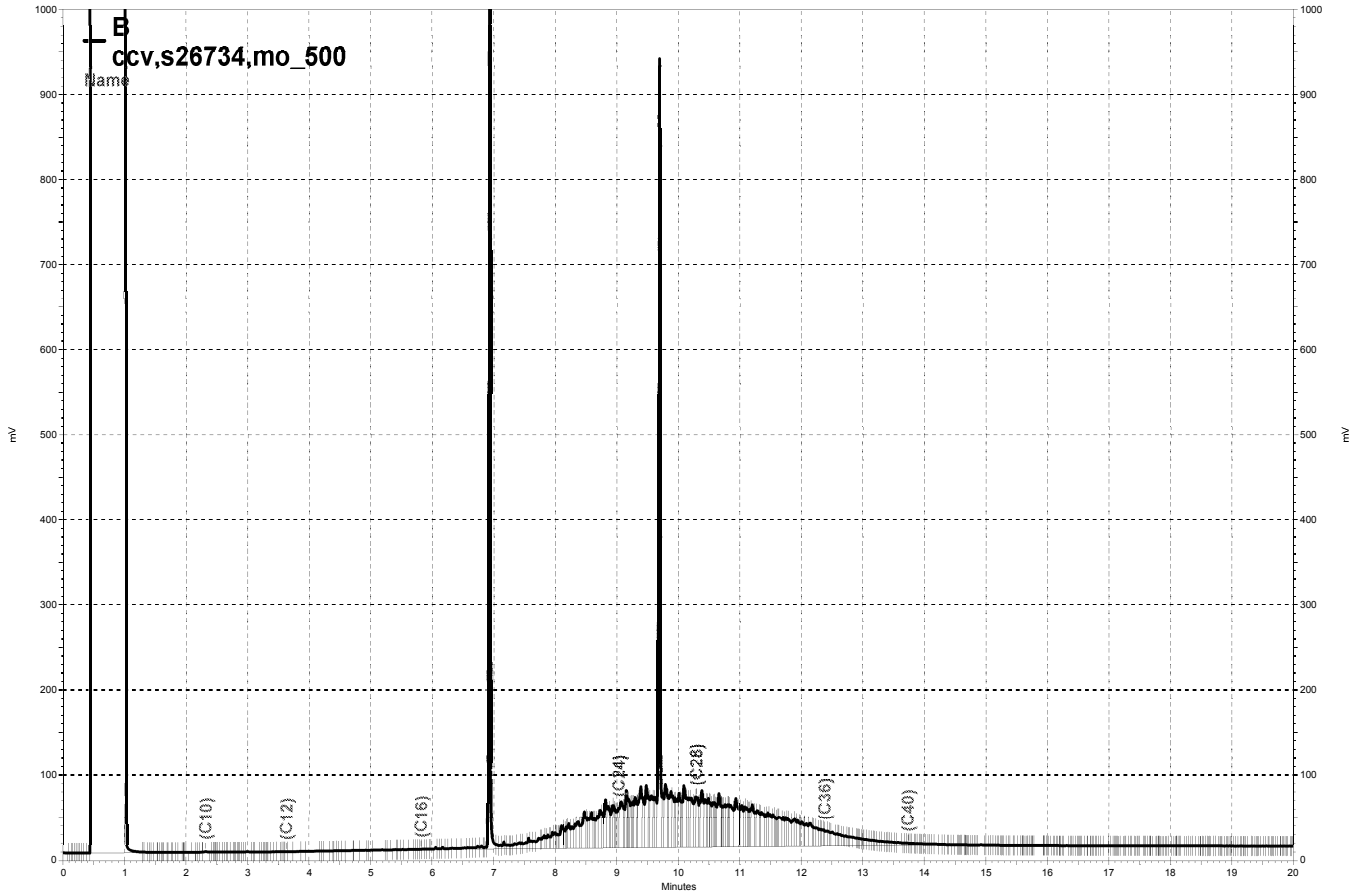

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	EB-030515	Batch#:	221056
Lab ID:	265085-010	Sampled:	03/05/15
Matrix:	Water	Received:	03/05/15
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000	Analyzed:	03/06/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	2.2
Phenol	ND	10	0.80
bis(2-Chloroethyl)ether	ND	10	1.5
2-Chlorophenol	ND	10	0.91
1,3-Dichlorobenzene	ND	10	1.5
1,4-Dichlorobenzene	ND	10	1.5
Benzyl alcohol	ND	10	1.5
1,2-Dichlorobenzene	ND	10	1.5
2-Methylphenol	ND	10	0.70
bis(2-Chloroisopropyl) ether	ND	10	1.5
4-Methylphenol	ND	10	1.2
N-Nitroso-di-n-propylamine	ND	10	1.3
Hexachloroethane	ND	10	1.5
Nitrobenzene	ND	10	1.3
Isophorone	ND	10	1.7
2-Nitrophenol	ND	20	2.0
2,4-Dimethylphenol	ND	10	0.58
Benzoic acid	ND	50	6.9
bis(2-Chloroethoxy)methane	ND	10	1.3
2,4-Dichlorophenol	ND	10	0.80
1,2,4-Trichlorobenzene	ND	10	1.4
Naphthalene	ND	10	1.4
4-Chloroaniline	ND	10	1.4
Hexachlorobutadiene	ND	10	1.4
4-Chloro-3-methylphenol	ND	10	1.5
2-Methylnaphthalene	ND	10	1.3
Hexachlorocyclopentadiene	ND	20	1.7
2,4,6-Trichlorophenol	ND	10	0.94
2,4,5-Trichlorophenol	ND	10	1.1
2-Chloronaphthalene	ND	10	1.3
2-Nitroaniline	ND	20	1.6
Dimethylphthalate	ND	10	1.6
Acenaphthylene	ND	10	1.3
2,6-Dinitrotoluene	ND	10	1.7
3-Nitroaniline	ND	20	3.8
Acenaphthene	ND	10	1.4
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.4
Dibenzofuran	ND	10	1.5
2,4-Dinitrotoluene	ND	10	1.4
Diethylphthalate	ND	10	1.5
Fluorene	ND	10	1.4
4-Chlorophenyl-phenylether	ND	10	1.4
4-Nitroaniline	ND	20	2.2
4,6-Dinitro-2-methylphenol	ND	20	1.6
N-Nitrosodiphenylamine	ND	10	1.3
Azobenzene	ND	10	1.4
4-Bromophenyl-phenylether	ND	10	1.3
Hexachlorobenzene	ND	10	1.4
Pentachlorophenol	ND	20	1.4
Phenanthrene	ND	10	1.4
Anthracene	ND	10	1.3
Di-n-butylphthalate	ND	10	1.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	EB-030515	Batch#:	221056
Lab ID:	265085-010	Sampled:	03/05/15
Matrix:	Water	Received:	03/05/15
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.4
Pyrene	ND	10	1.3
Butylbenzylphthalate	ND	10	1.3
3,3'-Dichlorobenzidine	ND	20	1.5
Benzo(a)anthracene	ND	10	1.3
Chrysene	ND	10	1.3
bis(2-Ethylhexyl)phthalate	ND	10	1.9
Di-n-octylphthalate	ND	10	1.4
Benzo(b)fluoranthene	ND	10	1.4
Benzo(k)fluoranthene	ND	10	1.5
Benzo(a)pyrene	ND	10	1.1
Indeno(1,2,3-cd)pyrene	ND	10	1.3
Dibenz(a,h)anthracene	ND	10	1.4
Benzo(g,h,i)perylene	ND	10	1.3

Surrogate	%REC	Limits
2-Fluorophenol	58	38-120
Phenol-d5	63	38-120
2,4,6-Tribromophenol	92	46-120
Nitrobenzene-d5	74	51-120
2-Fluorobiphenyl	80	54-120
Terphenyl-d14	72	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779673	Batch#:	221056
Matrix:	Water	Prepared:	03/05/15
Units:	ug/L	Analyzed:	03/06/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	10	1.5
Phenol	ND	10	1.0
bis(2-Chloroethyl)ether	ND	10	1.2
2-Chlorophenol	ND	10	0.82
1,3-Dichlorobenzene	ND	10	1.0
1,4-Dichlorobenzene	ND	10	1.1
Benzyl alcohol	ND	10	1.1
1,2-Dichlorobenzene	ND	10	2.1
2-Methylphenol	ND	10	2.2
bis(2-Chloroisopropyl) ether	ND	10	1.4
4-Methylphenol	ND	10	1.7
N-Nitroso-di-n-propylamine	ND	10	1.2
Hexachloroethane	ND	10	1.1
Nitrobenzene	ND	10	1.2
Isophorone	ND	10	1.3
2-Nitrophenol	ND	20	2.6
2,4-Dimethylphenol	ND	10	2.5
Benzoic acid	ND	50	16
bis(2-Chloroethoxy)methane	ND	10	1.1
2,4-Dichlorophenol	ND	10	2.1
1,2,4-Trichlorobenzene	ND	10	2.2
Naphthalene	ND	10	1.9
4-Chloroaniline	ND	10	2.1
Hexachlorobutadiene	ND	10	2.4
4-Chloro-3-methylphenol	ND	10	1.0
2-Methylnaphthalene	ND	10	1.8
Hexachlorocyclopentadiene	ND	20	0.68
2,4,6-Trichlorophenol	ND	10	0.92
2,4,5-Trichlorophenol	ND	10	0.85
2-Chloronaphthalene	ND	10	1.8
2-Nitroaniline	ND	20	1.2
Dimethylphthalate	ND	10	2.0
Acenaphthylene	ND	10	1.7
2,6-Dinitrotoluene	ND	10	1.8
3-Nitroaniline	ND	20	1.9
Acenaphthene	ND	10	1.8
2,4-Dinitrophenol	ND	20	2.6
4-Nitrophenol	ND	20	1.8
Dibenzofuran	ND	10	1.9
2,4-Dinitrotoluene	ND	10	2.1
Diethylphthalate	ND	10	1.0
Fluorene	ND	10	1.8
4-Chlorophenyl-phenylether	ND	10	1.6
4-Nitroaniline	ND	20	2.4
4,6-Dinitro-2-methylphenol	ND	20	1.2
N-Nitrosodiphenylamine	ND	10	1.7
Azobenzene	ND	10	1.2
4-Bromophenyl-phenylether	ND	10	2.0
Hexachlorobenzene	ND	10	2.0
Pentachlorophenol	ND	20	1.9
Phenanthrene	ND	10	1.9
Anthracene	ND	10	1.8
Di-n-butylphthalate	ND	10	1.2

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779673	Batch#:	221056
Matrix:	Water	Prepared:	03/05/15
Units:	ug/L	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Fluoranthene	ND	10	1.9
Pyrene	ND	10	1.7
Butylbenzylphthalate	ND	10	1.0
3,3'-Dichlorobenzidine	ND	20	1.0
Benzo(a)anthracene	ND	10	1.6
Chrysene	ND	10	1.7
bis(2-Ethylhexyl)phthalate	ND	10	1.8
Di-n-octylphthalate	ND	10	1.8
Benzo(b)fluoranthene	ND	10	1.7
Benzo(k)fluoranthene	ND	10	2.0
Benzo(a)pyrene	ND	10	1.6
Indeno(1,2,3-cd)pyrene	ND	10	1.8
Dibenz(a,h)anthracene	ND	10	1.8
Benzo(g,h,i)perylene	ND	10	1.9

Surrogate	%REC	Limits
2-Fluorophenol	98	38-120
Phenol-d5	108	38-120
2,4,6-Tribromophenol	51	46-120
Nitrobenzene-d5	99	51-120
2-Fluorobiphenyl	89	54-120
Terphenyl-d14	94	21-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3520C
Project#:	C1374	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	221056
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000	Analyzed:	03/09/15

Type: BS Lab ID: QC779674

Analyte	Spiked	Result	%REC	Limits
Phenol	80.00	77.97	97	46-120
2-Chlorophenol	80.00	71.59	89	48-120
1,4-Dichlorobenzene	80.00	52.79	66	52-120
N-Nitroso-di-n-propylamine	80.00	76.08	95	46-120
1,2,4-Trichlorobenzene	80.00	50.15	63	53-120
4-Chloro-3-methylphenol	80.00	85.27	107	40-120
Acenaphthene	30.00	26.40	88	61-120
4-Nitrophenol	80.00	91.49	114	40-120
2,4-Dinitrotoluene	80.00	78.95	99	64-120
Pentachlorophenol	80.00	89.60	112	47-120
Pyrene	30.00	29.92	100	62-120

Surrogate	%REC	Limits
2-Fluorophenol	67	38-120
Phenol-d5	86	38-120
2,4,6-Tribromophenol	113	46-120
Nitrobenzene-d5	89	51-120
2-Fluorobiphenyl	78	54-120
Terphenyl-d14	86	21-120

Type: BSD Lab ID: QC779675

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	80.00	70.28	88	46-120	10	55
2-Chlorophenol	80.00	67.49	84	48-120	6	54
1,4-Dichlorobenzene	80.00	49.19	61	52-120	7	30
N-Nitroso-di-n-propylamine	80.00	69.39	87	46-120	9	25
1,2,4-Trichlorobenzene	80.00	49.51	62	53-120	1	26
4-Chloro-3-methylphenol	80.00	80.63	101	40-120	6	54
Acenaphthene	30.00	26.25	87	61-120	1	25
4-Nitrophenol	80.00	90.29	113	40-120	1	45
2,4-Dinitrotoluene	80.00	77.57	97	64-120	2	32
Pentachlorophenol	80.00	89.56	112	47-120	0	48
Pyrene	30.00	28.30	94	62-120	6	26

Surrogate	%REC	Limits
2-Fluorophenol	77	38-120
Phenol-d5	88	38-120
2,4,6-Tribromophenol	112	46-120
Nitrobenzene-d5	87	51-120
2-Fluorobiphenyl	79	54-120
Terphenyl-d14	89	21-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-1SW-1.2	Batch#:	221053
Lab ID:	265085-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 9%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	360	76
Phenol	ND	360	51
bis(2-Chloroethyl)ether	ND	360	58
2-Chlorophenol	ND	360	60
1,3-Dichlorobenzene	ND	360	41
1,4-Dichlorobenzene	ND	360	16
Benzyl alcohol	ND	360	55
1,2-Dichlorobenzene	ND	360	36
2-Methylphenol	ND	360	67
bis(2-Chloroisopropyl) ether	ND	360	90
4-Methylphenol	ND	360	56
N-Nitroso-di-n-propylamine	ND	360	54
Hexachloroethane	ND	360	28
Nitrobenzene	ND	360	16
Isophorone	ND	360	11
2-Nitrophenol	ND	720	11
2,4-Dimethylphenol	ND	360	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	360	12
2,4-Dichlorophenol	ND	360	14
1,2,4-Trichlorobenzene	ND	360	14
Naphthalene	ND	72	14
4-Chloroaniline	ND	360	18
Hexachlorobutadiene	ND	360	15
4-Chloro-3-methylphenol	ND	360	15
2-Methylnaphthalene	ND	72	12
Hexachlorocyclopentadiene	ND	720	13
2,4,6-Trichlorophenol	ND	360	15
2,4,5-Trichlorophenol	ND	360	14
2-Chloronaphthalene	ND	360	11
2-Nitroaniline	ND	720	12
Dimethylphthalate	ND	360	13
Acenaphthylene	ND	72	14
2,6-Dinitrotoluene	ND	360	14
3-Nitroaniline	ND	720	8.8
Acenaphthene	ND	72	12
2,4-Dinitrophenol	ND	720	100
4-Nitrophenol	ND	720	56
Dibenzofuran	ND	360	16
2,4-Dinitrotoluene	ND	360	11
Diethylphthalate	ND	360	15
Fluorene	ND	72	13
4-Chlorophenyl-phenylether	ND	360	13
4-Nitroaniline	ND	720	10
4,6-Dinitro-2-methylphenol	ND	720	75
N-Nitrosodiphenylamine	ND	360	15
Azobenzene	ND	360	15
4-Bromophenyl-phenylether	ND	360	14
Hexachlorobenzene	ND	360	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-1SW-1.2	Batch#:	221053
Lab ID:	265085-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	720	67
Phenanthrene	43 J	72	16
Anthracene	ND	72	13
Di-n-butylphthalate	ND	360	16
Fluoranthene	72	72	14
Pyrene	83	72	13
Butylbenzylphthalate	ND	360	12
3,3'-Dichlorobenzidine	ND	720	12
Benzo(a)anthracene	32 J	72	13
Chrysene	43 J	72	16
bis(2-Ethylhexyl)phthalate	ND	360	16
Di-n-octylphthalate	ND	360	18
Benzo(b)fluoranthene	50 J	72	15
Benzo(k)fluoranthene	ND	72	19
Benzo(a)pyrene	31 J	72	17
Indeno(1,2,3-cd)pyrene	29 J	72	16
Dibenz(a,h)anthracene	ND	72	16
Benzo(g,h,i)perylene	36 J	72	14

Surrogate	%REC	Limits
2-Fluorophenol	43	25-120
Phenol-d5	50	36-120
2,4,6-Tribromophenol	62	27-120
Nitrobenzene-d5	57	44-120
2-Fluorobiphenyl	57	47-120
Terphenyl-d14	52	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

40.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2SW-1.2	Batch#:	221053
Lab ID:	265085-002	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,900	400
Phenol	ND	1,900	270
bis(2-Chloroethyl)ether	ND	1,900	310
2-Chlorophenol	ND	1,900	310
1,3-Dichlorobenzene	ND	1,900	210
1,4-Dichlorobenzene	ND	1,900	84
Benzyl alcohol	ND	1,900	290
1,2-Dichlorobenzene	ND	1,900	190
2-Methylphenol	ND	1,900	350
bis(2-Chloroisopropyl) ether	ND	1,900	470
4-Methylphenol	ND	1,900	290
N-Nitroso-di-n-propylamine	ND	1,900	280
Hexachloroethane	ND	1,900	150
Nitrobenzene	ND	1,900	83
Isophorone	ND	1,900	55
2-Nitrophenol	ND	3,800	58
2,4-Dimethylphenol	ND	1,900	79
Benzoic acid	ND	9,500	1,400
bis(2-Chloroethoxy)methane	ND	1,900	63
2,4-Dichlorophenol	ND	1,900	71
1,2,4-Trichlorobenzene	ND	1,900	73
Naphthalene	ND	380	73
4-Chloroaniline	ND	1,900	93
Hexachlorobutadiene	ND	1,900	77
4-Chloro-3-methylphenol	ND	1,900	80
2-Methylnaphthalene	ND	380	61
Hexachlorocyclopentadiene	ND	3,800	69
2,4,6-Trichlorophenol	ND	1,900	80
2,4,5-Trichlorophenol	ND	1,900	76
2-Chloronaphthalene	ND	1,900	58
2-Nitroaniline	ND	3,800	60
Dimethylphthalate	ND	1,900	71
Acenaphthylene	ND	380	72
2,6-Dinitrotoluene	ND	1,900	71
3-Nitroaniline	ND	3,800	46
Acenaphthene	ND	380	63
2,4-Dinitrophenol	ND	3,800	530
4-Nitrophenol	ND	3,800	300
Dibenzofuran	ND	1,900	82
2,4-Dinitrotoluene	ND	1,900	56
Diethylphthalate	ND	1,900	77
Fluorene	ND	380	66
4-Chlorophenyl-phenylether	ND	1,900	71
4-Nitroaniline	ND	3,800	54
4,6-Dinitro-2-methylphenol	ND	3,800	390
N-Nitrosodiphenylamine	ND	1,900	76
Azobenzene	ND	1,900	79
4-Bromophenyl-phenylether	ND	1,900	72
Hexachlorobenzene	ND	1,900	78

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2SW-1.2	Batch#:	221053
Lab ID:	265085-002	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	3,800	350
Phenanthrene	ND	380	85
Anthracene	ND	380	70
Di-n-butylphthalate	ND	1,900	83
Fluoranthene	ND	380	74
Pyrene	ND	380	67
Butylbenzylphthalate	ND	1,900	61
3,3'-Dichlorobenzidine	ND	3,800	63
Benzo(a)anthracene	ND	380	67
Chrysene	ND	380	82
bis(2-Ethylhexyl)phthalate	ND	1,900	83
Di-n-octylphthalate	ND	1,900	97
Benzo(b)fluoranthene	170 J	380	79
Benzo(k)fluoranthene	ND	380	100
Benzo(a)pyrene	ND	380	88
Indeno(1,2,3-cd)pyrene	ND	380	84
Dibenz(a,h)anthracene	ND	380	83
Benzo(g,h,i)perylene	100 J	380	74

Surrogate	%REC	Limits
2-Fluorophenol	59	25-120
Phenol-d5	66	36-120
2,4,6-Tribromophenol	94	27-120
Nitrobenzene-d5	82	44-120
2-Fluorobiphenyl	89	47-120
Terphenyl-d14	71	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-3SW-1.2	Batch#:	221053
Lab ID:	265085-003	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	4.000		

Moisture: 2%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,400	290
Phenol	ND	1,400	190
bis(2-Chloroethyl)ether	ND	1,400	220
2-Chlorophenol	ND	1,400	230
1,3-Dichlorobenzene	ND	1,400	150
1,4-Dichlorobenzene	ND	1,400	61
Benzyl alcohol	ND	1,400	210
1,2-Dichlorobenzene	ND	1,400	140
2-Methylphenol	ND	1,400	260
bis(2-Chloroisopropyl) ether	ND	1,400	340
4-Methylphenol	ND	1,400	210
N-Nitroso-di-n-propylamine	ND	1,400	200
Hexachloroethane	ND	1,400	110
Nitrobenzene	ND	1,400	60
Isophorone	ND	1,400	40
2-Nitrophenol	ND	2,700	42
2,4-Dimethylphenol	ND	1,400	57
Benzoic acid	ND	6,900	1,000
bis(2-Chloroethoxy)methane	ND	1,400	46
2,4-Dichlorophenol	ND	1,400	52
1,2,4-Trichlorobenzene	ND	1,400	53
Naphthalene	ND	270	53
4-Chloroaniline	ND	1,400	68
Hexachlorobutadiene	ND	1,400	56
4-Chloro-3-methylphenol	ND	1,400	58
2-Methylnaphthalene	ND	270	44
Hexachlorocyclopentadiene	ND	2,700	50
2,4,6-Trichlorophenol	ND	1,400	58
2,4,5-Trichlorophenol	ND	1,400	55
2-Chloronaphthalene	ND	1,400	42
2-Nitroaniline	ND	2,700	44
Dimethylphthalate	ND	1,400	51
Acenaphthylene	ND	270	52
2,6-Dinitrotoluene	ND	1,400	51
3-Nitroaniline	ND	2,700	33
Acenaphthene	ND	270	46
2,4-Dinitrophenol	ND	2,700	390
4-Nitrophenol	ND	2,700	210
Dibenzofuran	ND	1,400	59
2,4-Dinitrotoluene	ND	1,400	40
Diethylphthalate	ND	1,400	56
Fluorene	ND	270	48
4-Chlorophenyl-phenylether	ND	1,400	51
4-Nitroaniline	ND	2,700	39
4,6-Dinitro-2-methylphenol	ND	2,700	280
N-Nitrosodiphenylamine	ND	1,400	55
Azobenzene	ND	1,400	58
4-Bromophenyl-phenylether	ND	1,400	52
Hexachlorobenzene	ND	1,400	56
Pentachlorophenol	ND	2,700	250

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-3SW-1.2	Batch#:	221053
Lab ID:	265085-003	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	4.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	270	61
Anthracene	ND	270	51
Di-n-butylphthalate	ND	1,400	60
Fluoranthene	ND	270	53
Pyrene	ND	270	48
Butylbenzylphthalate	ND	1,400	44
3,3'-Dichlorobenzidine	ND	2,700	45
Benzo(a)anthracene	ND	270	49
Chrysene	ND	270	60
bis(2-Ethylhexyl)phthalate	ND	1,400	60
Di-n-octylphthalate	ND	1,400	70
Benzo(b)fluoranthene	ND	270	57
Benzo(k)fluoranthene	ND	270	73
Benzo(a)pyrene	ND	270	64
Indeno(1,2,3-cd)pyrene	ND	270	61
Dibenz(a,h)anthracene	ND	270	60
Benzo(g,h,i)perylene	ND	270	53

Surrogate	%REC	Limits
2-Fluorophenol	56	25-120
Phenol-d5	62	36-120
2,4,6-Tribromophenol	81	27-120
Nitrobenzene-d5	72	44-120
2-Fluorobiphenyl	79	47-120
Terphenyl-d14	69	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-4SW-1.2	Batch#:	221053
Lab ID:	265085-004	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac
N-Nitrosodimethylamine	ND	9,400	2,000	25.00
Phenol	ND	9,400	1,300	25.00
bis(2-Chloroethyl)ether	ND	9,400	1,500	25.00
2-Chlorophenol	ND	9,400	1,600	25.00
1,3-Dichlorobenzene	ND	9,400	1,100	25.00
1,4-Dichlorobenzene	ND	9,400	420	25.00
Benzyl alcohol	ND	9,400	1,400	25.00
1,2-Dichlorobenzene	ND	9,400	940	25.00
2-Methylphenol	ND	9,400	1,800	25.00
bis(2-Chloroisopropyl) ether	ND	9,400	2,300	25.00
4-Methylphenol	ND	9,400	1,500	25.00
N-Nitroso-di-n-propylamine	ND	9,400	1,400	25.00
Hexachloroethane	ND	9,400	730	25.00
Nitrobenzene	ND	9,400	410	25.00
Isophorone	ND	9,400	280	25.00
2-Nitrophenol	ND	19,000	290	25.00
2,4-Dimethylphenol	ND	9,400	390	25.00
Benzoic acid	ND	47,000	7,000	25.00
bis(2-Chloroethoxy)methane	ND	9,400	320	25.00
2,4-Dichlorophenol	ND	9,400	350	25.00
1,2,4-Trichlorobenzene	ND	9,400	370	25.00
Naphthalene	910 J	1,900	360	25.00
4-Chloroaniline	ND	9,400	460	25.00
Hexachlorobutadiene	ND	9,400	390	25.00
4-Chloro-3-methylphenol	ND	9,400	400	25.00
2-Methylnaphthalene	ND	1,900	310	25.00
Hexachlorocyclopentadiene	ND	19,000	350	25.00
2,4,6-Trichlorophenol	ND	9,400	400	25.00
2,4,5-Trichlorophenol	ND	9,400	380	25.00
2-Chloronaphthalene	ND	9,400	290	25.00
2-Nitroaniline	ND	19,000	300	25.00
Dimethylphthalate	ND	9,400	350	25.00
Acenaphthylene	9,200	1,900	360	25.00
2,6-Dinitrotoluene	ND	9,400	350	25.00
3-Nitroaniline	ND	19,000	230	25.00
Acenaphthene	ND	1,900	320	25.00
2,4-Dinitrophenol	ND	19,000	2,700	25.00
4-Nitrophenol	ND	19,000	1,500	25.00
Dibenzofuran	ND	9,400	410	25.00
2,4-Dinitrotoluene	ND	9,400	280	25.00
Diethylphthalate	ND	9,400	380	25.00
Fluorene	1,200 J	1,900	330	25.00
4-Chlorophenyl-phenylether	ND	9,400	350	25.00
4-Nitroaniline	ND	19,000	270	25.00
4,6-Dinitro-2-methylphenol	ND	19,000	2,000	25.00
N-Nitrosodiphenylamine	ND	9,400	380	25.00
Azobenzene	ND	9,400	400	25.00
4-Bromophenyl-phenylether	ND	9,400	360	25.00
Hexachlorobenzene	ND	9,400	390	25.00

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-4SW-1.2	Batch#:	221053
Lab ID:	265085-004	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15

Analyte	Result	RL	MDL	Diln Fac
Pentachlorophenol	ND	19,000	1,700	25.00
Phenanthrene	55,000	1,900	420	25.00
Anthracene	6,300	1,900	350	25.00
Di-n-butylphthalate	ND	9,400	410	25.00
Fluoranthene	100,000	5,700	1,100	75.00
Pyrene	130,000	5,700	990	75.00
Butylbenzylphthalate	ND	9,400	300	25.00
3,3'-Dichlorobenzidine	ND	19,000	310	25.00
Benzo(a)anthracene	40,000	1,900	330	25.00
Chrysene	47,000	1,900	410	25.00
bis(2-Ethylhexyl)phthalate	ND	9,400	420	25.00
Di-n-octylphthalate	ND	9,400	480	25.00
Benzo(b)fluoranthene	65,000	5,700	1,200	75.00
Benzo(k)fluoranthene	23,000	5,700	1,500	75.00
Benzo(a)pyrene	43,000	1,900	440	25.00
Indeno(1,2,3-cd)pyrene	35,000	1,900	420	25.00
Dibenz(a,h)anthracene	5,400	1,900	410	25.00
Benzo(g,h,i)perylene	40,000	1,900	370	25.00

Surrogate	%REC	Limits	Diln Fac
2-Fluorophenol	DO	25-120	25.00
Phenol-d5	DO	36-120	25.00
2,4,6-Tribromophenol	DO	27-120	25.00
Nitrobenzene-d5	DO	44-120	25.00
2-Fluorobiphenyl	DO	47-120	25.00
Terphenyl-d14	DO	49-120	25.00

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-5SW-1.2	Batch#:	221053
Lab ID:	265085-005	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 30%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	480	32
Phenol	ND	480	22
bis(2-Chloroethyl)ether	ND	480	23
2-Chlorophenol	ND	480	20
1,3-Dichlorobenzene	ND	480	19
1,4-Dichlorobenzene	ND	480	11
Benzyl alcohol	ND	480	24
1,2-Dichlorobenzene	ND	480	15
2-Methylphenol	ND	480	21
bis(2-Chloroisopropyl) ether	ND	480	23
4-Methylphenol	ND	480	23
N-Nitroso-di-n-propylamine	ND	480	22
Hexachloroethane	ND	480	15
Nitrobenzene	ND	480	13
Isophorone	ND	480	15
2-Nitrophenol	ND	970	56
2,4-Dimethylphenol	ND	480	27
Benzoic acid	ND	2,400	550
bis(2-Chloroethoxy)methane	ND	480	15
2,4-Dichlorophenol	ND	480	14
1,2,4-Trichlorobenzene	ND	480	12
Naphthalene	29 J	97	19
4-Chloroaniline	ND	480	18
Hexachlorobutadiene	ND	480	12
4-Chloro-3-methylphenol	ND	480	13
2-Methylnaphthalene	ND	97	14
Hexachlorocyclopentadiene	ND	970	110
2,4,6-Trichlorophenol	ND	480	16
2,4,5-Trichlorophenol	ND	480	13
2-Chloronaphthalene	ND	480	11
2-Nitroaniline	ND	970	49
Dimethylphthalate	ND	480	10
Acenaphthylene	82 J	97	12
2,6-Dinitrotoluene	ND	480	49
3-Nitroaniline	ND	970	10
Acenaphthene	ND	97	9.7
2,4-Dinitrophenol	ND	970	71
4-Nitrophenol	ND	970	10
Dibenzofuran	ND	480	12
2,4-Dinitrotoluene	ND	480	12
Diethylphthalate	ND	480	12
Fluorene	ND	97	12
4-Chlorophenyl-phenylether	ND	480	12
4-Nitroaniline	ND	970	15
4,6-Dinitro-2-methylphenol	ND	970	51
N-Nitrosodiphenylamine	ND	480	11
Azobenzene	ND	480	10
4-Bromophenyl-phenylether	ND	480	12
Hexachlorobenzene	ND	480	9.9

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-5SW-1.2	Batch#:	221053
Lab ID:	265085-005	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	970	150
Phenanthrene	320	97	12
Anthracene	53 J	97	13
Di-n-butylphthalate	ND	480	14
Fluoranthene	670	97	14
Pyrene	680	97	11
Butylbenzylphthalate	ND	480	14
3,3'-Dichlorobenzidine	ND	970	120
Benzo(a)anthracene	210	97	9.8
Chrysene	340	97	12
bis(2-Ethylhexyl)phthalate	13 J	480	12
Di-n-octylphthalate	ND	480	50
Benzo(b)fluoranthene	450	97	8.5
Benzo(k)fluoranthene	150	97	8.6
Benzo(a)pyrene	260	97	8.6
Indeno(1,2,3-cd)pyrene	320	97	11
Dibenz(a,h)anthracene	50 J	97	11
Benzo(g,h,i)perylene	430	97	12

Surrogate	%REC	Limits
2-Fluorophenol	62	25-120
Phenol-d5	65	36-120
2,4,6-Tribromophenol	73	27-120
Nitrobenzene-d5	58	44-120
2-Fluorobiphenyl	53	47-120
Terphenyl-d14	64	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-6SW-1.2	Batch#:	221053
Lab ID:	265085-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 35%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	520	20
Phenol	ND	520	27
bis(2-Chloroethyl)ether	ND	520	20
2-Chlorophenol	ND	520	26
1,3-Dichlorobenzene	ND	520	12
1,4-Dichlorobenzene	ND	520	16
Benzyl alcohol	ND	520	24
1,2-Dichlorobenzene	ND	520	15
2-Methylphenol	ND	520	24
bis(2-Chloroisopropyl) ether	ND	520	29
4-Methylphenol	ND	520	27
N-Nitroso-di-n-propylamine	ND	520	17
Hexachloroethane	ND	520	13
Nitrobenzene	ND	520	12
Isophorone	ND	520	17
2-Nitrophenol	ND	1,000	16
2,4-Dimethylphenol	ND	520	21
Benzoic acid	ND	2,600	480
bis(2-Chloroethoxy)methane	ND	520	18
2,4-Dichlorophenol	ND	520	20
1,2,4-Trichlorobenzene	ND	520	15
Naphthalene	ND	100	14
4-Chloroaniline	ND	520	26
Hexachlorobutadiene	ND	520	95
4-Chloro-3-methylphenol	ND	520	23
2-Methylnaphthalene	ND	100	15
Hexachlorocyclopentadiene	ND	1,000	94
2,4,6-Trichlorophenol	ND	520	22
2,4,5-Trichlorophenol	ND	520	14
2-Chloronaphthalene	ND	520	86
2-Nitroaniline	ND	1,000	12
Dimethylphthalate	ND	520	15
Acenaphthylene	ND	100	13
2,6-Dinitrotoluene	ND	520	14
3-Nitroaniline	ND	1,000	17
Acenaphthene	ND	100	11
2,4-Dinitrophenol	ND	1,000	64
4-Nitrophenol	ND	1,000	110
Dibenzofuran	ND	520	14
2,4-Dinitrotoluene	ND	520	15
Diethylphthalate	ND	520	13
Fluorene	ND	100	14
4-Chlorophenyl-phenylether	ND	520	15
4-Nitroaniline	ND	1,000	12
4,6-Dinitro-2-methylphenol	ND	1,000	65
N-Nitrosodiphenylamine	ND	520	87
Azobenzene	ND	520	11
4-Bromophenyl-phenylether	ND	520	91
Hexachlorobenzene	ND	520	11

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-6SW-1.2	Batch#:	221053
Lab ID:	265085-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	1,000	230
Phenanthrene	18 J	100	15
Anthracene	ND	100	11
Di-n-butylphthalate	ND	520	13
Fluoranthene	45 J	100	13
Pyrene	48 J	100	15
Butylbenzylphthalate	ND	520	13
3,3'-Dichlorobenzidine	ND	1,000	67
Benzo(a)anthracene	17 J	100	13
Chrysene	21 J	100	11
bis(2-Ethylhexyl)phthalate	ND	520	14
Di-n-octylphthalate	ND	520	13
Benzo(b)fluoranthene	34 J	100	13
Benzo(k)fluoranthene	ND	100	14
Benzo(a)pyrene	21 J	100	14
Indeno(1,2,3-cd)pyrene	26 J	100	13
Dibenz(a,h)anthracene	ND	100	11
Benzo(g,h,i)perylene	36 J	100	13

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	73	36-120
2,4,6-Tribromophenol	53	27-120
Nitrobenzene-d5	60	44-120
2-Fluorobiphenyl	59	47-120
Terphenyl-d14	65	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-1B-2.4	Batch#:	221053
Lab ID:	265085-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	370	79
Phenol	ND	370	52
bis(2-Chloroethyl)ether	ND	370	60
2-Chlorophenol	ND	370	61
1,3-Dichlorobenzene	ND	370	42
1,4-Dichlorobenzene	ND	370	16
Benzyl alcohol	ND	370	56
1,2-Dichlorobenzene	ND	370	37
2-Methylphenol	ND	370	69
bis(2-Chloroisopropyl) ether	ND	370	93
4-Methylphenol	ND	370	58
N-Nitroso-di-n-propylamine	ND	370	55
Hexachloroethane	ND	370	29
Nitrobenzene	ND	370	16
Isophorone	ND	370	11
2-Nitrophenol	ND	740	11
2,4-Dimethylphenol	ND	370	15
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	370	12
2,4-Dichlorophenol	ND	370	14
1,2,4-Trichlorobenzene	ND	370	14
Naphthalene	ND	74	14
4-Chloroaniline	ND	370	18
Hexachlorobutadiene	ND	370	15
4-Chloro-3-methylphenol	ND	370	16
2-Methylnaphthalene	ND	74	12
Hexachlorocyclopentadiene	ND	740	14
2,4,6-Trichlorophenol	ND	370	16
2,4,5-Trichlorophenol	ND	370	15
2-Chloronaphthalene	ND	370	11
2-Nitroaniline	ND	740	12
Dimethylphthalate	ND	370	14
Acenaphthylene	ND	74	14
2,6-Dinitrotoluene	ND	370	14
3-Nitroaniline	ND	740	9.1
Acenaphthene	ND	74	12
2,4-Dinitrophenol	ND	740	100
4-Nitrophenol	ND	740	58
Dibenzofuran	ND	370	16
2,4-Dinitrotoluene	ND	370	11
Diethylphthalate	ND	370	15
Fluorene	ND	74	13
4-Chlorophenyl-phenylether	ND	370	14
4-Nitroaniline	ND	740	11
4,6-Dinitro-2-methylphenol	ND	740	77
N-Nitrosodiphenylamine	ND	370	15
Azobenzene	ND	370	16
4-Bromophenyl-phenylether	ND	370	14
Hexachlorobenzene	ND	370	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-1B-2.4	Batch#:	221053
Lab ID:	265085-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	740	69
Phenanthrene	44 J	74	17
Anthracene	ND	74	14
Di-n-butylphthalate	ND	370	16
Fluoranthene	44 J	74	15
Pyrene	43 J	74	13
Butylbenzylphthalate	ND	370	12
3,3'-Dichlorobenzidine	ND	740	12
Benzo(a)anthracene	23 J	74	13
Chrysene	37 J	74	16
bis(2-Ethylhexyl)phthalate	ND	370	16
Di-n-octylphthalate	ND	370	19
Benzo(b)fluoranthene	39 J	74	16
Benzo(k)fluoranthene	ND	74	20
Benzo(a)pyrene	22 J	74	17
Indeno(1,2,3-cd)pyrene	ND	74	17
Dibenz(a,h)anthracene	ND	74	16
Benzo(g,h,i)perylene	16 J	74	14

Surrogate	%REC	Limits
2-Fluorophenol	46	25-120
Phenol-d5	55	36-120
2,4,6-Tribromophenol	103	27-120
Nitrobenzene-d5	64	44-120
2-Fluorobiphenyl	84	47-120
Terphenyl-d14	60	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2B-2.4	Batch#:	221053
Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	15
Phenol	ND	380	20
bis(2-Chloroethyl)ether	ND	380	14
2-Chlorophenol	ND	380	19
1,3-Dichlorobenzene	ND	380	8.5
1,4-Dichlorobenzene	ND	380	11
Benzyl alcohol	ND	380	18
1,2-Dichlorobenzene	ND	380	11
2-Methylphenol	ND	380	17
bis(2-Chloroisopropyl) ether	ND	380	21
4-Methylphenol	ND	380	20
N-Nitroso-di-n-propylamine	ND	380	12
Hexachloroethane	ND	380	9.3
Nitrobenzene	ND	380	8.8
Isophorone	ND	380	12
2-Nitrophenol	ND	750	11
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	350
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	11
Naphthalene	ND	75	9.9
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	68
4-Chloro-3-methylphenol	ND	380	17
2-Methylnaphthalene	12 J	75	11
Hexachlorocyclopentadiene	ND	750	68
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	9.9
2-Chloronaphthalene	ND	380	62
2-Nitroaniline	ND	750	9.0
Dimethylphthalate	ND	380	11
Acenaphthylene	ND	75	9.6
2,6-Dinitrotoluene	ND	380	9.9
3-Nitroaniline	ND	750	12
Acenaphthene	ND	75	7.8
2,4-Dinitrophenol	ND	750	47
4-Nitrophenol	ND	750	78
Dibenzofuran	ND	380	9.9
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	9.6
Fluorene	ND	75	10
4-Chlorophenyl-phenylether	ND	380	11
4-Nitroaniline	ND	750	8.9
4,6-Dinitro-2-methylphenol	ND	750	47
N-Nitrosodiphenylamine	ND	380	63
Azobenzene	ND	380	8.1
4-Bromophenyl-phenylether	ND	380	66
Hexachlorobenzene	ND	380	8.2

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2B-2.4	Batch#:	221053
Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	750	170
Phenanthrene	26 J	75	11
Anthracene	ND	75	7.8
Di-n-butylphthalate	ND	380	9.4
Fluoranthene	43 J	75	9.7
Pyrene	46 J	75	11
Butylbenzylphthalate	ND	380	9.4
3,3'-Dichlorobenzidine	ND	750	48
Benzo(a)anthracene	16 J	75	9.7
Chrysene	31 J	75	7.6
bis(2-Ethylhexyl)phthalate	ND	380	9.8
Di-n-octylphthalate	ND	380	9.5
Benzo(b)fluoranthene	37 J	75	9.3
Benzo(k)fluoranthene	ND	75	9.8
Benzo(a)pyrene	20 J	75	9.8
Indeno(1,2,3-cd)pyrene	14 J	75	9.1
Dibenz(a,h)anthracene	ND	75	7.8
Benzo(g,h,i)perylene	17 J	75	9.7

Surrogate	%REC	Limits
2-Fluorophenol	53	25-120
Phenol-d5	60	36-120
2,4,6-Tribromophenol	49	27-120
Nitrobenzene-d5	51	44-120
2-Fluorobiphenyl	48	47-120
Terphenyl-d14	51	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779662	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	13
Phenol	ND	330	17
bis(2-Chloroethyl)ether	ND	330	13
2-Chlorophenol	ND	330	16
1,3-Dichlorobenzene	ND	330	7.6
1,4-Dichlorobenzene	ND	330	10
Benzyl alcohol	ND	330	16
1,2-Dichlorobenzene	ND	330	9.5
2-Methylphenol	ND	330	15
bis(2-Chloroisopropyl) ether	ND	330	18
4-Methylphenol	ND	330	18
N-Nitroso-di-n-propylamine	ND	330	11
Hexachloroethane	ND	330	8.2
Nitrobenzene	ND	330	7.8
Isophorone	ND	330	11
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	310
bis(2-Chloroethoxy)methane	ND	330	11
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	9.7
Naphthalene	ND	67	8.8
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	61
4-Chloro-3-methylphenol	ND	330	15
2-Methylnaphthalene	ND	67	9.8
Hexachlorocyclopentadiene	ND	670	60
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	8.8
2-Chloronaphthalene	ND	330	55
2-Nitroaniline	ND	670	8.0
Dimethylphthalate	ND	330	9.3
Acenaphthylene	ND	67	8.5
2,6-Dinitrotoluene	ND	330	8.8
3-Nitroaniline	ND	670	11
Acenaphthene	ND	67	6.9
2,4-Dinitrophenol	ND	670	41
4-Nitrophenol	ND	670	69
Dibenzofuran	ND	330	8.8
2,4-Dinitrotoluene	ND	330	9.7
Diethylphthalate	ND	330	8.5
Fluorene	ND	67	8.9
4-Chlorophenyl-phenylether	ND	330	9.8
4-Nitroaniline	ND	670	7.9
4,6-Dinitro-2-methylphenol	ND	670	42
N-Nitrosodiphenylamine	ND	330	56
Azobenzene	ND	330	7.1
4-Bromophenyl-phenylether	ND	330	59
Hexachlorobenzene	ND	330	7.3
Pentachlorophenol	ND	670	150
Phenanthrene	ND	67	9.6
Anthracene	ND	67	6.9
Di-n-butylphthalate	ND	330	8.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779662	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	8.6
Pyrene	ND	67	9.4
Butylbenzylphthalate	ND	330	8.3
3,3'-Dichlorobenzidine	ND	670	43
Benzo(a)anthracene	ND	67	8.6
Chrysene	ND	67	6.8
bis(2-Ethylhexyl)phthalate	ND	330	8.7
Di-n-octylphthalate	ND	330	8.4
Benzo(b)fluoranthene	ND	67	8.2
Benzo(k)fluoranthene	ND	67	8.7
Benzo(a)pyrene	ND	67	8.7
Indeno(1,2,3-cd)pyrene	ND	67	8.1
Dibenz(a,h)anthracene	ND	67	6.9
Benzo(g,h,i)perylene	ND	67	8.6

Surrogate	%REC	Limits
2-Fluorophenol	86	25-120
Phenol-d5	93	36-120
2,4,6-Tribromophenol	68	27-120
Nitrobenzene-d5	80	44-120
2-Fluorobiphenyl	78	47-120
Terphenyl-d14	95	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779663	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,689	2,658	99	42-120
2-Chlorophenol	2,689	2,425	90	45-120
1,4-Dichlorobenzene	2,689	2,176	81	48-120
N-Nitroso-di-n-propylamine	2,689	2,509	93	27-123
1,2,4-Trichlorobenzene	2,689	2,187	81	50-120
4-Chloro-3-methylphenol	2,689	2,174	81	59-120
Acenaphthene	1,008	917.7	91	53-120
4-Nitrophenol	2,689	3,012	112	47-120
2,4-Dinitrotoluene	2,689	2,831	105	55-120
Pentachlorophenol	2,689	2,018	75	32-120
Pyrene	1,008	1,006	100	52-120

Surrogate	%REC	Limits
2-Fluorophenol	86	25-120
Phenol-d5	93	36-120
2,4,6-Tribromophenol	102	27-120
Nitrobenzene-d5	84	44-120
2-Fluorobiphenyl	80	47-120
Terphenyl-d14	89	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2B-2.4	Batch#:	221053
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: MS Moisture: 11%
Lab ID: QC779664

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<19.55	3,033	2,857	94	47-120
2-Chlorophenol	<18.58	3,033	2,584	85	44-120
1,4-Dichlorobenzene	<11.42	3,033	2,387	79	49-120
N-Nitroso-di-n-propylamine	<12.18	3,033	2,685	89	42-120
1,2,4-Trichlorobenzene	<10.91	3,033	2,307	76	54-120
4-Chloro-3-methylphenol	<16.60	3,033	2,212	73	55-120
Acenaphthene	<7.831	1,137	968.8	85	51-120
4-Nitrophenol	<77.61	3,033	3,060	101	36-120
2,4-Dinitrotoluene	<10.94	3,033	2,774	91	52-120
Pentachlorophenol	<167.5	3,033	1,812	60	14-120
Pyrene	45.82	1,137	1,169	99	46-124

Surrogate	%REC	Limits
2-Fluorophenol	78	25-120
Phenol-d5	85	36-120
2,4,6-Tribromophenol	82	27-120
Nitrobenzene-d5	76	44-120
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	83	49-120

Type: MSD Moisture: 11%
Lab ID: QC779665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,968	2,891	97	47-120	3	39
2-Chlorophenol	2,968	2,635	89	44-120	4	38
1,4-Dichlorobenzene	2,968	2,411	81	49-120	3	45
N-Nitroso-di-n-propylamine	2,968	2,754	93	42-120	5	40
1,2,4-Trichlorobenzene	2,968	2,372	80	54-120	5	38
4-Chloro-3-methylphenol	2,968	2,306	78	55-120	6	41
Acenaphthene	1,113	995.7	89	51-120	5	47
4-Nitrophenol	2,968	3,176	107	36-120	6	41
2,4-Dinitrotoluene	2,968	2,895	98	52-120	6	40
Pentachlorophenol	2,968	1,668	56	14-120	6	53
Pyrene	1,113	1,189	103	46-124	4	50

Surrogate	%REC	Limits
2-Fluorophenol	87	25-120
Phenol-d5	92	36-120
2,4,6-Tribromophenol	89	27-120
Nitrobenzene-d5	84	44-120
2-Fluorobiphenyl	80	47-120
Terphenyl-d14	90	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	EB-030515	Sampled:	03/05/15
Lab ID:	265085-010	Received:	03/05/15
Matrix:	Water	Prepared:	03/05/15
Units:	ug/L	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	10	2.3	221025	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	1.0	221025	EPA 3010A	EPA 6010B
Barium	ND	5.0	1.0	221025	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	0.15	221025	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	0.28	221025	EPA 3010A	EPA 6010B
Chromium	ND	5.0	0.60	221025	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	0.89	221025	EPA 3010A	EPA 6010B
Copper	ND	5.0	0.67	221025	EPA 3010A	EPA 6010B
Lead	ND	5.0	1.3	221025	EPA 3010A	EPA 6010B
Mercury	ND	0.20	0.021	221022	METHOD	EPA 7470A
Molybdenum	ND	5.0	0.55	221025	EPA 3010A	EPA 6010B
Nickel	ND	5.0	0.75	221025	EPA 3010A	EPA 6010B
Selenium	ND	10	2.3	221025	EPA 3010A	EPA 6010B
Silver	ND	5.0	1.1	221025	EPA 3010A	EPA 6010B
Thallium	ND	10	2.8	221025	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	0.72	221025	EPA 3010A	EPA 6010B
Zinc	ND	20	2.8	221025	EPA 3010A	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221022
Lab ID:	QC779531	Prepared:	03/05/15
Matrix:	Water	Analyzed:	03/05/15
Units:	ug/L		

Result	RL	MDL
ND	1.0	0.10

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	221022
Matrix:	Water	Prepared:	03/05/15
Units:	ug/L	Analyzed:	03/05/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779533	2.500	2.684	107	80-120		
BSD	QC779534	2.500	2.590	104	80-120	4	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	221022
Field ID:	ZZZZZZZZZZ	Sampled:	02/25/15
MSS Lab ID:	264936-024	Received:	02/27/15
Matrix:	Filtrate	Prepared:	03/05/15
Units:	ug/L	Analyzed:	03/05/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC779535	0.1763	12.50	14.41	114	60-130		
MSD	QC779536		12.50	12.56	99	60-130	14	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3010A
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779544	Batch#:	221025
Matrix:	Water	Prepared:	03/05/15
Units:	ug/L		

Analyte	Result	RL	MDL	Analyzed
Antimony	ND	10	0.65	03/05/15
Arsenic	ND	5.0	1.3	03/05/15
Barium	ND	5.0	1.0	03/05/15
Beryllium	ND	2.0	0.30	03/05/15
Cadmium	ND	5.0	0.58	03/05/15
Chromium	ND	5.0	0.57	03/05/15
Cobalt	ND	5.0	0.32	03/05/15
Copper	ND	5.0	0.99	03/05/15
Lead	ND	5.0	0.91	03/05/15
Molybdenum	ND	5.0	0.40	03/05/15
Nickel	ND	5.0	0.71	03/05/15
Selenium	ND	10	2.3	03/06/15
Silver	ND	5.0	0.66	03/05/15
Thallium	ND	10	2.0	03/05/15
Vanadium	ND	5.0	0.67	03/05/15
Zinc	5.6 J	20	3.0	03/05/15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3010A
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	221025
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000		

Type: BS Lab ID: QC779545

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	87.77	88	79-120	03/05/15
Arsenic	100.0	83.68	84	80-120	03/05/15
Barium	100.0	92.56	93	80-120	03/05/15
Beryllium	100.0	91.77	92	80-120	03/05/15
Cadmium	100.0	93.35	93	80-120	03/05/15
Chromium	100.0	91.14	91	80-120	03/05/15
Cobalt	100.0	88.39	88	80-120	03/05/15
Copper	100.0	87.91	88	80-120	03/05/15
Lead	100.0	85.86	86	80-120	03/05/15
Molybdenum	100.0	91.11	91	80-120	03/05/15
Nickel	100.0	88.14	88	80-120	03/05/15
Selenium	100.0	92.72	93	80-120	03/06/15
Silver	100.0	90.74	91	77-120	03/05/15
Thallium	50.00	46.59	93	80-121	03/05/15
Vanadium	100.0	92.70	93	80-120	03/05/15
Zinc	100.0	94.43	94	80-120	03/05/15

Type: BSD Lab ID: QC779546

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	83.50	84	79-120	5	20	03/05/15
Arsenic	100.0	80.43	80	80-120	4	20	03/05/15
Barium	100.0	87.02	87	80-120	6	20	03/05/15
Beryllium	100.0	86.63	87	80-120	6	20	03/05/15
Cadmium	100.0	88.09	88	80-120	6	20	03/05/15
Chromium	100.0	85.44	85	80-120	6	20	03/05/15
Cobalt	100.0	83.65	84	80-120	6	20	03/05/15
Copper	100.0	84.19	84	80-120	4	20	03/05/15
Lead	100.0	80.83	81	80-120	6	20	03/05/15
Molybdenum	100.0	86.26	86	80-120	5	20	03/05/15
Nickel	100.0	83.39	83	80-120	6	20	03/05/15
Selenium	100.0	86.61	87	80-120	7	20	03/06/15
Silver	100.0	85.36	85	77-120	6	20	03/05/15
Thallium	50.00	44.48	89	80-121	5	20	03/05/15
Vanadium	100.0	87.08	87	80-120	6	20	03/05/15
Zinc	100.0	86.36	86	80-120	9	20	03/05/15

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3010A
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	221025
MSS Lab ID:	265051-002	Sampled:	03/04/15
Matrix:	Water	Received:	03/04/15
Units:	ug/L	Prepared:	03/05/15
Diln Fac:	1.000		

Type: MS Lab ID: QC779547

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Antimony	<0.6500	100.0	93.65	94	74-120	03/06/15
Arsenic	<1.293	100.0	90.66	91	80-127	03/06/15
Barium	<1.028	100.0	97.79	98	80-120	03/06/15
Beryllium	<0.3000	100.0	96.74	97	80-120	03/06/15
Cadmium	<0.5791	100.0	97.55	98	80-120	03/06/15
Chromium	<0.5731	100.0	96.17	96	80-120	03/06/15
Cobalt	<0.3220	100.0	94.67	95	80-120	03/06/15
Copper	<0.9890	100.0	90.15	90	80-120	03/06/15
Lead	<0.9081	100.0	93.82	94	67-120	03/05/15
Molybdenum	<0.3995	100.0	98.66	99	80-120	03/06/15
Nickel	<0.7145	100.0	94.00	94	80-120	03/06/15
Selenium	<2.339	100.0	95.56	96	73-132	03/06/15
Silver	<0.6601	100.0	94.28	94	67-120	03/06/15
Thallium	<2.020	50.00	49.90	100	76-121	03/06/15
Vanadium	<0.6657	100.0	98.98	99	80-120	03/06/15
Zinc	<3.028	100.0	96.75	97	80-122	03/06/15

Type: MSD Lab ID: QC779548

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	94.70	95	74-120	1	24	03/06/15
Arsenic	100.0	94.02	94	80-127	4	25	03/06/15
Barium	100.0	98.91	99	80-120	1	20	03/06/15
Beryllium	100.0	97.62	98	80-120	1	20	03/06/15
Cadmium	100.0	99.70	100	80-120	2	20	03/06/15
Chromium	100.0	98.31	98	80-120	2	20	03/06/15
Cobalt	100.0	96.73	97	80-120	2	20	03/06/15
Copper	100.0	91.05	91	80-120	1	20	03/06/15
Lead	100.0	95.50	95	67-120	2	23	03/05/15
Molybdenum	100.0	100.4	100	80-120	2	20	03/06/15
Nickel	100.0	96.08	96	80-120	2	20	03/06/15
Selenium	100.0	96.17	96	73-132	1	30	03/06/15
Silver	100.0	95.66	96	67-120	1	22	03/06/15
Thallium	50.00	50.87	102	76-121	2	20	03/06/15
Vanadium	100.0	99.84	100	80-120	1	20	03/06/15
Zinc	100.0	99.28	99	80-122	3	20	03/06/15

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-1SW-1.2	Diln Fac:	1.000
Lab ID:	265085-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 9%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.60	0.18	221066	EPA 3050B	EPA 6010B
Arsenic	14	0.30	0.087	221066	EPA 3050B	EPA 6010B
Barium	190	0.30	0.064	221066	EPA 3050B	EPA 6010B
Beryllium	0.45	0.12	0.015	221066	EPA 3050B	EPA 6010B
Cadmium	2.4	0.30	0.030	221066	EPA 3050B	EPA 6010B
Chromium	52	0.30	0.075	221066	EPA 3050B	EPA 6010B
Cobalt	13	0.30	0.036	221066	EPA 3050B	EPA 6010B
Copper	58	0.30	0.10	221066	EPA 3050B	EPA 6010B
Lead	310	0.30	0.083	221066	EPA 3050B	EPA 6010B
Mercury	0.38	0.017	0.00096	221071	METHOD	EPA 7471A
Molybdenum	4.1	0.30	0.058	221066	EPA 3050B	EPA 6010B
Nickel	71	0.30	0.079	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.19	221066	EPA 3050B	EPA 6010B
Silver	0.056 J	0.30	0.048	221066	EPA 3050B	EPA 6010B
Thallium	0.28 J	0.60	0.17	221066	EPA 3050B	EPA 6010B
Vanadium	52	0.30	0.068	221066	EPA 3050B	EPA 6010B
Zinc	170	1.2	0.067	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-2SW-1.2	Sampled:	03/05/15
Lab ID:	265085-002	Received:	03/05/15
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Basis:	dry		

Moisture: 12%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	0.59	0.18	1.000	221066	EPA 3050B	EPA 6010B
Arsenic	3.7	0.30	0.086	1.000	221066	EPA 3050B	EPA 6010B
Barium	700	30	6.4	100.0	221066	EPA 3050B	EPA 6010B
Beryllium	0.24	0.12	0.015	1.000	221066	EPA 3050B	EPA 6010B
Cadmium	3.2	0.30	0.030	1.000	221066	EPA 3050B	EPA 6010B
Chromium	300	0.30	0.075	1.000	221066	EPA 3050B	EPA 6010B
Cobalt	20	0.30	0.035	1.000	221066	EPA 3050B	EPA 6010B
Copper	69	0.30	0.099	1.000	221066	EPA 3050B	EPA 6010B
Lead	5,100	30	8.2	100.0	221066	EPA 3050B	EPA 6010B
Mercury	0.96	0.034	0.0019	2.000	221071	METHOD	EPA 7471A
Molybdenum	3.4	0.30	0.058	1.000	221066	EPA 3050B	EPA 6010B
Nickel	54	0.30	0.078	1.000	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.19	1.000	221066	EPA 3050B	EPA 6010B
Silver	0.40	0.30	0.047	1.000	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.17	1.000	221066	EPA 3050B	EPA 6010B
Vanadium	95	0.30	0.068	1.000	221066	EPA 3050B	EPA 6010B
Zinc	510	1.2	0.066	1.000	221066	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-3SW-1.2	Sampled:	03/05/15
Lab ID:	265085-003	Received:	03/05/15
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Basis:	dry		

Moisture: 2%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	0.54	0.16	1.000	221066	EPA 3050B	EPA 6010B
Arsenic	4.3	0.27	0.078	1.000	221066	EPA 3050B	EPA 6010B
Barium	87	0.27	0.058	1.000	221066	EPA 3050B	EPA 6010B
Beryllium	0.19	0.11	0.013	1.000	221066	EPA 3050B	EPA 6010B
Cadmium	2.4	0.27	0.027	1.000	221066	EPA 3050B	EPA 6010B
Chromium	230	0.27	0.068	1.000	221066	EPA 3050B	EPA 6010B
Cobalt	16	0.27	0.032	1.000	221066	EPA 3050B	EPA 6010B
Copper	56	0.27	0.090	1.000	221066	EPA 3050B	EPA 6010B
Lead	1,800	27	7.5	100.0	221066	EPA 3050B	EPA 6010B
Mercury	0.43	0.018	0.0010	1.000	221071	METHOD	EPA 7471A
Molybdenum	2.2	0.27	0.052	1.000	221066	EPA 3050B	EPA 6010B
Nickel	45	0.27	0.071	1.000	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.54	0.17	1.000	221066	EPA 3050B	EPA 6010B
Silver	0.35	0.27	0.043	1.000	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.54	0.15	1.000	221066	EPA 3050B	EPA 6010B
Vanadium	100	0.27	0.061	1.000	221066	EPA 3050B	EPA 6010B
Zinc	340	1.1	0.060	1.000	221066	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-4SW-1.2	Sampled:	03/05/15
Lab ID:	265085-004	Received:	03/05/15
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Basis:	dry		

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	0.55	0.16	1.000	221066	EPA 3050B	EPA 6010B
Arsenic	4.4	0.28	0.080	1.000	221066	EPA 3050B	EPA 6010B
Barium	220	0.28	0.059	1.000	221066	EPA 3050B	EPA 6010B
Beryllium	0.24	0.11	0.014	1.000	221066	EPA 3050B	EPA 6010B
Cadmium	1.0	0.28	0.028	1.000	221066	EPA 3050B	EPA 6010B
Chromium	33	0.28	0.069	1.000	221066	EPA 3050B	EPA 6010B
Cobalt	5.7	0.28	0.033	1.000	221066	EPA 3050B	EPA 6010B
Copper	33	0.28	0.092	1.000	221066	EPA 3050B	EPA 6010B
Lead	1,100	28	7.7	100.0	221066	EPA 3050B	EPA 6010B
Mercury	0.23	0.020	0.0011	1.000	221071	METHOD	EPA 7471A
Molybdenum	0.63	0.28	0.054	1.000	221066	EPA 3050B	EPA 6010B
Nickel	22	0.28	0.072	1.000	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.18	1.000	221066	EPA 3050B	EPA 6010B
Silver	0.23 J	0.28	0.044	1.000	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.15	1.000	221066	EPA 3050B	EPA 6010B
Vanadium	23	0.28	0.063	1.000	221066	EPA 3050B	EPA 6010B
Zinc	200	1.1	0.062	1.000	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-5SW-1.2	Sampled:	03/05/15
Lab ID:	265085-005	Received:	03/05/15
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Basis:	dry		

Moisture: 30%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	0.74	0.22	1.000	221066	EPA 3050B	EPA 6010B
Arsenic	6.9	0.37	0.11	1.000	221066	EPA 3050B	EPA 6010B
Barium	440	0.37	0.080	1.000	221066	EPA 3050B	EPA 6010B
Beryllium	0.34	0.15	0.018	1.000	221066	EPA 3050B	EPA 6010B
Cadmium	9.9	0.37	0.038	1.000	221066	EPA 3050B	EPA 6010B
Chromium	1,100	37	9.4	100.0	221066	EPA 3050B	EPA 6010B
Cobalt	17	0.37	0.045	1.000	221066	EPA 3050B	EPA 6010B
Copper	75	0.37	0.12	1.000	221066	EPA 3050B	EPA 6010B
Lead	2,700	37	10	100.0	221066	EPA 3050B	EPA 6010B
Mercury	0.49	0.022	0.0012	1.000	221071	METHOD	EPA 7471A
Molybdenum	2.7	0.37	0.073	1.000	221066	EPA 3050B	EPA 6010B
Nickel	45	0.37	0.098	1.000	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.74	0.24	1.000	221066	EPA 3050B	EPA 6010B
Silver	ND	0.37	0.059	1.000	221066	EPA 3050B	EPA 6010B
Thallium	0.51 J	0.74	0.21	1.000	221066	EPA 3050B	EPA 6010B
Vanadium	40	0.37	0.085	1.000	221066	EPA 3050B	EPA 6010B
Zinc	3,100	150	8.3	100.0	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-6SW-1.2	Diln Fac:	1.000
Lab ID:	265085-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 35%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.81	0.24	221066	EPA 3050B	EPA 6010B
Arsenic	7.2	0.40	0.12	221066	EPA 3050B	EPA 6010B
Barium	260	0.40	0.087	221066	EPA 3050B	EPA 6010B
Beryllium	0.50	0.16	0.020	221066	EPA 3050B	EPA 6010B
Cadmium	1.9	0.40	0.041	221066	EPA 3050B	EPA 6010B
Chromium	6.8	0.40	0.10	221066	EPA 3050B	EPA 6010B
Cobalt	12	0.40	0.048	221066	EPA 3050B	EPA 6010B
Copper	47	0.40	0.13	221066	EPA 3050B	EPA 6010B
Lead	74	0.40	0.11	221066	EPA 3050B	EPA 6010B
Mercury	0.13	0.027	0.0015	221071	METHOD	EPA 7471A
Molybdenum	0.43	0.40	0.079	221066	EPA 3050B	EPA 6010B
Nickel	5.2	0.40	0.11	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.81	0.26	221066	EPA 3050B	EPA 6010B
Silver	0.28 J	0.40	0.065	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.81	0.23	221066	EPA 3050B	EPA 6010B
Vanadium	66	0.40	0.092	221066	EPA 3050B	EPA 6010B
Zinc	99	1.6	0.091	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-1B-2.4	Diln Fac:	1.000
Lab ID:	265085-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.53	0.16	221066	EPA 3050B	EPA 6010B
Arsenic	5.7	0.26	0.077	221066	EPA 3050B	EPA 6010B
Barium	150	0.26	0.057	221066	EPA 3050B	EPA 6010B
Beryllium	0.48	0.11	0.013	221066	EPA 3050B	EPA 6010B
Cadmium	0.96	0.26	0.027	221066	EPA 3050B	EPA 6010B
Chromium	35	0.26	0.067	221066	EPA 3050B	EPA 6010B
Cobalt	7.8	0.26	0.032	221066	EPA 3050B	EPA 6010B
Copper	36	0.27	0.088	221066	EPA 3050B	EPA 6010B
Lead	110	0.26	0.074	221066	EPA 3050B	EPA 6010B
Mercury	0.47	0.020	0.0011	221071	METHOD	EPA 7471A
Molybdenum	0.55	0.26	0.052	221066	EPA 3050B	EPA 6010B
Nickel	43	0.26	0.070	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.53	0.17	221066	EPA 3050B	EPA 6010B
Silver	0.25 J	0.26	0.042	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.53	0.15	221066	EPA 3050B	EPA 6010B
Vanadium	35	0.26	0.060	221066	EPA 3050B	EPA 6010B
Zinc	92	1.1	0.059	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265085	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH1-2B-2.4	Diln Fac:	1.000
Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.57	0.17	221066	EPA 3050B	EPA 6010B
Arsenic	7.4	0.29	0.083	221066	EPA 3050B	EPA 6010B
Barium	460	0.29	0.062	221066	EPA 3050B	EPA 6010B
Beryllium	0.41	0.11	0.014	221066	EPA 3050B	EPA 6010B
Cadmium	0.95	0.29	0.029	221066	EPA 3050B	EPA 6010B
Chromium	40	0.29	0.072	221066	EPA 3050B	EPA 6010B
Cobalt	12	0.29	0.034	221066	EPA 3050B	EPA 6010B
Copper	50	0.29	0.096	221066	EPA 3050B	EPA 6010B
Lead	68	0.29	0.080	221066	EPA 3050B	EPA 6010B
Mercury	0.43	0.020	0.0011	221071	METHOD	EPA 7471A
Molybdenum	0.56	0.29	0.056	221066	EPA 3050B	EPA 6010B
Nickel	52	0.29	0.075	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.18	221066	EPA 3050B	EPA 6010B
Silver	0.28 J	0.29	0.046	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.16	221066	EPA 3050B	EPA 6010B
Vanadium	41	0.29	0.065	221066	EPA 3050B	EPA 6010B
Zinc	72	1.1	0.064	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779702	Batch#:	221066
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	0.22 J	1.0	0.056

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221066
Units:	mg/Kg	Prepared:	03/06/15
Diln Fac:	5.000	Analyzed:	03/06/15

Type: BS Lab ID: QC779703

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	45.52	91	80-120
Arsenic	50.00	48.78	98	80-120
Barium	50.00	48.65	97	80-120
Beryllium	50.00	48.78	98	80-120
Cadmium	50.00	51.53	103	80-120
Chromium	50.00	49.43	99	80-120
Cobalt	50.00	47.57	95	80-120
Copper	50.00	46.82	94	80-120
Lead	50.00	45.55	91	80-120
Molybdenum	50.00	48.08	96	80-120
Nickel	50.00	48.65	97	80-120
Selenium	50.00	47.42	95	80-120
Silver	50.00	47.28	95	80-120
Thallium	50.00	47.66	95	80-120
Vanadium	50.00	50.89	102	80-120
Zinc	50.00	49.63	99	80-120

Type: BSD Lab ID: QC779704

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	43.36	87	80-120	5	20
Arsenic	50.00	46.25	93	80-120	5	20
Barium	50.00	45.18	90	80-120	7	20
Beryllium	50.00	45.49	91	80-120	7	20
Cadmium	50.00	47.87	96	80-120	7	20
Chromium	50.00	46.05	92	80-120	7	20
Cobalt	50.00	44.02	88	80-120	8	20
Copper	50.00	43.38	87	80-120	8	20
Lead	50.00	43.18	86	80-120	5	20
Molybdenum	50.00	45.69	91	80-120	5	20
Nickel	50.00	45.16	90	80-120	7	20
Selenium	50.00	44.74	89	80-120	6	20
Silver	50.00	43.92	88	80-120	7	20
Thallium	50.00	44.34	89	80-120	7	20
Vanadium	50.00	47.49	95	80-120	7	20
Zinc	50.00	45.70	91	80-120	8	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	TRENCH1-2B-2.4	Batch#:	221066
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Type: MS Moisture: 11%
Lab ID: QC779705

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1714	62.42	10.52	17	15-120
Arsenic	7.380	62.42	65.73	93	69-120
Barium	463.4	62.42	442.5	-33 NM	35-154
Beryllium	0.4132	62.42	59.05	94	75-120
Cadmium	0.9525	62.42	61.90	98	71-120
Chromium	40.49	62.42	105.4	104	57-133
Cobalt	11.80	62.42	70.08	93	56-125
Copper	49.71	62.42	112.0	100	54-144
Lead	67.54	62.42	141.7	119	53-125
Molybdenum	0.5648	62.42	55.83	89	66-120
Nickel	52.36	62.42	127.0	120	44-141
Selenium	<0.1831	62.42	55.04	88	61-120
Silver	0.2765	62.42	57.78	92	69-120
Thallium	<0.1610	62.42	54.71	88	59-120
Vanadium	40.56	62.42	105.4	104	52-144
Zinc	71.86	62.42	151.2	127	45-145

Type: MSD Moisture: 11%
Lab ID: QC779706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	54.54	8.557	16	15-120	7	41
Arsenic	54.54	60.92	98	69-120	4	35
Barium	54.54	453.2	-19 NM	35-154	4	36
Beryllium	54.54	53.86	98	75-120	4	20
Cadmium	54.54	56.61	102	71-120	4	25
Chromium	54.54	98.20	106	57-133	1	33
Cobalt	54.54	64.84	97	56-125	3	36
Copper	54.54	104.4	100	54-144	0	38
Lead	54.54	127.0	109	53-125	5	42
Molybdenum	54.54	51.15	93	66-120	5	20
Nickel	54.54	112.0	109	44-141	5	39
Selenium	54.54	50.14	92	61-120	4	33
Silver	54.54	52.18	95	69-120	3	22
Thallium	54.54	50.88	93	59-120	6	27
Vanadium	54.54	99.05	107	52-144	2	29
Zinc	54.54	135.9	117	45-145	5	39

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221071
Lab ID:	QC779722	Prepared:	03/06/15
Matrix:	Soil	Analyzed:	03/06/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	221071
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779723	0.2083	0.2154	103	80-120		
BSD	QC779724	0.2083	0.2149	103	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265085	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	TRENCH1-2B-2.4	Batch#:	221071
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC779725	0.4292	0.2508	0.7568	131	69-142	11%		
MSD	QC779726		0.2302	0.6468	94	69-142	11%	13	36

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265086
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
TBL1-8SW-1.6	265086-001
TBL1-9SW-0.8	265086-002
TBL1-10SW-2.3	265086-003
TBL1-2B-2.0	265086-004
TBL1-3B-4.5	265086-005
TBL1-4B-1.5	265086-006
TBL1-11SW-0.8	265086-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/09/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265086**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/05/15**
Samples Received:	**03/05/15**

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 03/05/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221050; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
TBL1-8SW-1.6 (lab # 265086-001) and TBL1-2B-2.0 (lab # 265086-004) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
TBL1-8SW-1.6 (lab # 265086-001) and TBL1-2B-2.0 (lab # 265086-004) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Zinc was detected between the MDL and the RL in the method blank for batch 221066; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

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Chain of Custody # _____

C&T LOGIN # 2605086

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 task 0202
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☑ RUSH 24 hr ☐ Standard

Sampler: Stephen Sherman
Report To: B. Deshields
Company: Integral Consulting Inc
Telephone:
Email: bdeshields@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	TPHg by 8015	TPHd by 8015	TPHmo by 8015	SVOCs by 8270	Titan12 metals by
1	TBL1-8SW-1.6	3/5/15	1000		X	5						X	X	X	X	X
2	TBL1-9SW-0.8	↓	1120		X	↓						↓	↓	↓	↓	↓
3	TBL1-10SW-2.3	↓	1150		↓	↓						↓	↓	↓	↓	↓
4	TBL1-2B-2.0	↓	1050		↓	↓						↓	↓	↓	↓	↓
5	TBL1-3B-4.5	↓	1220		↓	↓						↓	↓	↓	↓	↓
6	TBL1-4B-1.5	↓	1250		↓	↓						↓	↓	↓	↓	↓
7	TBL1-11SW-0.8	↓	1300		↓	↓						↓	↓	↓	↓	↓

SS 030515

Notes:
- Report to MDL
- EDFs required
- Report in dry weight with moisture %
- Homogenize samples

SAMPLE RECEIPT
☑ Intact
☑ Cold
☑ On Ice
☐ Ambient

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
Stephen Sherman	3/5/15	1630		3/5/15	1630
	3/5/15	1718		3/5/15	1718

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 2605086 Date Received 3/5/15 Number of coolers 2
Client Integral Project 9374

Date Opened 3/5 By (print) [illegible] (sign) [illegible]
Date Logged in " " By (print) " " (sign) " "

1. Did cooler come with a shipping slip (airbill, etc) ____ YES NO
   Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO N/A
3. Were custody papers dry and intact when received? ____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ YES NO
6. Indicate the packing in cooler: (if other, describe) ____

   ☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☐ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.9, 3.4

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES NO
   If YES, what time were they transferred to freezer? 1750
9. Did all bottles arrive unbroken/unopened? ____ YES NO
10. Are there any missing / extra samples? ____ YES NO
11. Are samples in the appropriate containers for indicated tests? ____ YES NO
12. Are sample labels present, in good condition and complete? ____ YES NO
13. Do the sample labels agree with custody papers? ____ YES NO
14. Was sufficient amount of sample sent for tests requested? ____ YES NO
15. Are the samples appropriately preserved? ____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO N/A
17. Did you document your preservative check? ____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES NO
    If YES, Who was called? ____ By ____ Date: ____

COMMENTS

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265086

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TBL1-8SW-1.6 Laboratory Sample ID : 265086-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.042	J	0.24	0.015	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	49	Y	3.9	1.2	mg/Kg	Dry	3.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	230		19	5.9	mg/Kg	Dry	3.000	EPA 8015B	EPA 3550B
Pyrene	51	J	430	47	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Arsenic	7.0		0.36	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	160		0.36	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.41		0.14	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.3		0.36	0.036	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	63		0.36	0.090	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	13		0.36	0.043	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	30		0.36	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	70		0.36	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.36		0.022	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.76		0.36	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	77		0.36	0.094	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.27	J	0.36	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	49		0.36	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	100		1.4	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	22		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-9SW-0.8 Laboratory Sample ID : 265086-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.032	J	0.22	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	1.4	Y	1.0	0.32	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	2.4	J	5.2	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Fluoranthene	13	J	69	9.0	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	15	J	69	9.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	9.4	J	69	8.9	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	9.2	J	350	9.1	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	5.3		0.24	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	25		0.24	0.051	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.27		0.095	0.012	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.1		0.24	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	44		0.24	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	14		0.24	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	3.9		0.24	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	5.3		0.24	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.021		0.016	0.00090	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.10	J	0.24	0.047	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	55		0.24	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.13	J	0.24	0.038	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	43		0.24	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	48		0.95	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	3		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TBL1-10SW-2.3 Laboratory Sample ID : 265086-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.022	J	0.21	0.013	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	42	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	150		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Fluoranthene	11	J	75	9.6	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	12	J	75	10	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	11	J	370	9.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	6.7		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	190		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.48		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.1		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	62		0.28	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.28	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	27		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	46		0.28	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.14		0.018	0.00098	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.73		0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	85		0.28	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.17	J	0.28	0.044	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	40		0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	68		1.1	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	11		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-2B-2.0 Laboratory Sample ID : 265086-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.049	J	0.19	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	63	Y	3.1	0.95	mg/Kg	Dry	3.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	310		16	4.7	mg/Kg	Dry	3.000	EPA 8015B	EPA 3550B
Phenanthrene	180	J	350	42	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Anthracene	50	J	350	47	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluoranthene	210	J	350	49	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Pyrene	200	J	350	38	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	110	J	350	35	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Chrysene	140	J	350	43	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	130	J	350	30	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	51	J	350	31	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	100	J	350	31	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	80	J	350	40	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	110	J	350	43	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Arsenic	7.5		0.27	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	210		0.27	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.32		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.6		0.27	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	49		0.27	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.7		0.27	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	48		0.27	0.090	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	640		27	7.6	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.31		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	1.0		0.27	0.053	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	31		0.27	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.45		0.27	0.043	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	39		0.27	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	270		1.1	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	4		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-3B-4.5 Laboratory Sample ID : 265086-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.049	J	0.27	0.017	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	16	Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	79		6.2	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Arsenic	5.0		0.29	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	210		0.29	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.36		0.12	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.67		0.29	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	38		0.29	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	5.8		0.29	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	17		0.29	0.096	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	10		0.29	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.065		0.021	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.30		0.29	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	44		0.29	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.49		0.29	0.046	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.36	J	0.58	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	43		0.29	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	44		1.2	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	18		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TBL1-4B-1.5 Laboratory Sample ID : 265086-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.053	J	0.25	0.016	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	15	Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	52		5.4	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
bis(2-Ethylhexyl)phthalate	20	J	360	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	6.0		0.27	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	140		0.27	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.41		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.96		0.27	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	64		0.27	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.27	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	21		0.27	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	32		0.27	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.24		0.017	0.00092	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.58		0.27	0.053	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	89		0.27	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.13	J	0.27	0.043	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	40		0.27	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	69		1.1	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	7		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TBL1-11SW-0.8 Laboratory Sample ID : 265086-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.055	J	0.25	0.016	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.6	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	5.9		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	13	J	76	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	16	J	76	9.8	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	19	J	76	11	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	11	J	76	9.8	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	8.5	J	76	7.7	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Arsenic	7.2		0.30	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	48		0.30	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.30		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.2		0.30	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	53		0.30	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	15		0.30	0.036	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	6.2		0.30	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	5.3		0.30	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.030		0.019	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.56		0.30	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	63		0.30	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.16	J	0.30	0.048	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	51		0.30	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	55		1.2	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	11		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221050
Units:	mg/Kg	Sampled:	03/05/15
Basis:	dry	Received:	03/05/15
Diln Fac:	1.000		

Field ID:	TBL1-8SW-1.6	Moisture:	22%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-001		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.24	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	78-138

Field ID:	TBL1-9SW-0.8	Moisture:	3%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-002		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.032 J	0.22	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Field ID:	TBL1-10SW-2.3	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-003		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.022 J	0.21	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	78-138

Field ID:	TBL1-2B-2.0	Moisture:	4%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-004		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.049 J	0.19	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221050
Units:	mg/Kg	Sampled:	03/05/15
Basis:	dry	Received:	03/05/15
Diln Fac:	1.000		

Field ID:	TBL1-3B-4.5	Moisture:	18%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-005		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.049 J	0.27	0.017

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Field ID:	TBL1-4B-1.5	Moisture:	7%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-006		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.053 J	0.25	0.016

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Field ID:	TBL1-11SW-0.8	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/06/15
Lab ID:	265086-007		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.055 J	0.25	0.016

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Type:	BLANK	Analyzed:	03/05/15
Lab ID:	QC779646		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.021 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	221050

Type: BS Analyzed: 03/05/15
Lab ID: QC779644

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.143	114	80-121

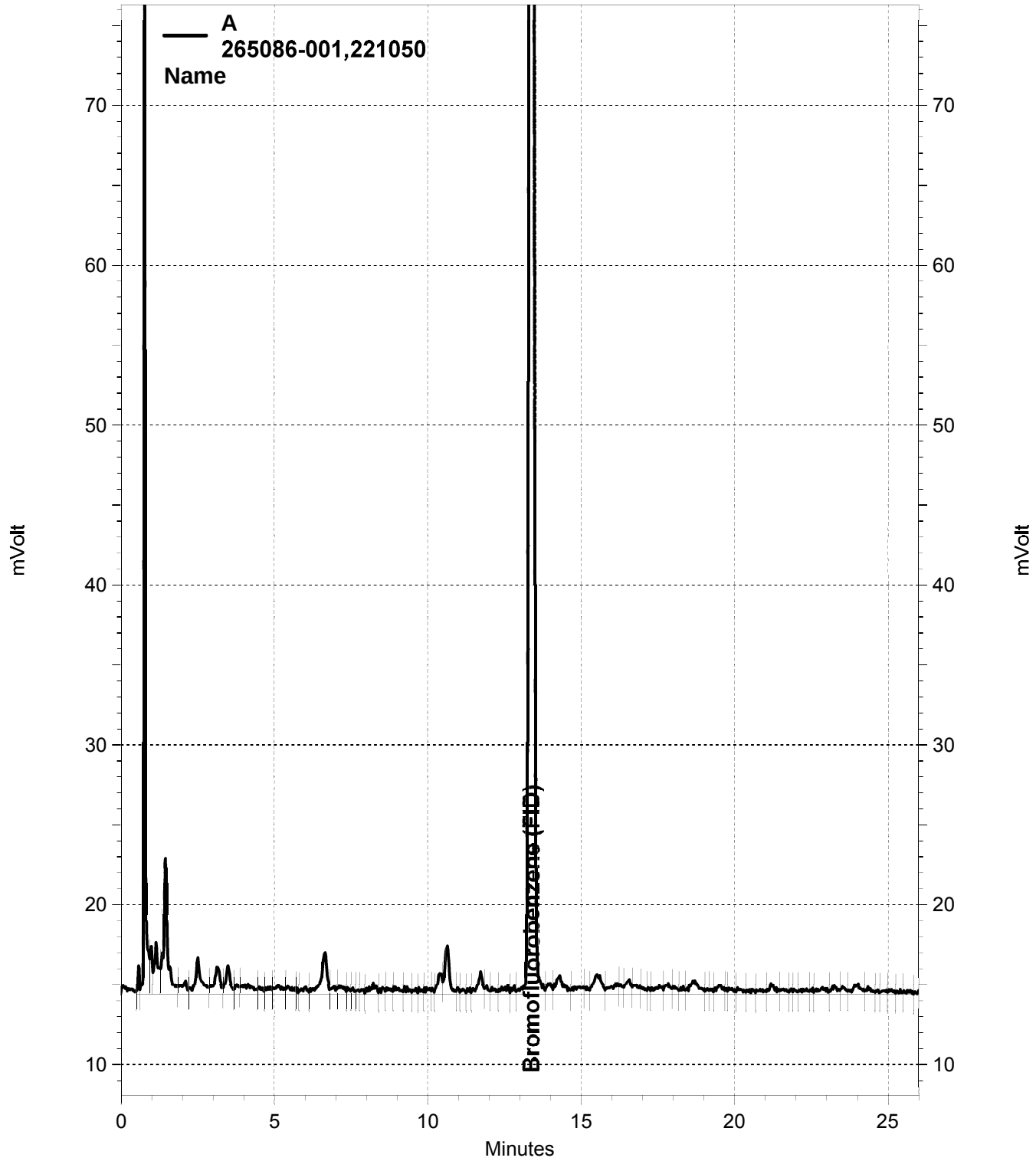
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Type: BSD Analyzed: 03/06/15
Lab ID: QC779645

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	3.000	3.561	119	80-121	4	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

RPD= Relative Percent Difference



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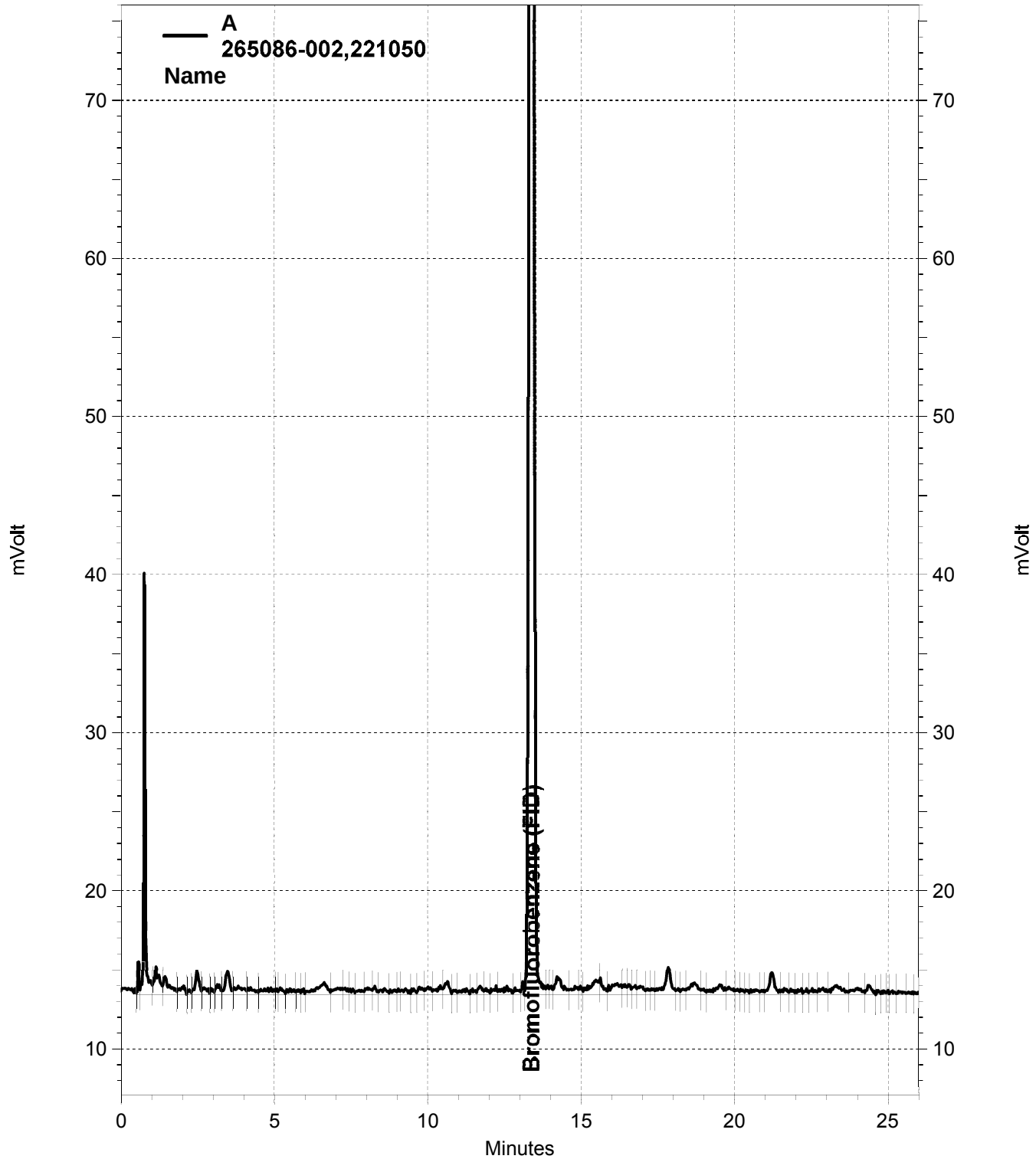

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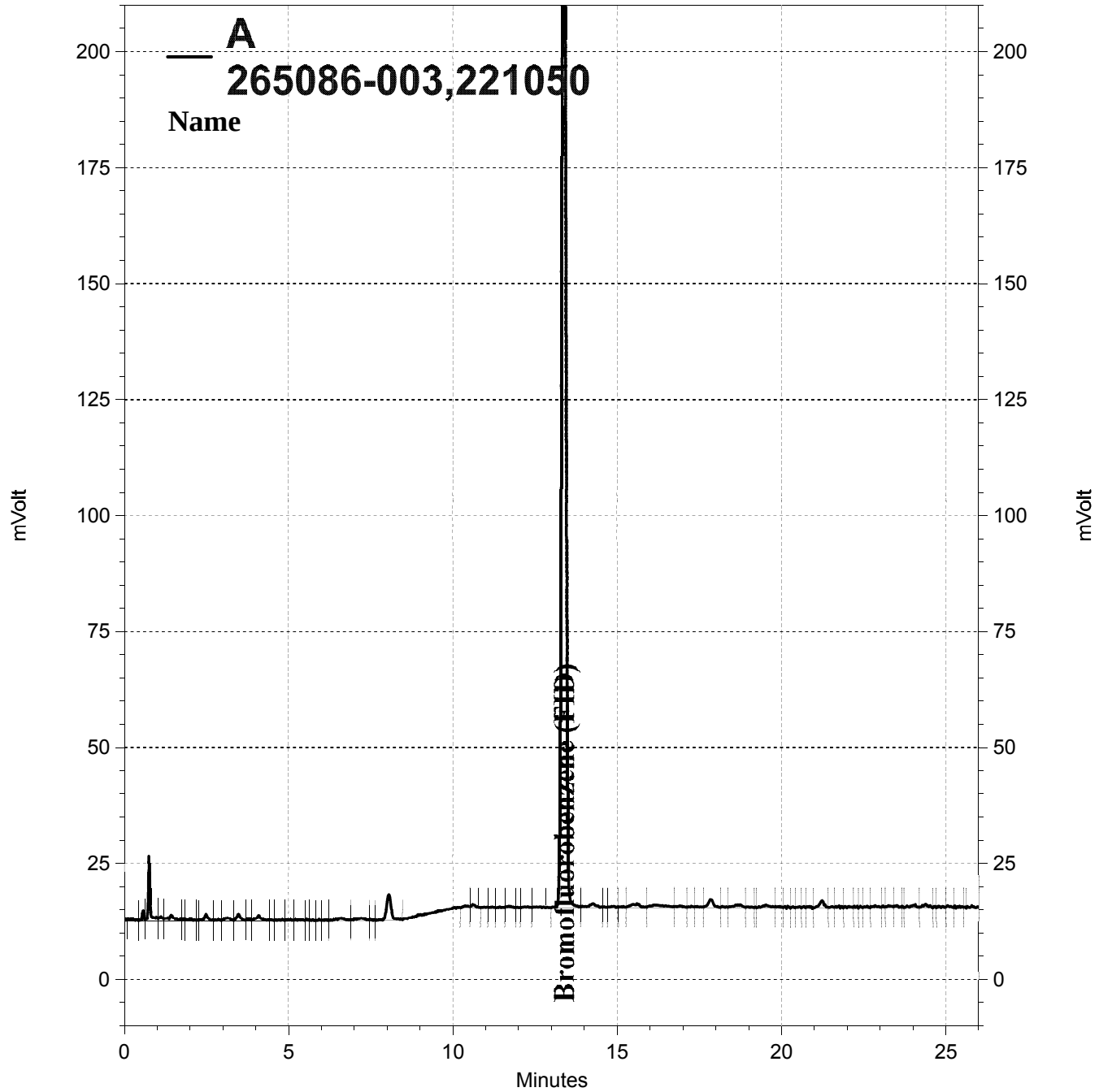

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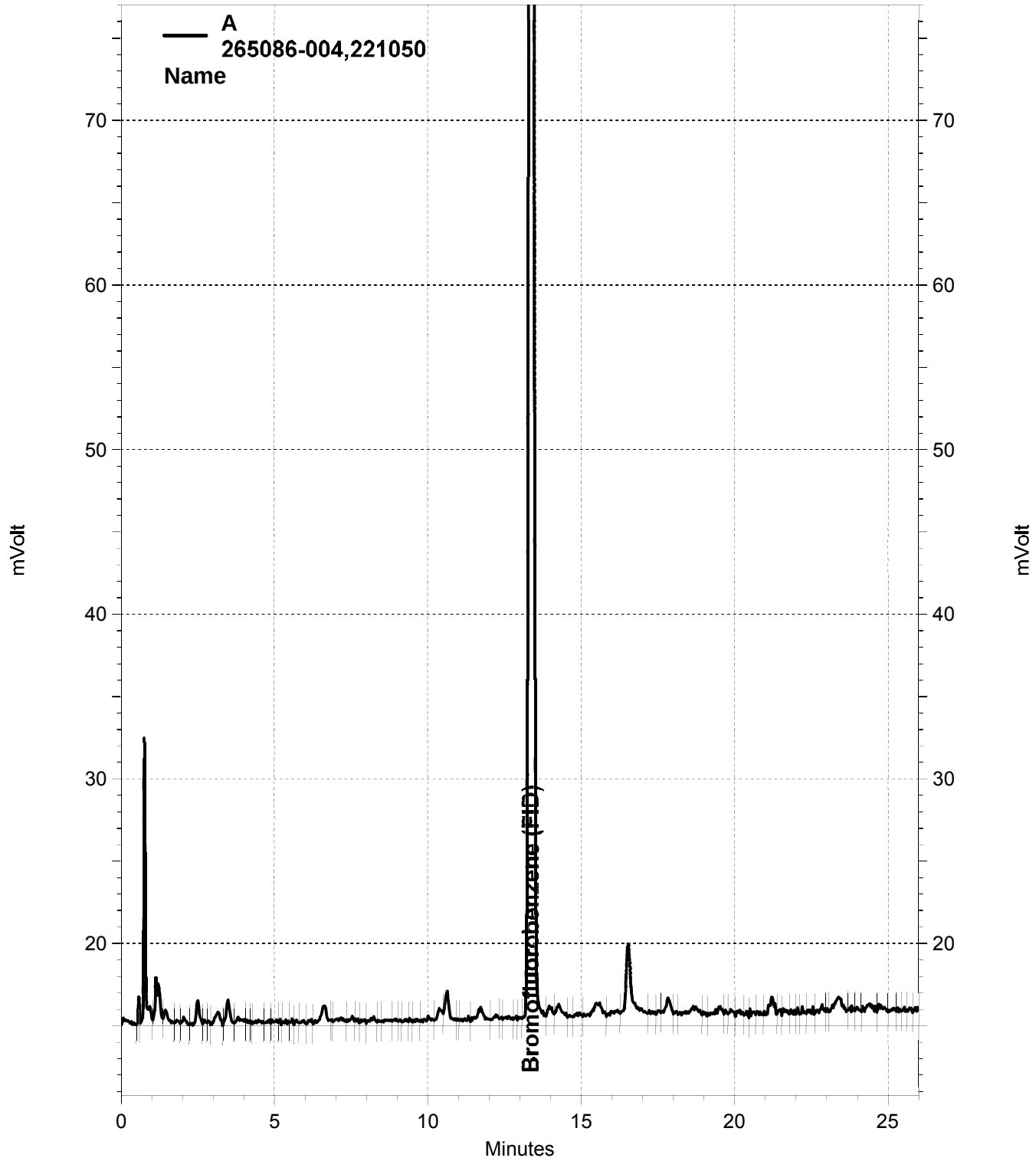

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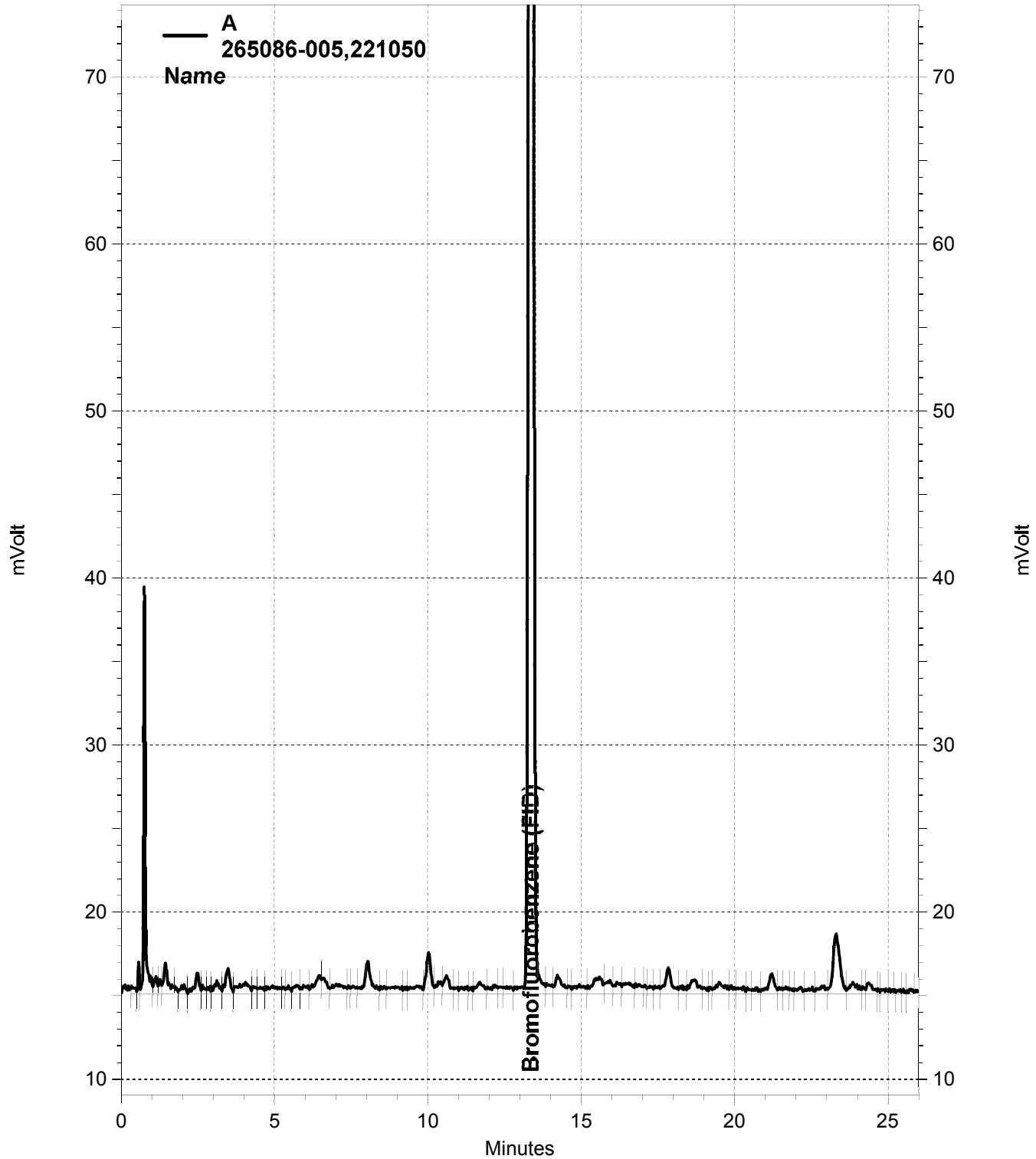

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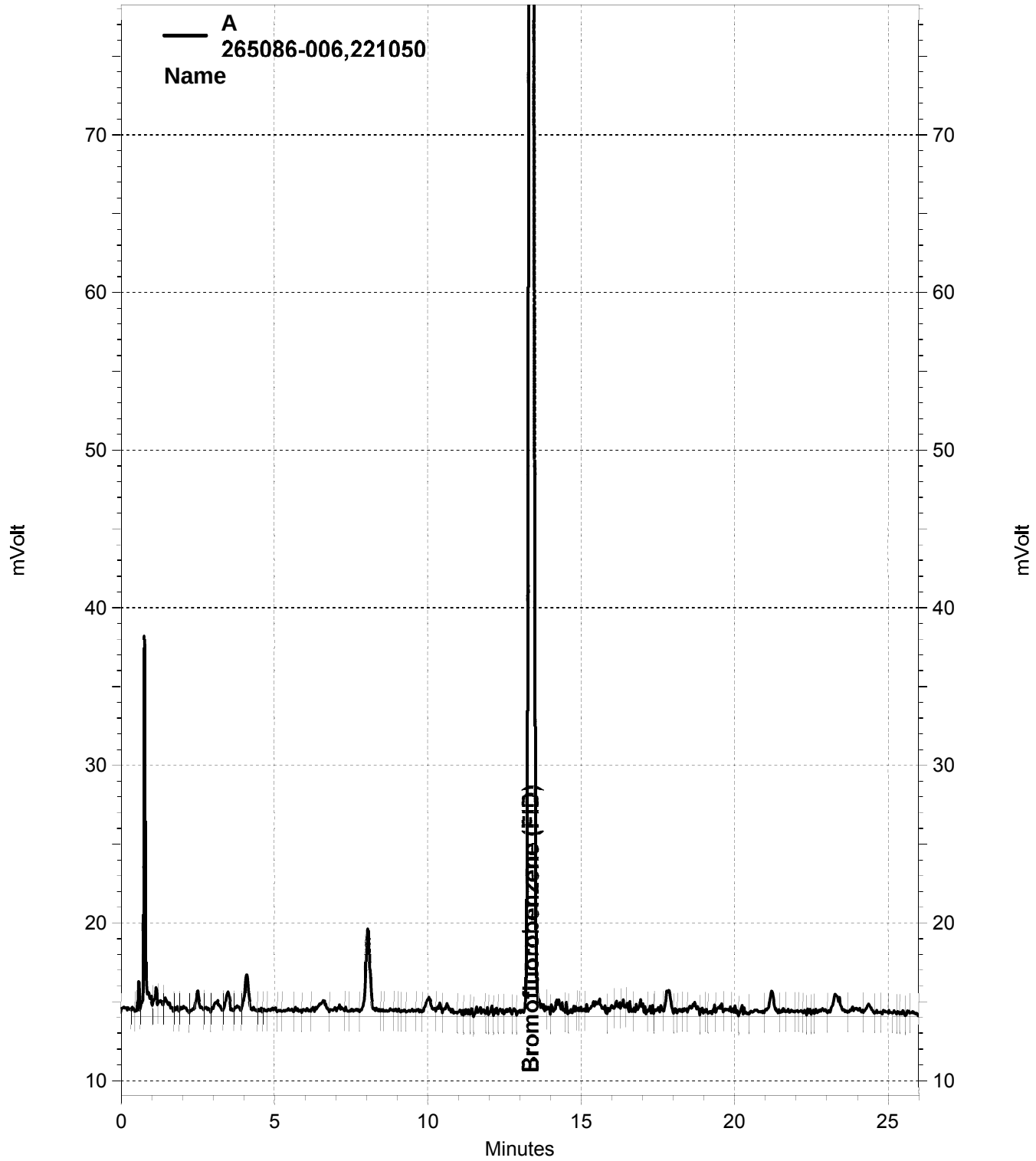

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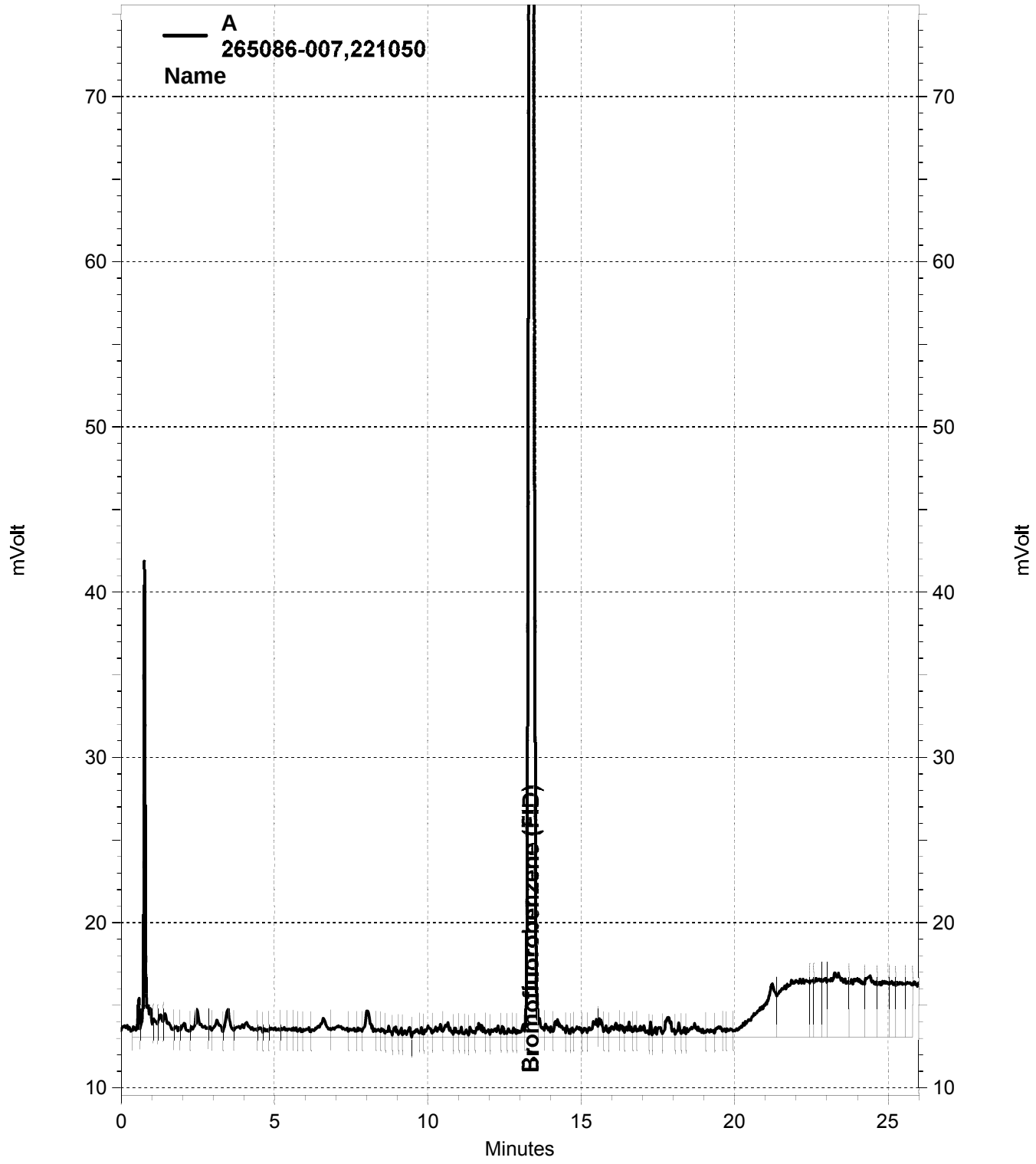

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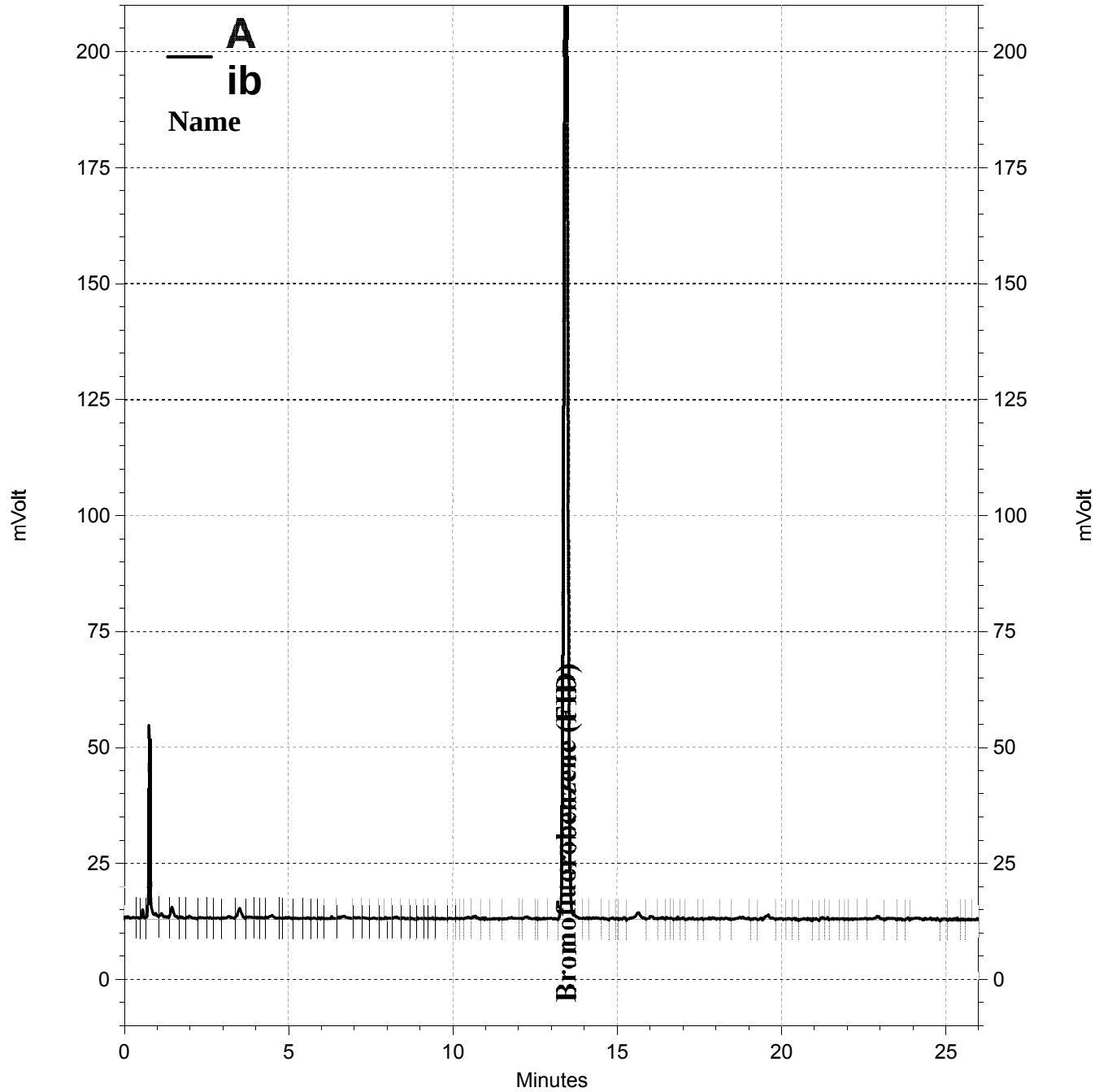

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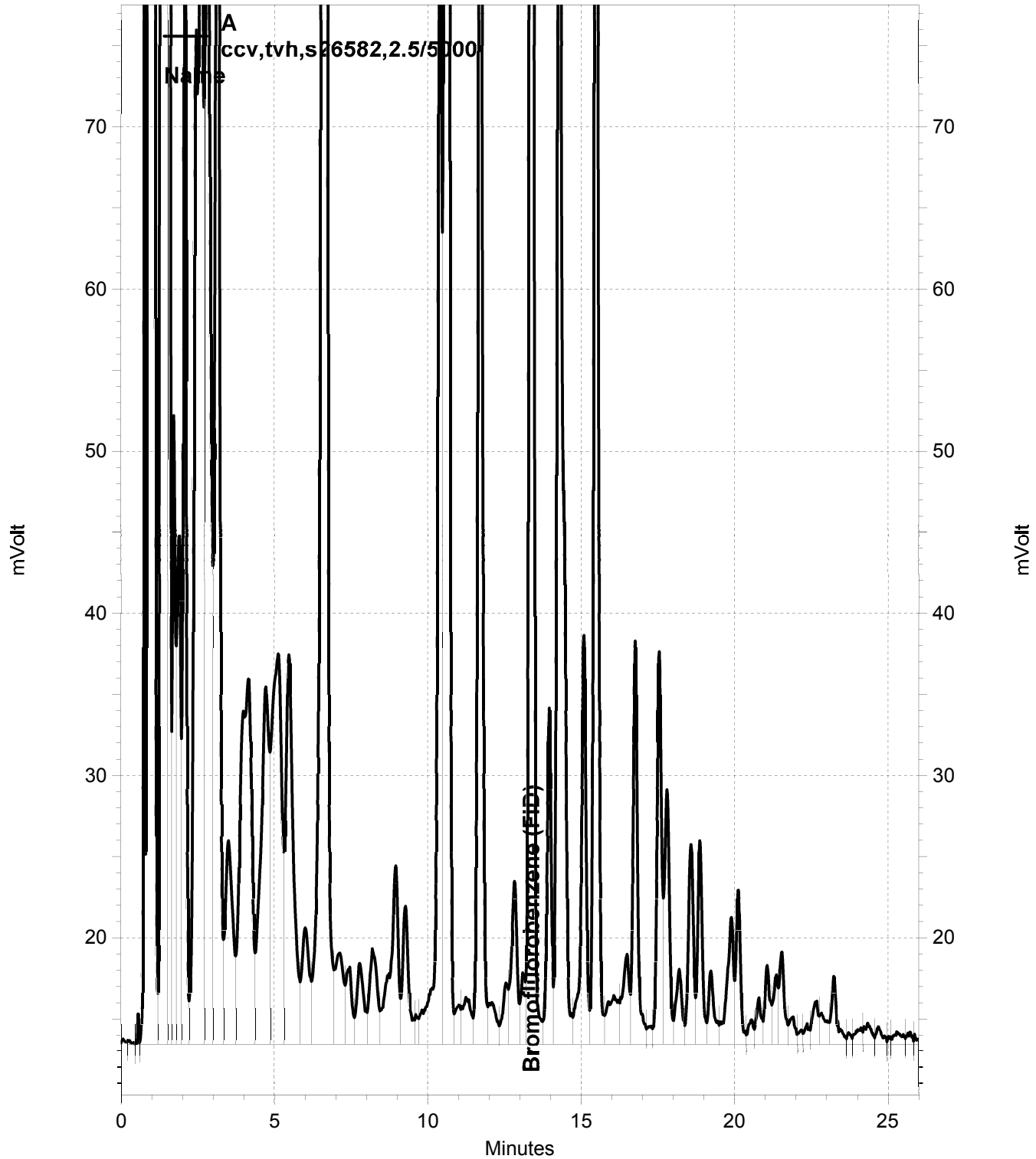

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry	Prepared:	03/05/15
Batch#:	221054	Analyzed:	03/06/15

Field ID: TBL1-8SW-1.6 Moisture: 22%
Type: SAMPLE Diln Fac: 3.000
Lab ID: 265086-001

Analyte	Result	RL	MDL
Diesel C10-C24	49 Y	3.9	1.2
Motor Oil C24-C36	230	19	5.9

Surrogate	%REC	Limits
o-Terphenyl	95	59-140

Field ID: TBL1-9SW-0.8 Moisture: 3%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265086-002

Analyte	Result	RL	MDL
Diesel C10-C24	1.4 Y	1.0	0.32
Motor Oil C24-C36	2.4 J	5.2	1.6

Surrogate	%REC	Limits
o-Terphenyl	104	59-140

Field ID: TBL1-10SW-2.3 Moisture: 11%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265086-003

Analyte	Result	RL	MDL
Diesel C10-C24	42 Y	1.1	0.35
Motor Oil C24-C36	150	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Field ID: TBL1-2B-2.0 Moisture: 4%
Type: SAMPLE Diln Fac: 3.000
Lab ID: 265086-004

Analyte	Result	RL	MDL
Diesel C10-C24	63 Y	3.1	0.95
Motor Oil C24-C36	310	16	4.7

Surrogate	%REC	Limits
o-Terphenyl	83	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/05/15
Units:	mg/Kg	Received:	03/05/15
Basis:	dry	Prepared:	03/05/15
Batch#:	221054	Analyzed:	03/06/15

Field ID:	TBL1-3B-4.5	Moisture:	18%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265086-005		

Analyte	Result	RL	MDL
Diesel C10-C24	16 Y	1.2	0.38
Motor Oil C24-C36	79	6.2	1.9

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Field ID:	TBL1-4B-1.5	Moisture:	7%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265086-006		

Analyte	Result	RL	MDL
Diesel C10-C24	15 Y	1.1	0.33
Motor Oil C24-C36	52	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	110	59-140

Field ID:	TBL1-11SW-0.8	Moisture:	11%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265086-007		

Analyte	Result	RL	MDL
Diesel C10-C24	2.6 Y	1.1	0.34
Motor Oil C24-C36	5.9	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779666		

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779667	Batch#:	221054
Matrix:	Soil	Prepared:	03/05/15
Units:	mg/Kg	Analyzed:	03/06/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	50.12	100	58-137

Surrogate	%REC	Limits
o-Terphenyl	113	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TRENCH1-2B-2.4	Batch#:	221054
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: MS Moisture: 11%
Lab ID: QC779668

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	9.809	56.56	59.96	89	46-154

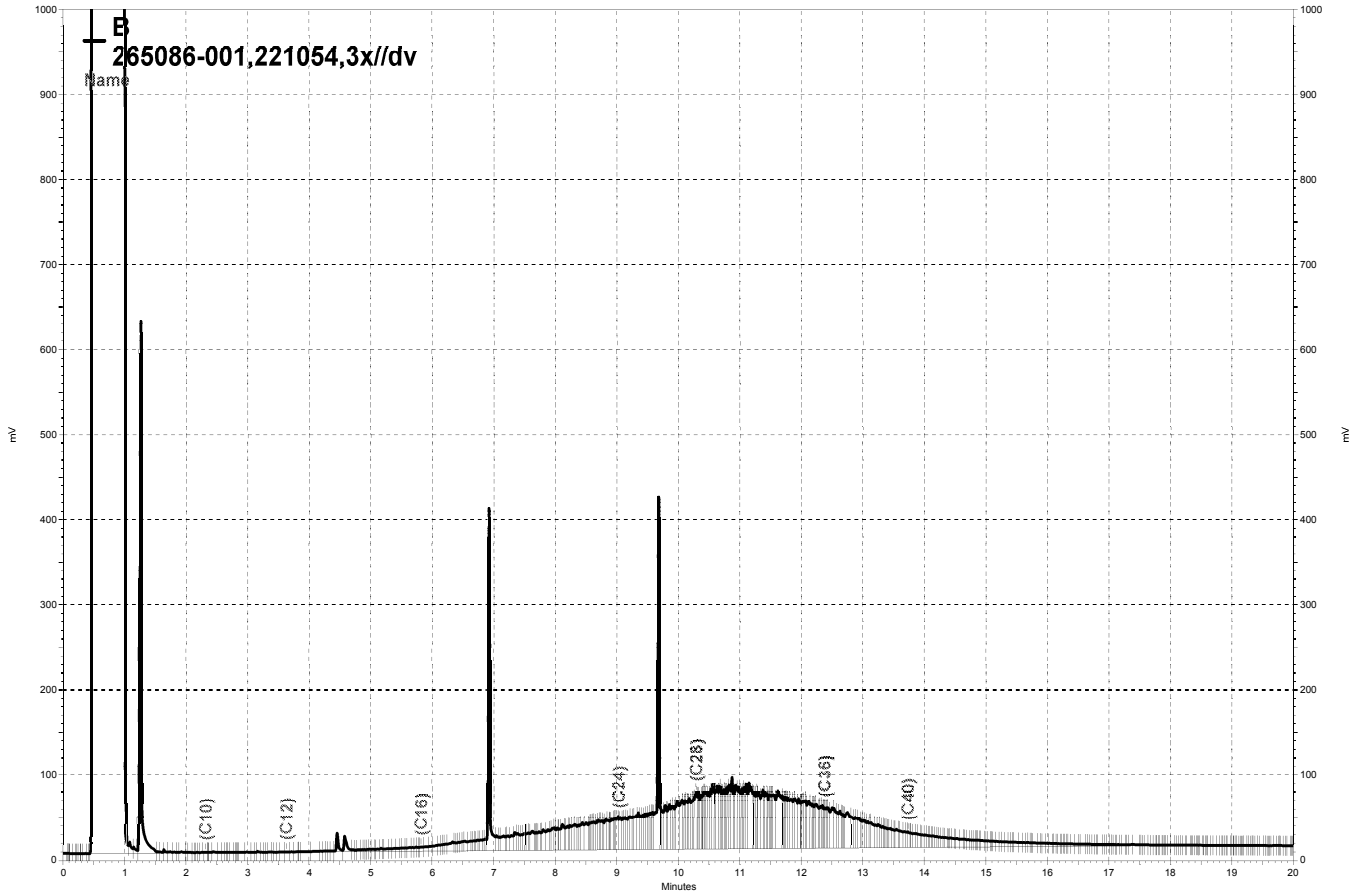
Surrogate	%REC	Limits
o-Terphenyl	93	59-140

Type: MSD Moisture: 11%
Lab ID: QC779669

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	56.18	56.76	84	46-154	5	50

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

RPD= Relative Percent Difference



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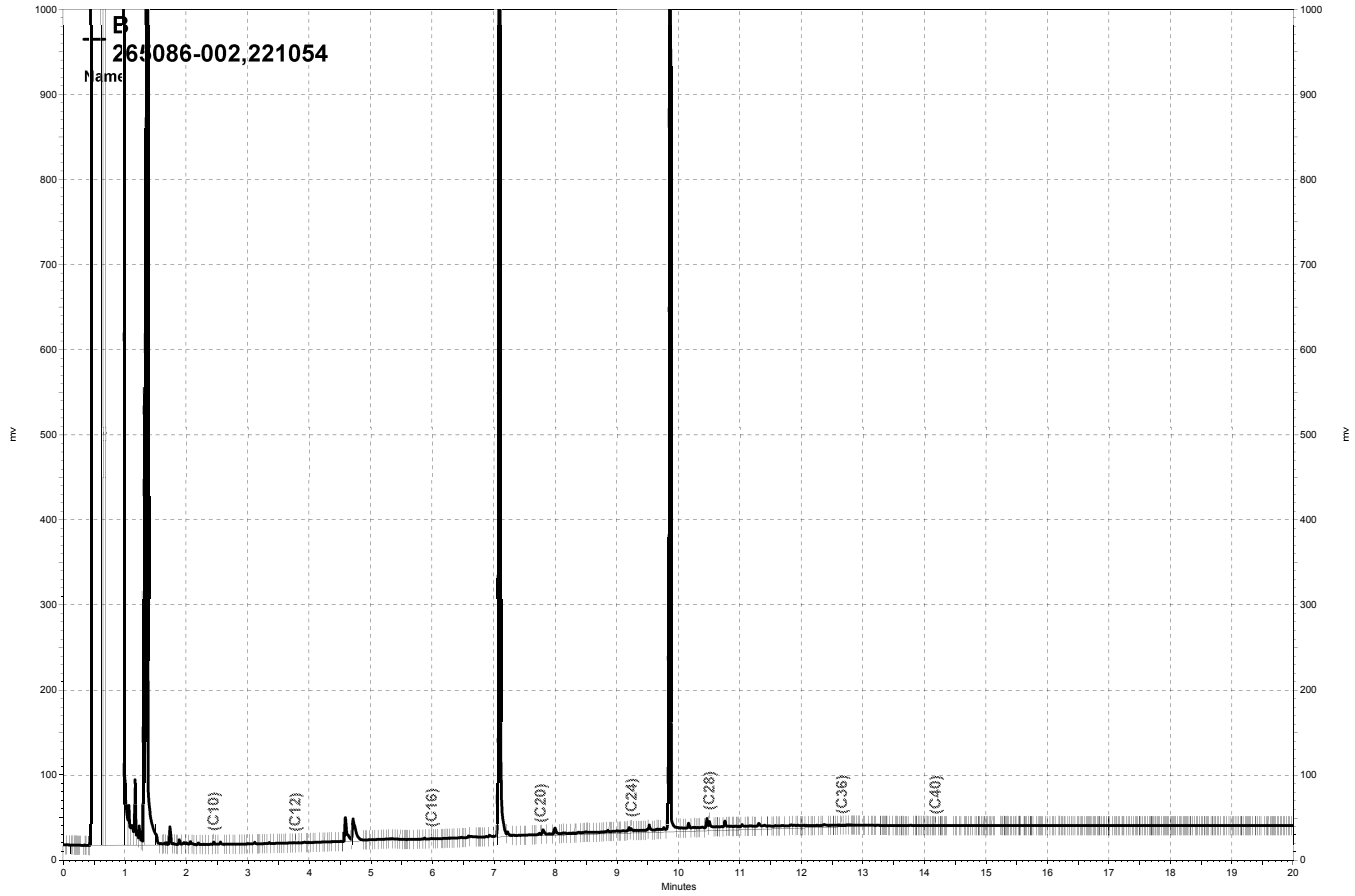

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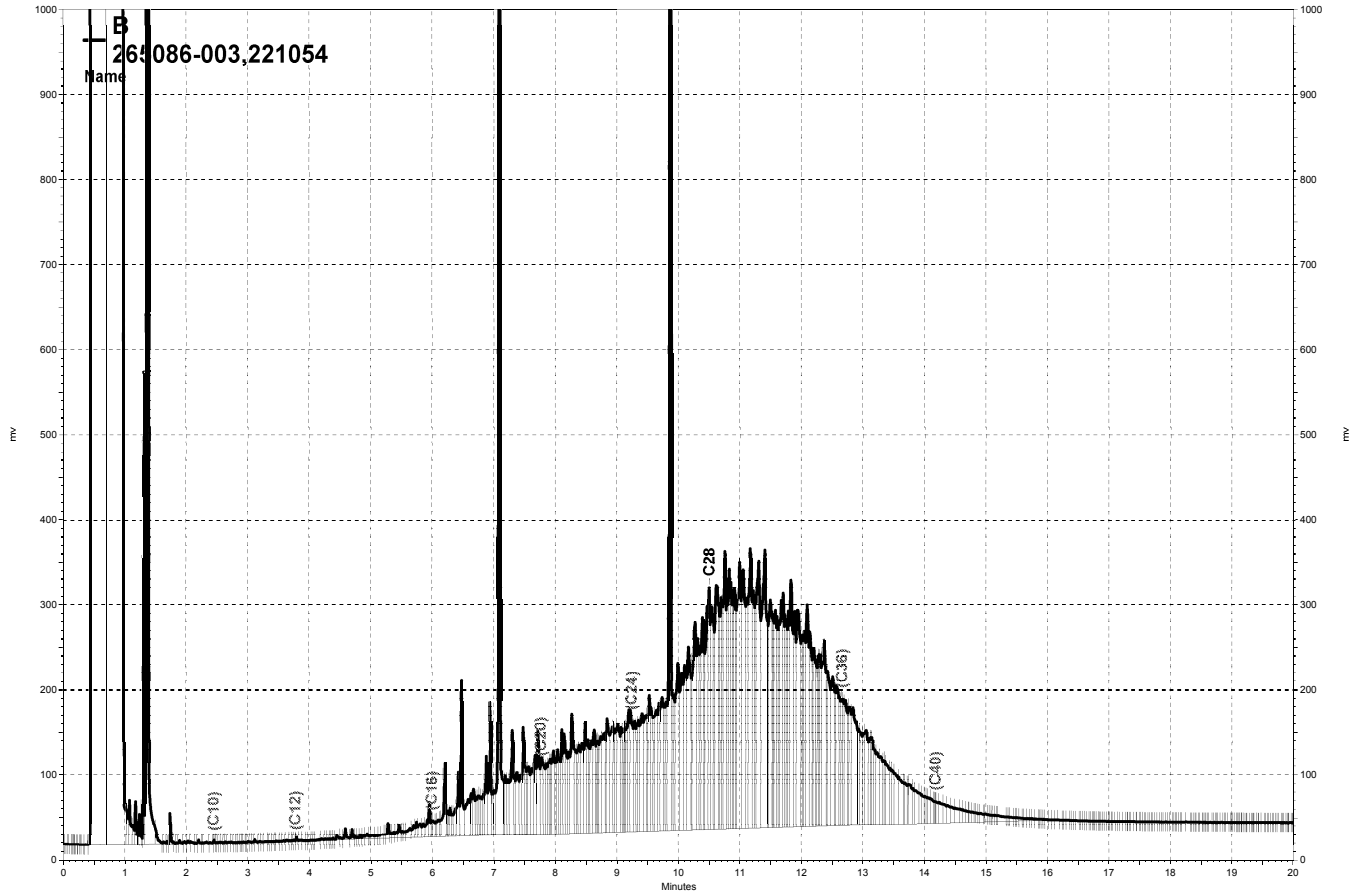

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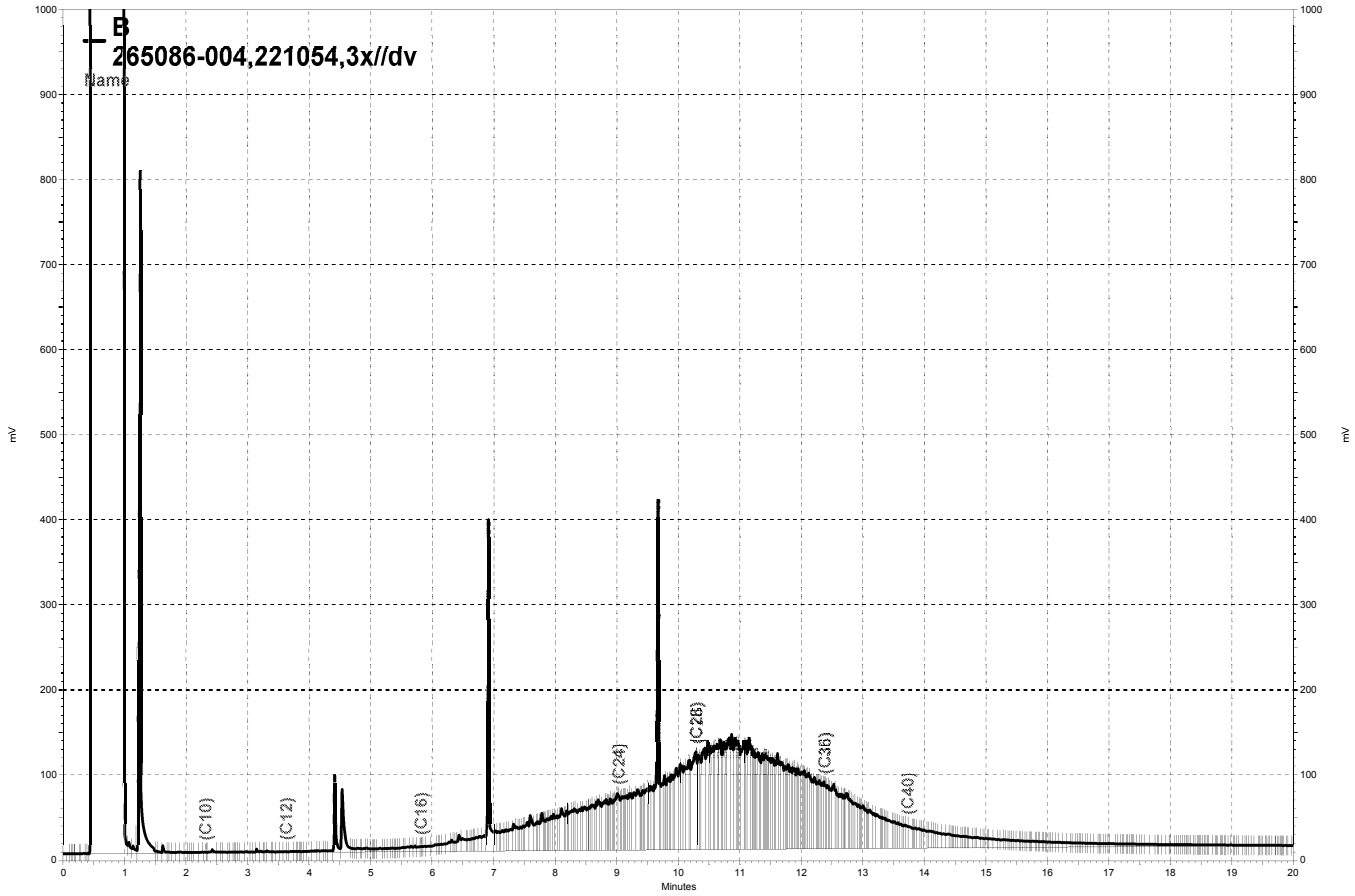

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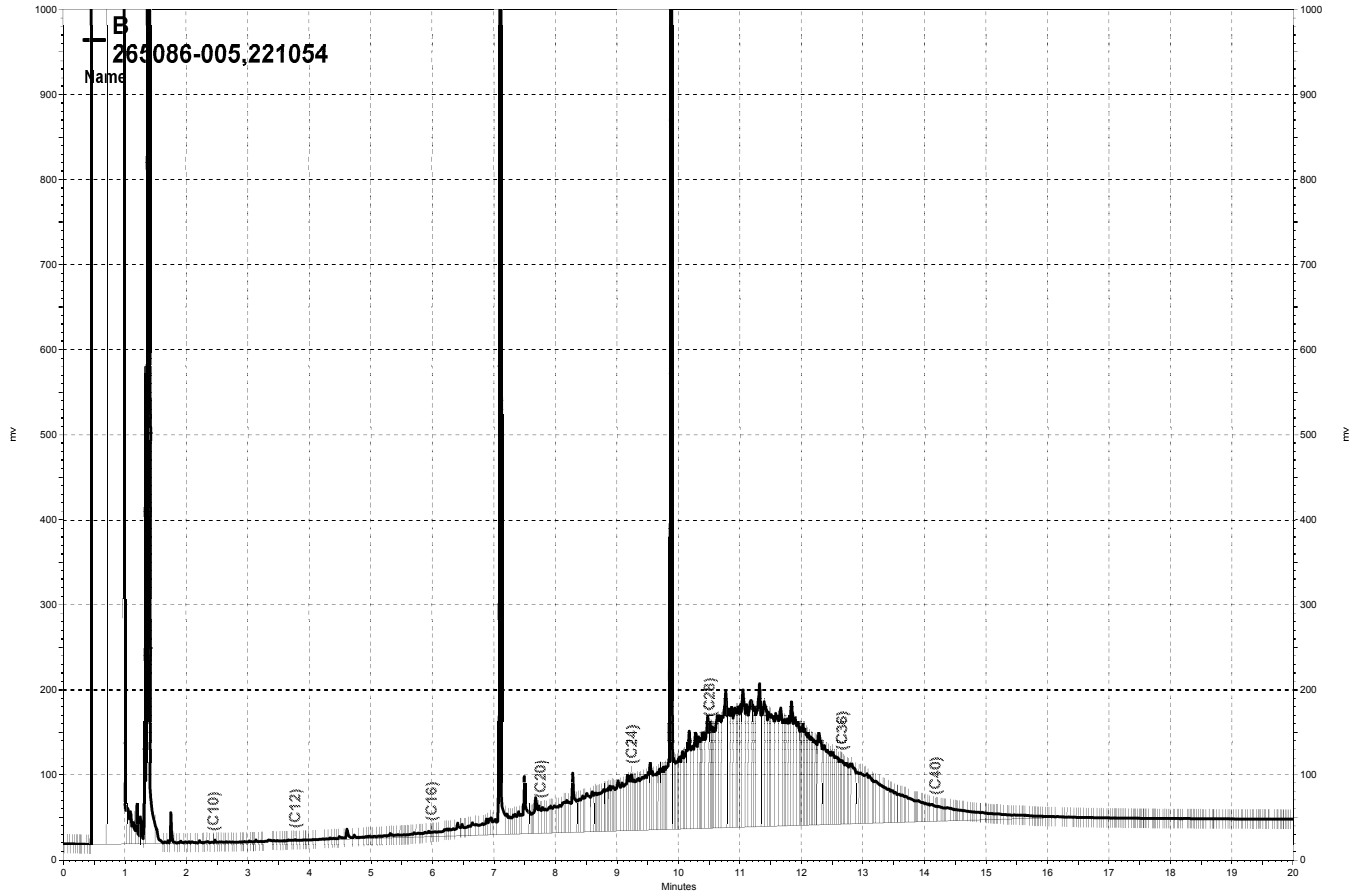

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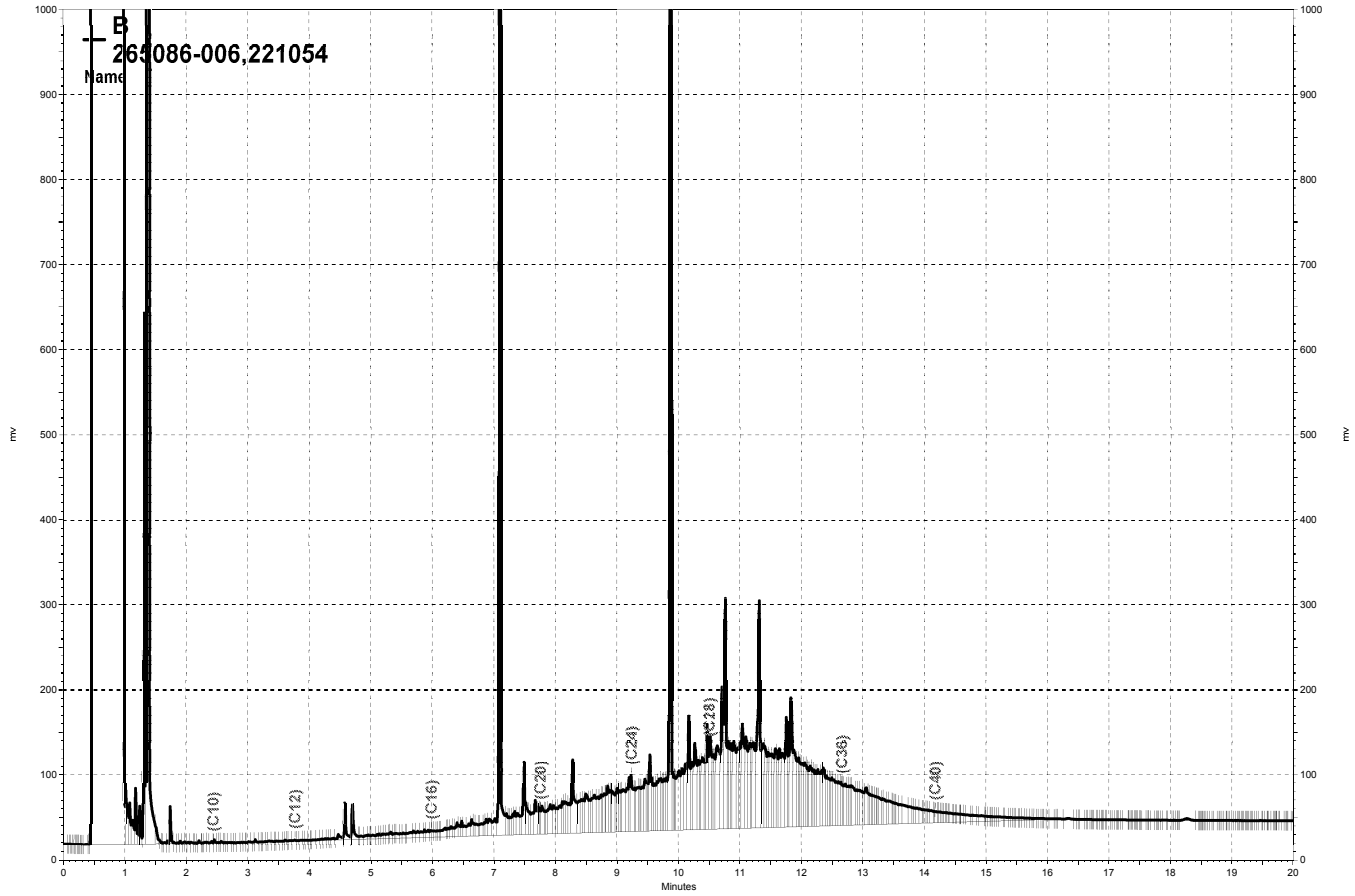

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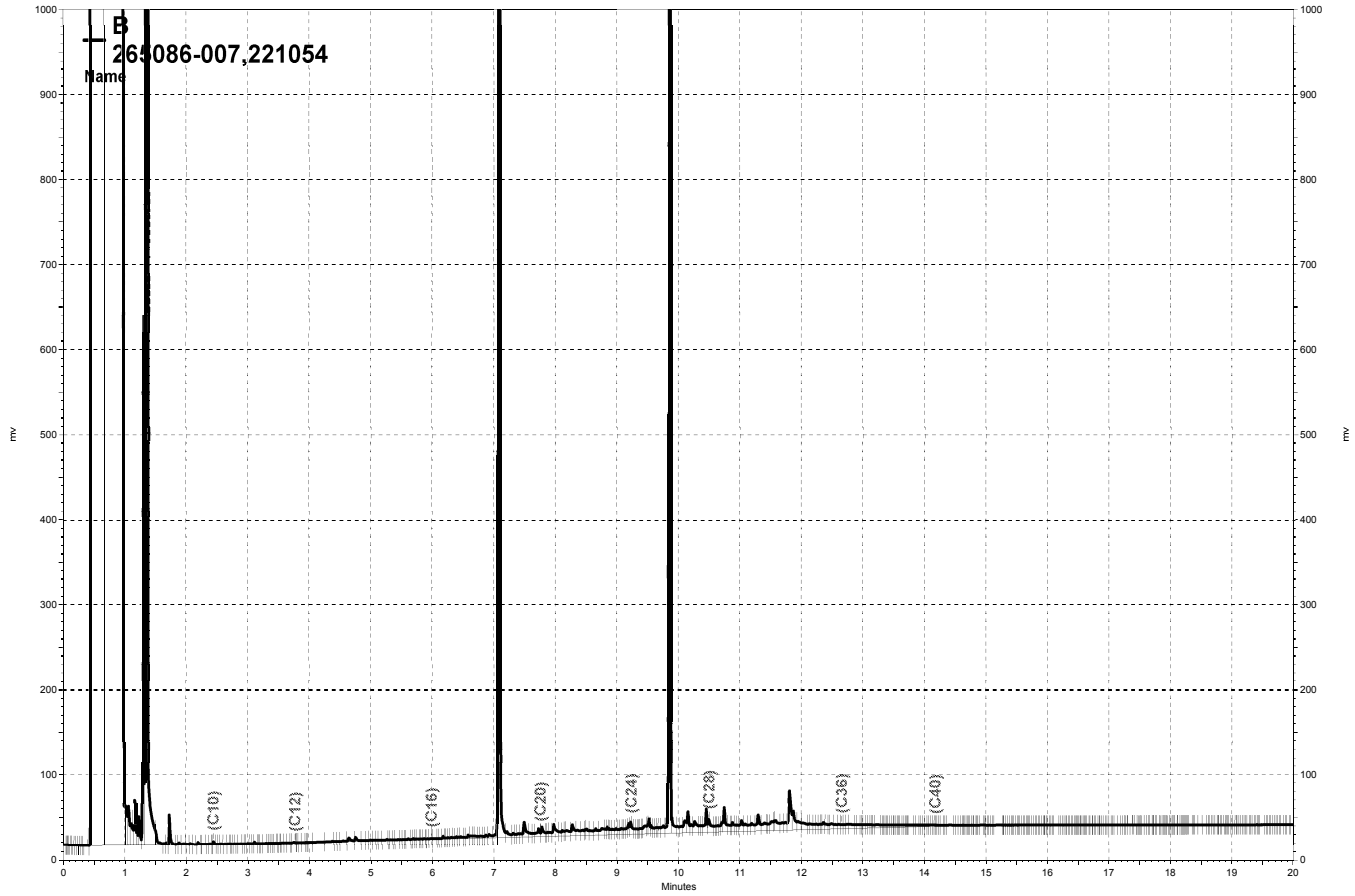

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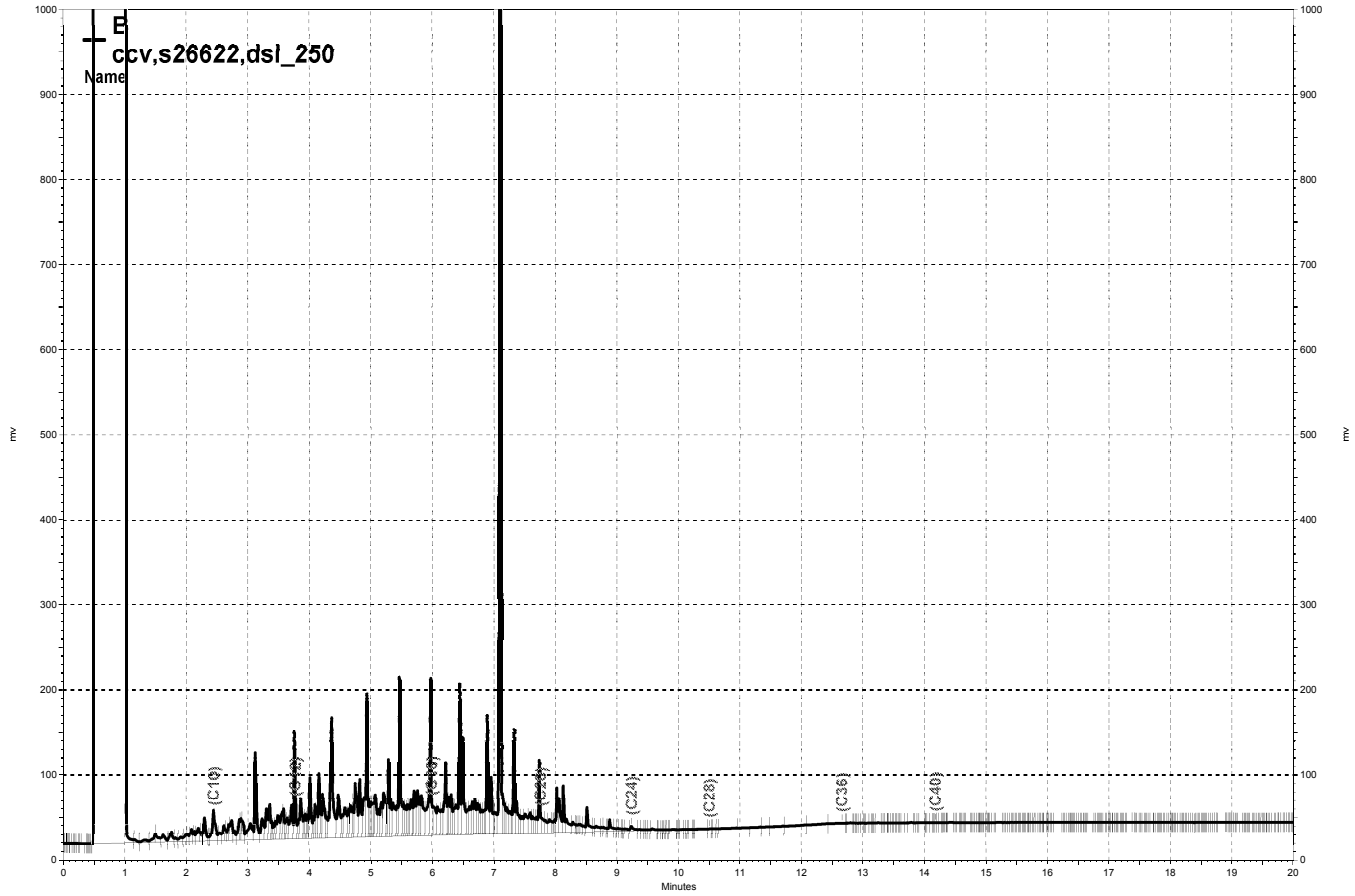

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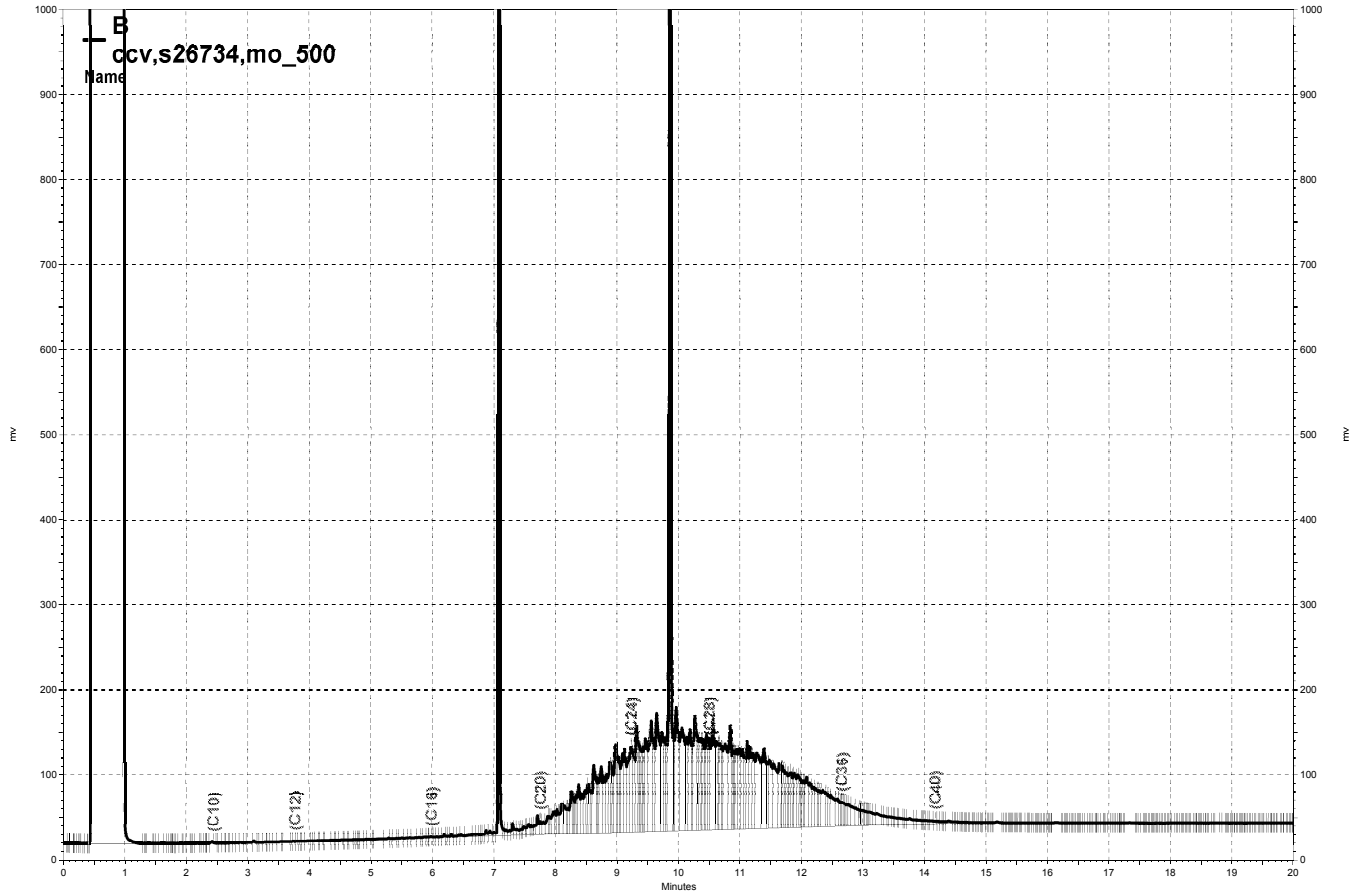

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-8SW-1.6	Batch#:	221053
Lab ID:	265086-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Moisture: 22%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	2,100	140
Phenol	ND	2,100	96
bis(2-Chloroethyl)ether	ND	2,100	100
2-Chlorophenol	ND	2,100	89
1,3-Dichlorobenzene	ND	2,100	84
1,4-Dichlorobenzene	ND	2,100	47
Benzyl alcohol	ND	2,100	100
1,2-Dichlorobenzene	ND	2,100	66
2-Methylphenol	ND	2,100	92
bis(2-Chloroisopropyl) ether	ND	2,100	100
4-Methylphenol	ND	2,100	100
N-Nitroso-di-n-propylamine	ND	2,100	97
Hexachloroethane	ND	2,100	67
Nitrobenzene	ND	2,100	57
Isophorone	ND	2,100	65
2-Nitrophenol	ND	4,300	250
2,4-Dimethylphenol	ND	2,100	120
Benzoic acid	ND	11,000	2,400
bis(2-Chloroethoxy)methane	ND	2,100	66
2,4-Dichlorophenol	ND	2,100	60
1,2,4-Trichlorobenzene	ND	2,100	54
Naphthalene	ND	430	83
4-Chloroaniline	ND	2,100	81
Hexachlorobutadiene	ND	2,100	53
4-Chloro-3-methylphenol	ND	2,100	55
2-Methylnaphthalene	ND	430	64
Hexachlorocyclopentadiene	ND	4,300	490
2,4,6-Trichlorophenol	ND	2,100	71
2,4,5-Trichlorophenol	ND	2,100	59
2-Chloronaphthalene	ND	2,100	50
2-Nitroaniline	ND	4,300	220
Dimethylphthalate	ND	2,100	46
Acenaphthylene	ND	430	53
2,6-Dinitrotoluene	ND	2,100	220
3-Nitroaniline	ND	4,300	46
Acenaphthene	ND	430	43
2,4-Dinitrophenol	ND	4,300	310
4-Nitrophenol	ND	4,300	45
Dibenzofuran	ND	2,100	54
2,4-Dinitrotoluene	ND	2,100	53
Diethylphthalate	ND	2,100	54
Fluorene	ND	430	51
4-Chlorophenyl-phenylether	ND	2,100	54
4-Nitroaniline	ND	4,300	67
4,6-Dinitro-2-methylphenol	ND	4,300	220
N-Nitrosodiphenylamine	ND	2,100	50
Azobenzene	ND	2,100	45
4-Bromophenyl-phenylether	ND	2,100	52
Hexachlorobenzene	ND	2,100	44

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-8SW-1.6	Batch#:	221053
Lab ID:	265086-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	4,300	660
Phenanthrene	ND	430	52
Anthracene	ND	430	58
Di-n-butylphthalate	ND	2,100	61
Fluoranthene	ND	430	60
Pyrene	51 J	430	47
Butylbenzylphthalate	ND	2,100	61
3,3'-Dichlorobenzidine	ND	4,300	510
Benzo(a)anthracene	ND	430	43
Chrysene	ND	430	52
bis(2-Ethylhexyl)phthalate	ND	2,100	55
Di-n-octylphthalate	ND	2,100	220
Benzo(b)fluoranthene	ND	430	37
Benzo(k)fluoranthene	ND	430	38
Benzo(a)pyrene	ND	430	38
Indeno(1,2,3-cd)pyrene	ND	430	49
Dibenz(a,h)anthracene	ND	430	47
Benzo(g,h,i)perylene	ND	430	53

Surrogate	%REC	Limits
2-Fluorophenol	66	25-120
Phenol-d5	68	36-120
2,4,6-Tribromophenol	94	27-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	85	47-120
Terphenyl-d14	73	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-9SW-0.8	Batch#:	221053
Lab ID:	265086-002	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	350	13
Phenol	ND	350	18
bis(2-Chloroethyl)ether	ND	350	13
2-Chlorophenol	ND	350	17
1,3-Dichlorobenzene	ND	350	7.9
1,4-Dichlorobenzene	ND	350	11
Benzyl alcohol	ND	350	16
1,2-Dichlorobenzene	ND	350	9.8
2-Methylphenol	ND	350	16
bis(2-Chloroisopropyl) ether	ND	350	19
4-Methylphenol	ND	350	18
N-Nitroso-di-n-propylamine	ND	350	11
Hexachloroethane	ND	350	8.5
Nitrobenzene	ND	350	8.1
Isophorone	ND	350	11
2-Nitrophenol	ND	690	10
2,4-Dimethylphenol	ND	350	14
Benzoic acid	ND	1,700	320
bis(2-Chloroethoxy)methane	ND	350	12
2,4-Dichlorophenol	ND	350	13
1,2,4-Trichlorobenzene	ND	350	10
Naphthalene	ND	69	9.1
4-Chloroaniline	ND	350	17
Hexachlorobutadiene	ND	350	63
4-Chloro-3-methylphenol	ND	350	15
2-Methylnaphthalene	ND	69	10
Hexachlorocyclopentadiene	ND	690	63
2,4,6-Trichlorophenol	ND	350	14
2,4,5-Trichlorophenol	ND	350	9.1
2-Chloronaphthalene	ND	350	57
2-Nitroaniline	ND	690	8.3
Dimethylphthalate	ND	350	9.7
Acenaphthylene	ND	69	8.8
2,6-Dinitrotoluene	ND	350	9.1
3-Nitroaniline	ND	690	11
Acenaphthene	ND	69	7.2
2,4-Dinitrophenol	ND	690	43
4-Nitrophenol	ND	690	71
Dibenzofuran	ND	350	9.1
2,4-Dinitrotoluene	ND	350	10
Diethylphthalate	ND	350	8.8
Fluorene	ND	69	9.3
4-Chlorophenyl-phenylether	ND	350	10
4-Nitroaniline	ND	690	8.2
4,6-Dinitro-2-methylphenol	ND	690	44
N-Nitrosodiphenylamine	ND	350	58
Azobenzene	ND	350	7.4
4-Bromophenyl-phenylether	ND	350	61
Hexachlorobenzene	ND	350	7.6

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-9SW-0.8	Batch#:	221053
Lab ID:	265086-002	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	690	150
Phenanthrene	ND	69	10
Anthracene	ND	69	7.2
Di-n-butylphthalate	ND	350	8.6
Fluoranthene	13 J	69	9.0
Pyrene	15 J	69	9.7
Butylbenzylphthalate	ND	350	8.7
3,3'-Dichlorobenzidine	ND	690	45
Benzo(a)anthracene	9.4 J	69	8.9
Chrysene	ND	69	7.0
bis(2-Ethylhexyl)phthalate	9.2 J	350	9.1
Di-n-octylphthalate	ND	350	8.8
Benzo(b)fluoranthene	ND	69	8.6
Benzo(k)fluoranthene	ND	69	9.0
Benzo(a)pyrene	ND	69	9.0
Indeno(1,2,3-cd)pyrene	ND	69	8.4
Dibenz(a,h)anthracene	ND	69	7.2
Benzo(g,h,i)perylene	ND	69	9.0

Surrogate	%REC	Limits
2-Fluorophenol	71	25-120
Phenol-d5	79	36-120
2,4,6-Tribromophenol	64	27-120
Nitrobenzene-d5	66	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	69	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-10SW-2.3	Batch#:	221053
Lab ID:	265086-003	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	370	15
Phenol	ND	370	19
bis(2-Chloroethyl)ether	ND	370	14
2-Chlorophenol	ND	370	18
1,3-Dichlorobenzene	ND	370	8.5
1,4-Dichlorobenzene	ND	370	11
Benzyl alcohol	ND	370	17
1,2-Dichlorobenzene	ND	370	11
2-Methylphenol	ND	370	17
bis(2-Chloroisopropyl) ether	ND	370	21
4-Methylphenol	ND	370	20
N-Nitroso-di-n-propylamine	ND	370	12
Hexachloroethane	ND	370	9.2
Nitrobenzene	ND	370	8.7
Isophorone	ND	370	12
2-Nitrophenol	ND	750	11
2,4-Dimethylphenol	ND	370	15
Benzoic acid	ND	1,900	340
bis(2-Chloroethoxy)methane	ND	370	13
2,4-Dichlorophenol	ND	370	14
1,2,4-Trichlorobenzene	ND	370	11
Naphthalene	ND	75	9.8
4-Chloroaniline	ND	370	18
Hexachlorobutadiene	ND	370	68
4-Chloro-3-methylphenol	ND	370	16
2-Methylnaphthalene	ND	75	11
Hexachlorocyclopentadiene	ND	750	68
2,4,6-Trichlorophenol	ND	370	16
2,4,5-Trichlorophenol	ND	370	9.8
2-Chloronaphthalene	ND	370	62
2-Nitroaniline	ND	750	8.9
Dimethylphthalate	ND	370	10
Acenaphthylene	ND	75	9.5
2,6-Dinitrotoluene	ND	370	9.8
3-Nitroaniline	ND	750	12
Acenaphthene	ND	75	7.8
2,4-Dinitrophenol	ND	750	46
4-Nitrophenol	ND	750	77
Dibenzofuran	ND	370	9.8
2,4-Dinitrotoluene	ND	370	11
Diethylphthalate	ND	370	9.5
Fluorene	ND	75	10
4-Chlorophenyl-phenylether	ND	370	11
4-Nitroaniline	ND	750	8.9
4,6-Dinitro-2-methylphenol	ND	750	47
N-Nitrosodiphenylamine	ND	370	62
Azobenzene	ND	370	8.0
4-Bromophenyl-phenylether	ND	370	66
Hexachlorobenzene	ND	370	8.2

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-10SW-2.3	Batch#:	221053
Lab ID:	265086-003	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	750	170
Phenanthrene	ND	75	11
Anthracene	ND	75	7.7
Di-n-butylphthalate	ND	370	9.3
Fluoranthene	11 J	75	9.6
Pyrene	12 J	75	10
Butylbenzylphthalate	ND	370	9.3
3,3'-Dichlorobenzidine	ND	750	48
Benzo(a)anthracene	ND	75	9.6
Chrysene	ND	75	7.6
bis(2-Ethylhexyl)phthalate	11 J	370	9.7
Di-n-octylphthalate	ND	370	9.4
Benzo(b)fluoranthene	ND	75	9.2
Benzo(k)fluoranthene	ND	75	9.7
Benzo(a)pyrene	ND	75	9.7
Indeno(1,2,3-cd)pyrene	ND	75	9.1
Dibenz(a,h)anthracene	ND	75	7.7
Benzo(g,h,i)perylene	ND	75	9.6

Surrogate	%REC	Limits
2-Fluorophenol	65	25-120
Phenol-d5	76	36-120
2,4,6-Tribromophenol	63	27-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	64	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-2B-2.0	Batch#:	221053
Lab ID:	265086-004	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Moisture: 4%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,700	110
Phenol	ND	1,700	78
bis(2-Chloroethyl)ether	ND	1,700	83
2-Chlorophenol	ND	1,700	73
1,3-Dichlorobenzene	ND	1,700	68
1,4-Dichlorobenzene	ND	1,700	38
Benzyl alcohol	ND	1,700	85
1,2-Dichlorobenzene	ND	1,700	54
2-Methylphenol	ND	1,700	75
bis(2-Chloroisopropyl) ether	ND	1,700	83
4-Methylphenol	ND	1,700	83
N-Nitroso-di-n-propylamine	ND	1,700	79
Hexachloroethane	ND	1,700	55
Nitrobenzene	ND	1,700	47
Isophorone	ND	1,700	53
2-Nitrophenol	ND	3,500	200
2,4-Dimethylphenol	ND	1,700	97
Benzoic acid	ND	8,700	2,000
bis(2-Chloroethoxy)methane	ND	1,700	54
2,4-Dichlorophenol	ND	1,700	49
1,2,4-Trichlorobenzene	ND	1,700	44
Naphthalene	ND	350	67
4-Chloroaniline	ND	1,700	66
Hexachlorobutadiene	ND	1,700	43
4-Chloro-3-methylphenol	ND	1,700	45
2-Methylnaphthalene	ND	350	52
Hexachlorocyclopentadiene	ND	3,500	400
2,4,6-Trichlorophenol	ND	1,700	57
2,4,5-Trichlorophenol	ND	1,700	48
2-Chloronaphthalene	ND	1,700	40
2-Nitroaniline	ND	3,500	180
Dimethylphthalate	ND	1,700	37
Acenaphthylene	ND	350	43
2,6-Dinitrotoluene	ND	1,700	180
3-Nitroaniline	ND	3,500	38
Acenaphthene	ND	350	35
2,4-Dinitrophenol	ND	3,500	260
4-Nitrophenol	ND	3,500	37
Dibenzofuran	ND	1,700	44
2,4-Dinitrotoluene	ND	1,700	43
Diethylphthalate	ND	1,700	44
Fluorene	ND	350	41
4-Chlorophenyl-phenylether	ND	1,700	44
4-Nitroaniline	ND	3,500	55
4,6-Dinitro-2-methylphenol	ND	3,500	180
N-Nitrosodiphenylamine	ND	1,700	41
Azobenzene	ND	1,700	36
4-Bromophenyl-phenylether	ND	1,700	42
Hexachlorobenzene	ND	1,700	36

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-2B-2.0	Batch#:	221053
Lab ID:	265086-004	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	3,500	530
Phenanthrene	180 J	350	42
Anthracene	50 J	350	47
Di-n-butylphthalate	ND	1,700	50
Fluoranthene	210 J	350	49
Pyrene	200 J	350	38
Butylbenzylphthalate	ND	1,700	50
3,3'-Dichlorobenzidine	ND	3,500	410
Benzo(a)anthracene	110 J	350	35
Chrysene	140 J	350	43
bis(2-Ethylhexyl)phthalate	ND	1,700	45
Di-n-octylphthalate	ND	1,700	180
Benzo(b)fluoranthene	130 J	350	30
Benzo(k)fluoranthene	51 J	350	31
Benzo(a)pyrene	100 J	350	31
Indeno(1,2,3-cd)pyrene	80 J	350	40
Dibenz(a,h)anthracene	ND	350	38
Benzo(g,h,i)perylene	110 J	350	43

Surrogate	%REC	Limits
2-Fluorophenol	66	25-120
Phenol-d5	68	36-120
2,4,6-Tribromophenol	81	27-120
Nitrobenzene-d5	63	44-120
2-Fluorobiphenyl	81	47-120
Terphenyl-d14	74	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-3B-4.5	Batch#:	221053
Lab ID:	265086-005	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	410	27
Phenol	ND	410	18
bis(2-Chloroethyl)ether	ND	410	19
2-Chlorophenol	ND	410	17
1,3-Dichlorobenzene	ND	410	16
1,4-Dichlorobenzene	ND	410	8.9
Benzyl alcohol	ND	410	20
1,2-Dichlorobenzene	ND	410	13
2-Methylphenol	ND	410	18
bis(2-Chloroisopropyl) ether	ND	410	19
4-Methylphenol	ND	410	19
N-Nitroso-di-n-propylamine	ND	410	19
Hexachloroethane	ND	410	13
Nitrobenzene	ND	410	11
Isophorone	ND	410	12
2-Nitrophenol	ND	810	47
2,4-Dimethylphenol	ND	410	23
Benzoic acid	ND	2,000	460
bis(2-Chloroethoxy)methane	ND	410	13
2,4-Dichlorophenol	ND	410	11
1,2,4-Trichlorobenzene	ND	410	10
Naphthalene	ND	81	16
4-Chloroaniline	ND	410	15
Hexachlorobutadiene	ND	410	10
4-Chloro-3-methylphenol	ND	410	11
2-Methylnaphthalene	ND	81	12
Hexachlorocyclopentadiene	ND	810	93
2,4,6-Trichlorophenol	ND	410	13
2,4,5-Trichlorophenol	ND	410	11
2-Chloronaphthalene	ND	410	9.5
2-Nitroaniline	ND	810	41
Dimethylphthalate	ND	410	8.8
Acenaphthylene	ND	81	10
2,6-Dinitrotoluene	ND	410	41
3-Nitroaniline	ND	810	8.8
Acenaphthene	ND	81	8.2
2,4-Dinitrophenol	ND	810	60
4-Nitrophenol	ND	810	8.6
Dibenzofuran	ND	410	10
2,4-Dinitrotoluene	ND	410	10
Diethylphthalate	ND	410	10
Fluorene	ND	81	9.7
4-Chlorophenyl-phenylether	ND	410	10
4-Nitroaniline	ND	810	13
4,6-Dinitro-2-methylphenol	ND	810	43
N-Nitrosodiphenylamine	ND	410	9.6
Azobenzene	ND	410	8.5
4-Bromophenyl-phenylether	ND	410	9.8
Hexachlorobenzene	ND	410	8.3
Pentachlorophenol	ND	810	130

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-3B-4.5	Batch#:	221053
Lab ID:	265086-005	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	81	9.9
Anthracene	ND	81	11
Di-n-butylphthalate	ND	410	12
Fluoranthene	ND	81	11
Pyrene	ND	81	8.9
Butylbenzylphthalate	ND	410	12
3,3'-Dichlorobenzidine	ND	810	97
Benzo(a)anthracene	ND	81	8.2
Chrysene	ND	81	10
bis(2-Ethylhexyl)phthalate	ND	410	10
Di-n-octylphthalate	ND	410	42
Benzo(b)fluoranthene	ND	81	7.1
Benzo(k)fluoranthene	ND	81	7.3
Benzo(a)pyrene	ND	81	7.2
Indeno(1,2,3-cd)pyrene	ND	81	9.3
Dibenz(a,h)anthracene	ND	81	9.0
Benzo(g,h,i)perylene	ND	81	10

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	65	36-120
2,4,6-Tribromophenol	87	27-120
Nitrobenzene-d5	60	44-120
2-Fluorobiphenyl	56	47-120
Terphenyl-d14	63	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-4B-1.5	Batch#:	221053
Lab ID:	265086-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 7%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	360	76
Phenol	ND	360	51
bis(2-Chloroethyl)ether	ND	360	58
2-Chlorophenol	ND	360	60
1,3-Dichlorobenzene	ND	360	41
1,4-Dichlorobenzene	ND	360	16
Benzyl alcohol	ND	360	55
1,2-Dichlorobenzene	ND	360	36
2-Methylphenol	ND	360	67
bis(2-Chloroisopropyl) ether	ND	360	90
4-Methylphenol	ND	360	56
N-Nitroso-di-n-propylamine	ND	360	54
Hexachloroethane	ND	360	28
Nitrobenzene	ND	360	16
Isophorone	ND	360	11
2-Nitrophenol	ND	720	11
2,4-Dimethylphenol	ND	360	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	360	12
2,4-Dichlorophenol	ND	360	14
1,2,4-Trichlorobenzene	ND	360	14
Naphthalene	ND	72	14
4-Chloroaniline	ND	360	18
Hexachlorobutadiene	ND	360	15
4-Chloro-3-methylphenol	ND	360	15
2-Methylnaphthalene	ND	72	12
Hexachlorocyclopentadiene	ND	720	13
2,4,6-Trichlorophenol	ND	360	15
2,4,5-Trichlorophenol	ND	360	14
2-Chloronaphthalene	ND	360	11
2-Nitroaniline	ND	720	11
Dimethylphthalate	ND	360	13
Acenaphthylene	ND	72	14
2,6-Dinitrotoluene	ND	360	14
3-Nitroaniline	ND	720	8.8
Acenaphthene	ND	72	12
2,4-Dinitrophenol	ND	720	100
4-Nitrophenol	ND	720	56
Dibenzofuran	ND	360	16
2,4-Dinitrotoluene	ND	360	11
Diethylphthalate	ND	360	15
Fluorene	ND	72	13
4-Chlorophenyl-phenylether	ND	360	13
4-Nitroaniline	ND	720	10
4,6-Dinitro-2-methylphenol	ND	720	75
N-Nitrosodiphenylamine	ND	360	15
Azobenzene	ND	360	15
4-Bromophenyl-phenylether	ND	360	14
Hexachlorobenzene	ND	360	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-4B-1.5	Batch#:	221053
Lab ID:	265086-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	720	67
Phenanthrene	ND	72	16
Anthracene	ND	72	13
Di-n-butylphthalate	ND	360	16
Fluoranthene	ND	72	14
Pyrene	ND	72	13
Butylbenzylphthalate	ND	360	12
3,3'-Dichlorobenzidine	ND	720	12
Benzo(a)anthracene	ND	72	13
Chrysene	ND	72	16
bis(2-Ethylhexyl)phthalate	20 J	360	16
Di-n-octylphthalate	ND	360	18
Benzo(b)fluoranthene	ND	72	15
Benzo(k)fluoranthene	ND	72	19
Benzo(a)pyrene	ND	72	17
Indeno(1,2,3-cd)pyrene	ND	72	16
Dibenz(a,h)anthracene	ND	72	16
Benzo(g,h,i)perylene	ND	72	14

Surrogate	%REC	Limits
2-Fluorophenol	41	25-120
Phenol-d5	52	36-120
2,4,6-Tribromophenol	75	27-120
Nitrobenzene-d5	56	44-120
2-Fluorobiphenyl	57	47-120
Terphenyl-d14	61	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-11SW-0.8	Batch#:	221053
Lab ID:	265086-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	15
Phenol	ND	380	20
bis(2-Chloroethyl)ether	ND	380	14
2-Chlorophenol	ND	380	19
1,3-Dichlorobenzene	ND	380	8.6
1,4-Dichlorobenzene	ND	380	12
Benzyl alcohol	ND	380	18
1,2-Dichlorobenzene	ND	380	11
2-Methylphenol	ND	380	18
bis(2-Chloroisopropyl) ether	ND	380	21
4-Methylphenol	ND	380	20
N-Nitroso-di-n-propylamine	ND	380	12
Hexachloroethane	ND	380	9.4
Nitrobenzene	ND	380	8.9
Isophorone	ND	380	12
2-Nitrophenol	ND	760	11
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	350
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	11
Naphthalene	ND	76	10
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	69
4-Chloro-3-methylphenol	ND	380	17
2-Methylnaphthalene	ND	76	11
Hexachlorocyclopentadiene	ND	760	69
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	10
2-Chloronaphthalene	ND	380	63
2-Nitroaniline	ND	760	9.1
Dimethylphthalate	ND	380	11
Acenaphthylene	ND	76	9.7
2,6-Dinitrotoluene	ND	380	10
3-Nitroaniline	ND	760	12
Acenaphthene	ND	76	7.9
2,4-Dinitrophenol	ND	760	47
4-Nitrophenol	ND	760	78
Dibenzofuran	ND	380	10
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	9.7
Fluorene	ND	76	10
4-Chlorophenyl-phenylether	ND	380	11
4-Nitroaniline	ND	760	9.0
4,6-Dinitro-2-methylphenol	ND	760	48
N-Nitrosodiphenylamine	ND	380	64
Azobenzene	ND	380	8.1
4-Bromophenyl-phenylether	ND	380	67
Hexachlorobenzene	ND	380	8.3

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL1-11SW-0.8	Batch#:	221053
Lab ID:	265086-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	760	170
Phenanthrene	13 J	76	11
Anthracene	ND	76	7.9
Di-n-butylphthalate	ND	380	9.5
Fluoranthene	16 J	76	9.8
Pyrene	19 J	76	11
Butylbenzylphthalate	ND	380	9.5
3,3'-Dichlorobenzidine	ND	760	49
Benzo(a)anthracene	11 J	76	9.8
Chrysene	8.5 J	76	7.7
bis(2-Ethylhexyl)phthalate	ND	380	9.9
Di-n-octylphthalate	ND	380	9.6
Benzo(b)fluoranthene	ND	76	9.4
Benzo(k)fluoranthene	ND	76	9.9
Benzo(a)pyrene	ND	76	9.9
Indeno(1,2,3-cd)pyrene	ND	76	9.2
Dibenz(a,h)anthracene	ND	76	7.9
Benzo(g,h,i)perylene	ND	76	9.8

Surrogate	%REC	Limits
2-Fluorophenol	63	25-120
Phenol-d5	71	36-120
2,4,6-Tribromophenol	57	27-120
Nitrobenzene-d5	59	44-120
2-Fluorobiphenyl	57	47-120
Terphenyl-d14	58	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779662	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	13
Phenol	ND	330	17
bis(2-Chloroethyl)ether	ND	330	13
2-Chlorophenol	ND	330	16
1,3-Dichlorobenzene	ND	330	7.6
1,4-Dichlorobenzene	ND	330	10
Benzyl alcohol	ND	330	16
1,2-Dichlorobenzene	ND	330	9.5
2-Methylphenol	ND	330	15
bis(2-Chloroisopropyl) ether	ND	330	18
4-Methylphenol	ND	330	18
N-Nitroso-di-n-propylamine	ND	330	11
Hexachloroethane	ND	330	8.2
Nitrobenzene	ND	330	7.8
Isophorone	ND	330	11
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	310
bis(2-Chloroethoxy)methane	ND	330	11
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	9.7
Naphthalene	ND	67	8.8
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	61
4-Chloro-3-methylphenol	ND	330	15
2-Methylnaphthalene	ND	67	9.8
Hexachlorocyclopentadiene	ND	670	60
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	8.8
2-Chloronaphthalene	ND	330	55
2-Nitroaniline	ND	670	8.0
Dimethylphthalate	ND	330	9.3
Acenaphthylene	ND	67	8.5
2,6-Dinitrotoluene	ND	330	8.8
3-Nitroaniline	ND	670	11
Acenaphthene	ND	67	6.9
2,4-Dinitrophenol	ND	670	41
4-Nitrophenol	ND	670	69
Dibenzofuran	ND	330	8.8
2,4-Dinitrotoluene	ND	330	9.7
Diethylphthalate	ND	330	8.5
Fluorene	ND	67	8.9
4-Chlorophenyl-phenylether	ND	330	9.8
4-Nitroaniline	ND	670	7.9
4,6-Dinitro-2-methylphenol	ND	670	42
N-Nitrosodiphenylamine	ND	330	56
Azobenzene	ND	330	7.1
4-Bromophenyl-phenylether	ND	330	59
Hexachlorobenzene	ND	330	7.3
Pentachlorophenol	ND	670	150
Phenanthrene	ND	67	9.6
Anthracene	ND	67	6.9
Di-n-butylphthalate	ND	330	8.3

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779662	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	8.6
Pyrene	ND	67	9.4
Butylbenzylphthalate	ND	330	8.3
3,3'-Dichlorobenzidine	ND	670	43
Benzo(a)anthracene	ND	67	8.6
Chrysene	ND	67	6.8
bis(2-Ethylhexyl)phthalate	ND	330	8.7
Di-n-octylphthalate	ND	330	8.4
Benzo(b)fluoranthene	ND	67	8.2
Benzo(k)fluoranthene	ND	67	8.7
Benzo(a)pyrene	ND	67	8.7
Indeno(1,2,3-cd)pyrene	ND	67	8.1
Dibenz(a,h)anthracene	ND	67	6.9
Benzo(g,h,i)perylene	ND	67	8.6

Surrogate	%REC	Limits
2-Fluorophenol	86	25-120
Phenol-d5	93	36-120
2,4,6-Tribromophenol	68	27-120
Nitrobenzene-d5	80	44-120
2-Fluorobiphenyl	78	47-120
Terphenyl-d14	95	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779663	Batch#:	221053
Matrix:	Soil	Prepared:	03/05/15
Units:	ug/Kg	Analyzed:	03/06/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,689	2,658	99	42-120
2-Chlorophenol	2,689	2,425	90	45-120
1,4-Dichlorobenzene	2,689	2,176	81	48-120
N-Nitroso-di-n-propylamine	2,689	2,509	93	27-123
1,2,4-Trichlorobenzene	2,689	2,187	81	50-120
4-Chloro-3-methylphenol	2,689	2,174	81	59-120
Acenaphthene	1,008	917.7	91	53-120
4-Nitrophenol	2,689	3,012	112	47-120
2,4-Dinitrotoluene	2,689	2,831	105	55-120
Pentachlorophenol	2,689	2,018	75	32-120
Pyrene	1,008	1,006	100	52-120

Surrogate	%REC	Limits
2-Fluorophenol	86	25-120
Phenol-d5	93	36-120
2,4,6-Tribromophenol	102	27-120
Nitrobenzene-d5	84	44-120
2-Fluorobiphenyl	80	47-120
Terphenyl-d14	89	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH1-2B-2.4	Batch#:	221053
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	ug/Kg	Prepared:	03/05/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	1.000		

Type: MS Moisture: 11%
Lab ID: QC779664

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<19.55	3,033	2,857	94	47-120
2-Chlorophenol	<18.58	3,033	2,584	85	44-120
1,4-Dichlorobenzene	<11.42	3,033	2,387	79	49-120
N-Nitroso-di-n-propylamine	<12.18	3,033	2,685	89	42-120
1,2,4-Trichlorobenzene	<10.91	3,033	2,307	76	54-120
4-Chloro-3-methylphenol	<16.60	3,033	2,212	73	55-120
Acenaphthene	<7.831	1,137	968.8	85	51-120
4-Nitrophenol	<77.61	3,033	3,060	101	36-120
2,4-Dinitrotoluene	<10.94	3,033	2,774	91	52-120
Pentachlorophenol	<167.5	3,033	1,812	60	14-120
Pyrene	45.82	1,137	1,169	99	46-124

Surrogate	%REC	Limits
2-Fluorophenol	78	25-120
Phenol-d5	85	36-120
2,4,6-Tribromophenol	82	27-120
Nitrobenzene-d5	76	44-120
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	83	49-120

Type: MSD Moisture: 11%
Lab ID: QC779665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,968	2,891	97	47-120	3	39
2-Chlorophenol	2,968	2,635	89	44-120	4	38
1,4-Dichlorobenzene	2,968	2,411	81	49-120	3	45
N-Nitroso-di-n-propylamine	2,968	2,754	93	42-120	5	40
1,2,4-Trichlorobenzene	2,968	2,372	80	54-120	5	38
4-Chloro-3-methylphenol	2,968	2,306	78	55-120	6	41
Acenaphthene	1,113	995.7	89	51-120	5	47
4-Nitrophenol	2,968	3,176	107	36-120	6	41
2,4-Dinitrotoluene	2,968	2,895	98	52-120	6	40
Pentachlorophenol	2,968	1,668	56	14-120	6	53
Pyrene	1,113	1,189	103	46-124	4	50

Surrogate	%REC	Limits
2-Fluorophenol	87	25-120
Phenol-d5	92	36-120
2,4,6-Tribromophenol	89	27-120
Nitrobenzene-d5	84	44-120
2-Fluorobiphenyl	80	47-120
Terphenyl-d14	90	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-8SW-1.6	Diln Fac:	1.000
Lab ID:	265086-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 22%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.71	0.21	221066	EPA 3050B	EPA 6010B
Arsenic	7.0	0.36	0.10	221066	EPA 3050B	EPA 6010B
Barium	160	0.36	0.076	221066	EPA 3050B	EPA 6010B
Beryllium	0.41	0.14	0.018	221066	EPA 3050B	EPA 6010B
Cadmium	1.3	0.36	0.036	221066	EPA 3050B	EPA 6010B
Chromium	63	0.36	0.090	221066	EPA 3050B	EPA 6010B
Cobalt	13	0.36	0.043	221066	EPA 3050B	EPA 6010B
Copper	30	0.36	0.12	221066	EPA 3050B	EPA 6010B
Lead	70	0.36	0.099	221066	EPA 3050B	EPA 6010B
Mercury	0.36	0.022	0.0012	221071	METHOD	EPA 7471A
Molybdenum	0.76	0.36	0.070	221066	EPA 3050B	EPA 6010B
Nickel	77	0.36	0.094	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.71	0.23	221066	EPA 3050B	EPA 6010B
Silver	0.27 J	0.36	0.057	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.71	0.20	221066	EPA 3050B	EPA 6010B
Vanadium	49	0.36	0.081	221066	EPA 3050B	EPA 6010B
Zinc	100	1.4	0.080	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-9SW-0.8	Diln Fac:	1.000
Lab ID:	265086-002	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 3%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.48	0.14	221066	EPA 3050B	EPA 6010B
Arsenic	5.3	0.24	0.069	221066	EPA 3050B	EPA 6010B
Barium	25	0.24	0.051	221066	EPA 3050B	EPA 6010B
Beryllium	0.27	0.095	0.012	221066	EPA 3050B	EPA 6010B
Cadmium	1.1	0.24	0.024	221066	EPA 3050B	EPA 6010B
Chromium	44	0.24	0.060	221066	EPA 3050B	EPA 6010B
Cobalt	14	0.24	0.029	221066	EPA 3050B	EPA 6010B
Copper	3.9	0.24	0.080	221066	EPA 3050B	EPA 6010B
Lead	5.3	0.24	0.066	221066	EPA 3050B	EPA 6010B
Mercury	0.021	0.016	0.00090	221071	METHOD	EPA 7471A
Molybdenum	0.10 J	0.24	0.047	221066	EPA 3050B	EPA 6010B
Nickel	55	0.24	0.063	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.48	0.15	221066	EPA 3050B	EPA 6010B
Silver	0.13 J	0.24	0.038	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.48	0.13	221066	EPA 3050B	EPA 6010B
Vanadium	43	0.24	0.054	221066	EPA 3050B	EPA 6010B
Zinc	48	0.95	0.054	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-10SW-2.3	Diln Fac:	1.000
Lab ID:	265086-003	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.56	0.17	221066	EPA 3050B	EPA 6010B
Arsenic	6.7	0.28	0.081	221066	EPA 3050B	EPA 6010B
Barium	190	0.28	0.060	221066	EPA 3050B	EPA 6010B
Beryllium	0.48	0.11	0.014	221066	EPA 3050B	EPA 6010B
Cadmium	1.1	0.28	0.028	221066	EPA 3050B	EPA 6010B
Chromium	62	0.28	0.070	221066	EPA 3050B	EPA 6010B
Cobalt	12	0.28	0.033	221066	EPA 3050B	EPA 6010B
Copper	27	0.28	0.093	221066	EPA 3050B	EPA 6010B
Lead	46	0.28	0.077	221066	EPA 3050B	EPA 6010B
Mercury	0.14	0.018	0.00098	221071	METHOD	EPA 7471A
Molybdenum	0.73	0.28	0.054	221066	EPA 3050B	EPA 6010B
Nickel	85	0.28	0.073	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.18	221066	EPA 3050B	EPA 6010B
Silver	0.17 J	0.28	0.044	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.16	221066	EPA 3050B	EPA 6010B
Vanadium	40	0.28	0.063	221066	EPA 3050B	EPA 6010B
Zinc	68	1.1	0.062	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-2B-2.0	Sampled:	03/05/15
Lab ID:	265086-004	Received:	03/05/15
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Basis:	dry		

Moisture: 4%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prep	Analysis
Antimony	ND	0.54	0.16	1.000	221066	EPA 3050B	EPA 6010B
Arsenic	7.5	0.27	0.079	1.000	221066	EPA 3050B	EPA 6010B
Barium	210	0.27	0.058	1.000	221066	EPA 3050B	EPA 6010B
Beryllium	0.32	0.11	0.013	1.000	221066	EPA 3050B	EPA 6010B
Cadmium	1.6	0.27	0.028	1.000	221066	EPA 3050B	EPA 6010B
Chromium	49	0.27	0.068	1.000	221066	EPA 3050B	EPA 6010B
Cobalt	7.7	0.27	0.032	1.000	221066	EPA 3050B	EPA 6010B
Copper	48	0.27	0.090	1.000	221066	EPA 3050B	EPA 6010B
Lead	640	27	7.6	100.0	221066	EPA 3050B	EPA 6010B
Mercury	0.31	0.018	0.0010	1.000	221071	METHOD	EPA 7471A
Molybdenum	1.0	0.27	0.053	1.000	221066	EPA 3050B	EPA 6010B
Nickel	31	0.27	0.071	1.000	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.54	0.17	1.000	221066	EPA 3050B	EPA 6010B
Silver	0.45	0.27	0.043	1.000	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.54	0.15	1.000	221066	EPA 3050B	EPA 6010B
Vanadium	39	0.27	0.062	1.000	221066	EPA 3050B	EPA 6010B
Zinc	270	1.1	0.061	1.000	221066	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-3B-4.5	Diln Fac:	1.000
Lab ID:	265086-005	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.58	0.17	221066	EPA 3050B	EPA 6010B
Arsenic	5.0	0.29	0.084	221066	EPA 3050B	EPA 6010B
Barium	210	0.29	0.062	221066	EPA 3050B	EPA 6010B
Beryllium	0.36	0.12	0.014	221066	EPA 3050B	EPA 6010B
Cadmium	0.67	0.29	0.029	221066	EPA 3050B	EPA 6010B
Chromium	38	0.29	0.072	221066	EPA 3050B	EPA 6010B
Cobalt	5.8	0.29	0.034	221066	EPA 3050B	EPA 6010B
Copper	17	0.29	0.096	221066	EPA 3050B	EPA 6010B
Lead	10	0.29	0.080	221066	EPA 3050B	EPA 6010B
Mercury	0.065	0.021	0.0012	221071	METHOD	EPA 7471A
Molybdenum	0.30	0.29	0.056	221066	EPA 3050B	EPA 6010B
Nickel	44	0.29	0.076	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.58	0.18	221066	EPA 3050B	EPA 6010B
Silver	0.49	0.29	0.046	221066	EPA 3050B	EPA 6010B
Thallium	0.36 J	0.58	0.16	221066	EPA 3050B	EPA 6010B
Vanadium	43	0.29	0.066	221066	EPA 3050B	EPA 6010B
Zinc	44	1.2	0.065	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-4B-1.5	Diln Fac:	1.000
Lab ID:	265086-006	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 7%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.54	0.16	221066	EPA 3050B	EPA 6010B
Arsenic	6.0	0.27	0.079	221066	EPA 3050B	EPA 6010B
Barium	140	0.27	0.058	221066	EPA 3050B	EPA 6010B
Beryllium	0.41	0.11	0.013	221066	EPA 3050B	EPA 6010B
Cadmium	0.96	0.27	0.028	221066	EPA 3050B	EPA 6010B
Chromium	64	0.27	0.068	221066	EPA 3050B	EPA 6010B
Cobalt	12	0.27	0.033	221066	EPA 3050B	EPA 6010B
Copper	21	0.27	0.091	221066	EPA 3050B	EPA 6010B
Lead	32	0.27	0.076	221066	EPA 3050B	EPA 6010B
Mercury	0.24	0.017	0.00092	221071	METHOD	EPA 7471A
Molybdenum	0.58	0.27	0.053	221066	EPA 3050B	EPA 6010B
Nickel	89	0.27	0.071	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.54	0.17	221066	EPA 3050B	EPA 6010B
Silver	0.13 J	0.27	0.043	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.54	0.15	221066	EPA 3050B	EPA 6010B
Vanadium	40	0.27	0.062	221066	EPA 3050B	EPA 6010B
Zinc	69	1.1	0.061	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265086	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL1-11SW-0.8	Diln Fac:	1.000
Lab ID:	265086-007	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prep	Analysis
Antimony	ND	0.60	0.18	221066	EPA 3050B	EPA 6010B
Arsenic	7.2	0.30	0.088	221066	EPA 3050B	EPA 6010B
Barium	48	0.30	0.065	221066	EPA 3050B	EPA 6010B
Beryllium	0.30	0.12	0.015	221066	EPA 3050B	EPA 6010B
Cadmium	1.2	0.30	0.031	221066	EPA 3050B	EPA 6010B
Chromium	53	0.30	0.076	221066	EPA 3050B	EPA 6010B
Cobalt	15	0.30	0.036	221066	EPA 3050B	EPA 6010B
Copper	6.2	0.30	0.10	221066	EPA 3050B	EPA 6010B
Lead	5.3	0.30	0.084	221066	EPA 3050B	EPA 6010B
Mercury	0.030	0.019	0.0010	221071	METHOD	EPA 7471A
Molybdenum	0.56	0.30	0.059	221066	EPA 3050B	EPA 6010B
Nickel	63	0.30	0.080	221066	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.19	221066	EPA 3050B	EPA 6010B
Silver	0.16 J	0.30	0.048	221066	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.17	221066	EPA 3050B	EPA 6010B
Vanadium	51	0.30	0.069	221066	EPA 3050B	EPA 6010B
Zinc	55	1.2	0.068	221066	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779702	Batch#:	221066
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	0.22 J	1.0	0.056

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221066
Units:	mg/Kg	Prepared:	03/06/15
Diln Fac:	5.000	Analyzed:	03/06/15

Type: BS Lab ID: QC779703

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	45.52	91	80-120
Arsenic	50.00	48.78	98	80-120
Barium	50.00	48.65	97	80-120
Beryllium	50.00	48.78	98	80-120
Cadmium	50.00	51.53	103	80-120
Chromium	50.00	49.43	99	80-120
Cobalt	50.00	47.57	95	80-120
Copper	50.00	46.82	94	80-120
Lead	50.00	45.55	91	80-120
Molybdenum	50.00	48.08	96	80-120
Nickel	50.00	48.65	97	80-120
Selenium	50.00	47.42	95	80-120
Silver	50.00	47.28	95	80-120
Thallium	50.00	47.66	95	80-120
Vanadium	50.00	50.89	102	80-120
Zinc	50.00	49.63	99	80-120

Type: BSD Lab ID: QC779704

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	43.36	87	80-120	5	20
Arsenic	50.00	46.25	93	80-120	5	20
Barium	50.00	45.18	90	80-120	7	20
Beryllium	50.00	45.49	91	80-120	7	20
Cadmium	50.00	47.87	96	80-120	7	20
Chromium	50.00	46.05	92	80-120	7	20
Cobalt	50.00	44.02	88	80-120	8	20
Copper	50.00	43.38	87	80-120	8	20
Lead	50.00	43.18	86	80-120	5	20
Molybdenum	50.00	45.69	91	80-120	5	20
Nickel	50.00	45.16	90	80-120	7	20
Selenium	50.00	44.74	89	80-120	6	20
Silver	50.00	43.92	88	80-120	7	20
Thallium	50.00	44.34	89	80-120	7	20
Vanadium	50.00	47.49	95	80-120	7	20
Zinc	50.00	45.70	91	80-120	8	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	TRENCH1-2B-2.4	Batch#:	221066
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15
Diln Fac:	5.000		

Type: MS Moisture: 11%
Lab ID: QC779705

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1714	62.42	10.52	17	15-120
Arsenic	7.380	62.42	65.73	93	69-120
Barium	463.4	62.42	442.5	-33 NM	35-154
Beryllium	0.4132	62.42	59.05	94	75-120
Cadmium	0.9525	62.42	61.90	98	71-120
Chromium	40.49	62.42	105.4	104	57-133
Cobalt	11.80	62.42	70.08	93	56-125
Copper	49.71	62.42	112.0	100	54-144
Lead	67.54	62.42	141.7	119	53-125
Molybdenum	0.5648	62.42	55.83	89	66-120
Nickel	52.36	62.42	127.0	120	44-141
Selenium	<0.1831	62.42	55.04	88	61-120
Silver	0.2765	62.42	57.78	92	69-120
Thallium	<0.1610	62.42	54.71	88	59-120
Vanadium	40.56	62.42	105.4	104	52-144
Zinc	71.86	62.42	151.2	127	45-145

Type: MSD Moisture: 11%
Lab ID: QC779706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	54.54	8.557	16	15-120	7	41
Arsenic	54.54	60.92	98	69-120	4	35
Barium	54.54	453.2	-19 NM	35-154	4	36
Beryllium	54.54	53.86	98	75-120	4	20
Cadmium	54.54	56.61	102	71-120	4	25
Chromium	54.54	98.20	106	57-133	1	33
Cobalt	54.54	64.84	97	56-125	3	36
Copper	54.54	104.4	100	54-144	0	38
Lead	54.54	127.0	109	53-125	5	42
Molybdenum	54.54	51.15	93	66-120	5	20
Nickel	54.54	112.0	109	44-141	5	39
Selenium	54.54	50.14	92	61-120	4	33
Silver	54.54	52.18	95	69-120	3	22
Thallium	54.54	50.88	93	59-120	6	27
Vanadium	54.54	99.05	107	52-144	2	29
Zinc	54.54	135.9	117	45-145	5	39

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

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Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221071
Lab ID:	QC779722	Prepared:	03/06/15
Matrix:	Soil	Analyzed:	03/06/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	221071
Matrix:	Soil	Prepared:	03/06/15
Units:	mg/Kg	Analyzed:	03/06/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC779723	0.2083	0.2154	103	80-120		
BSD	QC779724	0.2083	0.2149	103	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	TRENCH1-2B-2.4	Batch#:	221071
MSS Lab ID:	265085-008	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/06/15
Basis:	dry	Analyzed:	03/06/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC779725	0.4292	0.2508	0.7568	131	69-142	11%		
MSD	QC779726		0.2302	0.6468	94	69-142	11%	13	36

RPD= Relative Percent Difference

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Moisture

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	221059
Matrix:	Soil	Sampled:	03/05/15
Units:	%	Received:	03/05/15
Diln Fac:	1.000	Analyzed:	03/05/15

Field ID	Lab ID	Result	RL
TBL1-8SW-1.6	265086-001	22	1
TBL1-9SW-0.8	265086-002	3	1
TBL1-10SW-2.3	265086-003	11	1
TBL1-2B-2.0	265086-004	4	1
TBL1-3B-4.5	265086-005	18	1
TBL1-4B-1.5	265086-006	7	1
TBL1-11SW-0.8	265086-007	11	1

RL= Reporting Limit

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Batch QC Report

Moisture

Lab #:	265086	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	TRENCH1-2B-2.4	Diln Fac:	1.000
Type:	SDUP	Batch#:	221059
MSS Lab ID:	265085-008	Sampled:	03/05/15
Lab ID:	QC779685	Received:	03/05/15
Matrix:	Soil	Analyzed:	03/05/15

MSS Result	Result	RL	RPD	Lim
11.14	11.95	1.000	7	26

RL= Reporting Limit
RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265129
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
TB-030615	265129-001
TBL2-1SW-0.9	265129-002
TBL2-2SW-0.9	265129-003
TBL2-3SW-0.9	265129-004
TBL2-4SW-1.3	265129-005
TBL2-5SW-1.3	265129-006
TBL2-6SW-1.3	265129-007
TBL2-7SW-1.4	265129-008
TBL2-8SW-1.2	265129-009
TBL2-1B-4.0	265129-010
TBL2-2B-4.0	265129-011
TBL2-3B-1.8	265129-012
TBL2-4B-1.8	265129-013
TBL2-5B-2.2	265129-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/17/2015

Mike J. Dahlquist
Project Manager
mike.dahlquist@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

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CASE NARRATIVE

Laboratory number:	**265129**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/06/15**
Samples Received:	**03/06/15**

This data package contains sample and QC results for thirteen soil samples and one water sample, requested for the above referenced project on 03/06/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221128; this analyte was not detected in the sample at or above the RL. No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221127; this analyte was either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
TBL2-3SW-0.9 (lab # 265129-004) was diluted due to high non-target analytes. A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recovery was observed for barium in the MS for batch 221155; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. Mercury was detected between the MDL and the RL in the method blank for batch 221137. Zinc was detected between the MDL and the RL in the method blank for batch 221155; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

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ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

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Chain of Custody #

C&T LOGIN # 265129

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 02002
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ~~☒ RUSH 24 hr TAT~~ ☐ Standard
Standard per Br. 4/6 TD 3/4

Sampler: C. Lyle / S. Sherman
Report To: B. DeShields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None	TPH g 8015	TPH d 8015	TPH mo 8015	SVOCs 8270	Title 22 metals
	TB-~~030615~~ 030615 a											X				
1	TBL2-1SW-0.9	3/6/15	1015		X	5				1	4	X	X	X	X	X
2	TBL2-2SW-0.9		1010													
3	TBL2-3SW-0.9		1040													
4	TBL2-4SW-1.3		1045													
5	TBL2-5SW-1.3		1100													
6	TBL2-6SW-1.3		1105													
7	TBL2-7SW-1.4		1130													
8	TBL2-8SW-1.2		1150													
9	TBL2-1B-4.0		1135													
10	TBL2-2B-4.0		1153													
11	TBL2-3B-1.8		1200													
12	TBL2-4B-1.8		1205													
13	TBL2-5B-2.2		1220													

Notes:
- Lab to homogenize sample
- Report all to MDL
- Report in dry weight w/ % moisture
- EDF required

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 3/6/15 TIME: 1347
DATE: 3/6/15 TIME: 1720
DATE: TIME:

RECEIVED BY:
DATE: 3/6/15 TIME: 1347
DATE: 3/6/15 TIME: 1720
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265129 Date Received 3/6/15 Number of coolers 1
Client Integral Consulting Project Allied Engineering

Date Opened 3/6 By (print) SL (sign) [illegible]
Date Logged in 3/6 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ (YES) (NO) SL
   If YES, what time were they transferred to freezer? 1740
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ (YES) NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265129

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TB-030615 Laboratory Sample ID : 265129-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	14	J	50	11	ug/L	As Recd	1.000	EPA 8015B	EPA 5030B

Client Sample ID : TBL2-1SW-0.9 Laboratory Sample ID : 265129-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.13	J	0.27	0.020	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	12	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	64		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.56	J	0.60	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	1.0		0.30	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	86		0.30	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.12		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.6		0.30	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	85		0.30	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	27		0.30	0.036	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	69		0.30	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	58		0.30	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.37		0.019	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.17	J	0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	100		0.30	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.14	J	0.30	0.048	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	130		0.30	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	54		1.2	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-2SW-0.9 Laboratory Sample ID : 265129-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.12	J	0.37	0.027	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	0.40	J	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.41	J	0.55	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	0.44		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	28		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.12		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.4		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	100		0.28	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	25		0.28	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	61		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.57		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Nickel	94		0.28	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.20	J	0.28	0.044	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	130		0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	38		1.1	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : TBL2-3SW-0.9 Laboratory Sample ID : 265129-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.035	J	0.25	0.018	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	150	Y	11	3.3	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550B
Motor Oil C24-C36	920		53	16	mg/Kg	Dry	10.00	EPA 8015B	EPA 3550B
Phenanthrene	33	J	140	17	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Fluoranthene	70	J	140	20	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Pyrene	91	J	140	16	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	33	J	140	14	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Chrysene	47	J	140	18	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	50	J	720	18	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	64	J	140	13	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	25	J	140	13	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	38	J	140	13	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	39	J	140	16	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	54	J	140	18	ug/Kg	Dry	2.000	EPA 8270C	EPA 3550B
Antimony	1.9		0.51	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.1		0.26	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	55		0.26	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.24		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.5		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	130		0.26	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	47		0.26	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	500		0.26	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	2.6		0.090	0.0050	mg/Kg	Dry	5.000	EPA 7471A	METHOD
Molybdenum	1.4		0.26	0.050	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	31		0.26	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	73		0.26	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	180		1.0	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-4SW-1.3 Laboratory Sample ID : 265129-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.041	J	0.29	0.021	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	40		1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	160		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Acenaphthylene	45	J	77	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	170		77	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Anthracene	19	J	77	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	160		77	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	190		77	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	50	J	77	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	71	J	77	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	100		77	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	35	J	77	21	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	54	J	77	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	88		77	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	110		77	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	2.5		0.59	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	7.6		0.29	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	210		0.29	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.28		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	4.3		0.29	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	270		0.29	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	15		0.29	0.035	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	91		0.29	0.098	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	3,700		29	8.2	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Molybdenum	5.2		0.29	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	46		0.29	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	35		0.29	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	270		1.2	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-5SW-1.3 Laboratory Sample ID : 265129-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.037	J	0.21	0.016	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	140		1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	290		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
N-Nitrosodiphenylamine	24	J	380	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	78		76	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Di-n-butylphthalate	52	J	380	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	160		76	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	160		76	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	78		76	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	97		76	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
bis(2-Ethylhexyl)phthalate	40	J	380	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	130		76	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	41	J	76	20	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	79		76	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	70	J	76	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	88		76	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	1.6		0.53	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	17		0.26	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	220		0.26	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.32		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	5.3		0.26	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	91		0.26	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	83		0.26	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	850		26	7.3	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.38		0.017	0.00096	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	4.4		0.26	0.051	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	37		0.26	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	34		0.26	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	280		1.1	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-6SW-1.3 Laboratory Sample ID : 265129-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.066	J	0.34	0.025	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	7.0	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	44		5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	67	J	73	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	110		73	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	130		73	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	43	J	73	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	61	J	73	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	81		73	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	27	J	73	20	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	54	J	73	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	48	J	73	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	62	J	73	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	0.43	J	0.53	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.2		0.27	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	95		0.27	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.28		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.56		0.27	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	37		0.27	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.7		0.27	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	24		0.27	0.089	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	130		0.27	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.19		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.36		0.27	0.052	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	24		0.27	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.047	J	0.27	0.042	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	28		0.27	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	59		1.1	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Curtis & Tompkins, Ltd.

Client Sample ID : TBL2-7SW-1.4 Laboratory Sample ID : 265129-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.042	J	0.24	0.017	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	370	Y	5.7	1.8	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	810		29	8.7	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Naphthalene	480	J	1,500	290	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Acenaphthylene	4,100		1,500	290	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Fluorene	470	J	1,500	270	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Phenanthrene	23,000		1,500	340	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Anthracene	2,200		1,500	280	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Fluoranthene	34,000		1,500	300	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Pyrene	44,000		1,500	270	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Benzo(a)anthracene	14,000		1,500	270	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Chrysene	18,000		1,500	330	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	26,000		1,500	320	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	7,900		1,500	410	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Benzo(a)pyrene	15,000		1,500	350	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	17,000		1,500	340	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	2,500		1,500	330	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	20,000		1,500	300	ug/Kg	Dry	20.00	EPA 8270C	EPA 3550B
Antimony	2.0		0.56	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	6.8		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	300		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.29		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	3.0		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	52		0.28	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	11		0.28	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	53		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	480		0.28	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.14		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	1.6		0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	17		0.28	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	38		0.28	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	500		1.1	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-8SW-1.2 Laboratory Sample ID : 265129-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.042	J	0.23	0.017	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	47	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	230		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Acenaphthylene	260		220	43	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Phenanthrene	1,600		220	50	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Anthracene	160	J	220	41	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Fluoranthene	3,000		220	44	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Pyrene	3,700		220	39	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	1,100		220	40	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Chrysene	1,400		220	49	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	2,000		220	47	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	580		220	60	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	1,300		220	52	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	1,300		220	50	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	210	J	220	49	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	1,700		220	43	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Antimony	1.3		0.51	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	7.0		0.26	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	190		0.26	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.36		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.3		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	74		0.26	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	12		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	67		0.26	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	1,700		26	7.1	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.18		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	2.4		0.26	0.050	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	25		0.26	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	41		0.26	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	140		1.0	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-1B-4.0 Laboratory Sample ID : 265129-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.21	J	0.28	0.021	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.6	Y	1.1	0.33	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	10		5.4	1.6	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	62	J	71	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	170		71	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	190		71	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	53	J	71	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	64	J	71	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	100		71	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	36	J	71	19	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	59	J	71	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	83		71	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	110		71	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	0.20	J	0.57	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.6		0.29	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	160		0.29	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.27		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.32		0.29	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	29		0.29	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.0		0.29	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	7.9		0.29	0.095	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	18		0.29	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.11		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.12	J	0.29	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	25		0.29	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	45		0.29	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	25		1.1	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : TBL2-2B-4.0 Laboratory Sample ID : 265129-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.058	J	0.32	0.024	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.1	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	8.1		5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.21	J	0.51	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	1.6		0.26	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	120		0.26	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.27		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.28		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	26		0.26	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	4.3		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	8.5		0.26	0.086	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	2.7		0.26	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.024		0.017	0.00094	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.079	J	0.26	0.050	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	21		0.26	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	22		0.26	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	20		1.0	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-3B-1.8 Laboratory Sample ID : 265129-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.034	J	0.24	0.017	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	95	Y	5.8	1.8	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	400		29	8.9	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Phenanthrene	560	J	790	97	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Fluoranthene	1,200		790	110	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Pyrene	1,400		790	87	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(a)anthracene	340	J	790	80	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Chrysene	550	J	790	98	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	690	J	790	69	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	240	J	790	71	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(a)pyrene	440	J	790	70	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	490	J	790	91	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	710	J	790	98	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Antimony	0.63		0.59	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.2		0.29	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	180		0.29	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.35		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.96		0.29	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	24		0.29	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.3		0.29	0.035	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	35		0.29	0.098	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	150		0.29	0.082	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.42		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.76		0.29	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	21		0.29	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.72		0.29	0.047	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	28		0.29	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	110		1.2	0.066	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-4B-1.8 Laboratory Sample ID : 265129-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.042	J	0.24	0.018	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	6.1	Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	24		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	27	J	81	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	72	J	81	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	94		81	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	29	J	81	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	39	J	81	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	60	J	81	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	24	J	81	22	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	40	J	81	19	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	50	J	81	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	68	J	81	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	0.33	J	0.60	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.1		0.30	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	150		0.30	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.33		0.12	0.015	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.44		0.30	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	31		0.30	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.0		0.30	0.036	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	21		0.30	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	27		0.30	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.030		0.019	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.20	J	0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	31		0.30	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	22		0.30	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	41		1.2	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

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Client Sample ID : TBL2-5B-2.2 Laboratory Sample ID : 265129-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.40		0.20	0.014	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	150	Y	5.6	1.7	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	400		28	8.5	mg/Kg	Dry	5.000	EPA 8015B	EPA 3550B
Naphthalene	120	J	370	72	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Acenaphthylene	990		370	71	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluorene	74	J	370	66	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Phenanthrene	4,700		370	84	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Anthracene	570		370	70	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Fluoranthene	9,800		370	73	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Pyrene	16,000		750	82	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(a)anthracene	4,400		370	66	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Chrysene	5,800		370	81	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	8,200		370	78	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	2,400		370	100	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	4,900		370	87	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	4,300		370	83	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	660		370	82	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	5,100		370	73	ug/Kg	Dry	5.000	EPA 8270C	EPA 3550B
Antimony	0.96		0.55	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	4.6		0.27	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	220		0.27	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.32		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.3		0.27	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	54		0.27	0.069	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.2		0.27	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	64		0.27	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	530		0.27	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.37		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.93		0.27	0.053	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	30		0.27	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.093	J	0.27	0.043	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	32		0.27	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	170		1.1	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TB-030615	Batch#:	221128
Matrix:	Water	Sampled:	03/06/15
Units:	ug/L	Received:	03/06/15
Diln Fac:	1.000	Analyzed:	03/09/15

Type: SAMPLE Lab ID: 265129-001

Analyte	Result	RL	MDL
Gasoline C7-C12	14 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	80-132

Type: BLANK Lab ID: QC779937

Analyte	Result	RL	MDL
Gasoline C7-C12	11 J	50	11

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85	80-132

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779934	Batch#:	221128
Matrix:	Water	Analyzed:	03/09/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	969.3	97	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	82	80-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	221128
MSS Lab ID:	265154-002	Sampled:	03/09/15
Matrix:	Water	Received:	03/09/15
Units:	ug/L	Analyzed:	03/09/15
Diln Fac:	1.000		

Type: MS Lab ID: QC779938

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	14.31	2,000	1,916	95	76-120

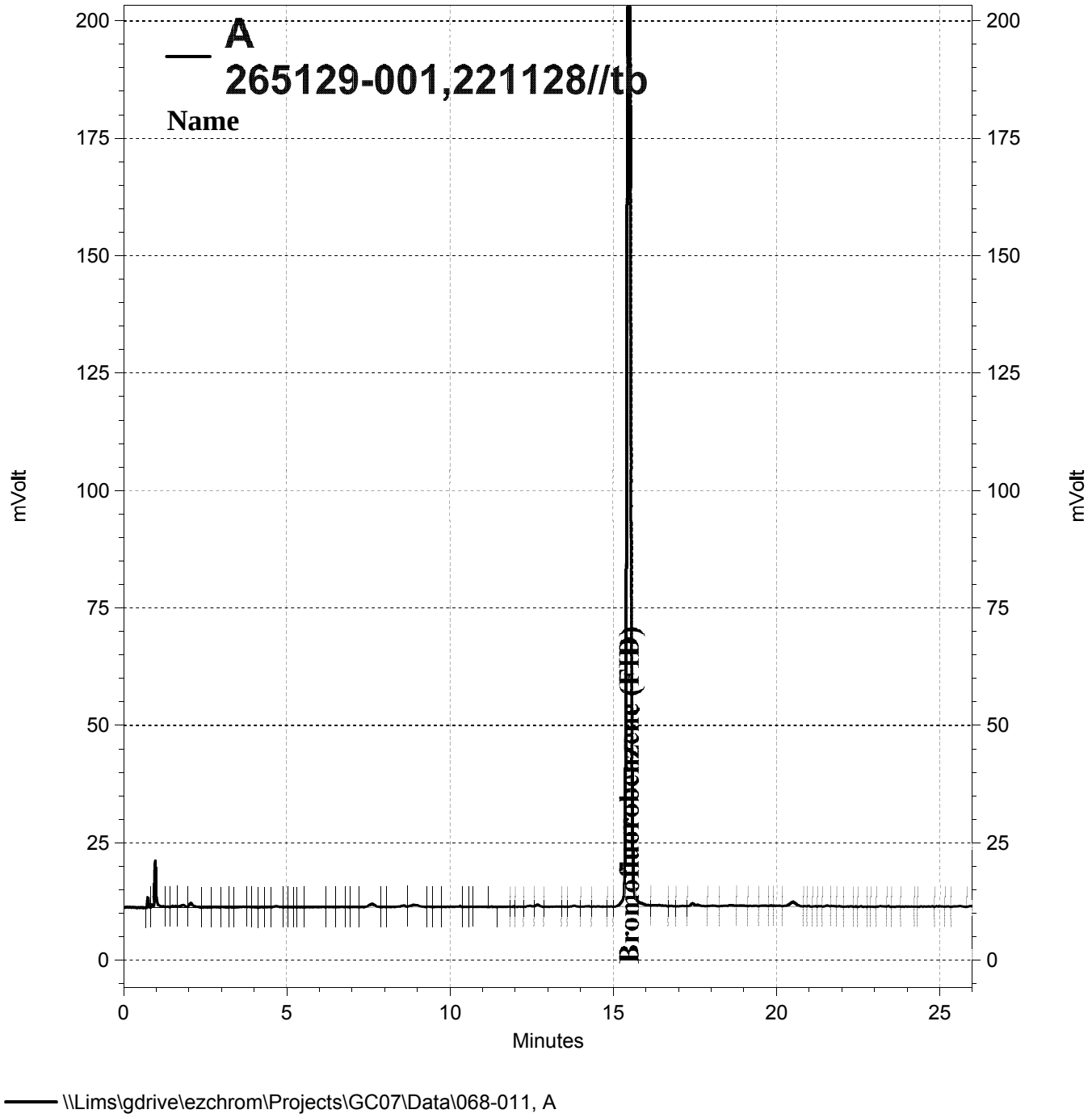
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-132

Type: MSD Lab ID: QC779939

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,883	93	76-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	80-132

RPD= Relative Percent Difference



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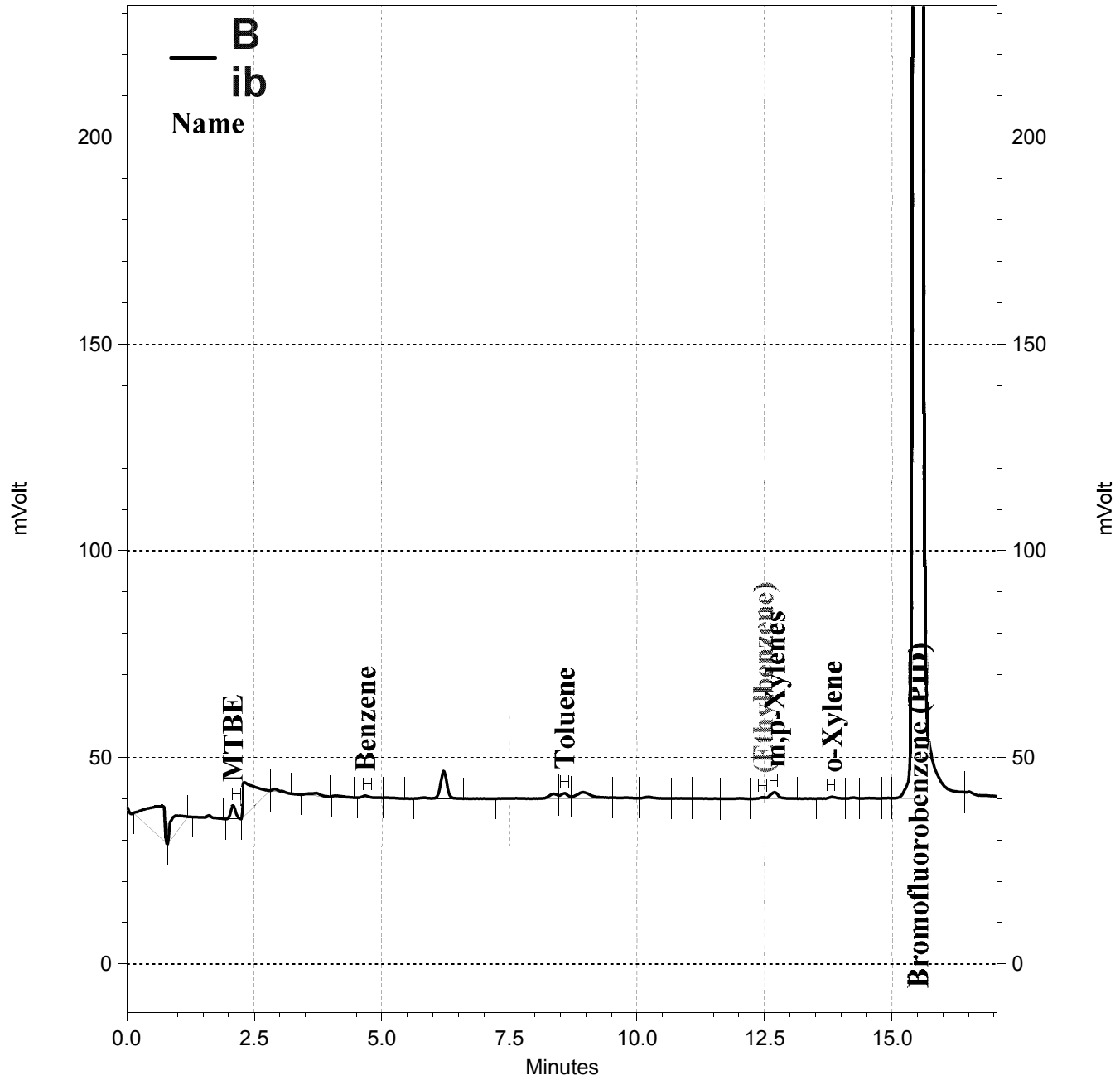
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Bromofluorobenzene (PID)
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mVolt
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Minutes
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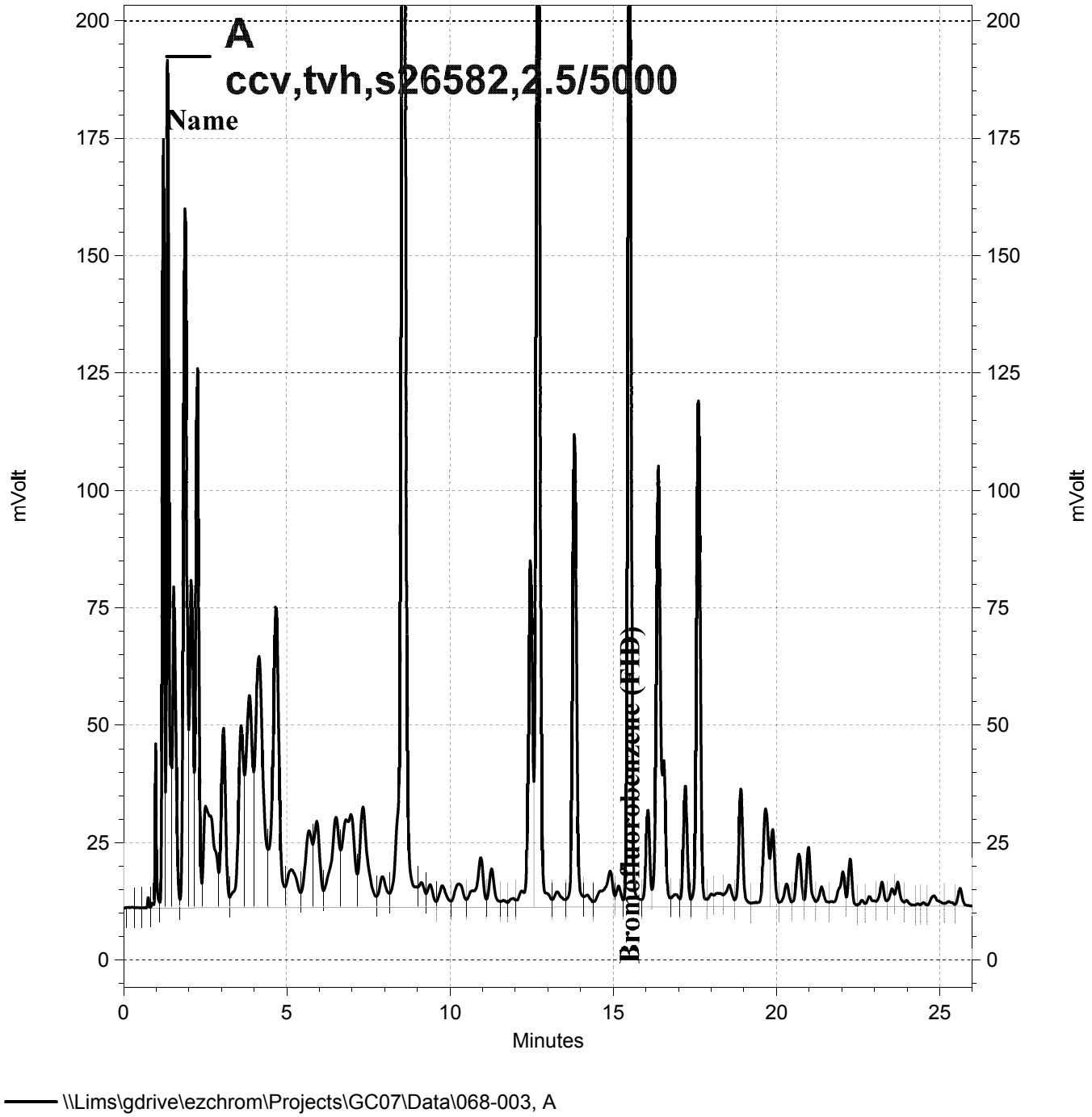
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175
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25
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Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221127
Units:	mg/Kg	Sampled:	03/06/15
Basis:	dry	Received:	03/06/15
Diln Fac:	1.000		

Field ID:	TBL2-1SW-0.9	Moisture:	13%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-002		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.13 J	0.27	0.020

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Field ID:	TBL2-2SW-0.9	Moisture:	15%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-003		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.12 J	0.37	0.027

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	119	78-138

Field ID:	TBL2-3SW-0.9	Moisture:	6%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-004		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.035 J	0.25	0.018

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

Field ID:	TBL2-4SW-1.3	Moisture:	12%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-005		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.041 J	0.29	0.021

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221127
Units:	mg/Kg	Sampled:	03/06/15
Basis:	dry	Received:	03/06/15
Diln Fac:	1.000		

Field ID:	TBL2-5SW-1.3	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-006		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.037 J	0.21	0.016

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

Field ID:	TBL2-6SW-1.3	Moisture:	8%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-007		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.066 J	0.34	0.025

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Field ID:	TBL2-7SW-1.4	Moisture:	12%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-008		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.24	0.017

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	78-138

Field ID:	TBL2-8SW-1.2	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-009		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.23	0.017

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221127
Units:	mg/Kg	Sampled:	03/06/15
Basis:	dry	Received:	03/06/15
Diln Fac:	1.000		

Field ID:	TBL2-1B-4.0	Moisture:	7%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-010		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.21 J	0.28	0.021

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	78-138

Field ID:	TBL2-2B-4.0	Moisture:	9%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-011		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.058 J	0.32	0.024

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	78-138

Field ID:	TBL2-3B-1.8	Moisture:	15%
Type:	SAMPLE	Analyzed:	03/09/15
Lab ID:	265129-012		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.034 J	0.24	0.017

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

Field ID:	TBL2-4B-1.8	Moisture:	17%
Type:	SAMPLE	Analyzed:	03/10/15
Lab ID:	265129-013		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.042 J	0.24	0.018

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221127
Units:	mg/Kg	Sampled:	03/06/15
Basis:	dry	Received:	03/06/15
Diln Fac:	1.000		

Field ID:	TBL2-5B-2.2	Moisture:	11%
Type:	SAMPLE	Analyzed:	03/10/15
Lab ID:	265129-014		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.40	0.20	0.014

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	78-138

Type:	BLANK	Analyzed:	03/09/15
Lab ID:	QC779931		

Analyte	Result	RL	MDL
Gasoline C7-C12	0.015 J	0.20	0.015

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	78-138

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779930	Batch#:	221127
Matrix:	Soil	Analyzed:	03/09/15
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.038	104	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	265136-001	Batch#:	221127
Matrix:	Soil	Sampled:	03/06/15
Units:	mg/Kg	Received:	03/06/15
Basis:	as received	Analyzed:	03/09/15

Type: MS Lab ID: QC779932

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1529	9.346	9.293	98	50-120

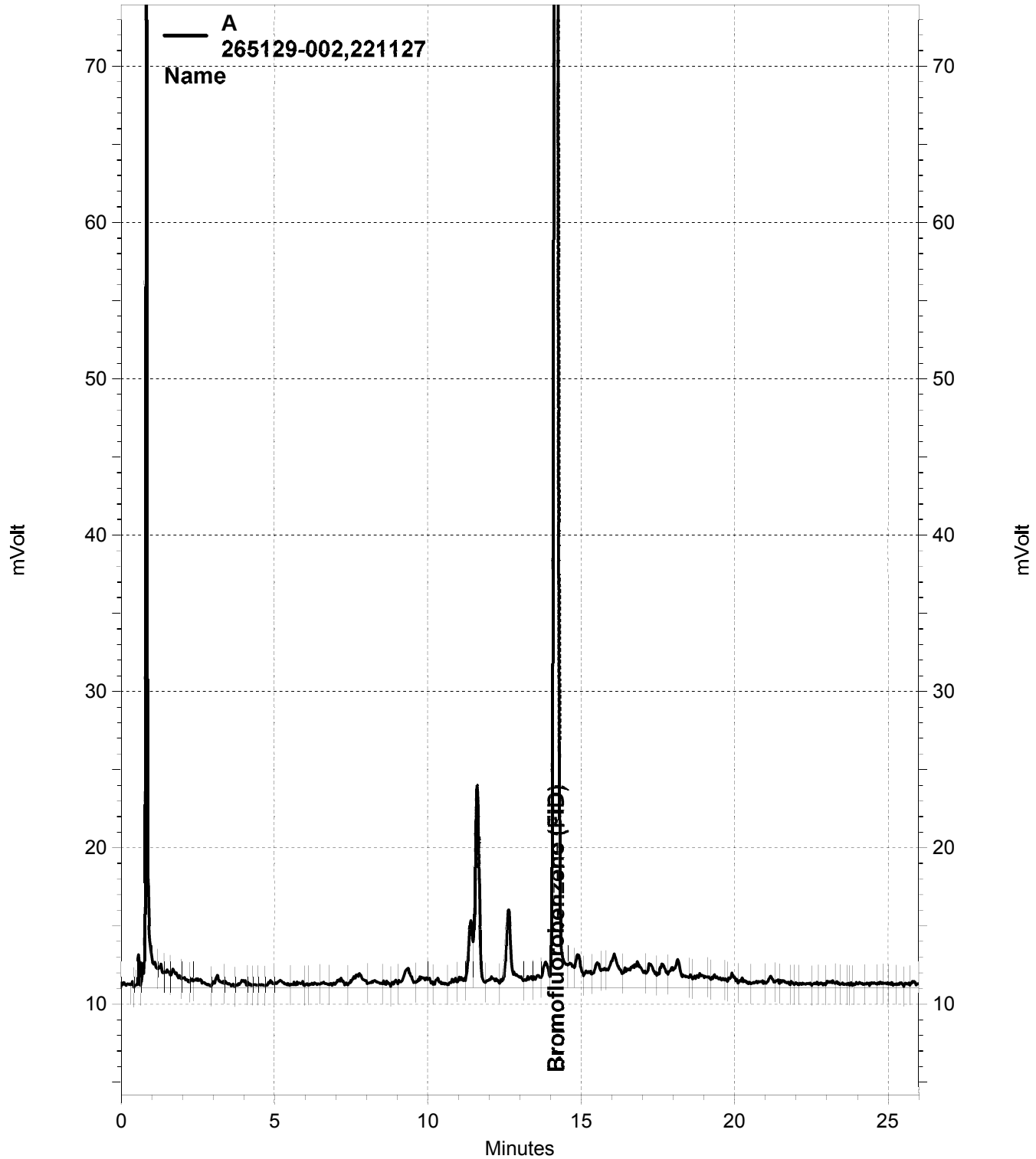
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Type: MSD Lab ID: QC779933

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.87	10.70	97	50-120	1	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

RPD= Relative Percent Difference



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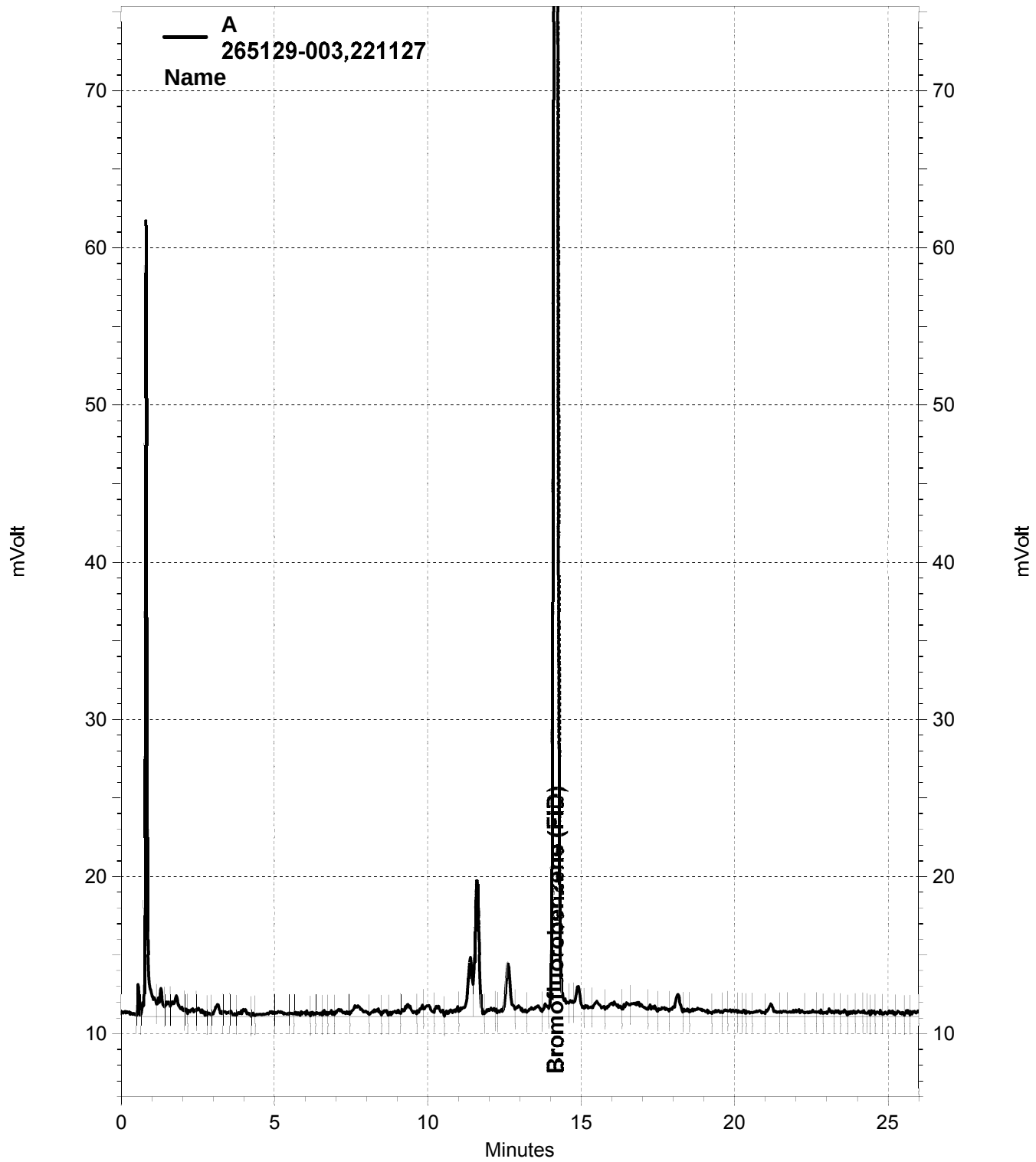

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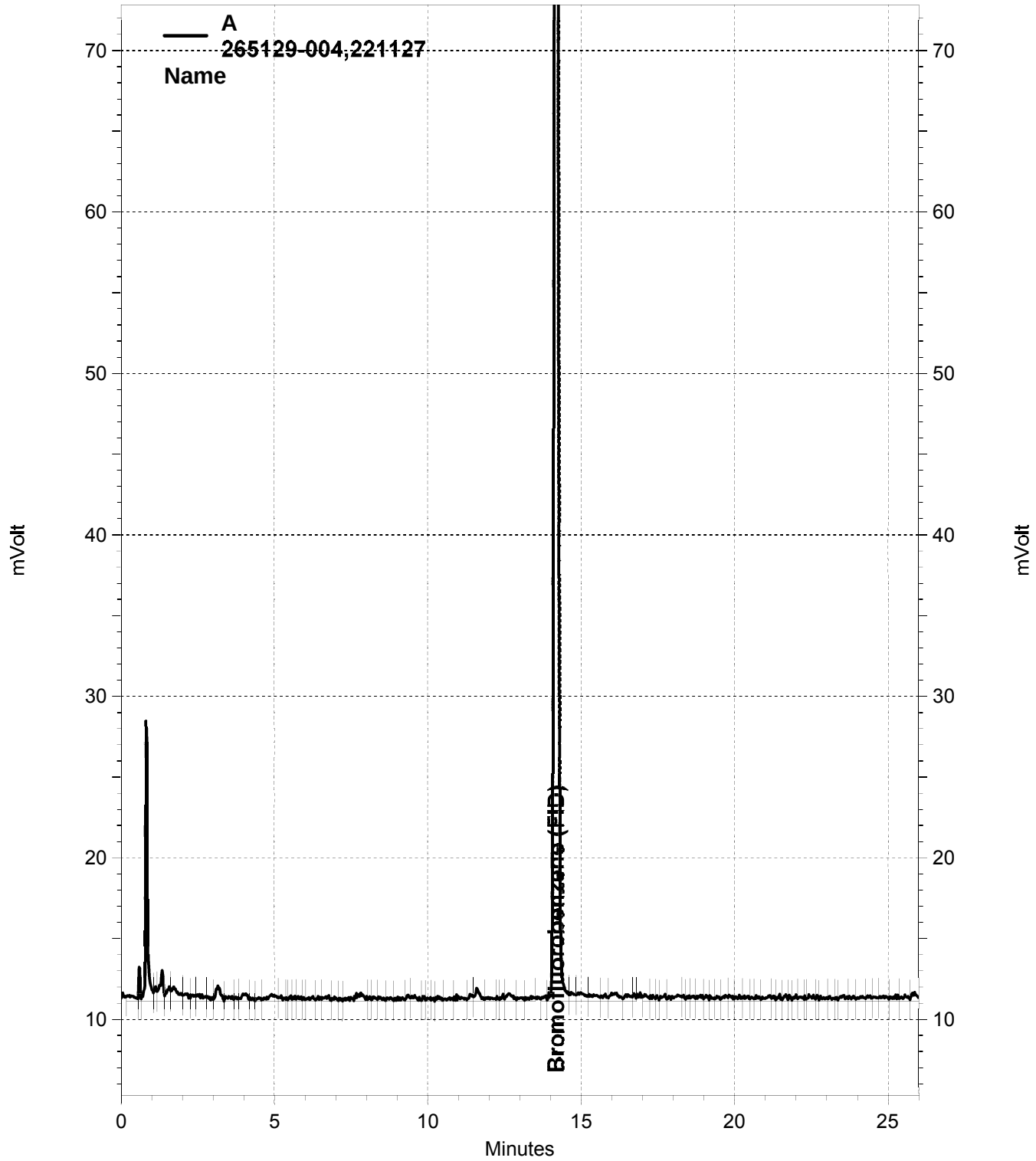

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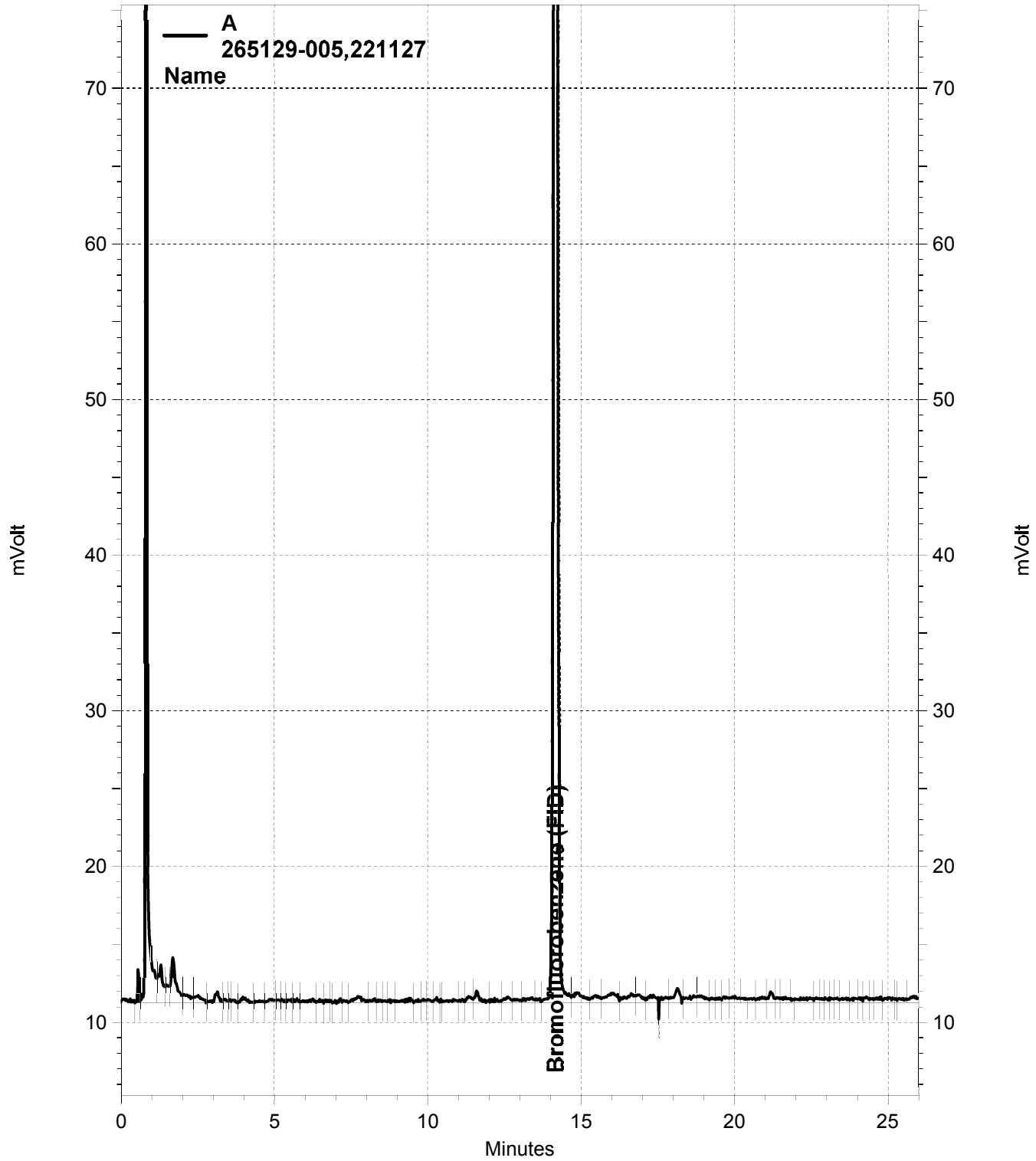

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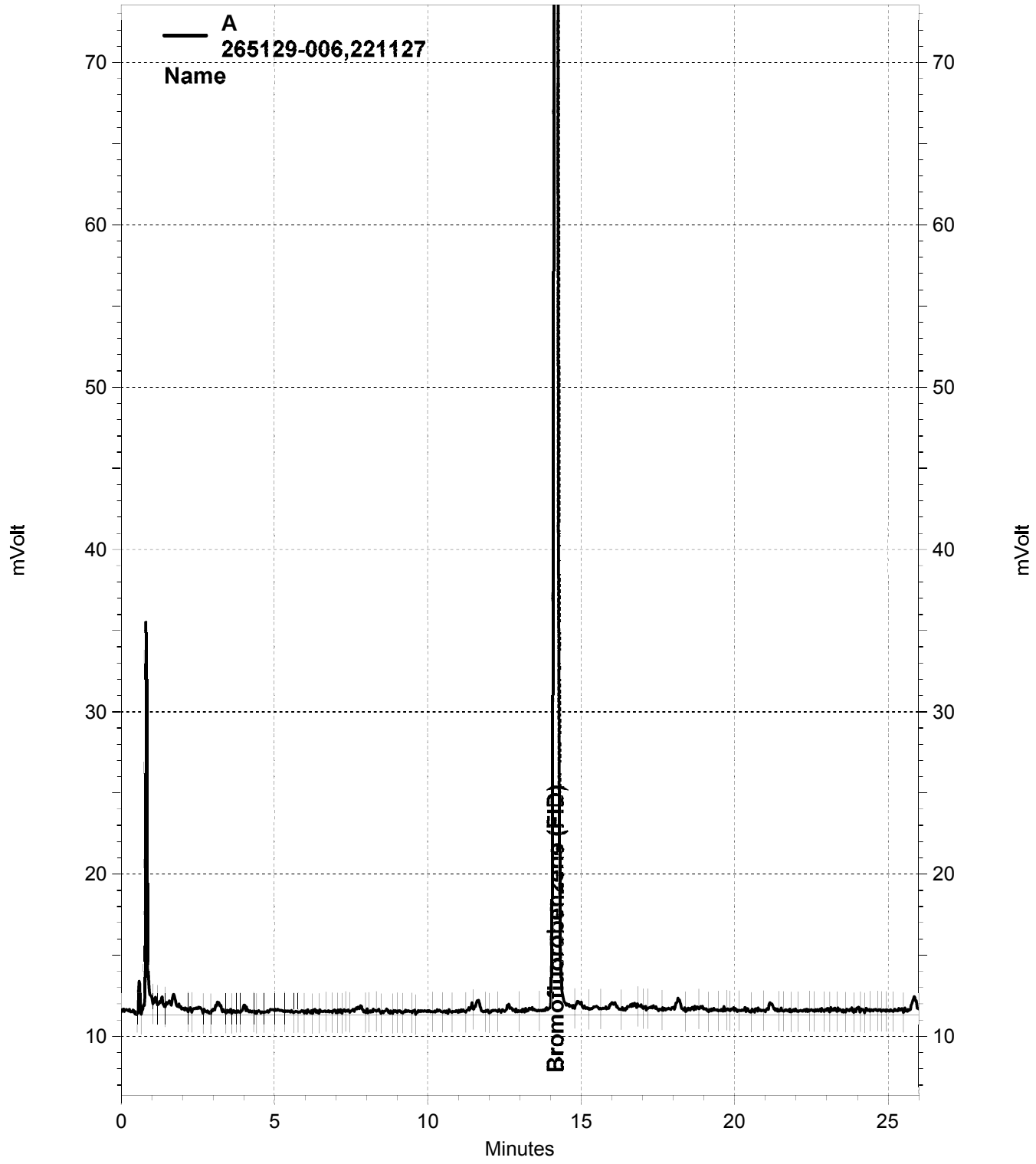

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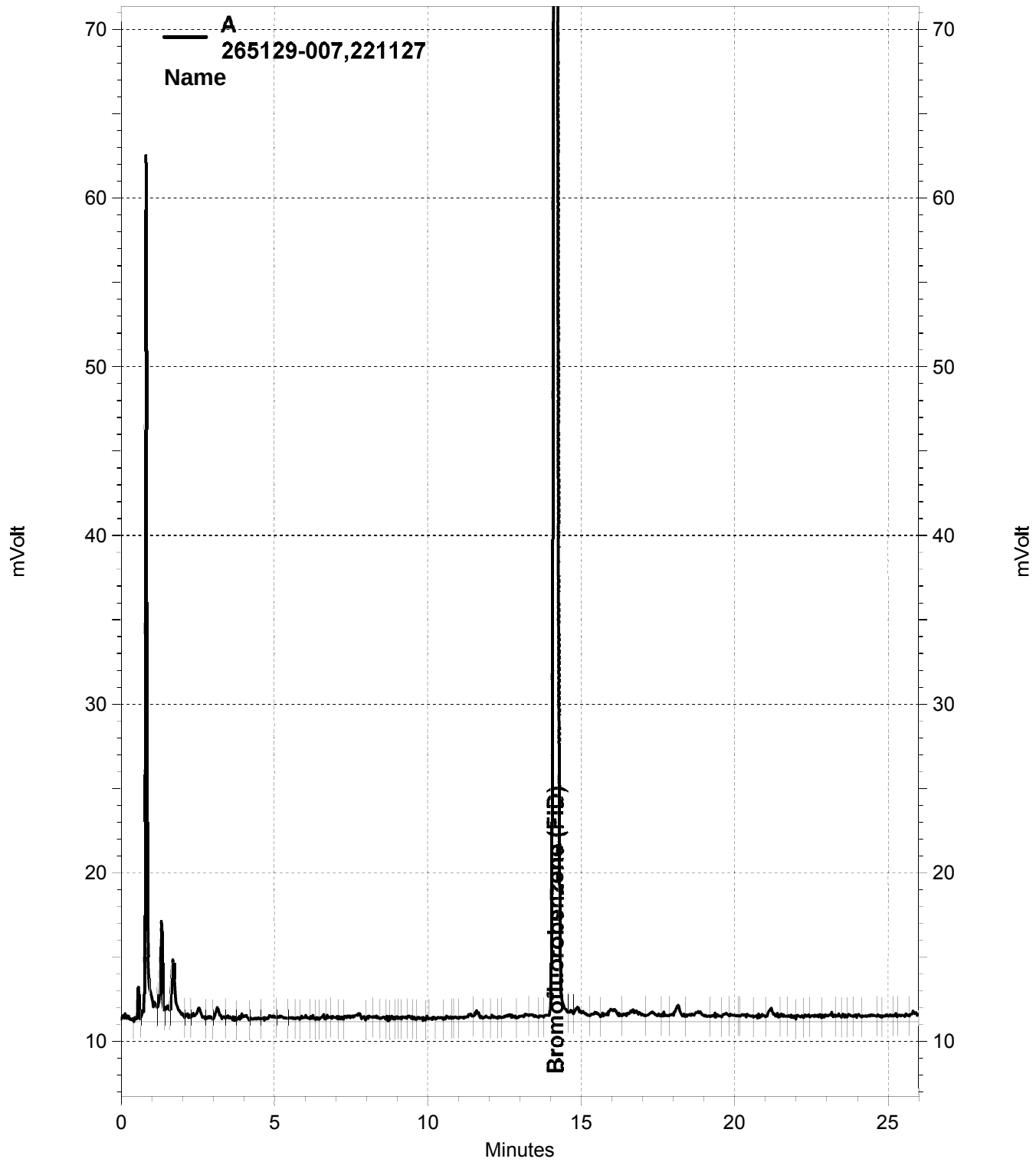

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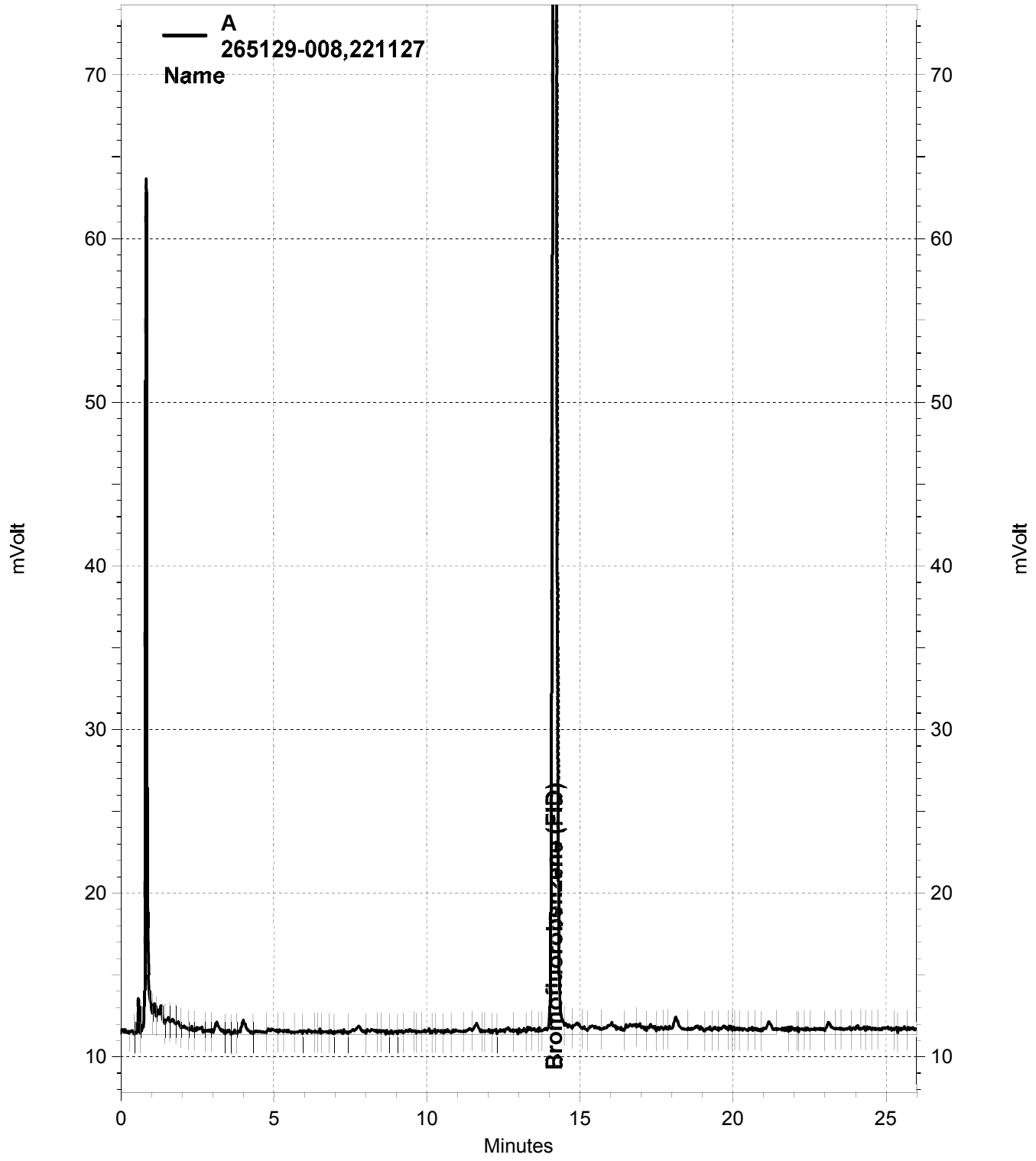

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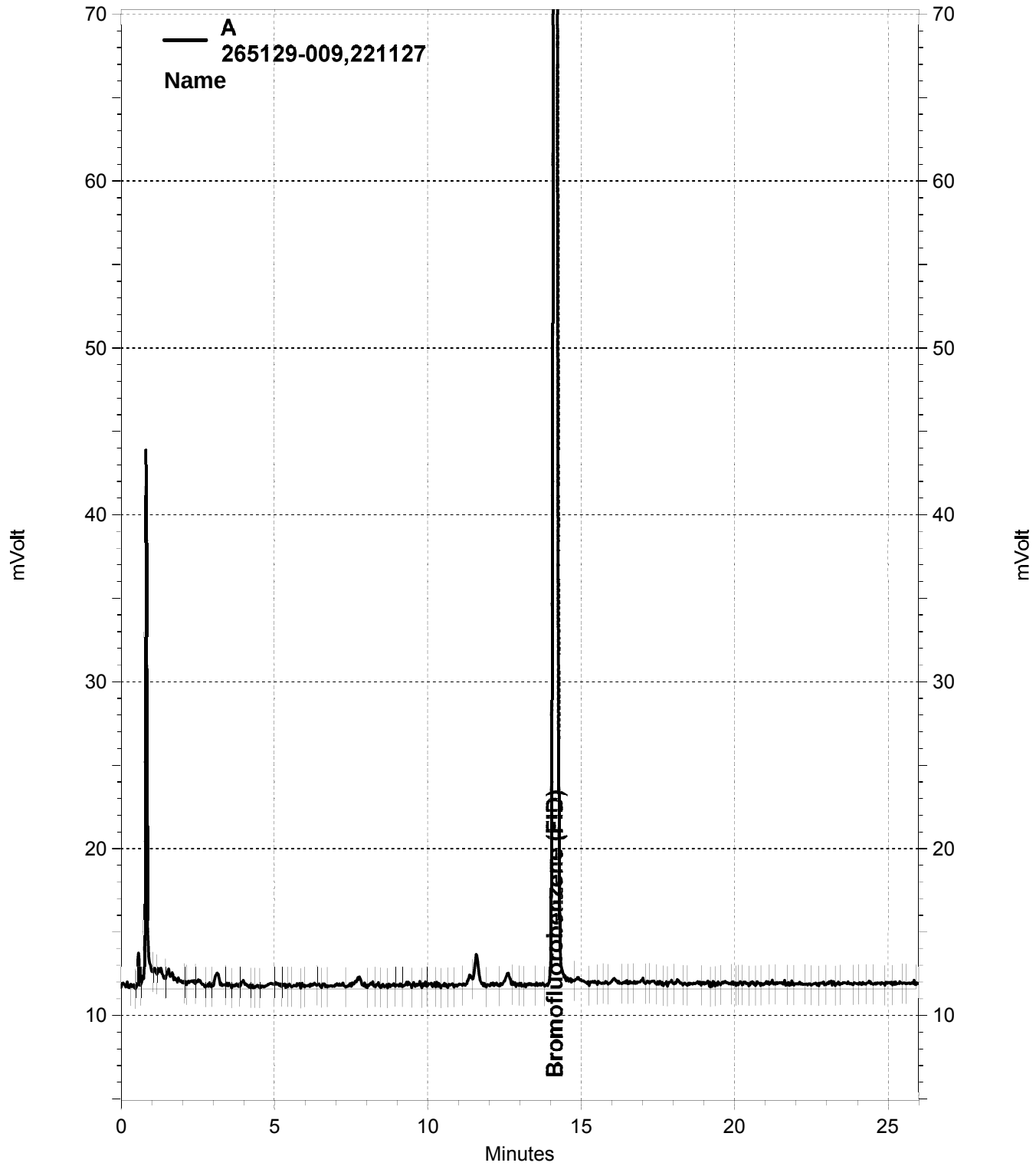

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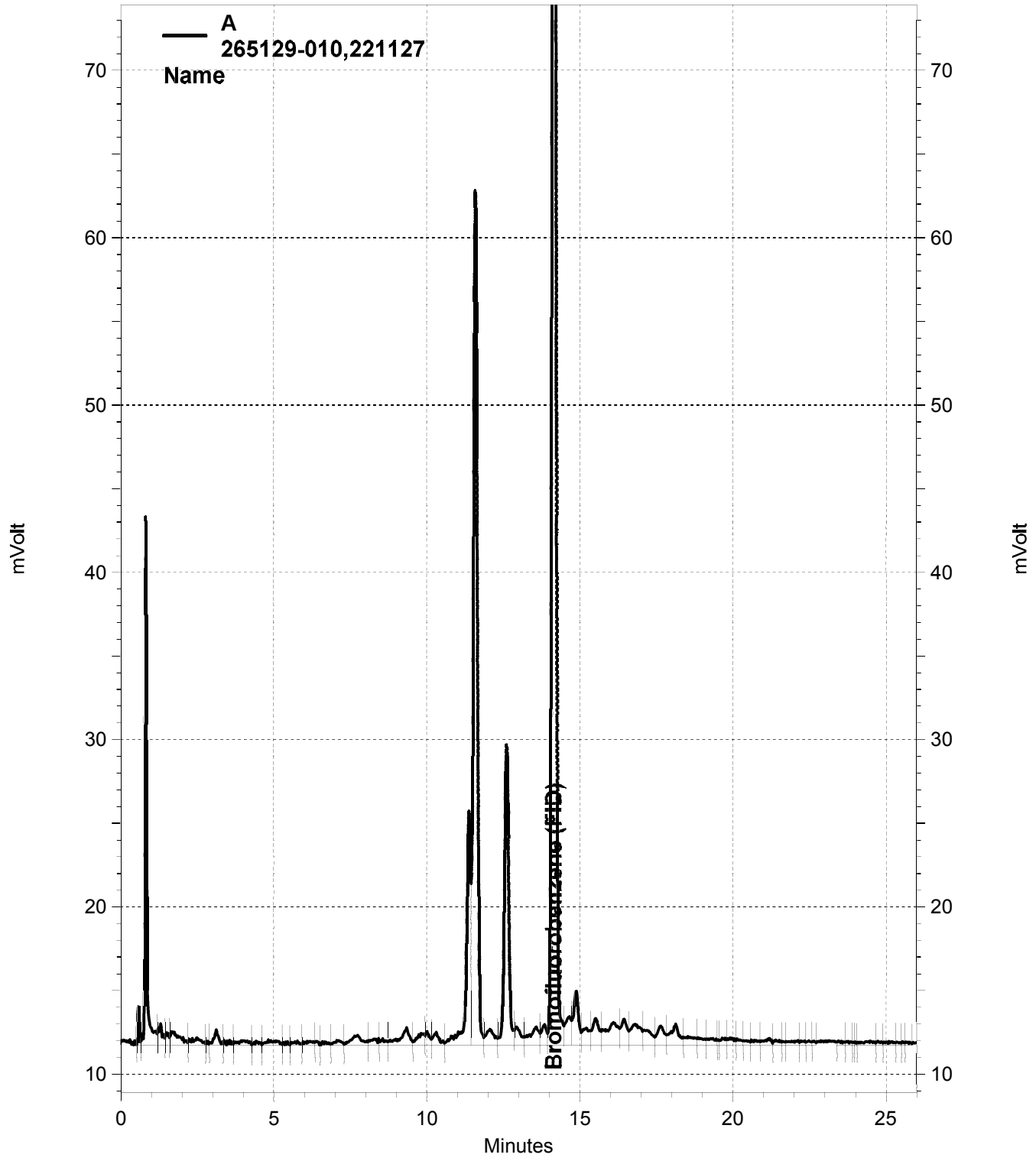

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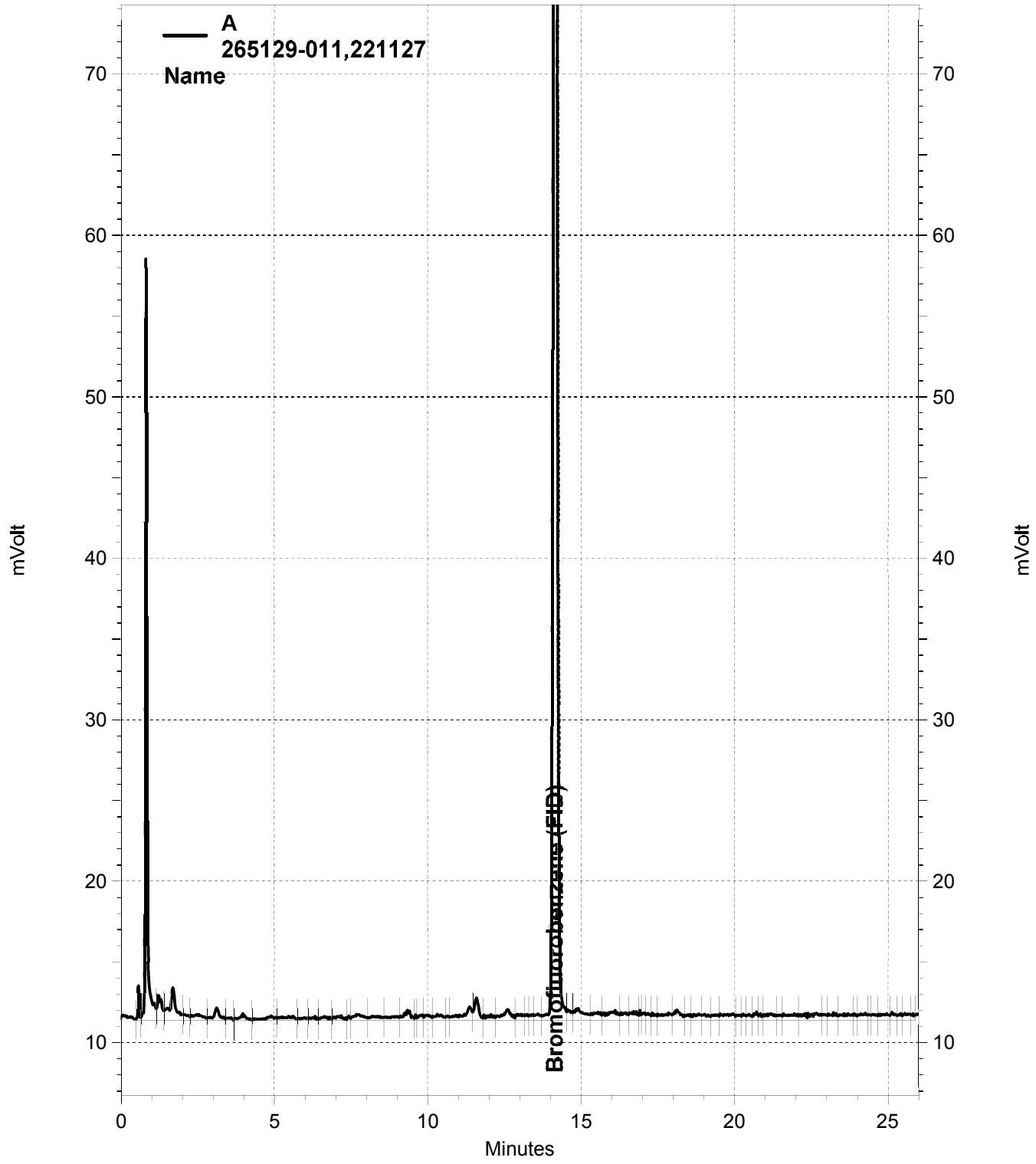

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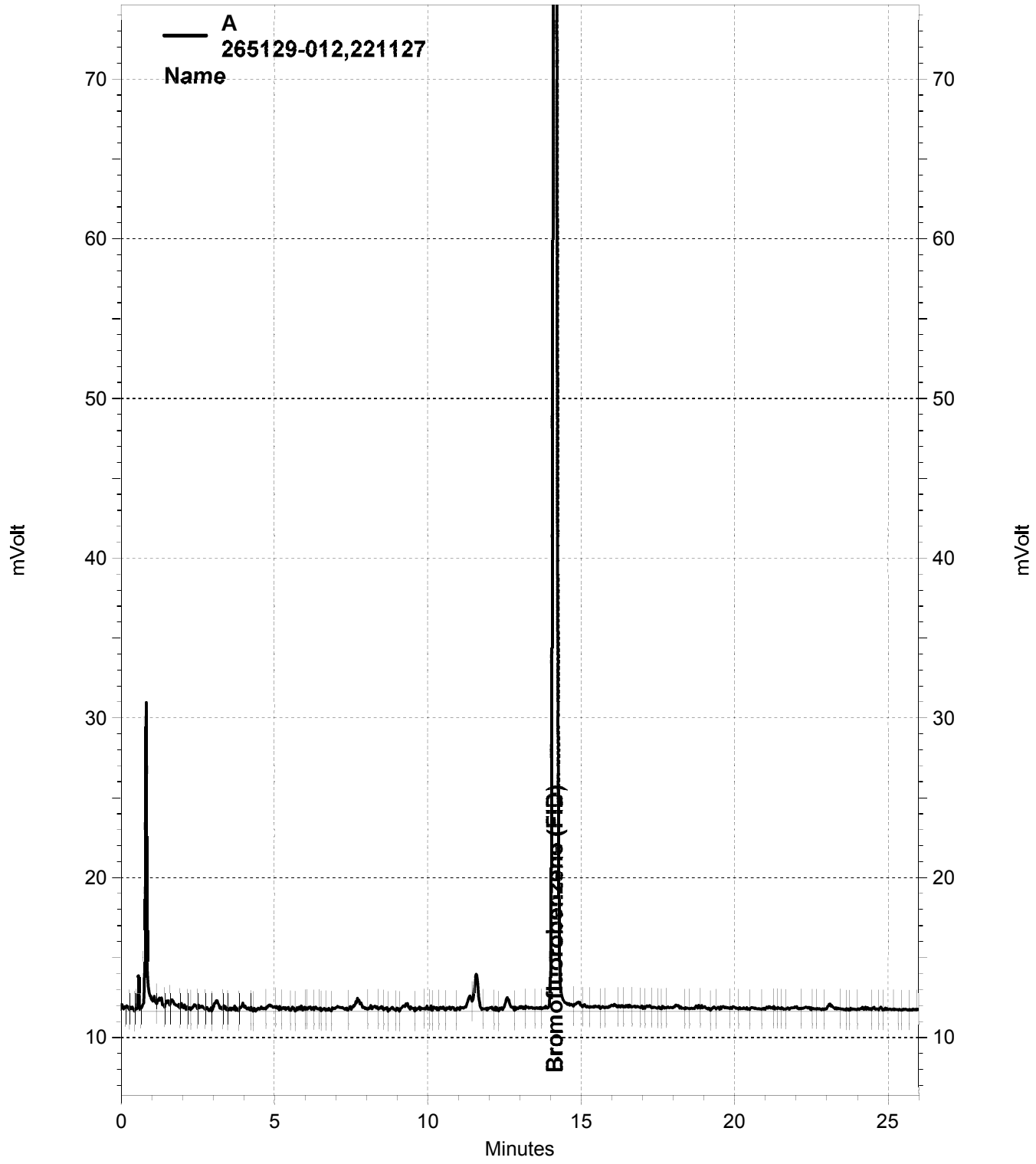

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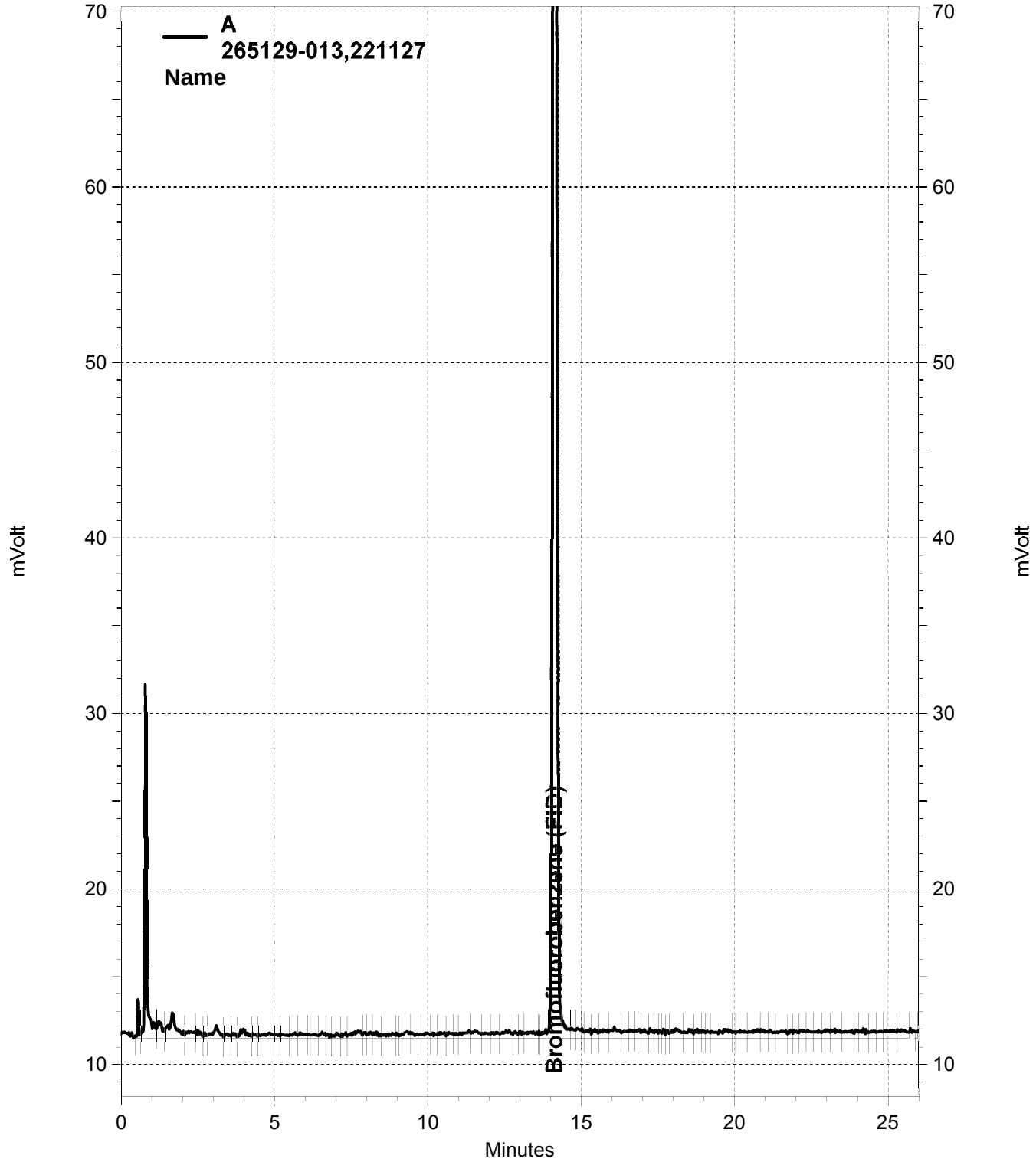

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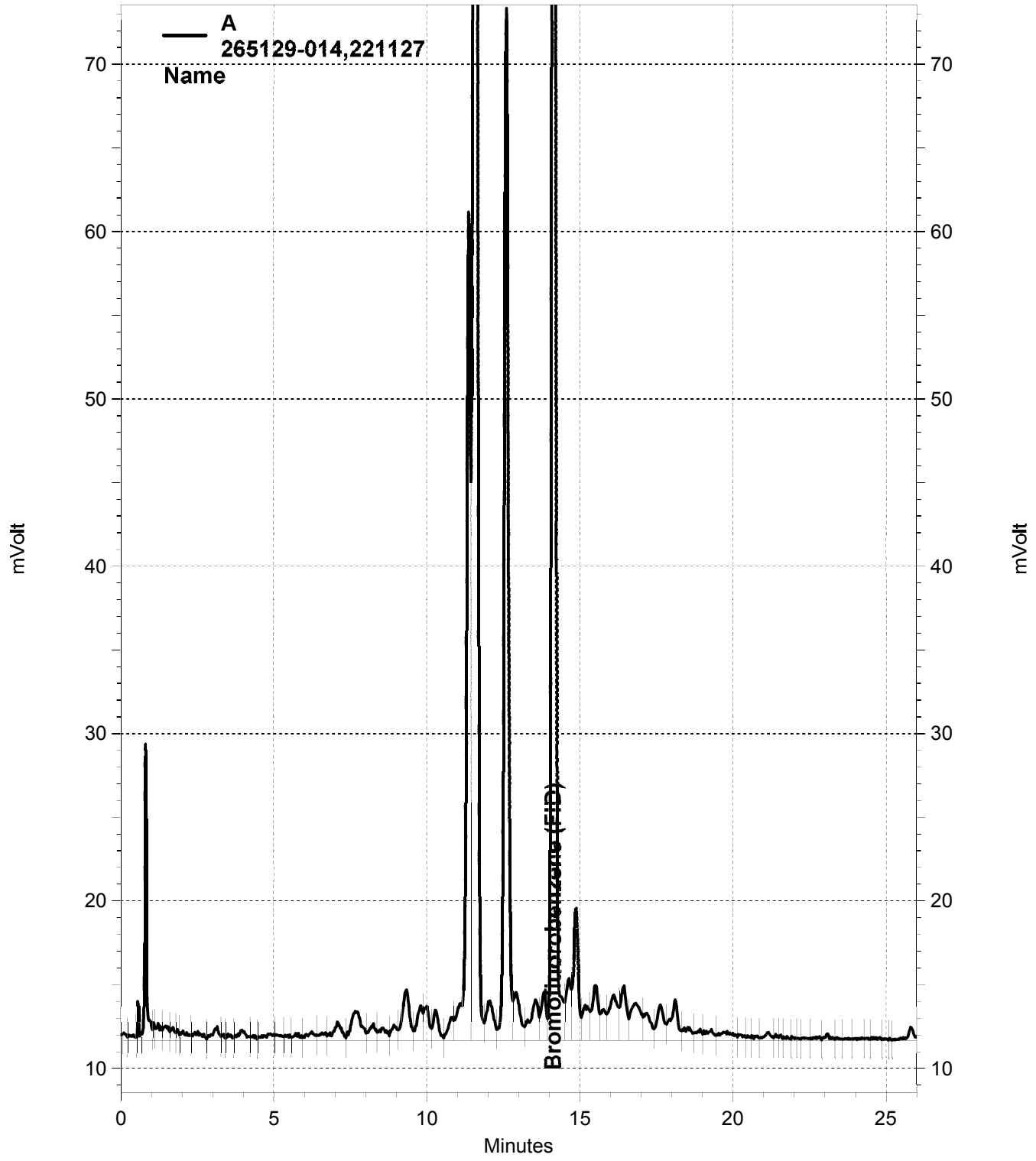

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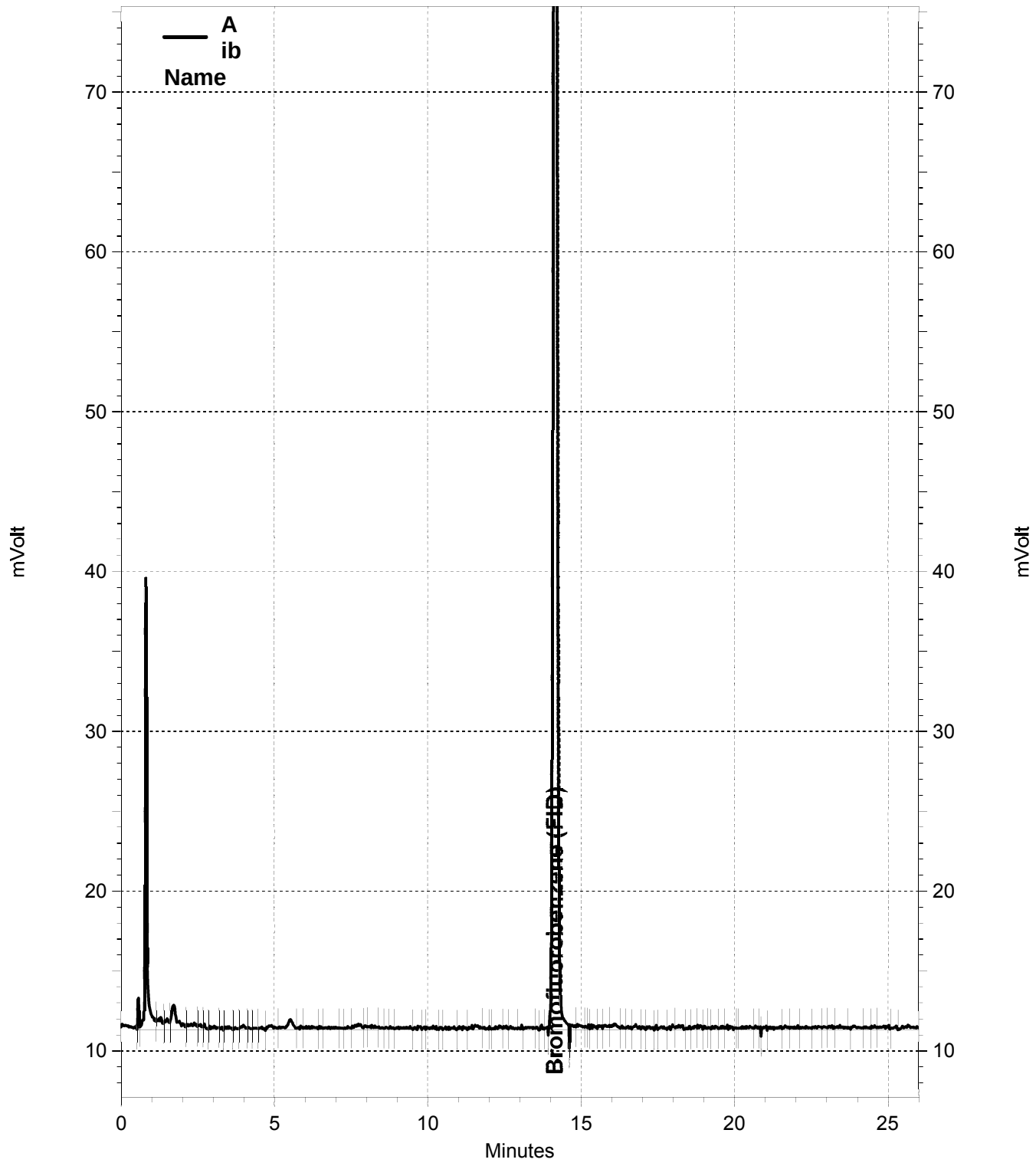

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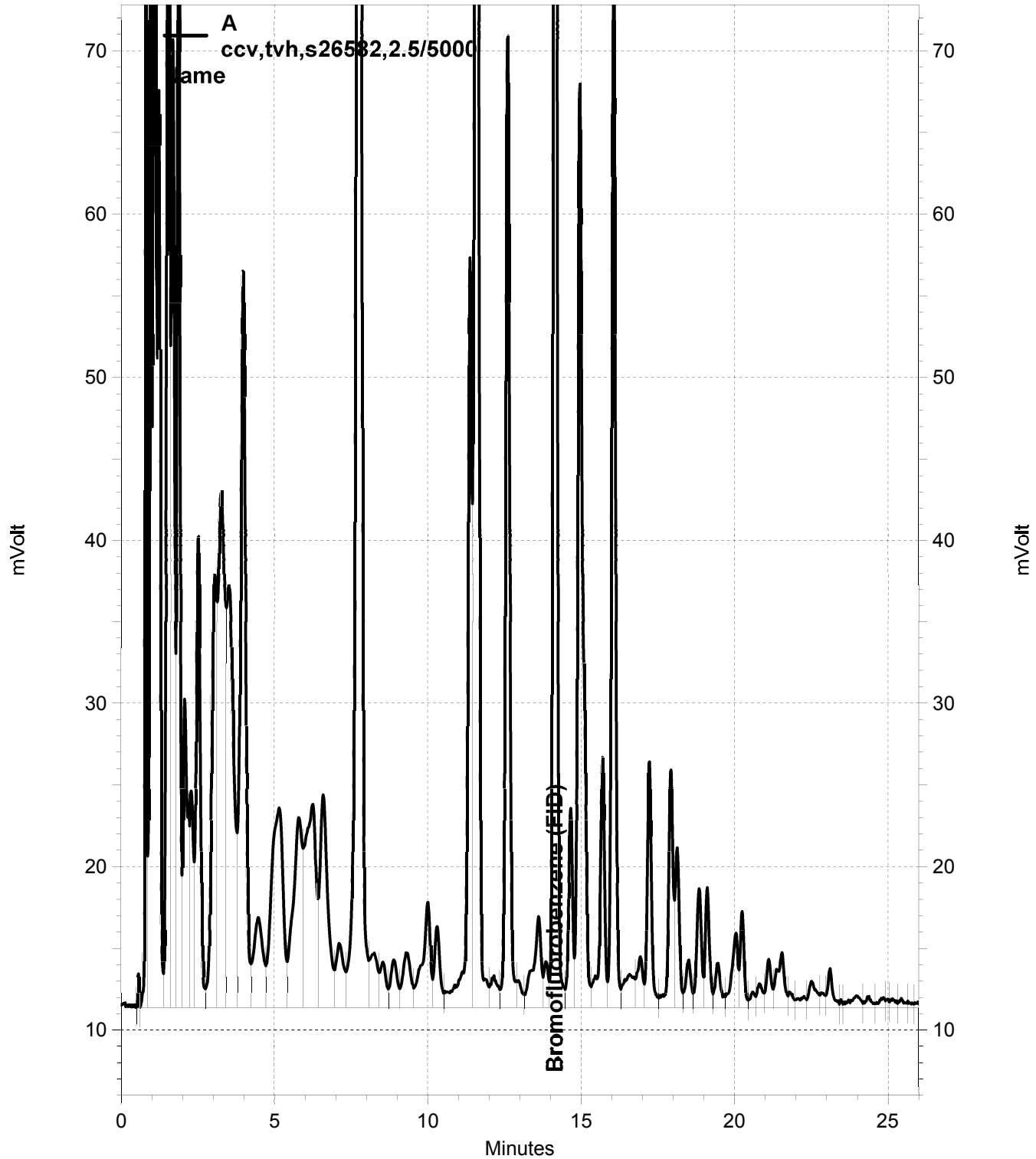

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/15
Units:	mg/Kg	Received:	03/06/15
Basis:	dry	Prepared:	03/09/15
Batch#:	221130		

Field ID:	TBL2-1SW-0.9	Moisture:	13%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-002	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	12 Y	1.1	0.35
Motor Oil C24-C36	64	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	126	59-140

Field ID:	TBL2-2SW-0.9	Moisture:	15%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-003	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	0.40 J	1.2	0.36
Motor Oil C24-C36	ND	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	104	59-140

Field ID:	TBL2-3SW-0.9	Moisture:	6%
Type:	SAMPLE	Diln Fac:	10.00
Lab ID:	265129-004	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	150 Y	11	3.3
Motor Oil C24-C36	920	53	16

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Field ID:	TBL2-4SW-1.3	Moisture:	12%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-005	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	40	1.1	0.35
Motor Oil C24-C36	160	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	124	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/15
Units:	mg/Kg	Received:	03/06/15
Basis:	dry	Prepared:	03/09/15
Batch#:	221130		

Field ID:	TBL2-5SW-1.3	Moisture:	11%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-006	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	140	1.1	0.35
Motor Oil C24-C36	290	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	116	59-140

Field ID:	TBL2-6SW-1.3	Moisture:	8%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-007	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	7.0 Y	1.1	0.34
Motor Oil C24-C36	44	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	121	59-140

Field ID:	TBL2-7SW-1.4	Moisture:	12%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	265129-008	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	370 Y	5.7	1.8
Motor Oil C24-C36	810	29	8.7

Surrogate	%REC	Limits
o-Terphenyl	102	59-140

Field ID:	TBL2-8SW-1.2	Moisture:	11%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-009	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	47 Y	1.1	0.34
Motor Oil C24-C36	230	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	117	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/15
Units:	mg/Kg	Received:	03/06/15
Basis:	dry	Prepared:	03/09/15
Batch#:	221130		

Field ID:	TBL2-1B-4.0	Moisture:	7%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-010	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	2.6 Y	1.1	0.33
Motor Oil C24-C36	10	5.4	1.6

Surrogate	%REC	Limits
o-Terphenyl	112	59-140

Field ID:	TBL2-2B-4.0	Moisture:	9%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-011	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	2.1 Y	1.1	0.34
Motor Oil C24-C36	8.1	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	110	59-140

Field ID:	TBL2-3B-1.8	Moisture:	15%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	265129-012	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	95 Y	5.8	1.8
Motor Oil C24-C36	400	29	8.9

Surrogate	%REC	Limits
o-Terphenyl	105	59-140

Field ID:	TBL2-4B-1.8	Moisture:	17%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265129-013	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	6.1 Y	1.2	0.37
Motor Oil C24-C36	24	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	112	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/06/15
Units:	mg/Kg	Received:	03/06/15
Basis:	dry	Prepared:	03/09/15
Batch#:	221130		

Field ID:	TBL2-5B-2.2	Moisture:	11%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	265129-014	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Diesel C10-C24	150 Y	5.6	1.7
Motor Oil C24-C36	400	28	8.5

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC779941	Analyzed:	03/09/15

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	126	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC779942	Batch#:	221130
Matrix:	Soil	Prepared:	03/09/15
Units:	mg/Kg	Analyzed:	03/10/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.73	50.99	103	58-137

Surrogate	%REC	Limits
o-Terphenyl	115	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	221130
MSS Lab ID:	265137-002	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Prepared:	03/09/15
Basis:	as received	Analyzed:	03/10/15
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC779943

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	20.76	50.02	61.76	82	46-154

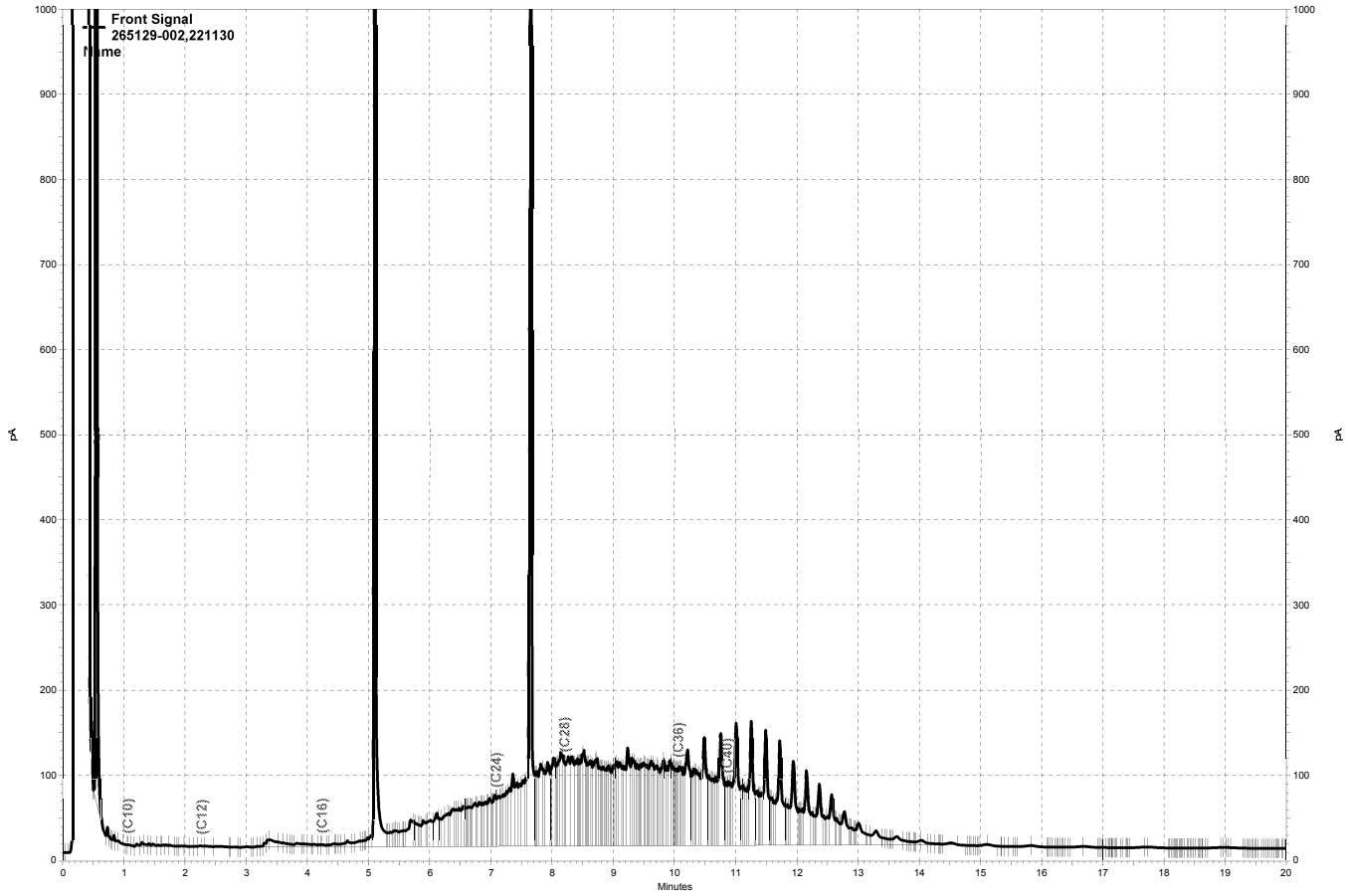
Surrogate	%REC	Limits
o-Terphenyl	97	59-140

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC779944

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.99	62.99	84	46-154	2	50

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

RPD= Relative Percent Difference



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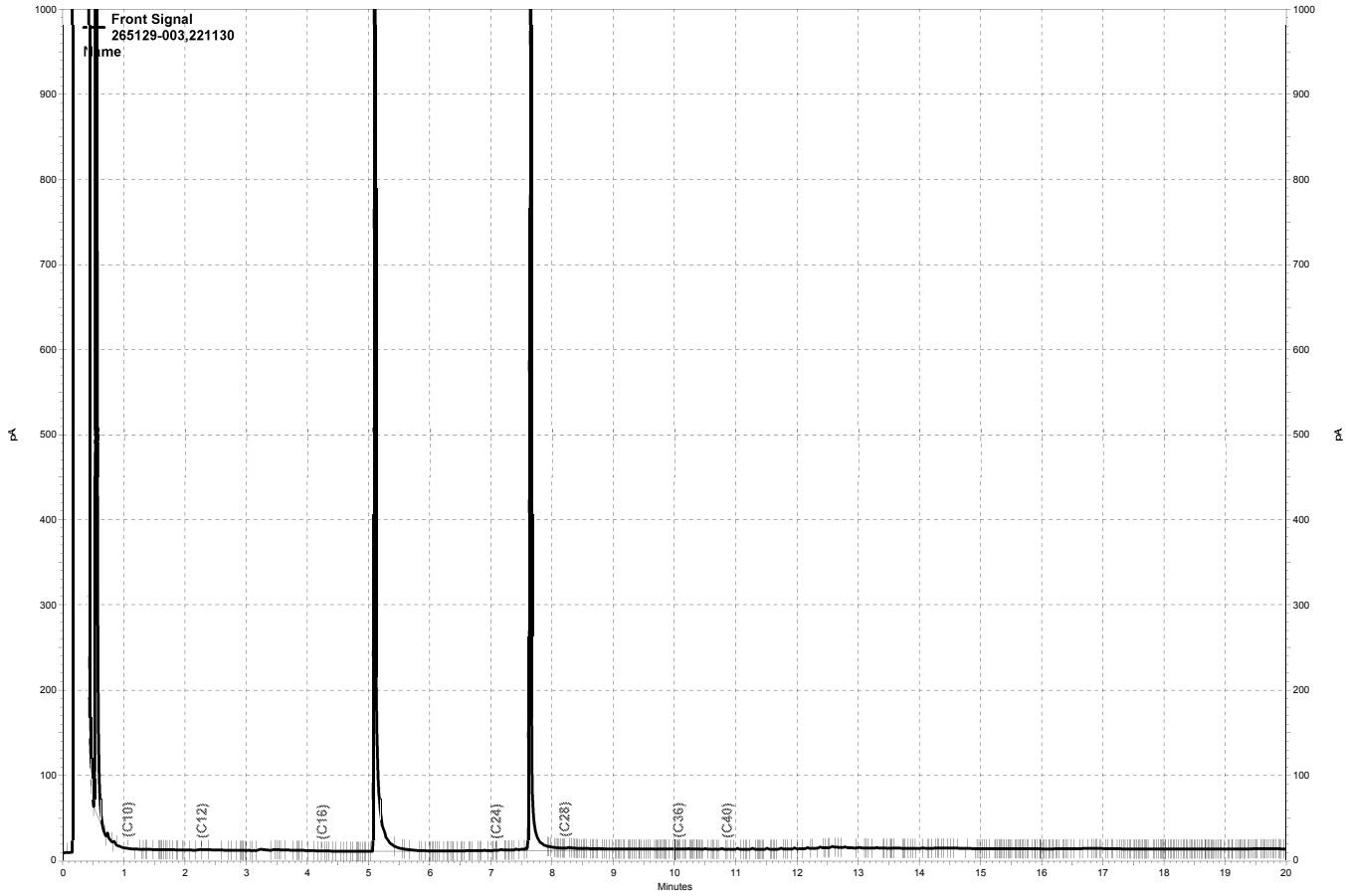

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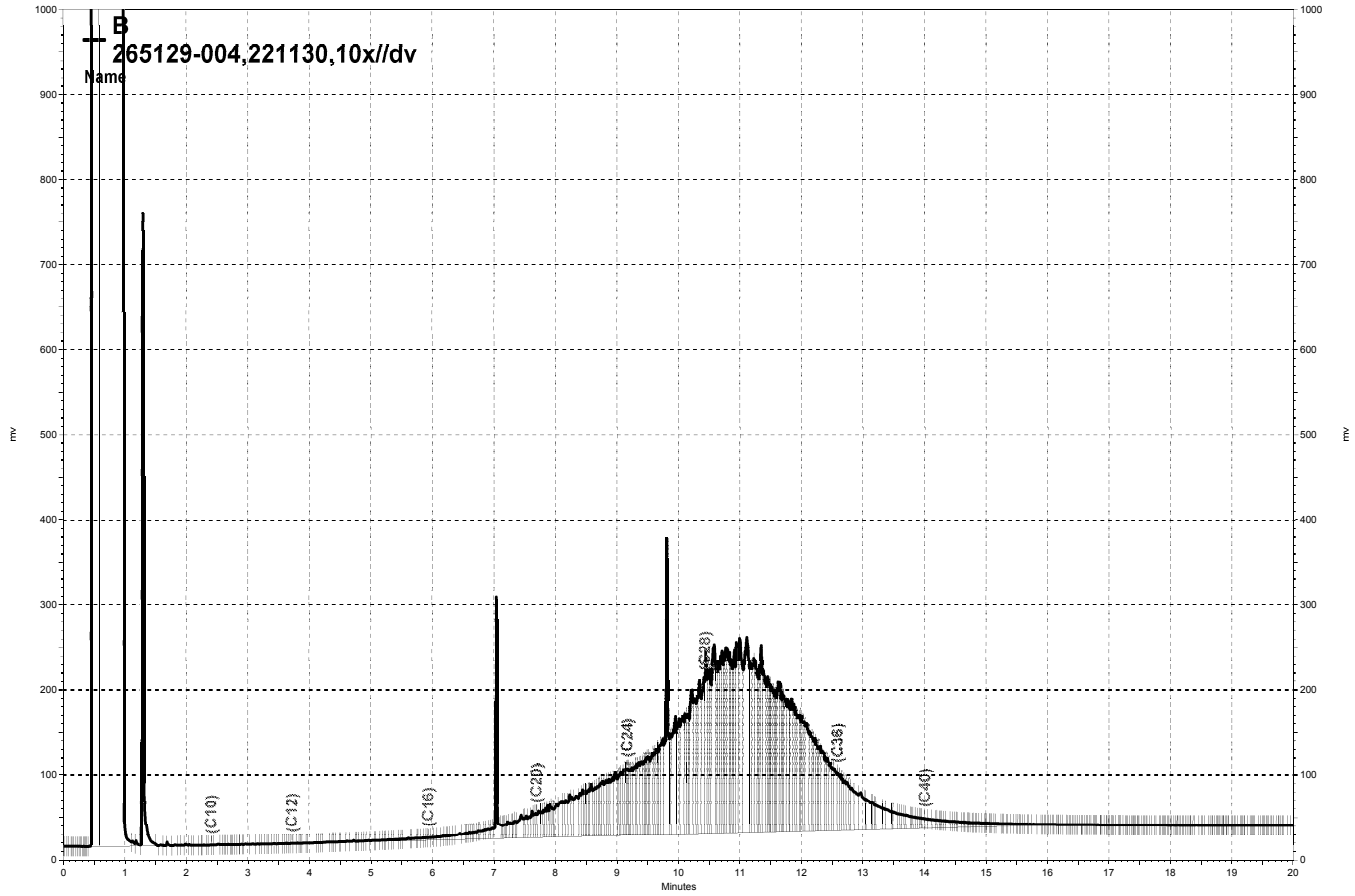

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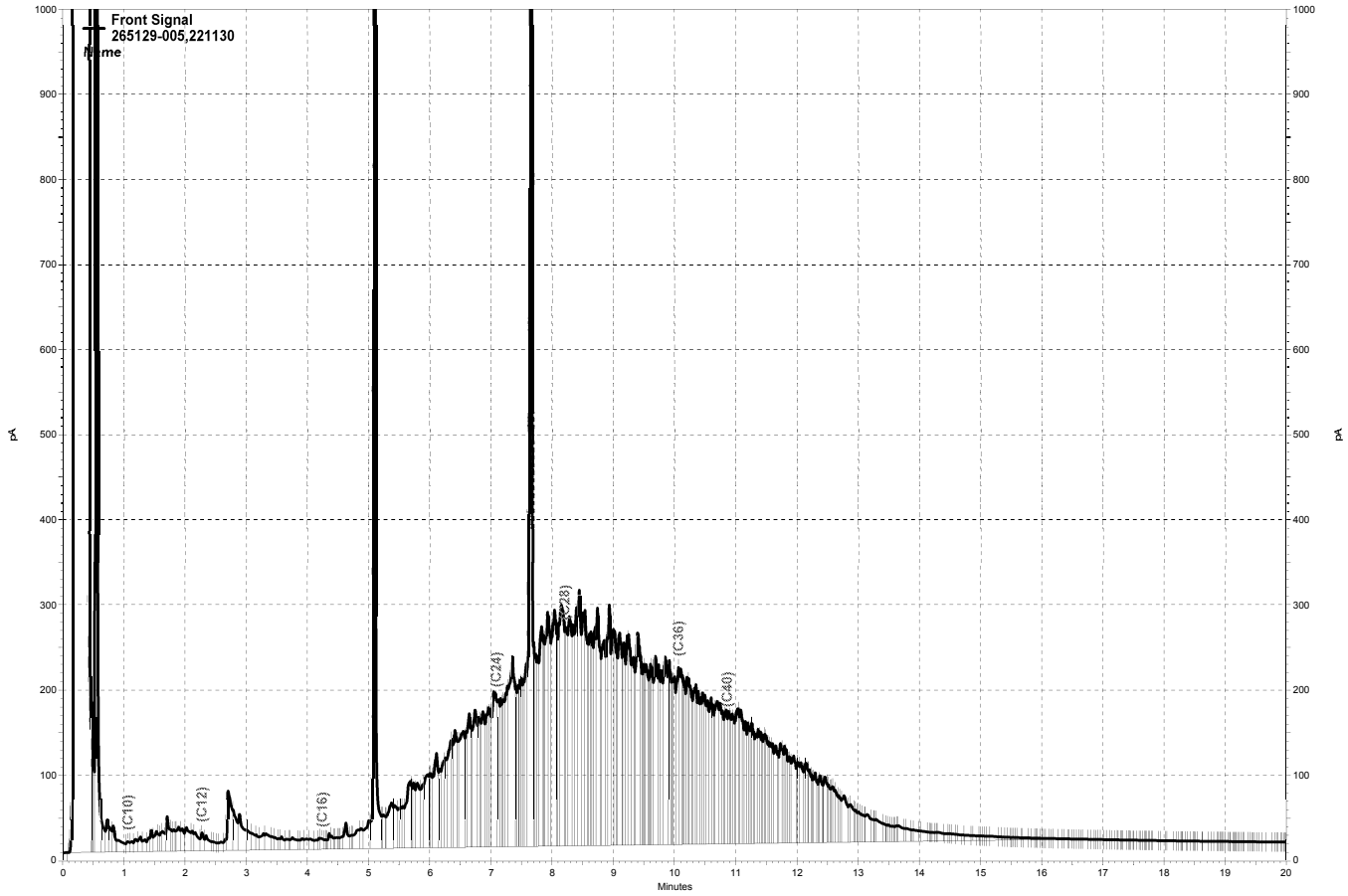

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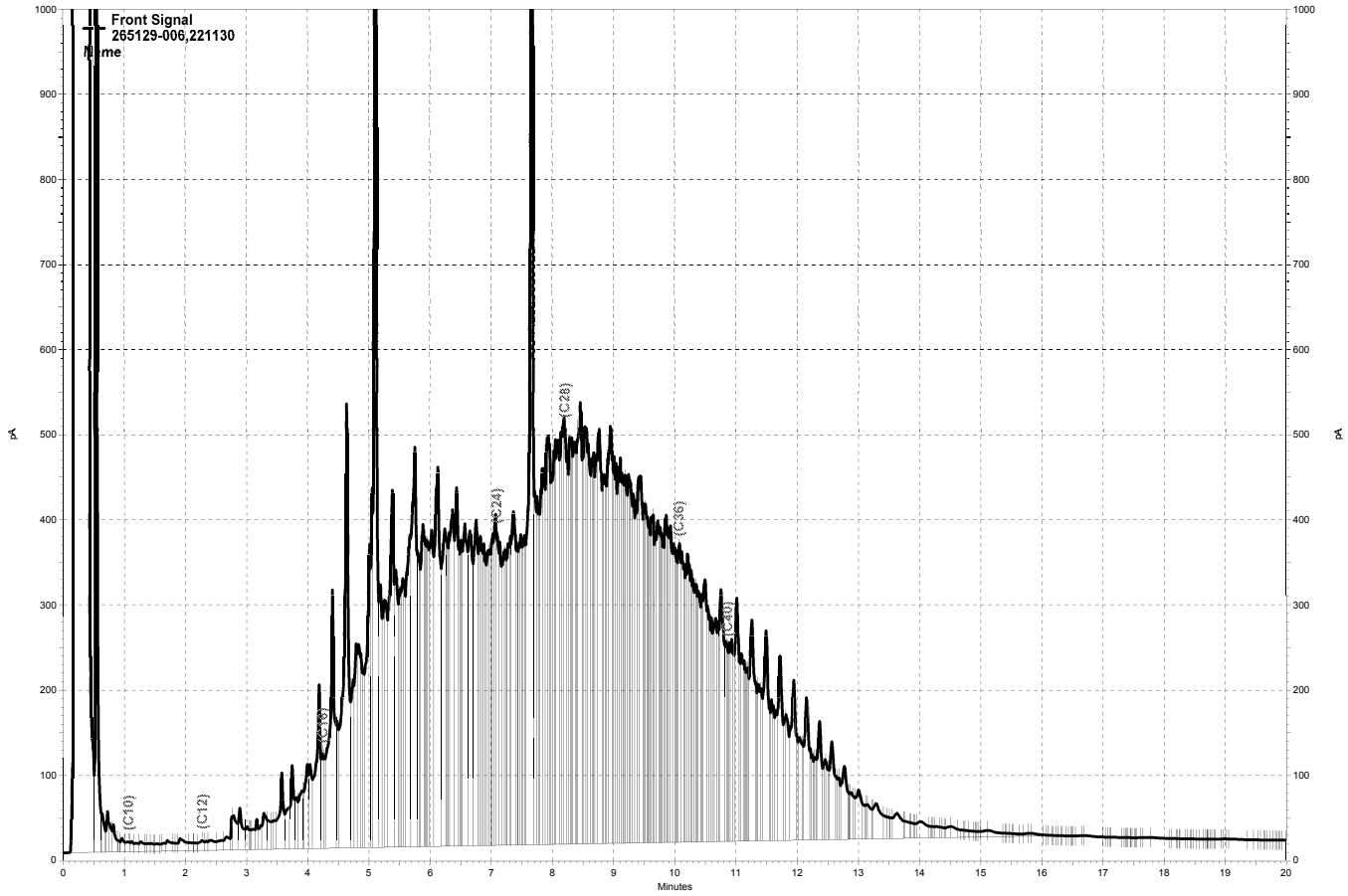

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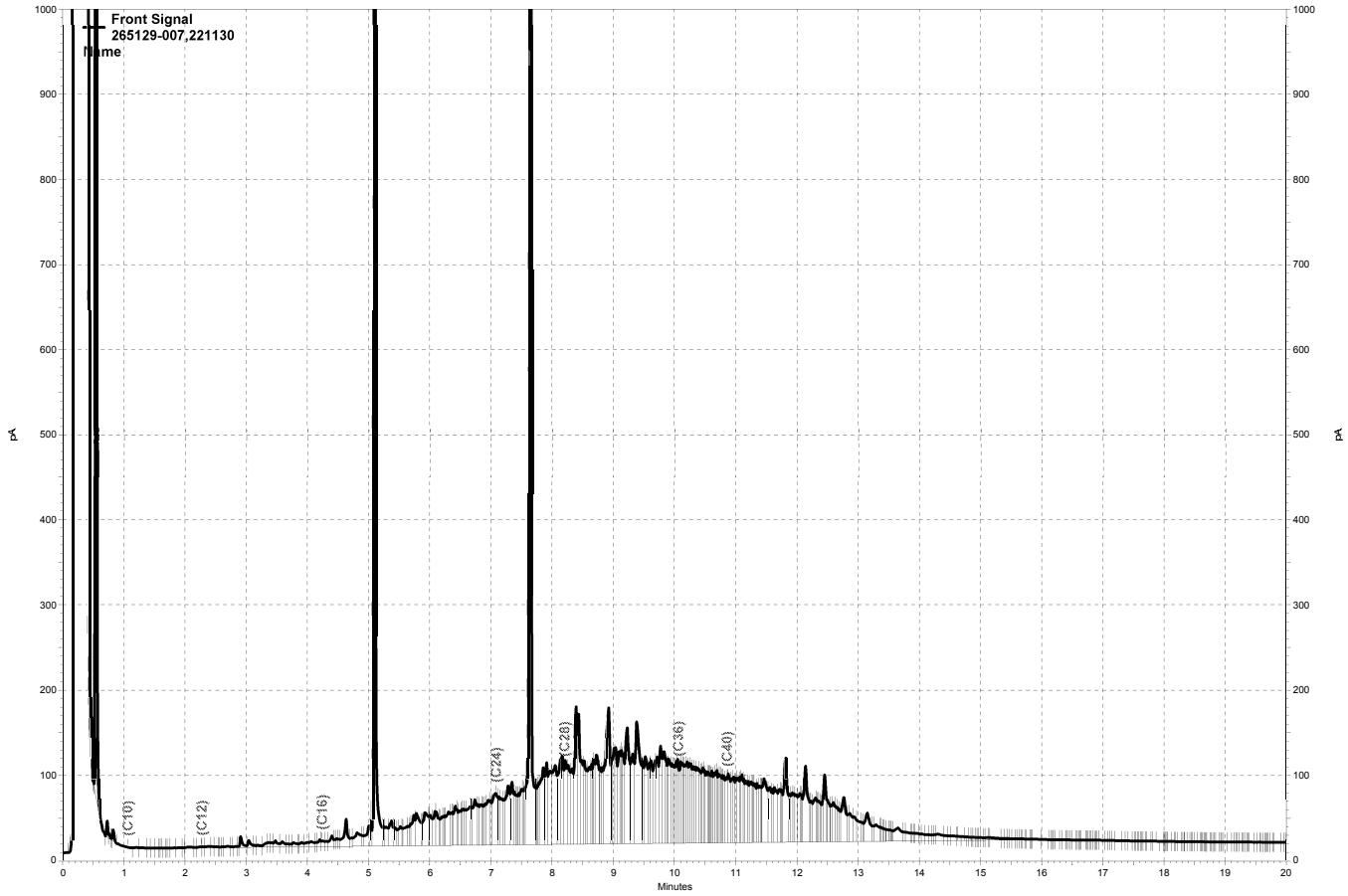

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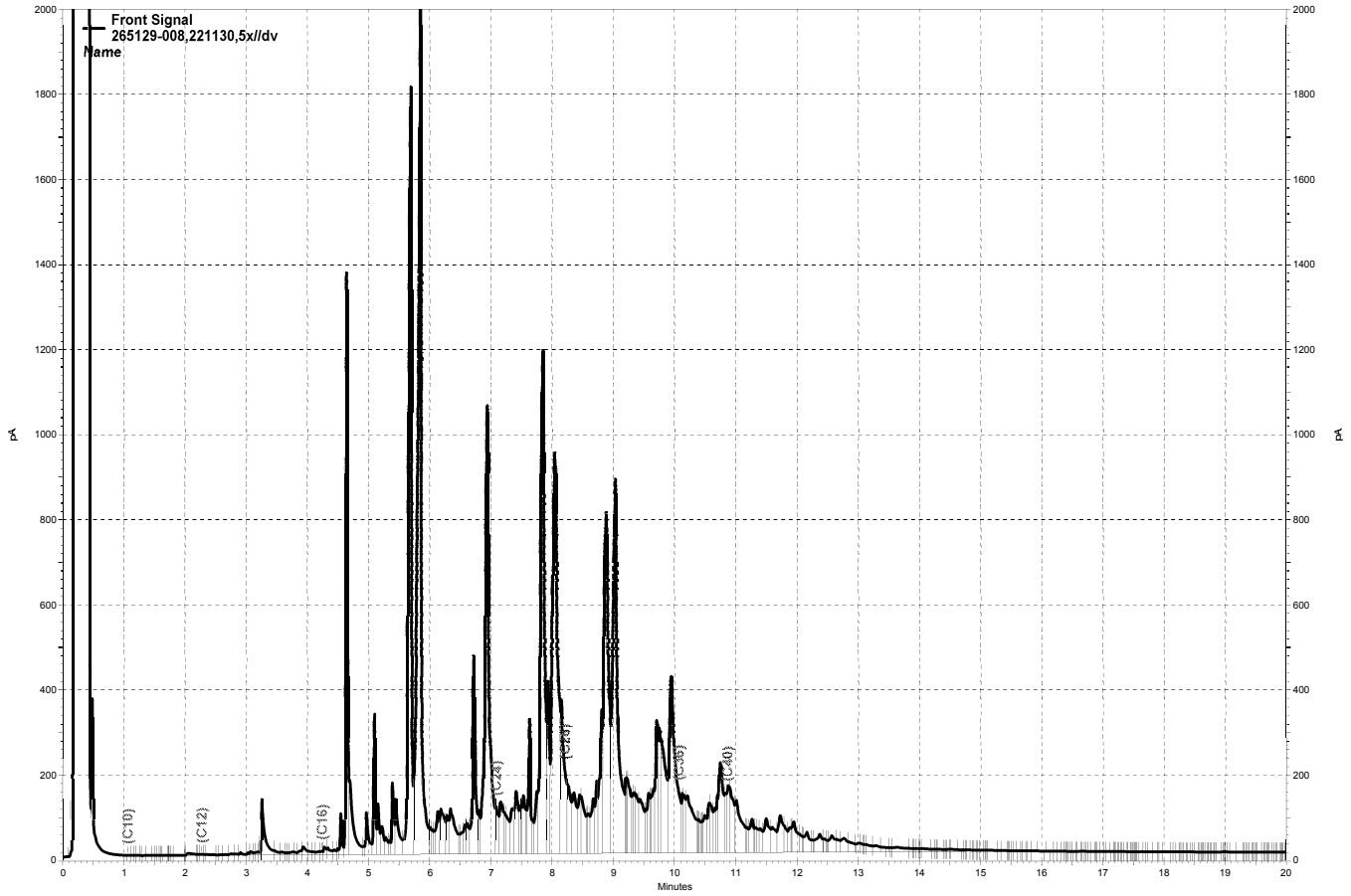

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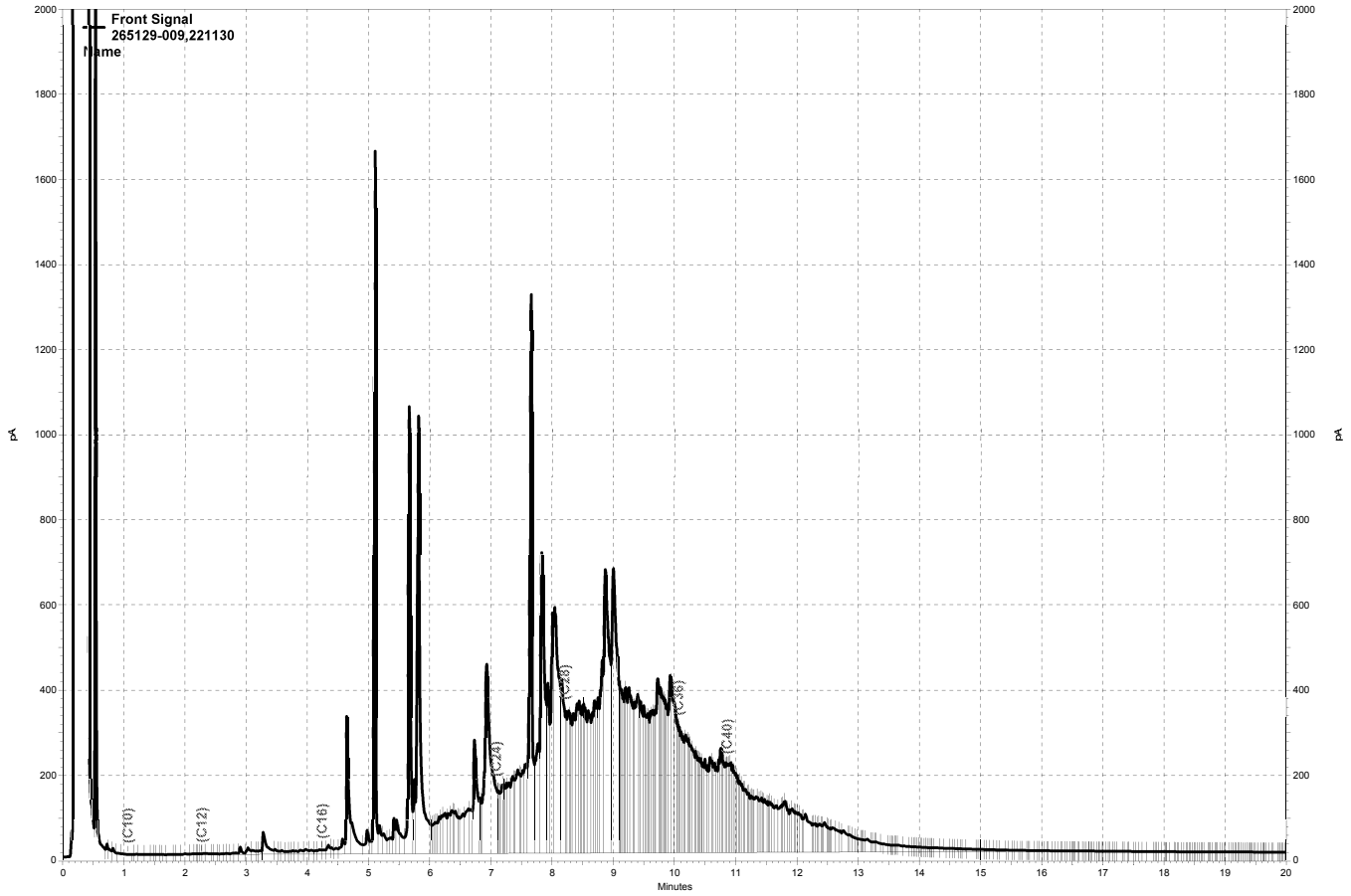

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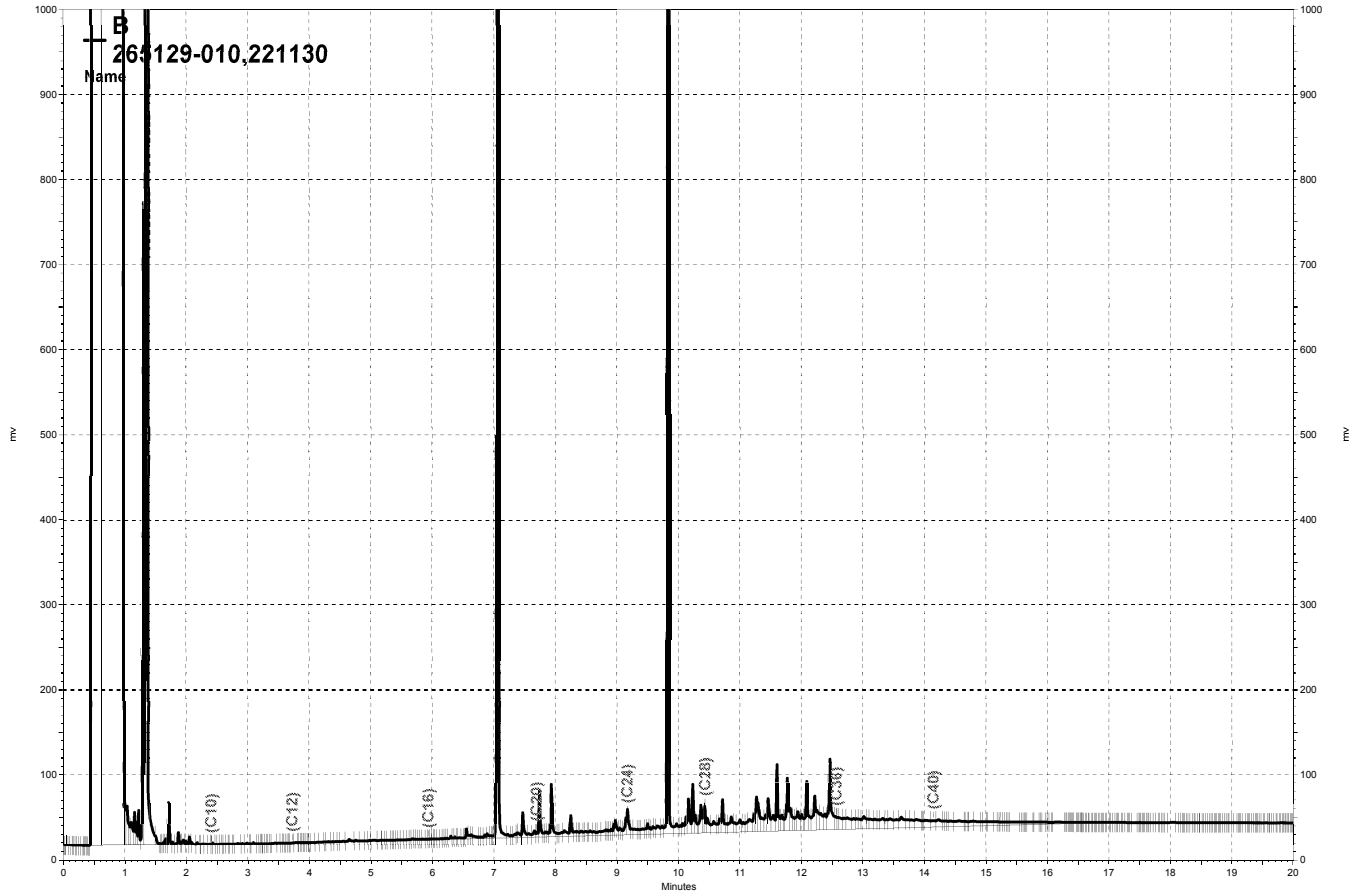

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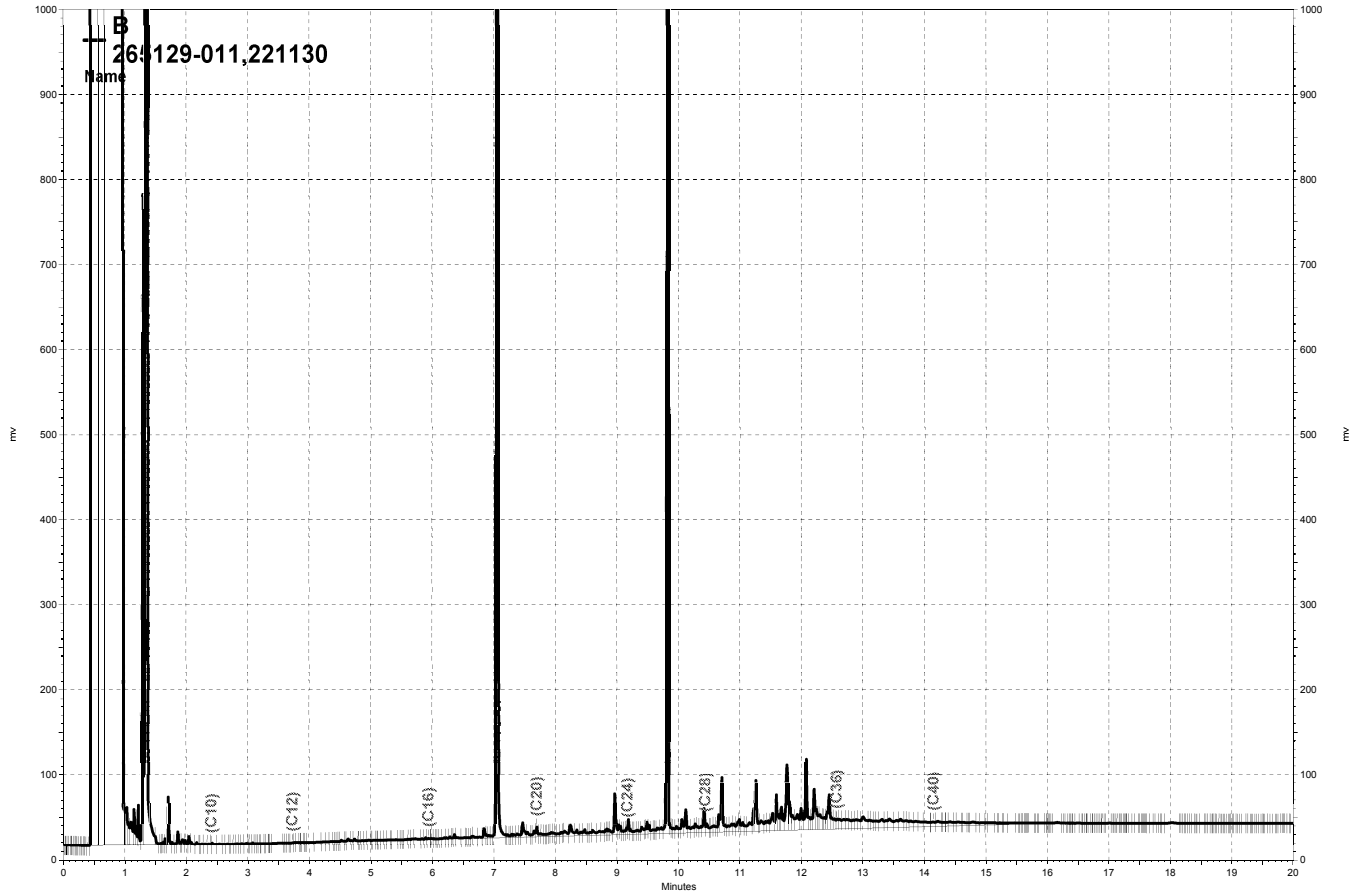

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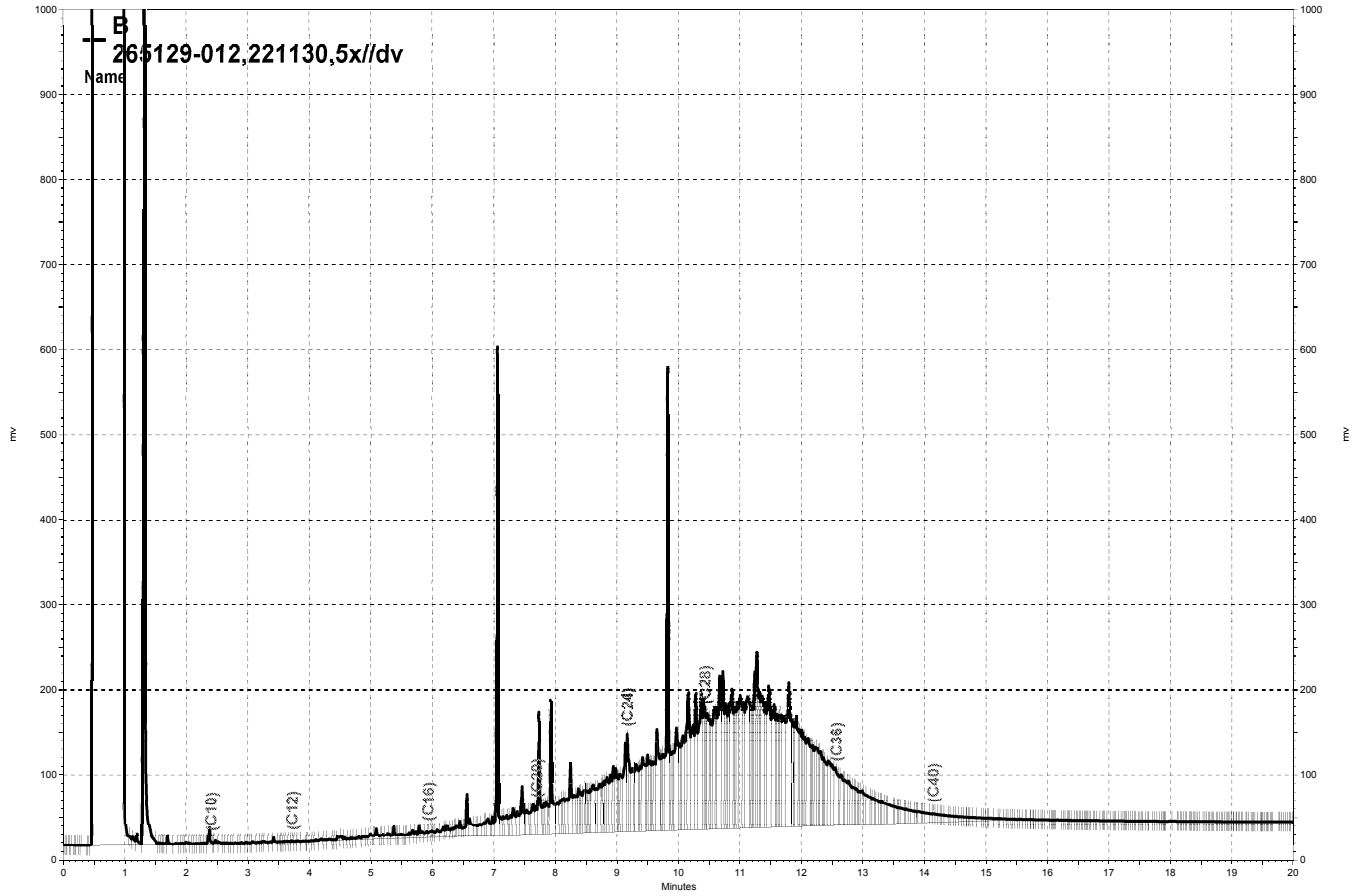

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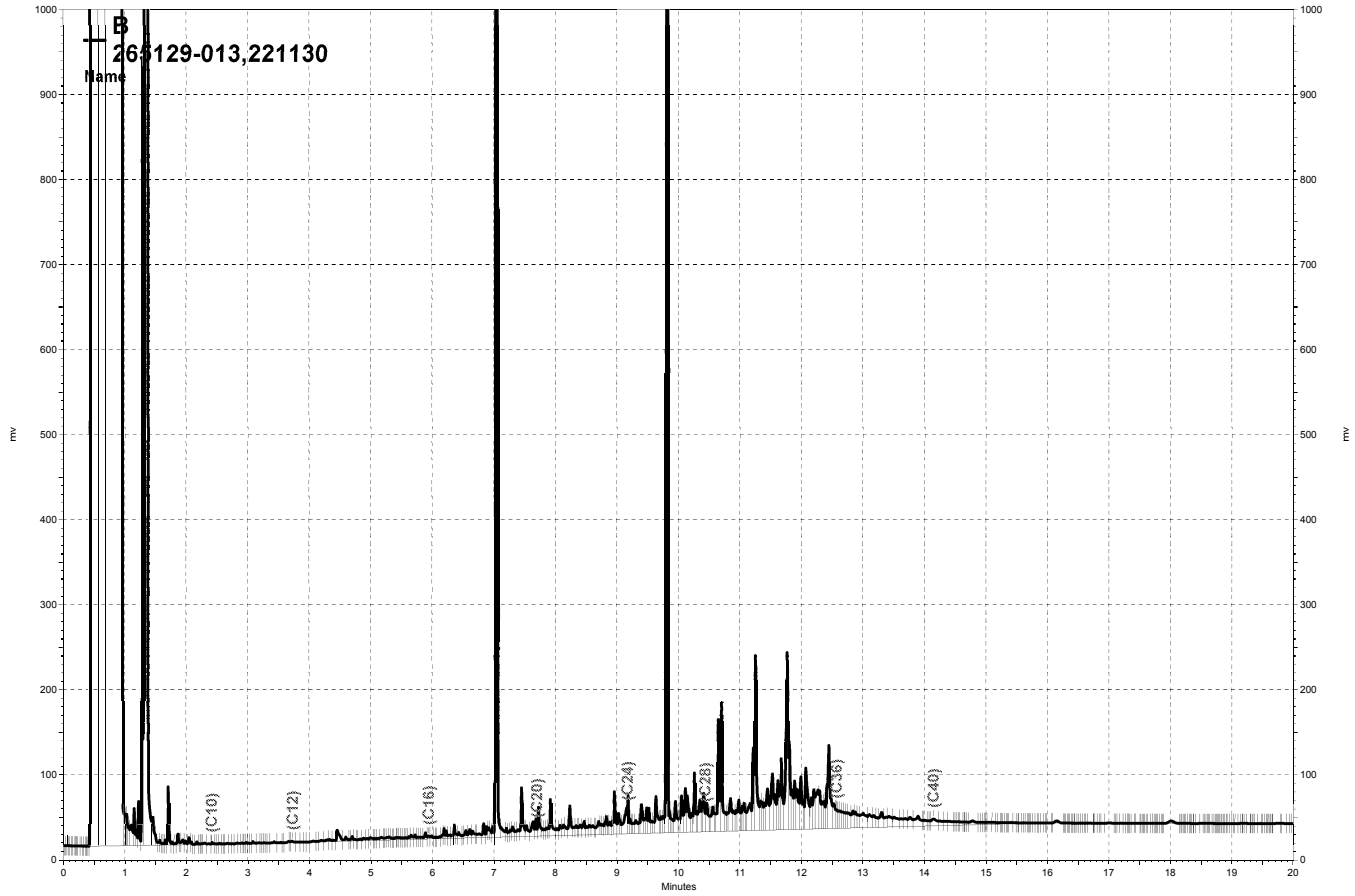

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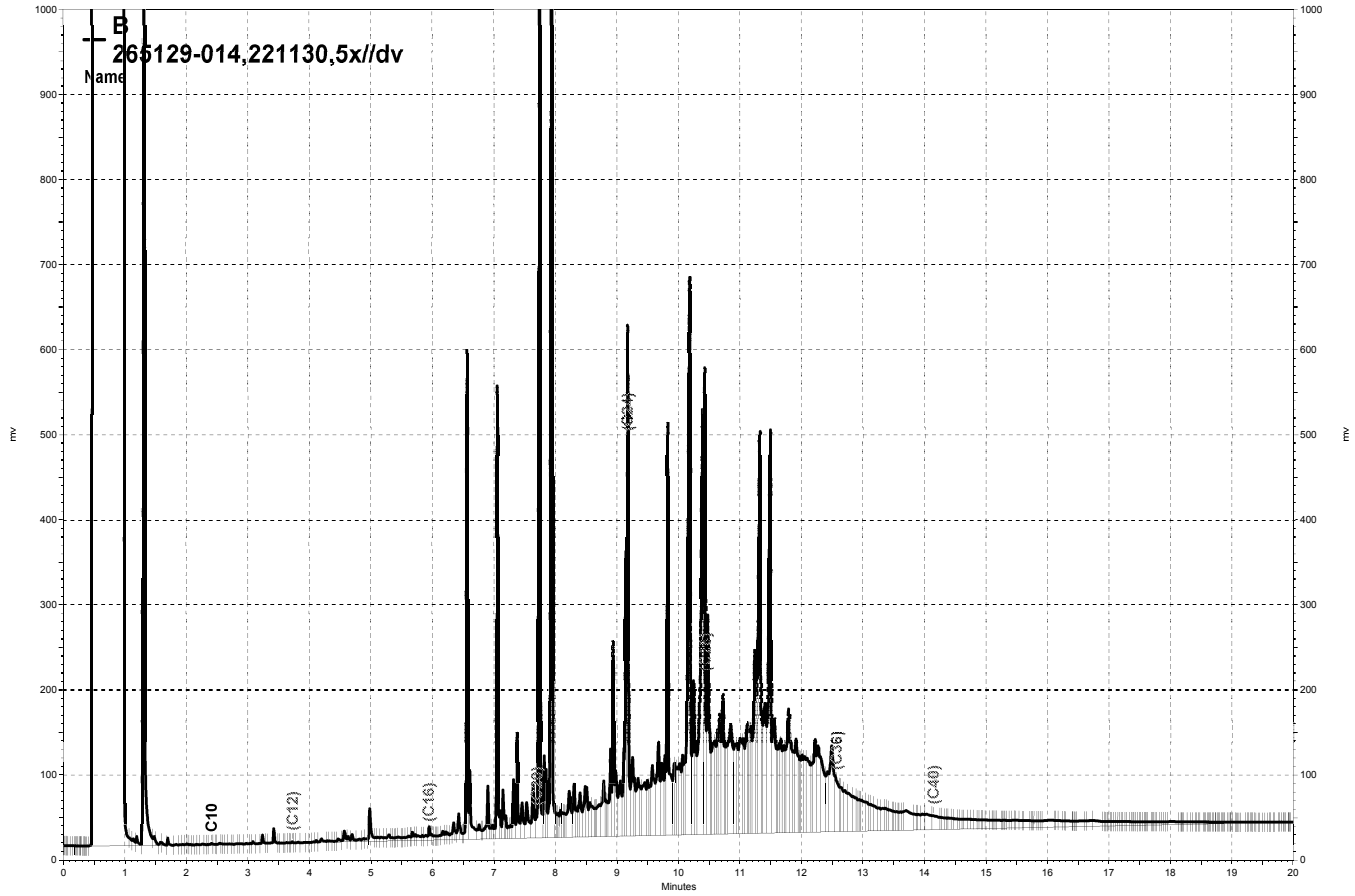

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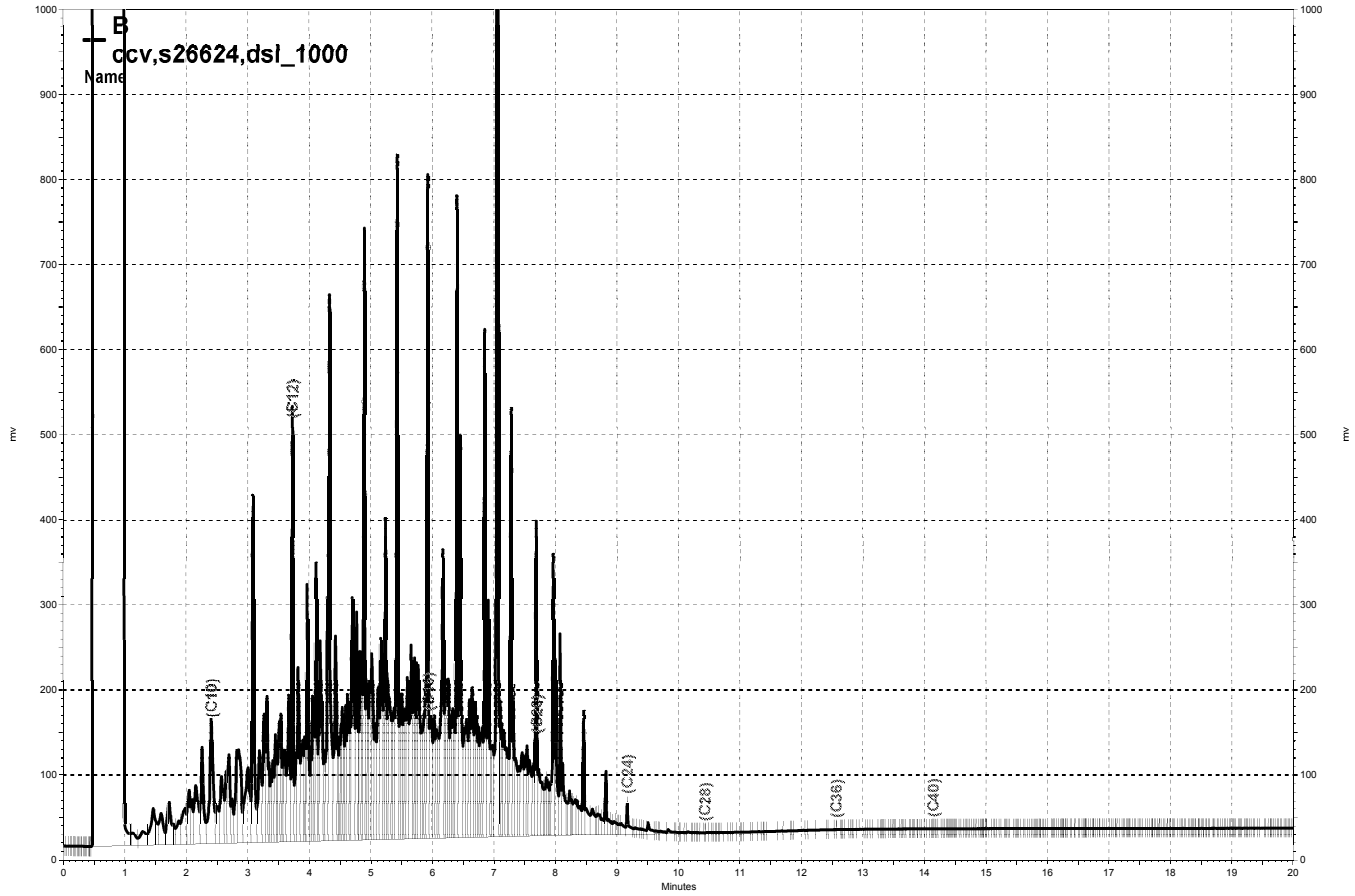

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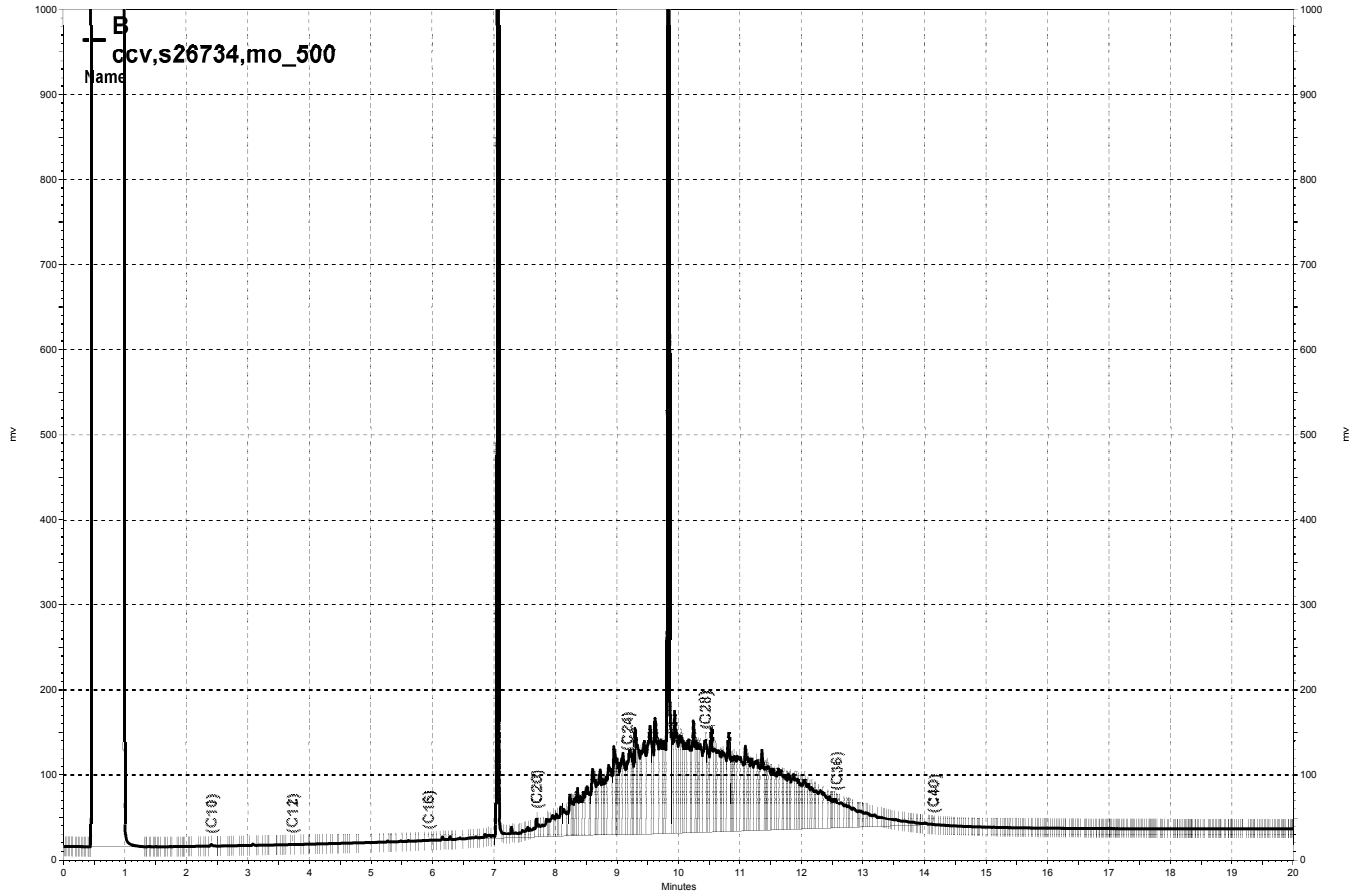

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-1SW-0.9	Batch#:	221143
Lab ID:	265129-002	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 13%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	81
Phenol	ND	380	53
bis(2-Chloroethyl)ether	ND	380	62
2-Chlorophenol	ND	380	63
1,3-Dichlorobenzene	ND	380	43
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	58
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	71
bis(2-Chloroisopropyl) ether	ND	380	95
4-Methylphenol	ND	380	59
N-Nitroso-di-n-propylamine	ND	380	57
Hexachloroethane	ND	380	30
Nitrobenzene	ND	380	17
Isophorone	ND	380	11
2-Nitrophenol	ND	760	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	16
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	76	12
Hexachlorocyclopentadiene	ND	760	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	760	12
Dimethylphthalate	ND	380	14
Acenaphthylene	ND	76	15
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	760	9.3
Acenaphthene	ND	76	13
2,4-Dinitrophenol	ND	760	110
4-Nitrophenol	ND	760	60
Dibenzofuran	ND	380	16
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	15
Fluorene	ND	76	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	760	11
4,6-Dinitro-2-methylphenol	ND	760	79
N-Nitrosodiphenylamine	ND	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	14
Hexachlorobenzene	ND	380	16
Pentachlorophenol	ND	760	71

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-1SW-0.9	Batch#:	221143
Lab ID:	265129-002	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	76	17
Anthracene	ND	76	14
Di-n-butylphthalate	ND	380	17
Fluoranthene	ND	76	15
Pyrene	ND	76	13
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	760	13
Benzo(a)anthracene	ND	76	14
Chrysene	ND	76	17
bis(2-Ethylhexyl)phthalate	ND	380	17
Di-n-octylphthalate	ND	380	20
Benzo(b)fluoranthene	ND	76	16
Benzo(k)fluoranthene	ND	76	20
Benzo(a)pyrene	ND	76	18
Indeno(1,2,3-cd)pyrene	ND	76	17
Dibenz(a,h)anthracene	ND	76	17
Benzo(g,h,i)perylene	ND	76	15

Surrogate	%REC	Limits
2-Fluorophenol	41	25-120
Phenol-d5	53	36-120
2,4,6-Tribromophenol	61	27-120
Nitrobenzene-d5	56	44-120
2-Fluorobiphenyl	55	47-120
Terphenyl-d14	66	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-2SW-0.9	Batch#:	221143
Lab ID:	265129-003	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	400	84
Phenol	ND	400	56
bis(2-Chloroethyl)ether	ND	400	64
2-Chlorophenol	ND	400	66
1,3-Dichlorobenzene	ND	400	45
1,4-Dichlorobenzene	ND	400	18
Benzyl alcohol	ND	400	60
1,2-Dichlorobenzene	ND	400	40
2-Methylphenol	ND	400	74
bis(2-Chloroisopropyl) ether	ND	400	99
4-Methylphenol	ND	400	62
N-Nitroso-di-n-propylamine	ND	400	59
Hexachloroethane	ND	400	31
Nitrobenzene	ND	400	17
Isophorone	ND	400	12
2-Nitrophenol	ND	800	12
2,4-Dimethylphenol	ND	400	17
Benzoic acid	ND	2,000	300
bis(2-Chloroethoxy)methane	ND	400	13
2,4-Dichlorophenol	ND	400	15
1,2,4-Trichlorobenzene	ND	400	15
Naphthalene	ND	80	15
4-Chloroaniline	ND	400	20
Hexachlorobutadiene	ND	400	16
4-Chloro-3-methylphenol	ND	400	17
2-Methylnaphthalene	ND	80	13
Hexachlorocyclopentadiene	ND	800	15
2,4,6-Trichlorophenol	ND	400	17
2,4,5-Trichlorophenol	ND	400	16
2-Chloronaphthalene	ND	400	12
2-Nitroaniline	ND	800	13
Dimethylphthalate	ND	400	15
Acenaphthylene	ND	80	15
2,6-Dinitrotoluene	ND	400	15
3-Nitroaniline	ND	800	9.7
Acenaphthene	ND	80	13
2,4-Dinitrophenol	ND	800	110
4-Nitrophenol	ND	800	62
Dibenzofuran	ND	400	17
2,4-Dinitrotoluene	ND	400	12
Diethylphthalate	ND	400	16
Fluorene	ND	80	14
4-Chlorophenyl-phenylether	ND	400	15
4-Nitroaniline	ND	800	11
4,6-Dinitro-2-methylphenol	ND	800	83
N-Nitrosodiphenylamine	ND	400	16
Azobenzene	ND	400	17
4-Bromophenyl-phenylether	ND	400	15
Hexachlorobenzene	ND	400	16
Pentachlorophenol	ND	800	74

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-2SW-0.9	Batch#:	221143
Lab ID:	265129-003	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	80	18
Anthracene	ND	80	15
Di-n-butylphthalate	ND	400	17
Fluoranthene	ND	80	16
Pyrene	ND	80	14
Butylbenzylphthalate	ND	400	13
3,3'-Dichlorobenzidine	ND	800	13
Benzo(a)anthracene	ND	80	14
Chrysene	ND	80	17
bis(2-Ethylhexyl)phthalate	ND	400	18
Di-n-octylphthalate	ND	400	20
Benzo(b)fluoranthene	ND	80	17
Benzo(k)fluoranthene	ND	80	21
Benzo(a)pyrene	ND	80	18
Indeno(1,2,3-cd)pyrene	ND	80	18
Dibenz(a,h)anthracene	ND	80	17
Benzo(g,h,i)perylene	ND	80	15

Surrogate	%REC	Limits
2-Fluorophenol	49	25-120
Phenol-d5	61	36-120
2,4,6-Tribromophenol	70	27-120
Nitrobenzene-d5	70	44-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	71	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-3SW-0.9	Batch#:	221143
Lab ID:	265129-004	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	2.000		

Moisture: 6%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	720	47
Phenol	ND	720	32
bis(2-Chloroethyl)ether	ND	720	34
2-Chlorophenol	ND	720	30
1,3-Dichlorobenzene	ND	720	28
1,4-Dichlorobenzene	ND	720	16
Benzyl alcohol	ND	720	35
1,2-Dichlorobenzene	ND	720	22
2-Methylphenol	ND	720	31
bis(2-Chloroisopropyl) ether	ND	720	34
4-Methylphenol	ND	720	34
N-Nitroso-di-n-propylamine	ND	720	33
Hexachloroethane	ND	720	23
Nitrobenzene	ND	720	19
Isophorone	ND	720	22
2-Nitrophenol	ND	1,400	83
2,4-Dimethylphenol	ND	720	40
Benzoic acid	ND	3,600	810
bis(2-Chloroethoxy)methane	ND	720	22
2,4-Dichlorophenol	ND	720	20
1,2,4-Trichlorobenzene	ND	720	18
Naphthalene	ND	140	28
4-Chloroaniline	ND	720	27
Hexachlorobutadiene	ND	720	18
4-Chloro-3-methylphenol	ND	720	19
2-Methylnaphthalene	ND	140	21
Hexachlorocyclopentadiene	ND	1,400	160
2,4,6-Trichlorophenol	ND	720	24
2,4,5-Trichlorophenol	ND	720	20
2-Chloronaphthalene	ND	720	17
2-Nitroaniline	ND	1,400	73
Dimethylphthalate	ND	720	15
Acenaphthylene	ND	140	18
2,6-Dinitrotoluene	ND	720	72
3-Nitroaniline	ND	1,400	16
Acenaphthene	ND	140	14
2,4-Dinitrophenol	ND	1,400	110
4-Nitrophenol	ND	1,400	15
Dibenzofuran	ND	720	18
2,4-Dinitrotoluene	ND	720	18
Diethylphthalate	ND	720	18
Fluorene	ND	140	17
4-Chlorophenyl-phenylether	ND	720	18
4-Nitroaniline	ND	1,400	23
4,6-Dinitro-2-methylphenol	ND	1,400	75
N-Nitrosodiphenylamine	ND	720	17
Azobenzene	ND	720	15
4-Bromophenyl-phenylether	ND	720	17
Hexachlorobenzene	ND	720	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-3SW-0.9	Batch#:	221143
Lab ID:	265129-004	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	2.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	1,400	220
Phenanthrene	33 J	140	17
Anthracene	ND	140	19
Di-n-butylphthalate	ND	720	21
Fluoranthene	70 J	140	20
Pyrene	91 J	140	16
Butylbenzylphthalate	ND	720	21
3,3'-Dichlorobenzidine	ND	1,400	170
Benzo(a)anthracene	33 J	140	14
Chrysene	47 J	140	18
bis(2-Ethylhexyl)phthalate	50 J	720	18
Di-n-octylphthalate	ND	720	73
Benzo(b)fluoranthene	64 J	140	13
Benzo(k)fluoranthene	25 J	140	13
Benzo(a)pyrene	38 J	140	13
Indeno(1,2,3-cd)pyrene	39 J	140	16
Dibenz(a,h)anthracene	ND	140	16
Benzo(g,h,i)perylene	54 J	140	18

Surrogate	%REC	Limits
2-Fluorophenol	69	25-120
Phenol-d5	73	36-120
2,4,6-Tribromophenol	77	27-120
Nitrobenzene-d5	65	44-120
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	87	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-4SW-1.3	Batch#:	221143
Lab ID:	265129-005	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	81
Phenol	ND	380	54
bis(2-Chloroethyl)ether	ND	380	62
2-Chlorophenol	ND	380	63
1,3-Dichlorobenzene	ND	380	43
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	58
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	72
bis(2-Chloroisopropyl) ether	ND	380	96
4-Methylphenol	ND	380	59
N-Nitroso-di-n-propylamine	ND	380	57
Hexachloroethane	ND	380	30
Nitrobenzene	ND	380	17
Isophorone	ND	380	11
2-Nitrophenol	ND	770	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	290
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	77	15
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	16
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	77	12
Hexachlorocyclopentadiene	ND	770	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	770	12
Dimethylphthalate	ND	380	14
Acenaphthylene	45 J	77	15
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	770	9.3
Acenaphthene	ND	77	13
2,4-Dinitrophenol	ND	770	110
4-Nitrophenol	ND	770	60
Dibenzofuran	ND	380	17
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	16
Fluorene	ND	77	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	770	11
4,6-Dinitro-2-methylphenol	ND	770	80
N-Nitrosodiphenylamine	ND	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	15
Hexachlorobenzene	ND	380	16

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-4SW-1.3	Batch#:	221143
Lab ID:	265129-005	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	770	71
Phenanthrene	170	77	17
Anthracene	19 J	77	14
Di-n-butylphthalate	ND	380	17
Fluoranthene	160	77	15
Pyrene	190	77	14
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	770	13
Benzo(a)anthracene	50 J	77	14
Chrysene	71 J	77	17
bis(2-Ethylhexyl)phthalate	ND	380	17
Di-n-octylphthalate	ND	380	20
Benzo(b)fluoranthene	100	77	16
Benzo(k)fluoranthene	35 J	77	21
Benzo(a)pyrene	54 J	77	18
Indeno(1,2,3-cd)pyrene	88	77	17
Dibenz(a,h)anthracene	ND	77	17
Benzo(g,h,i)perylene	110	77	15

Surrogate	%REC	Limits
2-Fluorophenol	39	25-120
Phenol-d5	50	36-120
2,4,6-Tribromophenol	52	27-120
Nitrobenzene-d5	57	44-120
2-Fluorobiphenyl	53	47-120
Terphenyl-d14	60	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-5SW-1.3	Batch#:	221143
Lab ID:	265129-006	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	80
Phenol	ND	380	53
bis(2-Chloroethyl)ether	ND	380	62
2-Chlorophenol	ND	380	63
1,3-Dichlorobenzene	ND	380	43
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	58
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	71
bis(2-Chloroisopropyl) ether	ND	380	95
4-Methylphenol	ND	380	59
N-Nitroso-di-n-propylamine	ND	380	57
Hexachloroethane	ND	380	29
Nitrobenzene	ND	380	17
Isophorone	ND	380	11
2-Nitrophenol	ND	760	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	16
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	76	12
Hexachlorocyclopentadiene	ND	760	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	760	12
Dimethylphthalate	ND	380	14
Acenaphthylene	ND	76	14
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	760	9.3
Acenaphthene	ND	76	13
2,4-Dinitrophenol	ND	760	110
4-Nitrophenol	ND	760	59
Dibenzofuran	ND	380	16
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	15
Fluorene	ND	76	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	760	11
4,6-Dinitro-2-methylphenol	ND	760	79
N-Nitrosodiphenylamine	24 J	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	14
Hexachlorobenzene	ND	380	16

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-5SW-1.3	Batch#:	221143
Lab ID:	265129-006	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	760	71
Phenanthrene	78	76	17
Anthracene	ND	76	14
Di-n-butylphthalate	52 J	380	17
Fluoranthene	160	76	15
Pyrene	160	76	13
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	760	13
Benzo(a)anthracene	78	76	13
Chrysene	97	76	17
bis(2-Ethylhexyl)phthalate	40 J	380	17
Di-n-octylphthalate	ND	380	19
Benzo(b)fluoranthene	130	76	16
Benzo(k)fluoranthene	41 J	76	20
Benzo(a)pyrene	79	76	18
Indeno(1,2,3-cd)pyrene	70 J	76	17
Dibenz(a,h)anthracene	ND	76	17
Benzo(g,h,i)perylene	88	76	15

Surrogate	%REC	Limits
2-Fluorophenol	44	25-120
Phenol-d5	57	36-120
2,4,6-Tribromophenol	70	27-120
Nitrobenzene-d5	63	44-120
2-Fluorobiphenyl	66	47-120
Terphenyl-d14	66	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-6SW-1.3	Batch#:	221143
Lab ID:	265129-007	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 8%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	370	77
Phenol	ND	370	51
bis(2-Chloroethyl)ether	ND	370	59
2-Chlorophenol	ND	370	60
1,3-Dichlorobenzene	ND	370	41
1,4-Dichlorobenzene	ND	370	16
Benzyl alcohol	ND	370	55
1,2-Dichlorobenzene	ND	370	37
2-Methylphenol	ND	370	68
bis(2-Chloroisopropyl) ether	ND	370	91
4-Methylphenol	ND	370	57
N-Nitroso-di-n-propylamine	ND	370	54
Hexachloroethane	ND	370	28
Nitrobenzene	ND	370	16
Isophorone	ND	370	11
2-Nitrophenol	ND	730	11
2,4-Dimethylphenol	ND	370	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	370	12
2,4-Dichlorophenol	ND	370	14
1,2,4-Trichlorobenzene	ND	370	14
Naphthalene	ND	73	14
4-Chloroaniline	ND	370	18
Hexachlorobutadiene	ND	370	15
4-Chloro-3-methylphenol	ND	370	15
2-Methylnaphthalene	ND	73	12
Hexachlorocyclopentadiene	ND	730	13
2,4,6-Trichlorophenol	ND	370	15
2,4,5-Trichlorophenol	ND	370	15
2-Chloronaphthalene	ND	370	11
2-Nitroaniline	ND	730	12
Dimethylphthalate	ND	370	14
Acenaphthylene	ND	73	14
2,6-Dinitrotoluene	ND	370	14
3-Nitroaniline	ND	730	8.9
Acenaphthene	ND	73	12
2,4-Dinitrophenol	ND	730	100
4-Nitrophenol	ND	730	57
Dibenzofuran	ND	370	16
2,4-Dinitrotoluene	ND	370	11
Diethylphthalate	ND	370	15
Fluorene	ND	73	13
4-Chlorophenyl-phenylether	ND	370	14
4-Nitroaniline	ND	730	10
4,6-Dinitro-2-methylphenol	ND	730	76
N-Nitrosodiphenylamine	ND	370	15
Azobenzene	ND	370	15
4-Bromophenyl-phenylether	ND	370	14
Hexachlorobenzene	ND	370	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-6SW-1.3	Batch#:	221143
Lab ID:	265129-007	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	730	68
Phenanthrene	67 J	73	16
Anthracene	ND	73	14
Di-n-butylphthalate	ND	370	16
Fluoranthene	110	73	14
Pyrene	130	73	13
Butylbenzylphthalate	ND	370	12
3,3'-Dichlorobenzidine	ND	730	12
Benzo(a)anthracene	43 J	73	13
Chrysene	61 J	73	16
bis(2-Ethylhexyl)phthalate	ND	370	16
Di-n-octylphthalate	ND	370	19
Benzo(b)fluoranthene	81	73	15
Benzo(k)fluoranthene	27 J	73	20
Benzo(a)pyrene	54 J	73	17
Indeno(1,2,3-cd)pyrene	48 J	73	16
Dibenz(a,h)anthracene	ND	73	16
Benzo(g,h,i)perylene	62 J	73	14

Surrogate	%REC	Limits
2-Fluorophenol	47	25-120
Phenol-d5	59	36-120
2,4,6-Tribromophenol	72	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	68	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-7SW-1.4	Batch#:	221143
Lab ID:	265129-008	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	20.00		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	7,600	1,600
Phenol	ND	7,600	1,100
bis(2-Chloroethyl)ether	ND	7,600	1,200
2-Chlorophenol	ND	7,600	1,300
1,3-Dichlorobenzene	ND	7,600	860
1,4-Dichlorobenzene	ND	7,600	340
Benzyl alcohol	ND	7,600	1,200
1,2-Dichlorobenzene	ND	7,600	760
2-Methylphenol	ND	7,600	1,400
bis(2-Chloroisopropyl) ether	ND	7,600	1,900
4-Methylphenol	ND	7,600	1,200
N-Nitroso-di-n-propylamine	ND	7,600	1,100
Hexachloroethane	ND	7,600	590
Nitrobenzene	ND	7,600	330
Isophorone	ND	7,600	220
2-Nitrophenol	ND	15,000	230
2,4-Dimethylphenol	ND	7,600	310
Benzoic acid	ND	38,000	5,700
bis(2-Chloroethoxy)methane	ND	7,600	250
2,4-Dichlorophenol	ND	7,600	290
1,2,4-Trichlorobenzene	ND	7,600	290
Naphthalene	480 J	1,500	290
4-Chloroaniline	ND	7,600	370
Hexachlorobutadiene	ND	7,600	310
4-Chloro-3-methylphenol	ND	7,600	320
2-Methylnaphthalene	ND	1,500	250
Hexachlorocyclopentadiene	ND	15,000	280
2,4,6-Trichlorophenol	ND	7,600	320
2,4,5-Trichlorophenol	ND	7,600	300
2-Chloronaphthalene	ND	7,600	230
2-Nitroaniline	ND	15,000	240
Dimethylphthalate	ND	7,600	280
Acenaphthylene	4,100	1,500	290
2,6-Dinitrotoluene	ND	7,600	280
3-Nitroaniline	ND	15,000	180
Acenaphthene	ND	1,500	250
2,4-Dinitrophenol	ND	15,000	2,100
4-Nitrophenol	ND	15,000	1,200
Dibenzofuran	ND	7,600	330
2,4-Dinitrotoluene	ND	7,600	220
Diethylphthalate	ND	7,600	310
Fluorene	470 J	1,500	270
4-Chlorophenyl-phenylether	ND	7,600	280
4-Nitroaniline	ND	15,000	220
4,6-Dinitro-2-methylphenol	ND	15,000	1,600
N-Nitrosodiphenylamine	ND	7,600	310
Azobenzene	ND	7,600	320
4-Bromophenyl-phenylether	ND	7,600	290

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-7SW-1.4	Batch#:	221143
Lab ID:	265129-008	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	20.00		

Analyte	Result	RL	MDL
Hexachlorobenzene	ND	7,600	310
Pentachlorophenol	ND	15,000	1,400
Phenanthrene	23,000	1,500	340
Anthracene	2,200	1,500	280
Di-n-butylphthalate	ND	7,600	330
Fluoranthene	34,000	1,500	300
Pyrene	44,000	1,500	270
Butylbenzylphthalate	ND	7,600	250
3,3'-Dichlorobenzidine	ND	15,000	250
Benzo(a)anthracene	14,000	1,500	270
Chrysene	18,000	1,500	330
bis(2-Ethylhexyl)phthalate	ND	7,600	330
Di-n-octylphthalate	ND	7,600	390
Benzo(b)fluoranthene	26,000	1,500	320
Benzo(k)fluoranthene	7,900	1,500	410
Benzo(a)pyrene	15,000	1,500	350
Indeno(1,2,3-cd)pyrene	17,000	1,500	340
Dibenz(a,h)anthracene	2,500	1,500	330
Benzo(g,h,i)perylene	20,000	1,500	300

Surrogate	%REC	Limits
2-Fluorophenol	DO	25-120
Phenol-d5	DO	36-120
2,4,6-Tribromophenol	DO	27-120
Nitrobenzene-d5	DO	44-120
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	49-120

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-8SW-1.2	Batch#:	221143
Lab ID:	265129-009	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	3.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,100	240
Phenol	ND	1,100	160
bis(2-Chloroethyl)ether	ND	1,100	180
2-Chlorophenol	ND	1,100	180
1,3-Dichlorobenzene	ND	1,100	130
1,4-Dichlorobenzene	ND	1,100	49
Benzyl alcohol	ND	1,100	170
1,2-Dichlorobenzene	ND	1,100	110
2-Methylphenol	ND	1,100	210
bis(2-Chloroisopropyl) ether	ND	1,100	280
4-Methylphenol	ND	1,100	170
N-Nitroso-di-n-propylamine	ND	1,100	170
Hexachloroethane	ND	1,100	86
Nitrobenzene	ND	1,100	49
Isophorone	ND	1,100	33
2-Nitrophenol	ND	2,200	34
2,4-Dimethylphenol	ND	1,100	46
Benzoic acid	ND	5,600	830
bis(2-Chloroethoxy)methane	ND	1,100	37
2,4-Dichlorophenol	ND	1,100	42
1,2,4-Trichlorobenzene	ND	1,100	43
Naphthalene	ND	220	43
4-Chloroaniline	ND	1,100	55
Hexachlorobutadiene	ND	1,100	46
4-Chloro-3-methylphenol	ND	1,100	47
2-Methylnaphthalene	ND	220	36
Hexachlorocyclopentadiene	ND	2,200	41
2,4,6-Trichlorophenol	ND	1,100	47
2,4,5-Trichlorophenol	ND	1,100	45
2-Chloronaphthalene	ND	1,100	34
2-Nitroaniline	ND	2,200	36
Dimethylphthalate	ND	1,100	42
Acenaphthylene	260	220	43
2,6-Dinitrotoluene	ND	1,100	42
3-Nitroaniline	ND	2,200	27
Acenaphthene	ND	220	37
2,4-Dinitrophenol	ND	2,200	310
4-Nitrophenol	ND	2,200	170
Dibenzofuran	ND	1,100	48
2,4-Dinitrotoluene	ND	1,100	33
Diethylphthalate	ND	1,100	45
Fluorene	ND	220	39
4-Chlorophenyl-phenylether	ND	1,100	42
4-Nitroaniline	ND	2,200	32
4,6-Dinitro-2-methylphenol	ND	2,200	230
N-Nitrosodiphenylamine	ND	1,100	45
Azobenzene	ND	1,100	47
4-Bromophenyl-phenylether	ND	1,100	42
Hexachlorobenzene	ND	1,100	46

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-8SW-1.2	Batch#:	221143
Lab ID:	265129-009	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	3.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	2,200	210
Phenanthrene	1,600	220	50
Anthracene	160 J	220	41
Di-n-butylphthalate	ND	1,100	49
Fluoranthene	3,000	220	44
Pyrene	3,700	220	39
Butylbenzylphthalate	ND	1,100	36
3,3'-Dichlorobenzidine	ND	2,200	37
Benzo(a)anthracene	1,100	220	40
Chrysene	1,400	220	49
bis(2-Ethylhexyl)phthalate	ND	1,100	49
Di-n-octylphthalate	ND	1,100	57
Benzo(b)fluoranthene	2,000	220	47
Benzo(k)fluoranthene	580	220	60
Benzo(a)pyrene	1,300	220	52
Indeno(1,2,3-cd)pyrene	1,300	220	50
Dibenz(a,h)anthracene	210 J	220	49
Benzo(g,h,i)perylene	1,700	220	43

Surrogate	%REC	Limits
2-Fluorophenol	47	25-120
Phenol-d5	61	36-120
2,4,6-Tribromophenol	81	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	79	47-120
Terphenyl-d14	77	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-1B-4.0	Batch#:	221143
Lab ID:	265129-010	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 7%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	360	75
Phenol	ND	360	50
bis(2-Chloroethyl)ether	ND	360	58
2-Chlorophenol	ND	360	59
1,3-Dichlorobenzene	ND	360	40
1,4-Dichlorobenzene	ND	360	16
Benzyl alcohol	ND	360	54
1,2-Dichlorobenzene	ND	360	36
2-Methylphenol	ND	360	66
bis(2-Chloroisopropyl) ether	ND	360	89
4-Methylphenol	ND	360	55
N-Nitroso-di-n-propylamine	ND	360	53
Hexachloroethane	ND	360	28
Nitrobenzene	ND	360	16
Isophorone	ND	360	10
2-Nitrophenol	ND	710	11
2,4-Dimethylphenol	ND	360	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	360	12
2,4-Dichlorophenol	ND	360	13
1,2,4-Trichlorobenzene	ND	360	14
Naphthalene	ND	71	14
4-Chloroaniline	ND	360	18
Hexachlorobutadiene	ND	360	15
4-Chloro-3-methylphenol	ND	360	15
2-Methylnaphthalene	ND	71	12
Hexachlorocyclopentadiene	ND	710	13
2,4,6-Trichlorophenol	ND	360	15
2,4,5-Trichlorophenol	ND	360	14
2-Chloronaphthalene	ND	360	11
2-Nitroaniline	ND	710	11
Dimethylphthalate	ND	360	13
Acenaphthylene	ND	71	14
2,6-Dinitrotoluene	ND	360	13
3-Nitroaniline	ND	710	8.7
Acenaphthene	ND	71	12
2,4-Dinitrophenol	ND	710	100
4-Nitrophenol	ND	710	56
Dibenzofuran	ND	360	15
2,4-Dinitrotoluene	ND	360	10
Diethylphthalate	ND	360	14
Fluorene	ND	71	12
4-Chlorophenyl-phenylether	ND	360	13
4-Nitroaniline	ND	710	10
4,6-Dinitro-2-methylphenol	ND	710	74
N-Nitrosodiphenylamine	ND	360	14
Azobenzene	ND	360	15
4-Bromophenyl-phenylether	ND	360	14
Hexachlorobenzene	ND	360	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-1B-4.0	Batch#:	221143
Lab ID:	265129-010	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	710	66
Phenanthrene	62 J	71	16
Anthracene	ND	71	13
Di-n-butylphthalate	ND	360	16
Fluoranthene	170	71	14
Pyrene	190	71	13
Butylbenzylphthalate	ND	360	12
3,3'-Dichlorobenzidine	ND	710	12
Benzo(a)anthracene	53 J	71	13
Chrysene	64 J	71	15
bis(2-Ethylhexyl)phthalate	ND	360	16
Di-n-octylphthalate	ND	360	18
Benzo(b)fluoranthene	100	71	15
Benzo(k)fluoranthene	36 J	71	19
Benzo(a)pyrene	59 J	71	16
Indeno(1,2,3-cd)pyrene	83	71	16
Dibenz(a,h)anthracene	ND	71	16
Benzo(g,h,i)perylene	110	71	14

Surrogate	%REC	Limits
2-Fluorophenol	38	25-120
Phenol-d5	48	36-120
2,4,6-Tribromophenol	56	27-120
Nitrobenzene-d5	55	44-120
2-Fluorobiphenyl	51	47-120
Terphenyl-d14	58	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-2B-4.0	Batch#:	221143
Lab ID:	265129-011	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 9%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	370	77
Phenol	ND	370	51
bis(2-Chloroethyl)ether	ND	370	59
2-Chlorophenol	ND	370	61
1,3-Dichlorobenzene	ND	370	41
1,4-Dichlorobenzene	ND	370	16
Benzyl alcohol	ND	370	56
1,2-Dichlorobenzene	ND	370	37
2-Methylphenol	ND	370	68
bis(2-Chloroisopropyl) ether	ND	370	91
4-Methylphenol	ND	370	57
N-Nitroso-di-n-propylamine	ND	370	55
Hexachloroethane	ND	370	28
Nitrobenzene	ND	370	16
Isophorone	ND	370	11
2-Nitrophenol	ND	730	11
2,4-Dimethylphenol	ND	370	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	370	12
2,4-Dichlorophenol	ND	370	14
1,2,4-Trichlorobenzene	ND	370	14
Naphthalene	ND	73	14
4-Chloroaniline	ND	370	18
Hexachlorobutadiene	ND	370	15
4-Chloro-3-methylphenol	ND	370	16
2-Methylnaphthalene	ND	73	12
Hexachlorocyclopentadiene	ND	730	13
2,4,6-Trichlorophenol	ND	370	15
2,4,5-Trichlorophenol	ND	370	15
2-Chloronaphthalene	ND	370	11
2-Nitroaniline	ND	730	12
Dimethylphthalate	ND	370	14
Acenaphthylene	ND	73	14
2,6-Dinitrotoluene	ND	370	14
3-Nitroaniline	ND	730	8.9
Acenaphthene	ND	73	12
2,4-Dinitrophenol	ND	730	100
4-Nitrophenol	ND	730	57
Dibenzofuran	ND	370	16
2,4-Dinitrotoluene	ND	370	11
Diethylphthalate	ND	370	15
Fluorene	ND	73	13
4-Chlorophenyl-phenylether	ND	370	14
4-Nitroaniline	ND	730	10
4,6-Dinitro-2-methylphenol	ND	730	76
N-Nitrosodiphenylamine	ND	370	15
Azobenzene	ND	370	15
4-Bromophenyl-phenylether	ND	370	14
Hexachlorobenzene	ND	370	15
Pentachlorophenol	ND	730	68

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-2B-4.0	Batch#:	221143
Lab ID:	265129-011	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	73	16
Anthracene	ND	73	14
Di-n-butylphthalate	ND	370	16
Fluoranthene	ND	73	14
Pyrene	ND	73	13
Butylbenzylphthalate	ND	370	12
3,3'-Dichlorobenzidine	ND	730	12
Benzo(a)anthracene	ND	73	13
Chrysene	ND	73	16
bis(2-Ethylhexyl)phthalate	ND	370	16
Di-n-octylphthalate	ND	370	19
Benzo(b)fluoranthene	ND	73	15
Benzo(k)fluoranthene	ND	73	20
Benzo(a)pyrene	ND	73	17
Indeno(1,2,3-cd)pyrene	ND	73	16
Dibenz(a,h)anthracene	ND	73	16
Benzo(g,h,i)perylene	ND	73	14

Surrogate	%REC	Limits
2-Fluorophenol	40	25-120
Phenol-d5	51	36-120
2,4,6-Tribromophenol	60	27-120
Nitrobenzene-d5	57	44-120
2-Fluorobiphenyl	51	47-120
Terphenyl-d14	61	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-3B-1.8	Batch#:	221143
Lab ID:	265129-012	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	10.00		

Moisture: 15%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	4,000	260
Phenol	ND	4,000	180
bis(2-Chloroethyl)ether	ND	4,000	190
2-Chlorophenol	ND	4,000	170
1,3-Dichlorobenzene	ND	4,000	160
1,4-Dichlorobenzene	ND	4,000	87
Benzyl alcohol	ND	4,000	190
1,2-Dichlorobenzene	ND	4,000	120
2-Methylphenol	ND	4,000	170
bis(2-Chloroisopropyl) ether	ND	4,000	190
4-Methylphenol	ND	4,000	190
N-Nitroso-di-n-propylamine	ND	4,000	180
Hexachloroethane	ND	4,000	130
Nitrobenzene	ND	4,000	110
Isophorone	ND	4,000	120
2-Nitrophenol	ND	7,900	460
2,4-Dimethylphenol	ND	4,000	220
Benzoic acid	ND	20,000	4,500
bis(2-Chloroethoxy)methane	ND	4,000	120
2,4-Dichlorophenol	ND	4,000	110
1,2,4-Trichlorobenzene	ND	4,000	100
Naphthalene	ND	790	150
4-Chloroaniline	ND	4,000	150
Hexachlorobutadiene	ND	4,000	99
4-Chloro-3-methylphenol	ND	4,000	100
2-Methylnaphthalene	ND	790	120
Hexachlorocyclopentadiene	ND	7,900	910
2,4,6-Trichlorophenol	ND	4,000	130
2,4,5-Trichlorophenol	ND	4,000	110
2-Chloronaphthalene	ND	4,000	93
2-Nitroaniline	ND	7,900	400
Dimethylphthalate	ND	4,000	86
Acenaphthylene	ND	790	99
2,6-Dinitrotoluene	ND	4,000	400
3-Nitroaniline	ND	7,900	86
Acenaphthene	ND	790	80
2,4-Dinitrophenol	ND	7,900	580
4-Nitrophenol	ND	7,900	84
Dibenzofuran	ND	4,000	100
2,4-Dinitrotoluene	ND	4,000	99
Diethylphthalate	ND	4,000	100
Fluorene	ND	790	95
4-Chlorophenyl-phenylether	ND	4,000	100
4-Nitroaniline	ND	7,900	130
4,6-Dinitro-2-methylphenol	ND	7,900	420
N-Nitrosodiphenylamine	ND	4,000	94
Azobenzene	ND	4,000	83
4-Bromophenyl-phenylether	ND	4,000	96

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-3B-1.8	Batch#:	221143
Lab ID:	265129-012	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	10.00		

Analyte	Result	RL	MDL
Hexachlorobenzene	ND	4,000	82
Pentachlorophenol	ND	7,900	1,200
Phenanthrene	560 J	790	97
Anthracene	ND	790	110
Di-n-butylphthalate	ND	4,000	110
Fluoranthene	1,200	790	110
Pyrene	1,400	790	87
Butylbenzylphthalate	ND	4,000	110
3,3'-Dichlorobenzidine	ND	7,900	940
Benzo(a)anthracene	340 J	790	80
Chrysene	550 J	790	98
bis(2-Ethylhexyl)phthalate	ND	4,000	100
Di-n-octylphthalate	ND	4,000	410
Benzo(b)fluoranthene	690 J	790	69
Benzo(k)fluoranthene	240 J	790	71
Benzo(a)pyrene	440 J	790	70
Indeno(1,2,3-cd)pyrene	490 J	790	91
Dibenz(a,h)anthracene	ND	790	88
Benzo(g,h,i)perylene	710 J	790	98

Surrogate	%REC	Limits
2-Fluorophenol	DO	25-120
Phenol-d5	DO	36-120
2,4,6-Tribromophenol	DO	27-120
Nitrobenzene-d5	DO	44-120
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	49-120

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-4B-1.8	Batch#:	221143
Lab ID:	265129-013	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	400	85
Phenol	ND	400	57
bis(2-Chloroethyl)ether	ND	400	66
2-Chlorophenol	ND	400	67
1,3-Dichlorobenzene	ND	400	46
1,4-Dichlorobenzene	ND	400	18
Benzyl alcohol	ND	400	61
1,2-Dichlorobenzene	ND	400	41
2-Methylphenol	ND	400	75
bis(2-Chloroisopropyl) ether	ND	400	100
4-Methylphenol	ND	400	63
N-Nitroso-di-n-propylamine	ND	400	60
Hexachloroethane	ND	400	31
Nitrobenzene	ND	400	18
Isophorone	ND	400	12
2-Nitrophenol	ND	810	12
2,4-Dimethylphenol	ND	400	17
Benzoic acid	ND	2,000	300
bis(2-Chloroethoxy)methane	ND	400	14
2,4-Dichlorophenol	ND	400	15
1,2,4-Trichlorobenzene	ND	400	16
Naphthalene	ND	81	16
4-Chloroaniline	ND	400	20
Hexachlorobutadiene	ND	400	17
4-Chloro-3-methylphenol	ND	400	17
2-Methylnaphthalene	ND	81	13
Hexachlorocyclopentadiene	ND	810	15
2,4,6-Trichlorophenol	ND	400	17
2,4,5-Trichlorophenol	ND	400	16
2-Chloronaphthalene	ND	400	12
2-Nitroaniline	ND	810	13
Dimethylphthalate	ND	400	15
Acenaphthylene	ND	81	15
2,6-Dinitrotoluene	ND	400	15
3-Nitroaniline	ND	810	9.9
Acenaphthene	ND	81	14
2,4-Dinitrophenol	ND	810	110
4-Nitrophenol	ND	810	63
Dibenzofuran	ND	400	17
2,4-Dinitrotoluene	ND	400	12
Diethylphthalate	ND	400	16
Fluorene	ND	81	14
4-Chlorophenyl-phenylether	ND	400	15
4-Nitroaniline	ND	810	12
4,6-Dinitro-2-methylphenol	ND	810	84
N-Nitrosodiphenylamine	ND	400	16
Azobenzene	ND	400	17
4-Bromophenyl-phenylether	ND	400	15
Hexachlorobenzene	ND	400	17

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-4B-1.8	Batch#:	221143
Lab ID:	265129-013	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	810	75
Phenanthrene	27 J	81	18
Anthracene	ND	81	15
Di-n-butylphthalate	ND	400	18
Fluoranthene	72 J	81	16
Pyrene	94	81	14
Butylbenzylphthalate	ND	400	13
3,3'-Dichlorobenzidine	ND	810	13
Benzo(a)anthracene	29 J	81	14
Chrysene	39 J	81	18
bis(2-Ethylhexyl)phthalate	ND	400	18
Di-n-octylphthalate	ND	400	21
Benzo(b)fluoranthene	60 J	81	17
Benzo(k)fluoranthene	24 J	81	22
Benzo(a)pyrene	40 J	81	19
Indeno(1,2,3-cd)pyrene	50 J	81	18
Dibenz(a,h)anthracene	ND	81	18
Benzo(g,h,i)perylene	68 J	81	16

Surrogate	%REC	Limits
2-Fluorophenol	45	25-120
Phenol-d5	56	36-120
2,4,6-Tribromophenol	72	27-120
Nitrobenzene-d5	67	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	65	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-5B-2.2	Batch#:	221143
Lab ID:	265129-014	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry		

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Analyzed
N-Nitrosodimethylamine	ND	1,900	400	5.000	03/10/15
Phenol	ND	1,900	260	5.000	03/10/15
bis(2-Chloroethyl)ether	ND	1,900	300	5.000	03/10/15
2-Chlorophenol	ND	1,900	310	5.000	03/10/15
1,3-Dichlorobenzene	ND	1,900	210	5.000	03/10/15
1,4-Dichlorobenzene	ND	1,900	83	5.000	03/10/15
Benzyl alcohol	ND	1,900	280	5.000	03/10/15
1,2-Dichlorobenzene	ND	1,900	190	5.000	03/10/15
2-Methylphenol	ND	1,900	350	5.000	03/10/15
bis(2-Chloroisopropyl) ether	ND	1,900	470	5.000	03/10/15
4-Methylphenol	ND	1,900	290	5.000	03/10/15
N-Nitroso-di-n-propylamine	ND	1,900	280	5.000	03/10/15
Hexachloroethane	ND	1,900	140	5.000	03/10/15
Nitrobenzene	ND	1,900	82	5.000	03/10/15
Isophorone	ND	1,900	55	5.000	03/10/15
2-Nitrophenol	ND	3,700	57	5.000	03/10/15
2,4-Dimethylphenol	ND	1,900	78	5.000	03/10/15
Benzoic acid	ND	9,400	1,400	5.000	03/10/15
bis(2-Chloroethoxy)methane	ND	1,900	63	5.000	03/10/15
2,4-Dichlorophenol	ND	1,900	70	5.000	03/10/15
1,2,4-Trichlorobenzene	ND	1,900	73	5.000	03/10/15
Naphthalene	120 J	370	72	5.000	03/10/15
4-Chloroaniline	ND	1,900	92	5.000	03/10/15
Hexachlorobutadiene	ND	1,900	77	5.000	03/10/15
4-Chloro-3-methylphenol	ND	1,900	79	5.000	03/10/15
2-Methylnaphthalene	ND	370	61	5.000	03/10/15
Hexachlorocyclopentadiene	ND	3,700	69	5.000	03/10/15
2,4,6-Trichlorophenol	ND	1,900	79	5.000	03/10/15
2,4,5-Trichlorophenol	ND	1,900	75	5.000	03/10/15
2-Chloronaphthalene	ND	1,900	57	5.000	03/10/15
2-Nitroaniline	ND	3,700	60	5.000	03/10/15
Dimethylphthalate	ND	1,900	70	5.000	03/10/15
Acenaphthylene	990	370	71	5.000	03/10/15
2,6-Dinitrotoluene	ND	1,900	70	5.000	03/10/15
3-Nitroaniline	ND	3,700	46	5.000	03/10/15
Acenaphthene	ND	370	63	5.000	03/10/15
2,4-Dinitrophenol	ND	3,700	530	5.000	03/10/15
4-Nitrophenol	ND	3,700	290	5.000	03/10/15
Dibenzofuran	ND	1,900	81	5.000	03/10/15
2,4-Dinitrotoluene	ND	1,900	55	5.000	03/10/15
Diethylphthalate	ND	1,900	76	5.000	03/10/15
Fluorene	74 J	370	66	5.000	03/10/15
4-Chlorophenyl-phenylether	ND	1,900	70	5.000	03/10/15
4-Nitroaniline	ND	3,700	53	5.000	03/10/15
4,6-Dinitro-2-methylphenol	ND	3,700	390	5.000	03/10/15
N-Nitrosodiphenylamine	ND	1,900	76	5.000	03/10/15
Azobenzene	ND	1,900	79	5.000	03/10/15
4-Bromophenyl-phenylether	ND	1,900	71	5.000	03/10/15
Hexachlorobenzene	ND	1,900	77	5.000	03/10/15
Pentachlorophenol	ND	3,700	350	5.000	03/10/15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-5B-2.2	Batch#:	221143
Lab ID:	265129-014	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry		

Analyte	Result	RL	MDL	Diln Fac	Analyzed
Phenanthrene	4,700	370	84	5.000	03/10/15
Anthracene	570	370	70	5.000	03/10/15
Di-n-butylphthalate	ND	1,900	82	5.000	03/10/15
Fluoranthene	9,800	370	73	5.000	03/10/15
Pyrene	16,000	750	82	10.00	03/11/15
Butylbenzylphthalate	ND	1,900	60	5.000	03/10/15
3,3'-Dichlorobenzidine	ND	3,700	62	5.000	03/10/15
Benzo(a)anthracene	4,400	370	66	5.000	03/10/15
Chrysene	5,800	370	81	5.000	03/10/15
bis(2-Ethylhexyl)phthalate	ND	1,900	83	5.000	03/10/15
Di-n-octylphthalate	ND	1,900	96	5.000	03/10/15
Benzo(b)fluoranthene	8,200	370	78	5.000	03/10/15
Benzo(k)fluoranthene	2,400	370	100	5.000	03/10/15
Benzo(a)pyrene	4,900	370	87	5.000	03/10/15
Indeno(1,2,3-cd)pyrene	4,300	370	83	5.000	03/10/15
Dibenz(a,h)anthracene	660	370	82	5.000	03/10/15
Benzo(g,h,i)perylene	5,100	370	73	5.000	03/10/15

Surrogate	%REC	Limits	Diln Fac	Analyzed
2-Fluorophenol	47	25-120	5.000	03/10/15
Phenol-d5	60	36-120	5.000	03/10/15
2,4,6-Tribromophenol	85	27-120	5.000	03/10/15
Nitrobenzene-d5	67	44-120	5.000	03/10/15
2-Fluorobiphenyl	80	47-120	5.000	03/10/15
Terphenyl-d14	75	49-120	5.000	03/10/15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780001	Batch#:	221143
Matrix:	Soil	Prepared:	03/09/15
Units:	ug/Kg	Analyzed:	03/10/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	71
Phenol	ND	340	47
bis(2-Chloroethyl)ether	ND	340	55
2-Chlorophenol	ND	340	56
1,3-Dichlorobenzene	ND	340	38
1,4-Dichlorobenzene	ND	340	15
Benzyl alcohol	ND	340	51
1,2-Dichlorobenzene	ND	340	34
2-Methylphenol	ND	340	63
bis(2-Chloroisopropyl) ether	ND	340	84
4-Methylphenol	ND	340	52
N-Nitroso-di-n-propylamine	ND	340	50
Hexachloroethane	ND	340	26
Nitrobenzene	ND	340	15
Isophorone	ND	340	9.8
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	340	14
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	340	11
2,4-Dichlorophenol	ND	340	13
1,2,4-Trichlorobenzene	ND	340	13
Naphthalene	ND	67	13
4-Chloroaniline	ND	340	17
Hexachlorobutadiene	ND	340	14
4-Chloro-3-methylphenol	ND	340	14
2-Methylnaphthalene	ND	67	11
Hexachlorocyclopentadiene	ND	670	12
2,4,6-Trichlorophenol	ND	340	14
2,4,5-Trichlorophenol	ND	340	14
2-Chloronaphthalene	ND	340	10
2-Nitroaniline	ND	670	11
Dimethylphthalate	ND	340	13
Acenaphthylene	ND	67	13
2,6-Dinitrotoluene	ND	340	13
3-Nitroaniline	ND	670	8.2
Acenaphthene	ND	67	11
2,4-Dinitrophenol	ND	670	95
4-Nitrophenol	ND	670	53
Dibenzofuran	ND	340	15
2,4-Dinitrotoluene	ND	340	9.9
Diethylphthalate	ND	340	14
Fluorene	ND	67	12
4-Chlorophenyl-phenylether	ND	340	13
4-Nitroaniline	ND	670	9.6
4,6-Dinitro-2-methylphenol	ND	670	70
N-Nitrosodiphenylamine	ND	340	14
Azobenzene	ND	340	14
4-Bromophenyl-phenylether	ND	340	13
Hexachlorobenzene	ND	340	14
Pentachlorophenol	ND	670	63
Phenanthrene	ND	67	15
Anthracene	ND	67	13
Di-n-butylphthalate	ND	340	15

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780001	Batch#:	221143
Matrix:	Soil	Prepared:	03/09/15
Units:	ug/Kg	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	13
Pyrene	ND	67	12
Butylbenzylphthalate	ND	340	11
3,3'-Dichlorobenzidine	ND	670	11
Benzo(a)anthracene	ND	67	12
Chrysene	ND	67	15
bis(2-Ethylhexyl)phthalate	ND	340	15
Di-n-octylphthalate	ND	340	17
Benzo(b)fluoranthene	ND	67	14
Benzo(k)fluoranthene	ND	67	18
Benzo(a)pyrene	ND	67	16
Indeno(1,2,3-cd)pyrene	ND	67	15
Dibenz(a,h)anthracene	ND	67	15
Benzo(g,h,i)perylene	ND	67	13

Surrogate	%REC	Limits
2-Fluorophenol	48	25-120
Phenol-d5	60	36-120
2,4,6-Tribromophenol	59	27-120
Nitrobenzene-d5	72	44-120
2-Fluorobiphenyl	67	47-120
Terphenyl-d14	67	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC780002	Batch#:	221143
Matrix:	Soil	Prepared:	03/09/15
Units:	ug/Kg	Analyzed:	03/10/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,646	2,018	76	42-120
2-Chlorophenol	2,646	2,004	76	45-120
1,4-Dichlorobenzene	2,646	2,025	77	48-120
N-Nitroso-di-n-propylamine	2,646	2,029	77	27-123
1,2,4-Trichlorobenzene	2,646	2,041	77	50-120
4-Chloro-3-methylphenol	2,646	2,385	90	59-120
Acenaphthene	992.4	767.3	77	53-120
4-Nitrophenol	2,646	2,380	90	47-120
2,4-Dinitrotoluene	2,646	2,141	81	55-120
Pentachlorophenol	2,646	2,209	83	32-120
Pyrene	992.4	910.3	92	52-120

Surrogate	%REC	Limits
2-Fluorophenol	57	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	87	27-120
Nitrobenzene-d5	69	44-120
2-Fluorobiphenyl	68	47-120
Terphenyl-d14	79	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TBL2-5B-2.2	Batch#:	221143
MSS Lab ID:	265129-014	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	ug/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	5.000		

Type: MS Moisture: 11%
Lab ID: QC780003

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<262.2	2,991	2,041	68	47-120
2-Chlorophenol	<309.2	2,991	2,109	71	44-120
1,4-Dichlorobenzene	<82.82	2,991	2,102	70	49-120
N-Nitroso-di-n-propylamine	<279.3	2,991	2,107	70	42-120
1,2,4-Trichlorobenzene	<72.51	2,991	2,166	72	54-120
4-Chloro-3-methylphenol	<79.35	2,991	2,261	76	55-120
Acenaphthene	<62.76	1,122	705.9	63	51-120
4-Nitrophenol	<292.7	2,991	2,145	72	36-120
2,4-Dinitrotoluene	<55.03	2,991	1,704	57	52-120
Pentachlorophenol	<347.3	2,991	1,810	61	14-120
Pyrene	16,200	1,122	10,250	-530 NM	46-124

Surrogate	%REC	Limits
2-Fluorophenol	51	25-120
Phenol-d5	63	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	66	44-120
2-Fluorobiphenyl	66	47-120
Terphenyl-d14	65	49-120

Type: MSD Moisture: 11%
Lab ID: QC780004

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,993	2,423	81	47-120	17	39
2-Chlorophenol	2,993	2,505	84	44-120	17	38
1,4-Dichlorobenzene	2,993	2,451	82	49-120	15	45
N-Nitroso-di-n-propylamine	2,993	2,519	84	42-120	18	40
1,2,4-Trichlorobenzene	2,993	2,632	88	54-120	19	38
4-Chloro-3-methylphenol	2,993	2,835	95	55-120	22	41
Acenaphthene	1,122	867.6	77	51-120	20	47
4-Nitrophenol	2,993	2,648	88	36-120	21	41
2,4-Dinitrotoluene	2,993	2,063	69	52-120	19	40
Pentachlorophenol	2,993	2,310	77	14-120	24	53
Pyrene	1,122	14,030 >LR	-193 NM	46-124	NC	50

Surrogate	%REC	Limits
2-Fluorophenol	60	25-120
Phenol-d5	75	36-120
2,4,6-Tribromophenol	93	27-120
Nitrobenzene-d5	78	44-120
2-Fluorobiphenyl	75	47-120
Terphenyl-d14	78	49-120

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-1SW-0.9	Diln Fac:	1.000
Lab ID:	265129-002	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 13%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.56 J	0.60	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	1.0	0.30	0.087	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	86	0.30	0.064	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.12	0.12	0.015	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	1.6	0.30	0.031	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	85	0.30	0.075	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	27	0.30	0.036	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	69	0.30	0.10	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	58	0.30	0.083	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.37	0.019	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.17 J	0.30	0.058	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	100	0.30	0.079	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.19	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	0.14 J	0.30	0.048	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	130	0.30	0.068	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	54	1.2	0.067	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-2SW-0.9	Diln Fac:	1.000
Lab ID:	265129-003	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.41 J	0.55	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	0.44	0.28	0.081	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	28	0.28	0.060	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.12	0.11	0.014	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	1.4	0.28	0.028	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	100	0.28	0.070	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	25	0.28	0.033	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	61	0.28	0.093	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	ND	0.28	0.077	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.57	0.020	0.0011	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	ND	0.28	0.054	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	94	0.28	0.073	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	0.20 J	0.28	0.044	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	130	0.28	0.063	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	38	1.1	0.062	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-3SW-0.9	Basis:	dry
Lab ID:	265129-004	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15

Moisture: 6%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	1.9	0.51	0.15	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	3.1	0.26	0.074	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	55	0.26	0.055	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.24	0.10	0.013	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	2.5	0.26	0.026	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	130	0.26	0.064	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	12	0.26	0.031	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	47	0.26	0.085	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	500	0.26	0.071	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	2.6	0.090	0.0050	5.000	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	1.4	0.26	0.050	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	31	0.26	0.067	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.51	0.16	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.041	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.51	0.14	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	73	0.26	0.058	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	180	1.0	0.057	1.000	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-4SW-1.3	Basis:	dry
Lab ID:	265129-005	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15

Moisture: 12%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	2.5	0.59	0.18	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	7.6	0.29	0.085	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	210	0.29	0.063	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.28	0.12	0.015	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	4.3	0.29	0.030	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	270	0.29	0.074	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	15	0.29	0.035	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	91	0.29	0.098	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	3,700	29	8.2	100.0	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	ND	0.020	0.0011	1.000	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	5.2	0.29	0.057	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	46	0.29	0.077	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.19	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.047	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.16	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	35	0.29	0.067	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	270	1.2	0.066	1.000	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-5SW-1.3	Basis:	dry
Lab ID:	265129-006	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	1.6	0.53	0.16	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	17	0.26	0.076	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	220	0.26	0.056	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.32	0.11	0.013	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	5.3	0.26	0.027	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	91	0.26	0.066	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	12	0.26	0.031	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	83	0.26	0.088	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	850	26	7.3	100.0	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.38	0.017	0.00096	1.000	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	4.4	0.26	0.051	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	37	0.26	0.069	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.53	0.17	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.042	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.53	0.15	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	34	0.26	0.060	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	280	1.1	0.059	1.000	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-6SW-1.3	Diln Fac:	1.000
Lab ID:	265129-007	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 8%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.43 J	0.53	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	3.2	0.27	0.077	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	95	0.27	0.057	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.28	0.11	0.013	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	0.56	0.27	0.027	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	37	0.27	0.067	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	6.7	0.27	0.032	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	24	0.27	0.089	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	130	0.27	0.074	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.19	0.018	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.36	0.27	0.052	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	24	0.27	0.070	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.53	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	0.047 J	0.27	0.042	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.53	0.15	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	28	0.27	0.061	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	59	1.1	0.060	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-7SW-1.4	Diln Fac:	1.000
Lab ID:	265129-008	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 12%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	2.0	0.56	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	6.8	0.28	0.081	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	300	0.28	0.060	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.29	0.11	0.014	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	3.0	0.28	0.028	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	52	0.28	0.070	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	11	0.28	0.033	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	53	0.28	0.093	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	480	0.28	0.078	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.14	0.018	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	1.6	0.28	0.054	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	17	0.28	0.073	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.044	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	38	0.28	0.064	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	500	1.1	0.062	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-8SW-1.2	Basis:	dry
Lab ID:	265129-009	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	1.3	0.51	0.15	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	7.0	0.26	0.074	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	190	0.26	0.055	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	0.013	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	2.3	0.26	0.026	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	74	0.26	0.064	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	12	0.26	0.031	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	67	0.26	0.085	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	1,700	26	7.1	100.0	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.18	0.020	0.0011	1.000	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	2.4	0.26	0.050	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	25	0.26	0.067	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.51	0.16	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.041	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.51	0.14	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	41	0.26	0.058	1.000	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	140	1.0	0.057	1.000	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-1B-4.0	Diln Fac:	1.000
Lab ID:	265129-010	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 7%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.20 J	0.57	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	5.6	0.29	0.083	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	160	0.29	0.061	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.27	0.11	0.014	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	0.32	0.29	0.029	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	29	0.29	0.072	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	8.0	0.29	0.034	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	7.9	0.29	0.095	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	18	0.29	0.080	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.11	0.019	0.0011	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.12 J	0.29	0.056	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	25	0.29	0.075	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.29	0.046	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.57	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	45	0.29	0.065	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	25	1.1	0.064	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-2B-4.0	Diln Fac:	1.000
Lab ID:	265129-011	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 9%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.21 J	0.51	0.15	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	1.6	0.26	0.075	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	120	0.26	0.055	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	0.013	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	0.28	0.26	0.026	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	26	0.26	0.065	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	4.3	0.26	0.031	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	8.5	0.26	0.086	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	2.7	0.26	0.072	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.024	0.017	0.00094	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.079 J	0.26	0.050	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	21	0.26	0.068	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.51	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.041	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.51	0.14	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	22	0.26	0.059	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	20	1.0	0.058	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-3B-1.8	Diln Fac:	1.000
Lab ID:	265129-012	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.63	0.59	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	5.2	0.29	0.085	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	180	0.29	0.063	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.35	0.12	0.015	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	0.96	0.29	0.030	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	24	0.29	0.074	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	8.3	0.29	0.035	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	35	0.29	0.098	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	150	0.29	0.082	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.42	0.018	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.76	0.29	0.057	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	21	0.29	0.077	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.59	0.19	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	0.72	0.29	0.047	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.59	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	28	0.29	0.067	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	110	1.2	0.066	221155	03/10/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-4B-1.8	Diln Fac:	1.000
Lab ID:	265129-013	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.33 J	0.60	0.18	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	3.1	0.30	0.087	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	150	0.30	0.064	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.33	0.12	0.015	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	0.44	0.30	0.030	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	31	0.30	0.075	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	6.0	0.30	0.036	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	21	0.30	0.099	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	27	0.30	0.083	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.030	0.019	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.20 J	0.30	0.058	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	31	0.30	0.078	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.19	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.048	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	22	0.30	0.068	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	41	1.2	0.067	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265129	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TBL2-5B-2.2	Diln Fac:	1.000
Lab ID:	265129-014	Sampled:	03/06/15
Matrix:	Soil	Received:	03/06/15
Units:	mg/Kg	Analyzed:	03/10/15
Basis:	dry		

Moisture: 11%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.96	0.55	0.16	221155	03/10/15	EPA 3050B	EPA 6010B
Arsenic	4.6	0.27	0.079	221155	03/10/15	EPA 3050B	EPA 6010B
Barium	220	0.27	0.059	221155	03/10/15	EPA 3050B	EPA 6010B
Beryllium	0.32	0.11	0.014	221155	03/10/15	EPA 3050B	EPA 6010B
Cadmium	1.3	0.27	0.028	221155	03/10/15	EPA 3050B	EPA 6010B
Chromium	54	0.27	0.069	221155	03/10/15	EPA 3050B	EPA 6010B
Cobalt	8.2	0.27	0.033	221155	03/10/15	EPA 3050B	EPA 6010B
Copper	64	0.27	0.091	221155	03/10/15	EPA 3050B	EPA 6010B
Lead	530	0.27	0.076	221155	03/10/15	EPA 3050B	EPA 6010B
Mercury	0.37	0.018	0.0010	221137	03/09/15	METHOD	EPA 7471A
Molybdenum	0.93	0.27	0.053	221155	03/10/15	EPA 3050B	EPA 6010B
Nickel	30	0.27	0.072	221155	03/10/15	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.17	221155	03/10/15	EPA 3050B	EPA 6010B
Silver	0.093 J	0.27	0.043	221155	03/10/15	EPA 3050B	EPA 6010B
Thallium	ND	0.55	0.15	221155	03/10/15	EPA 3050B	EPA 6010B
Vanadium	32	0.27	0.062	221155	03/10/15	EPA 3050B	EPA 6010B
Zinc	170	1.1	0.061	221155	03/10/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221137
Lab ID:	QC779982	Prepared:	03/09/15
Matrix:	Soil	Analyzed:	03/09/15
Units:	mg/Kg		

Result	RL	MDL
0.0041 J	0.017	0.00093

J= Estimated value
RL= Reporting Limit
MDL= Method Detection Limit

23.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	LCS	Batch#:	221137
Lab ID:	QC779983	Prepared:	03/09/15
Matrix:	Soil	Analyzed:	03/09/15
Units:	mg/Kg		

Spiked	Result	%REC	Limits
0.2083	0.2123	102	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	221137
MSS Lab ID:	264907-001	Sampled:	02/24/15
Matrix:	Soil	Received:	02/25/15
Units:	mg/Kg	Prepared:	03/09/15
Basis:	dry	Analyzed:	03/09/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC779984	0.009373	0.2854	0.3131	106	69-142	27%		
MSD	QC779985		0.2718	0.3015	107	69-142	27%	1	36

RPD= Relative Percent Difference

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Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780045	Batch#:	221155
Matrix:	Soil	Prepared:	03/10/15
Units:	mg/Kg	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	0.12 J	1.0	0.056

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221155
Units:	mg/Kg	Prepared:	03/10/15
Diln Fac:	5.000	Analyzed:	03/10/15

Type: BS Lab ID: QC780046

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	48.75	98	80-120
Arsenic	50.00	48.63	97	80-120
Barium	50.00	48.33	97	80-120
Beryllium	50.00	50.03	100	80-120
Cadmium	50.00	50.29	101	80-120
Chromium	50.00	48.61	97	80-120
Cobalt	50.00	46.47	93	80-120
Copper	50.00	47.60	95	80-120
Lead	50.00	45.72	91	80-120
Molybdenum	50.00	47.88	96	80-120
Nickel	50.00	47.76	96	80-120
Selenium	50.00	48.61	97	80-120
Silver	50.00	47.50	95	80-120
Thallium	50.00	46.47	93	80-120
Vanadium	50.00	50.18	100	80-120
Zinc	50.00	48.29	97	80-120

Type: BSD Lab ID: QC780047

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	49.12	98	80-120	1	20
Arsenic	50.00	49.42	99	80-120	2	20
Barium	50.00	48.28	97	80-120	0	20
Beryllium	50.00	50.64	101	80-120	1	20
Cadmium	50.00	50.44	101	80-120	0	20
Chromium	50.00	48.72	97	80-120	0	20
Cobalt	50.00	46.86	94	80-120	1	20
Copper	50.00	48.04	96	80-120	1	20
Lead	50.00	46.03	92	80-120	1	20
Molybdenum	50.00	48.37	97	80-120	1	20
Nickel	50.00	47.88	96	80-120	0	20
Selenium	50.00	48.69	97	80-120	0	20
Silver	50.00	47.64	95	80-120	0	20
Thallium	50.00	46.93	94	80-120	1	20
Vanadium	50.00	50.52	101	80-120	1	20
Zinc	50.00	48.24	96	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265129	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	221155
MSS Lab ID:	265094-001	Sampled:	03/05/15
Matrix:	Soil	Received:	03/05/15
Units:	mg/Kg	Prepared:	03/10/15
Basis:	as received	Analyzed:	03/10/15
Diln Fac:	5.000		

Type: MS Lab ID: QC780048

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5092	51.55	24.14	46	15-120
Arsenic	2.968	51.55	57.64	106	69-120
Barium	179.7	51.55	272.7	180 *	35-154
Beryllium	0.4975	51.55	55.88	107	75-120
Cadmium	0.6458	51.55	56.23	108	71-120
Chromium	30.35	51.55	94.94	125	57-133
Cobalt	9.128	51.55	63.04	105	56-125
Copper	18.10	51.55	75.84	112	54-144
Lead	4.788	51.55	56.08	99	53-125
Molybdenum	0.1954	51.55	47.43	92	66-120
Nickel	36.22	51.55	96.63	117	44-141
Selenium	<0.1647	51.55	50.72	98	61-120
Silver	<0.04110	51.55	54.57	106	69-120
Thallium	<0.1448	51.55	50.34	98	59-120
Vanadium	30.48	51.55	100.1	135	52-144
Zinc	39.19	51.55	101.9	122	45-145

Type: MSD Lab ID: QC780049

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.51	21.81	42	15-120	8	41
Arsenic	50.51	51.52	96	69-120	9	35
Barium	50.51	241.4	122	35-154	12	36
Beryllium	50.51	50.18	98	75-120	9	20
Cadmium	50.51	49.64	97	71-120	10	25
Chromium	50.51	85.85	110	57-133	9	33
Cobalt	50.51	57.01	95	56-125	8	36
Copper	50.51	67.20	97	54-144	11	38
Lead	50.51	50.25	90	53-125	9	42
Molybdenum	50.51	43.03	85	66-120	8	20
Nickel	50.51	88.27	103	44-141	8	39
Selenium	50.51	45.35	90	61-120	9	33
Silver	50.51	49.07	97	69-120	9	22
Thallium	50.51	45.00	89	59-120	9	27
Vanadium	50.51	89.57	117	52-144	10	29
Zinc	50.51	91.44	103	45-145	10	39

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265156
ANALYTICAL REPORT

Integral Consulting, Inc. 115 Sansome Street San Francisco, CA 94104	Project : C1374 Location : Allied Engineering Level : II

Sample ID	Lab ID
TRENCH2-1SW-1.2	265156-001
TRENCH2-2SW-2.0	265156-002
TRENCH2-3SW-1.2	265156-003
TRENCH2-1B-4.0	265156-004
TRENCH2-2B-2.4	265156-005
TRENCH2-3B-2.4	265156-006
TRENCH2-4SW-1.2	265156-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Isabelle Choy Date: 03/16/2015

Isabelle Choy
Project Manager
isabelle.choy@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265156**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/09/15**
Samples Received:	**03/09/15**

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 03/09/15. The samples were received on ice and intact. This report was revised and reissued on 3/17/2015.

TPH-Extractables by GC (EPA 8015B):
Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 221161. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recoveries were observed for lead in the MS/MSD of TRENCH2-1SW-1.2 (lab # 265156-001); the BS/BSD were within limits, and the associated RPD was within limits. Low recoveries were observed for mercury in the MS/MSD of TRENCH2-1SW-1.2 (lab # 265156-001); the BS/BSD were within limits, and the associated RPD was within limits. Zinc was detected between the MDL and the RL in the method blank for batch 221209; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

From: Chris Lyles
Sent: Tuesday, March 17, 2015 3:30 PM
To: 'tracy.babjar@ctberk.com'
Cc: Bridgette DeShields; Mala Pattanayek; Zach Estela; Stephen Sherman
Subject: RE: C1374 - C&T Data (265156)

I confirmed with my field staff that he mislabeled the sample ID on the chain and that the sample labels were all correct. Can you reissue this lab report with the TRENCH2-4SW-1.4 sample ID changed to TRENCH2-4SW-1.2

Please also reissue the EDF. Thanks and sorry for the complication.

Best,

Chris

Christopher B. Lyles, GIT | Associate Geologist

Integral Consulting Inc. | www.integral-corp.com

115 Sansome Street, Suite 200 | San Francisco, CA 94104

Tel: 415.393.4750 ext: 851 | Cell: 301.706.0791

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

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CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 265756

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 0202
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: S. Sherman/C. Lyles
Report To: B. Deshields
Company: Integral Consulting Inc.
Telephone:
Email: bdeshields@integral-corp.com

ANALYTICAL REQUEST

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	TPH d & TPHmo by 8015	SVOCs by 8270	Title 22 metals
	Trench 2 - 1SW-1.2	3/9/15	1250		X	1					X	X	X	X
	Trench 2 - 2SW-2.0	↓	1300		↓	↓					↓	↓	↓	↓
	Trench 2 - 3SW-1.2		1302											
	Trench 2 - 1B-4.0		1250											
	Trench 2 - 2B-2.4		1305											
	Trench 2 - 3B-2.4		1540											
	Trench 2 - 4SW-1.4		1600											

SS 030915

Notes:
- Report to MDL
- EDF required
- Homogenize samples before analysis

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:		RECEIVED BY:	
Stephen Sherman	DATE: 3/9/15 TIME: 1620		DATE: 3/9/15 TIME: 1620
	DATE: 3/9/15 TIME: 1700		DATE: 3/9/15 TIME: 1700
	DATE: TIME:		DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265756 Date Received 3/9/15 Number of coolers 1
Client Integral Project CU374

Date Opened 3/9 By (print) [illegible] (sign) [illegible]
Date Logged in _____ By (print) _____ (sign) _____

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

   ☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☒ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 6.6°

   ☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

   ☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

(13) Sample 007 listed on COC as Trench 2-4SW-1.4', sample label states "Trench 2-4SW-1.2'", sampling dates/times match

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265156

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TRENCH2-1SW-1.2 Laboratory Sample ID : 265156-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	20	Y	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	150		5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	30	J	76	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	61	J	76	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	77		76	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	26	J	76	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	38	J	76	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	52	J	76	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	32	J	76	18	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	28	J	76	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	37	J	76	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	5.3		0.56	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.9		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	140		0.28	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.41		0.11	0.021	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.87		0.28	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	19		0.28	0.024	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	11		0.28	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	59		0.29	0.097	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	210		0.28	0.082	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.22		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.27	J	0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	18		0.28	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	53		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	99		1.1	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	12		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-2SW-2.0 Laboratory Sample ID : 265156-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	6.0	Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	46		6.1	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	2.0		0.60	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	4.1		0.30	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	220		0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.36		0.12	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.31		0.30	0.019	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	36		0.30	0.025	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.0		0.30	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	29		0.31	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	57		0.30	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.17		0.021	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.25	J	0.30	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	38		0.30	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	28		0.30	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	55		1.2	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	18		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TRENCH2-3SW-1.2 Laboratory Sample ID : 265156-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	3.0	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	23		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Fluoranthene	25	J	75	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	28	J	75	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	16	J	75	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	15	J	75	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	5.6		0.52	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	9.0		0.26	0.086	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	170		0.26	0.051	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.37		0.10	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.88		0.26	0.017	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	6.3		0.26	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.2		0.26	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	38		0.27	0.090	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	52		0.26	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.063		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.73		0.26	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	5.1		0.26	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	39		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	67		1.0	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	10		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-1B-4.0 Laboratory Sample ID : 265156-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Antimony	1.7		0.54	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.1		0.27	0.090	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	61		0.27	0.053	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.31		0.11	0.021	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.31		0.27	0.017	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	44		0.27	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	3.2		0.27	0.021	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	7.0		0.28	0.094	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	3.9		0.27	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.023		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Nickel	51		0.27	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	33		0.27	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	26		1.1	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	12		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TRENCH2-2B-2.4 Laboratory Sample ID : 265156-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	2.2	Y	1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	17		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.48	J	0.60	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	2.1		0.30	0.099	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	160		0.30	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.28		0.12	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.19	J	0.30	0.019	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	27		0.30	0.025	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	5.4		0.30	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	15		0.31	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	4.5		0.30	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.027		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Nickel	26		0.30	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	19		0.30	0.030	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	22		1.2	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-3B-2.4 Laboratory Sample ID : 265156-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	17		1.2	0.37	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	61		6.0	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	1.7		0.56	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	4.3		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	180		0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.37		0.11	0.021	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.41		0.28	0.018	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	39		0.28	0.023	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.9		0.28	0.022	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	25		0.29	0.096	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	60		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.13		0.020	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.36		0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	52		0.28	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	26		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	43		1.1	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	17		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-4SW-1.2 Laboratory Sample ID : 265156-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	45		1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	140		5.5	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Naphthalene	14	J	72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Acenaphthylene	86		72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	340		72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Anthracene	48	J	72	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Di-n-butylphthalate	54	J	360	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	820		72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	1,000		72	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	310		72	13	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	420		72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	620		72	15	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	190		72	19	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	410		72	17	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	330		72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	50	J	72	16	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	400		72	14	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	8.0		0.53	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	8.3		0.26	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	910		26	5.1	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Beryllium	0.22		0.11	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	2.1		0.26	0.017	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	720		26	2.2	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Cobalt	27		0.26	0.020	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	100		0.27	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	24,000		26	7.7	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.56		0.018	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	2.9		0.26	0.059	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	27		0.26	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.98		0.53	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	71		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	1,800		110	10	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Moisture, Percent	9		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15
Basis:	dry	Prepared:	03/10/15
Diln Fac:	1.000	Analyzed:	03/10/15
Batch#:	221161		

Field ID: TRENCH2-1SW-1.2 Lab ID: 265156-001
Type: SAMPLE Moisture: 12%

Analyte	Result	RL	MDL
Diesel C10-C24	20 Y	1.1	0.35
Motor Oil C24-C36	150	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

Field ID: TRENCH2-2SW-2.0 Lab ID: 265156-002
Type: SAMPLE Moisture: 18%

Analyte	Result	RL	MDL
Diesel C10-C24	6.0 Y	1.2	0.38
Motor Oil C24-C36	46	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	120	59-140

Field ID: TRENCH2-3SW-1.2 Lab ID: 265156-003
Type: SAMPLE Moisture: 10%

Analyte	Result	RL	MDL
Diesel C10-C24	3.0 Y	1.1	0.34
Motor Oil C24-C36	23	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Field ID: TRENCH2-1B-4.0 Lab ID: 265156-004
Type: SAMPLE Moisture: 12%

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.1	0.35
Motor Oil C24-C36	ND	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15
Basis:	dry	Prepared:	03/10/15
Diln Fac:	1.000	Analyzed:	03/10/15
Batch#:	221161		

Field ID: TRENCH2-2B-2.4 Lab ID: 265156-005
Type: SAMPLE Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	2.2 Y	1.2	0.37
Motor Oil C24-C36	17	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	109	59-140

Field ID: TRENCH2-3B-2.4 Lab ID: 265156-006
Type: SAMPLE Moisture: 17%

Analyte	Result	RL	MDL
Diesel C10-C24	17	1.2	0.37
Motor Oil C24-C36	61	6.0	1.8

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Field ID: TRENCH2-4SW-1.2 Lab ID: 265156-007
Type: SAMPLE Moisture: 9%

Analyte	Result	RL	MDL
Diesel C10-C24	45	1.1	0.34
Motor Oil C24-C36	140	5.5	1.7

Surrogate	%REC	Limits
o-Terphenyl	107	59-140

Type: BLANK Lab ID: QC780075

Analyte	Result	RL	MDL
Diesel C10-C24	0.34 J	0.99	0.30
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	115	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780076	Batch#:	221161
Matrix:	Soil	Prepared:	03/10/15
Units:	mg/Kg	Analyzed:	03/11/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.71	46.06	93	58-137

Surrogate	%REC	Limits
o-Terphenyl	100	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TRENCH2-1B-4.0	Batch#:	221161
MSS Lab ID:	265156-004	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	mg/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/10/15
Diln Fac:	1.000		

Type: MS Moisture: 12%
Lab ID: QC780077

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.3490	56.97	57.11	100	46-154

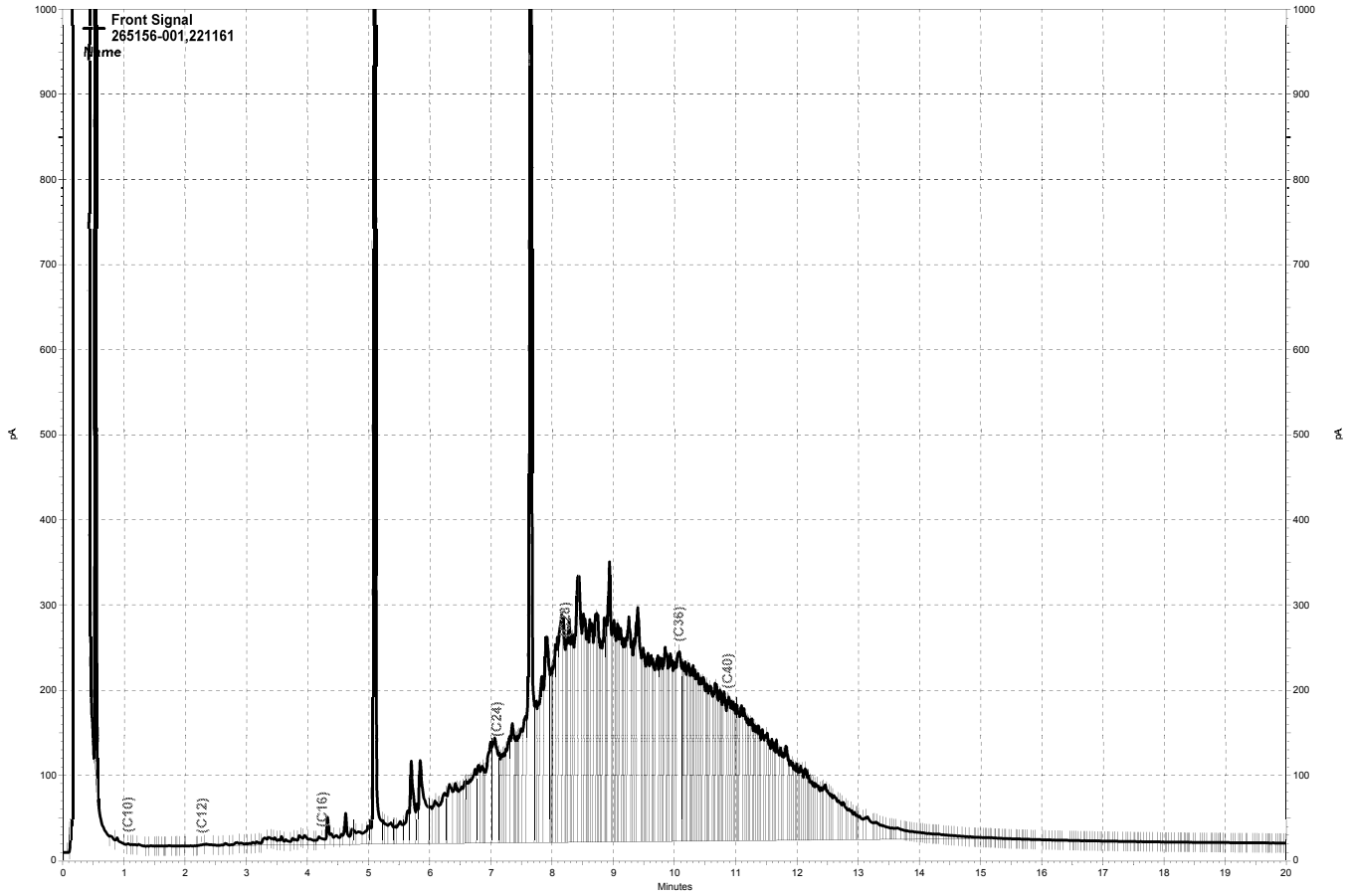
Surrogate	%REC	Limits
o-Terphenyl	109	59-140

Type: MSD Moisture: 12%
Lab ID: QC780078

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	57.21	56.21	98	46-154	2	50

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

RPD= Relative Percent Difference



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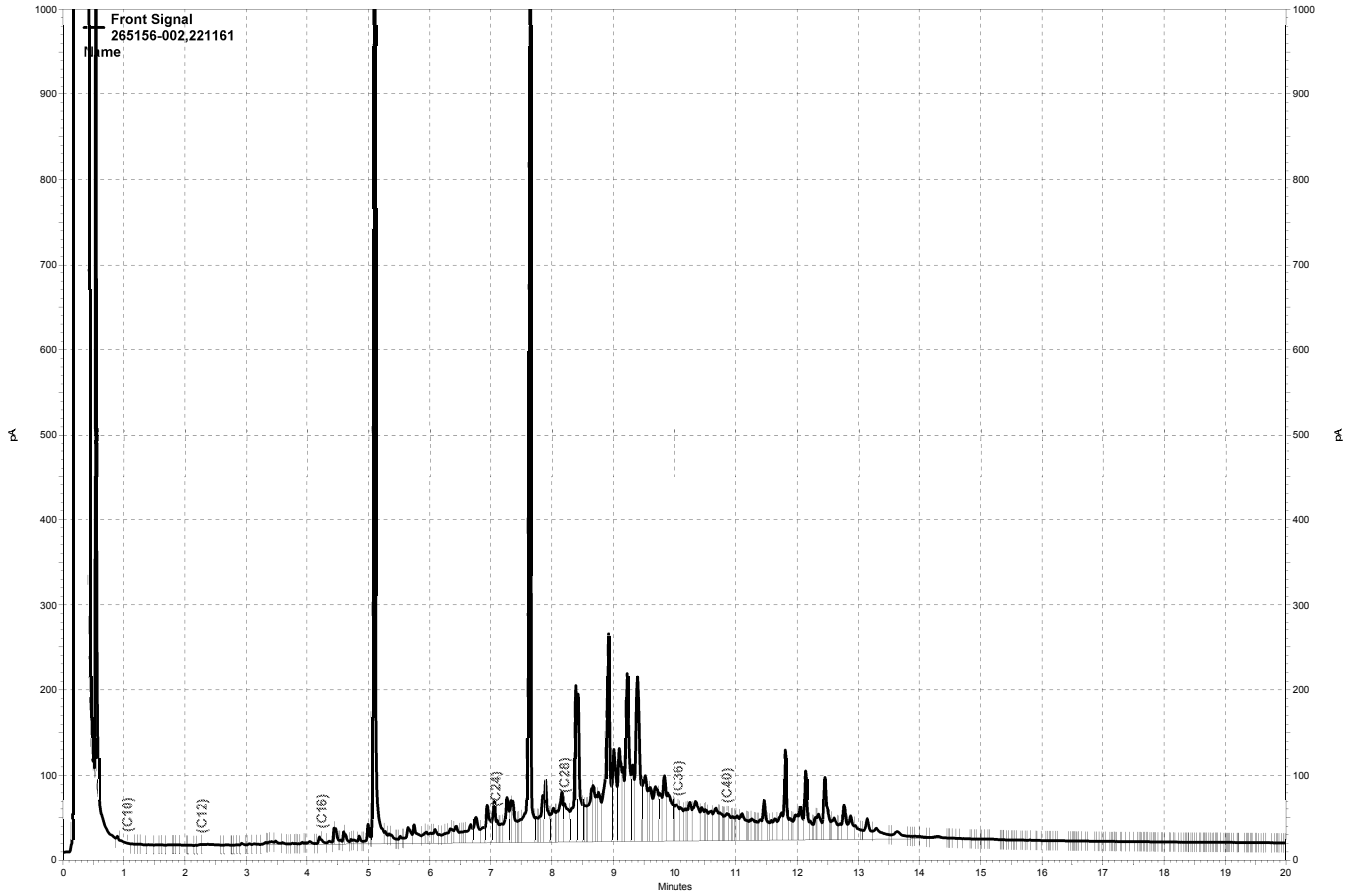

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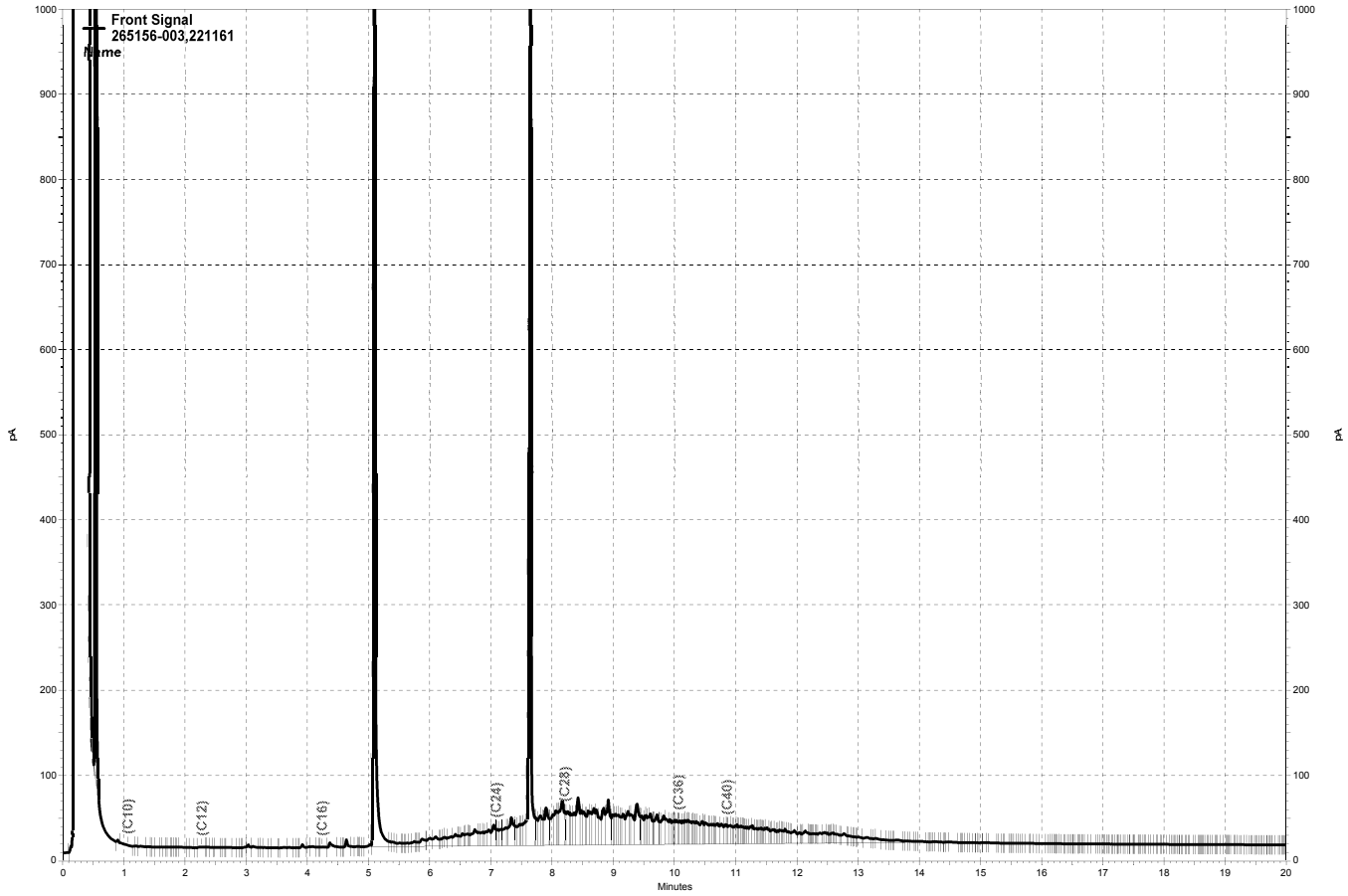

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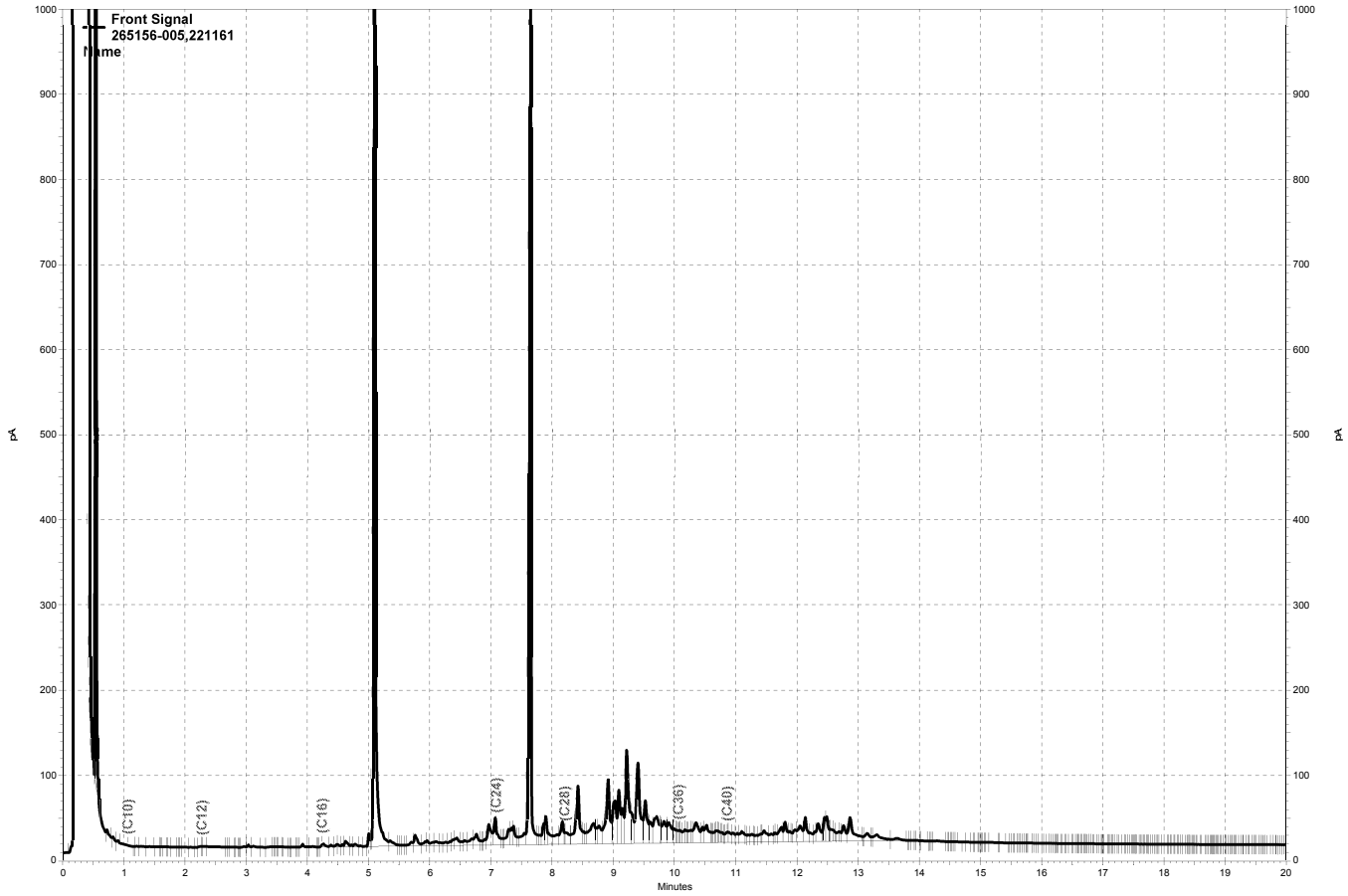

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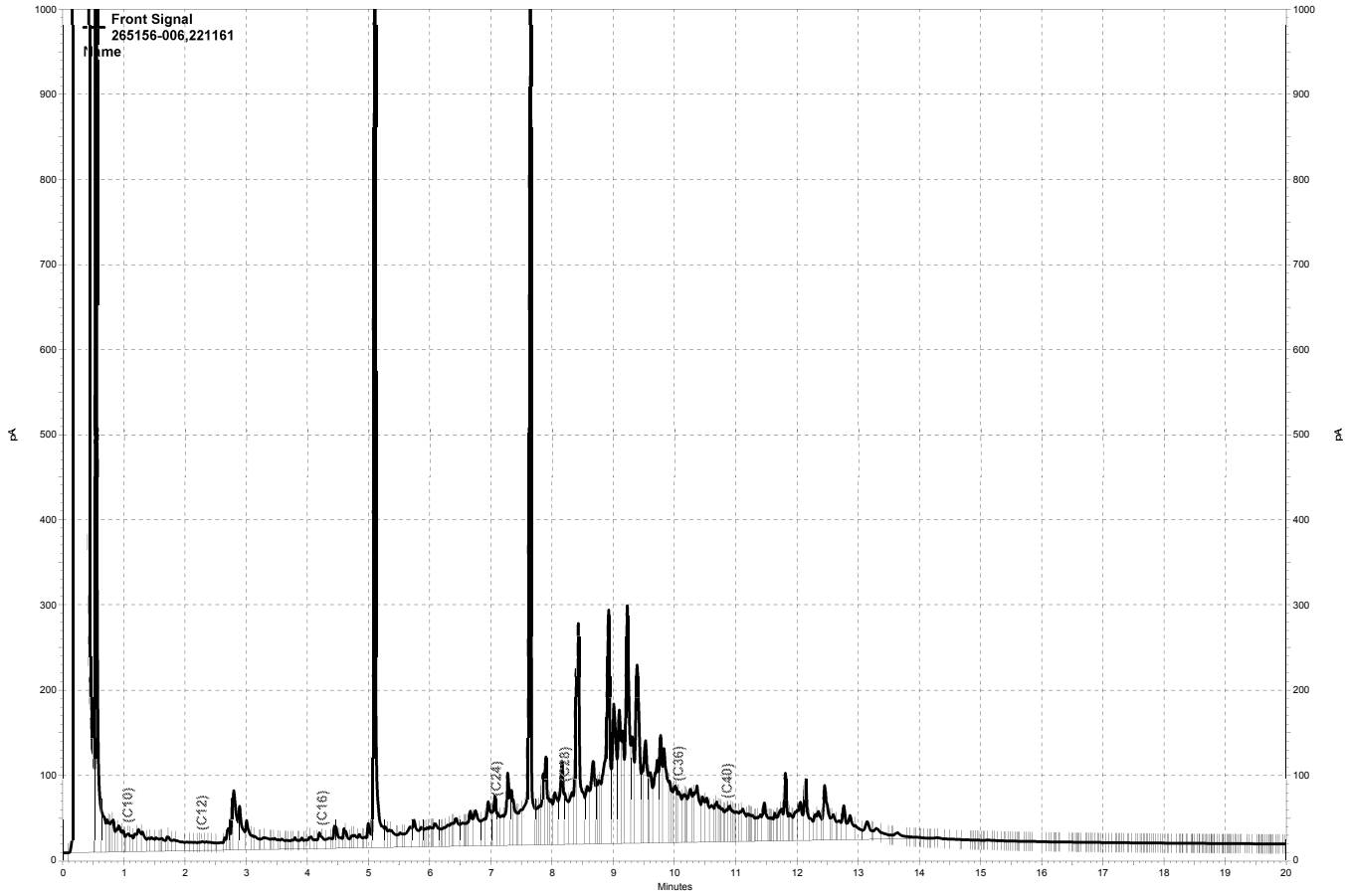

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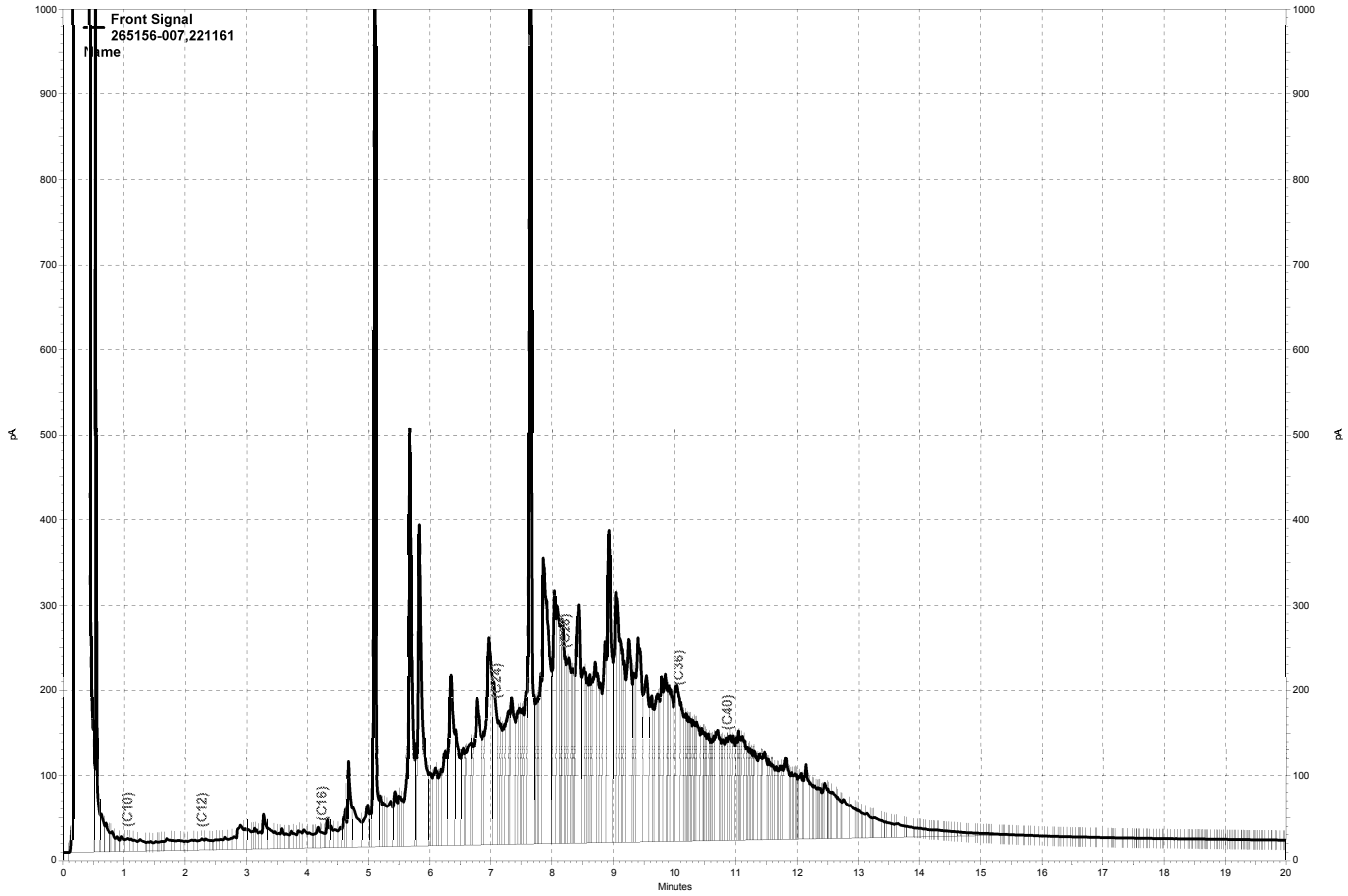

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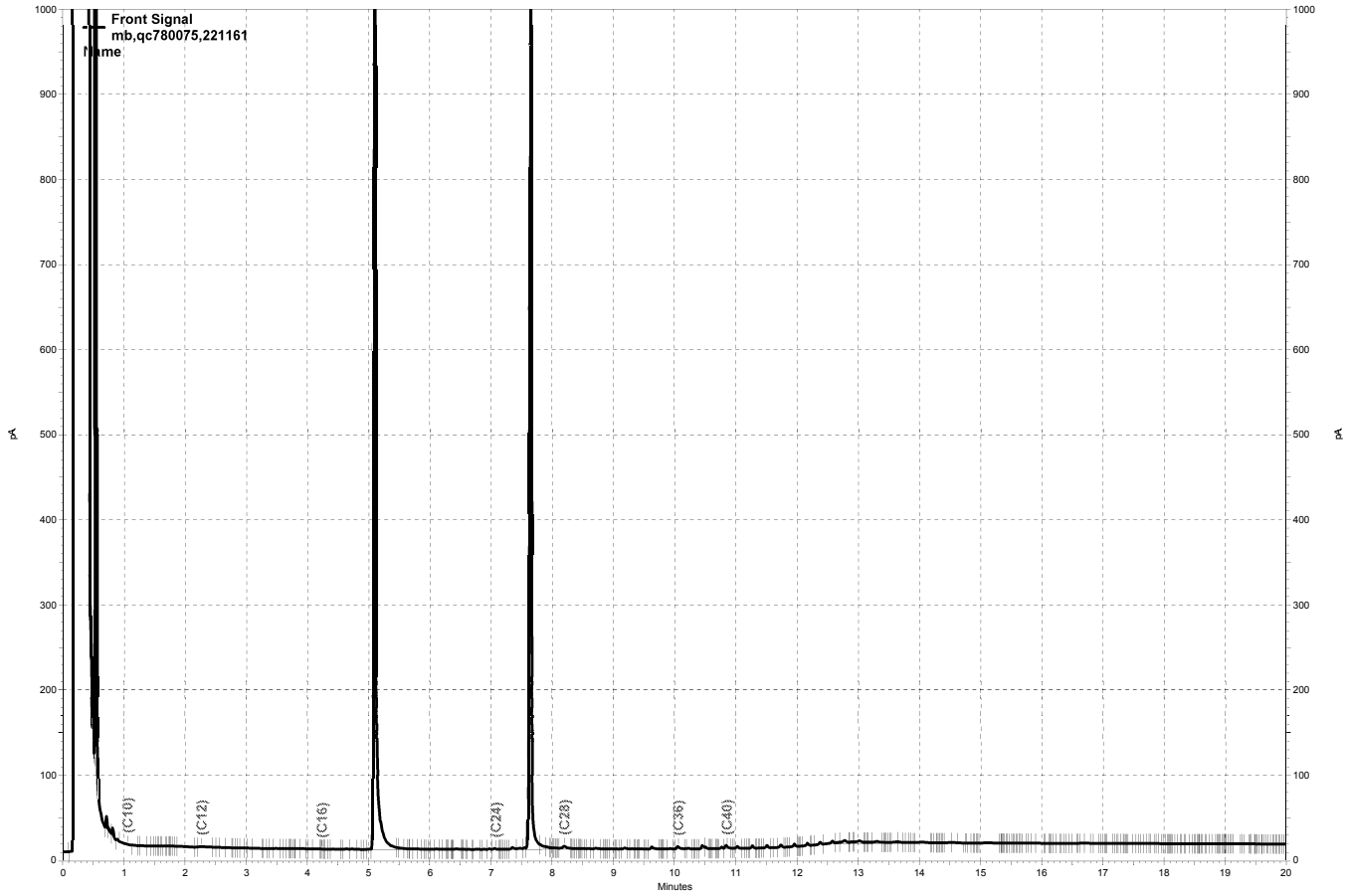

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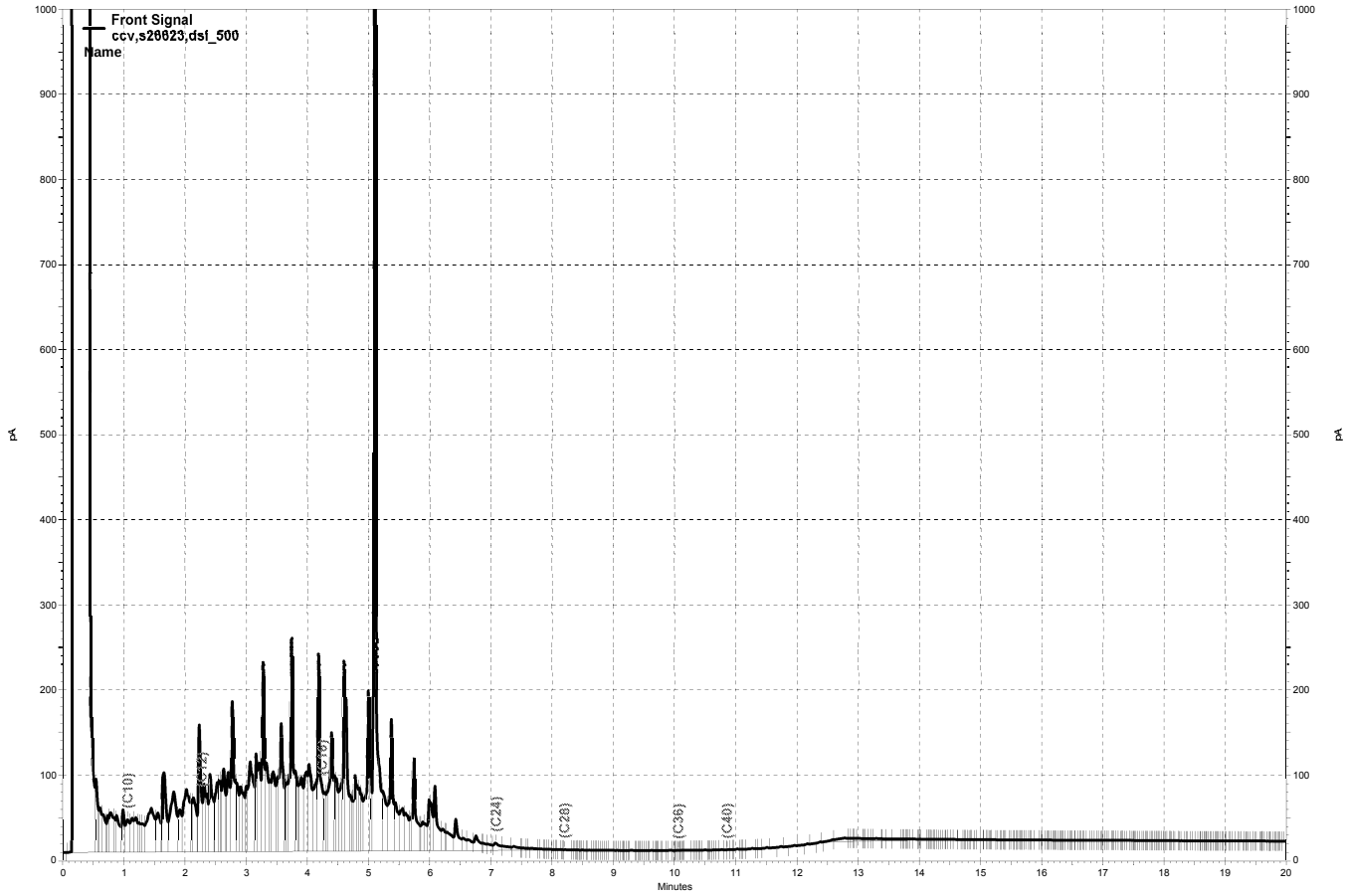

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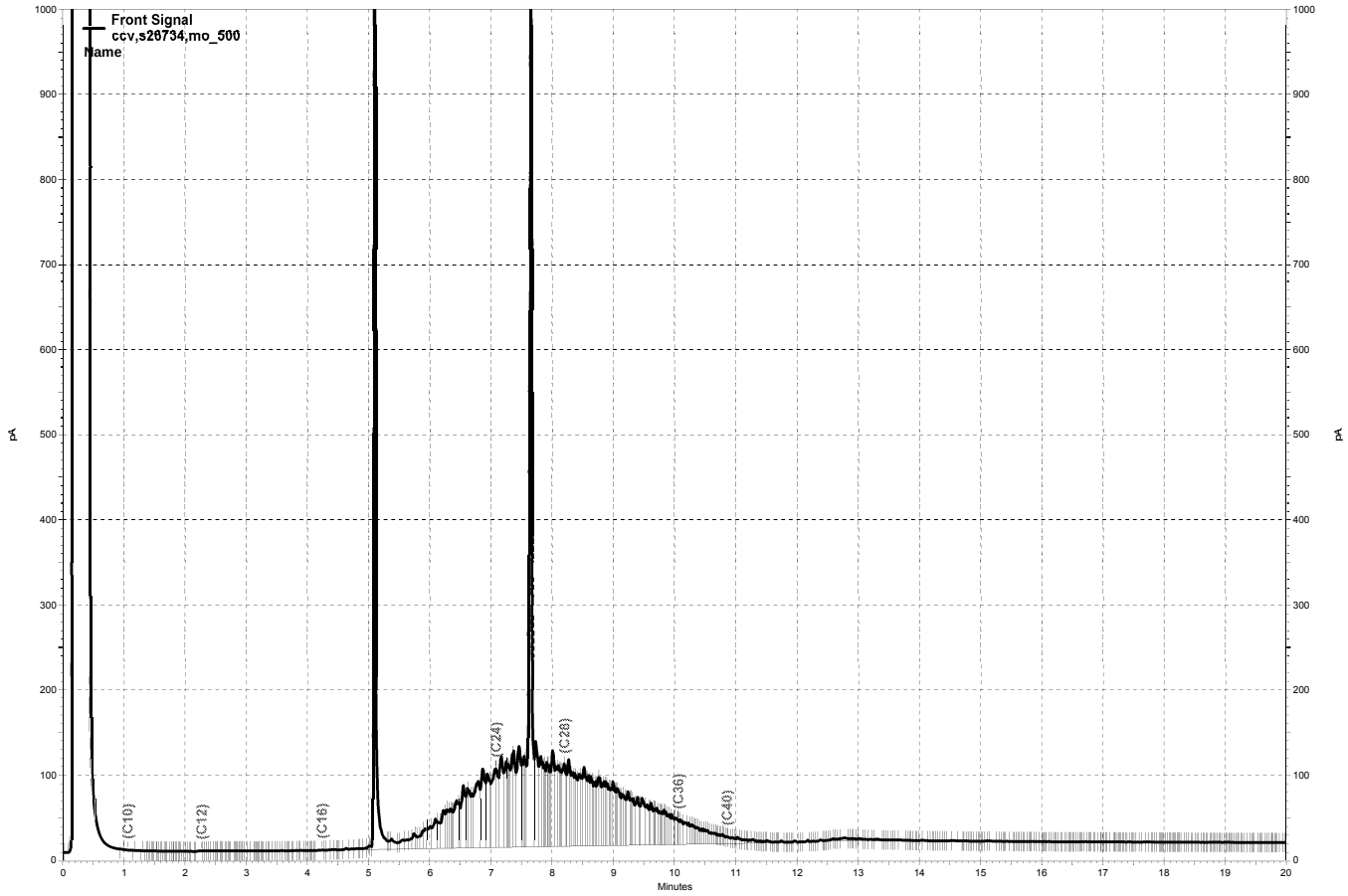

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-1SW-1.2	Batch#:	221180
Lab ID:	265156-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	80
Phenol	ND	380	53
bis(2-Chloroethyl)ether	ND	380	61
2-Chlorophenol	ND	380	62
1,3-Dichlorobenzene	ND	380	43
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	57
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	71
bis(2-Chloroisopropyl) ether	ND	380	94
4-Methylphenol	ND	380	59
N-Nitroso-di-n-propylamine	ND	380	56
Hexachloroethane	ND	380	29
Nitrobenzene	ND	380	17
Isophorone	ND	380	11
2-Nitrophenol	ND	760	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	15
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	76	12
Hexachlorocyclopentadiene	ND	760	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	760	12
Dimethylphthalate	ND	380	14
Acenaphthylene	ND	76	14
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	760	9.2
Acenaphthene	ND	76	13
2,4-Dinitrophenol	ND	760	110
4-Nitrophenol	ND	760	59
Dibenzofuran	ND	380	16
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	15
Fluorene	ND	76	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	760	11
4,6-Dinitro-2-methylphenol	ND	760	79
N-Nitrosodiphenylamine	ND	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	14
Hexachlorobenzene	ND	380	16

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-1SW-1.2	Batch#:	221180
Lab ID:	265156-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	760	70
Phenanthrene	30 J	76	17
Anthracene	ND	76	14
Di-n-butylphthalate	ND	380	17
Fluoranthene	61 J	76	15
Pyrene	77	76	13
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	760	13
Benzo(a)anthracene	26 J	76	13
Chrysene	38 J	76	16
bis(2-Ethylhexyl)phthalate	ND	380	17
Di-n-octylphthalate	ND	380	19
Benzo(b)fluoranthene	52 J	76	16
Benzo(k)fluoranthene	ND	76	20
Benzo(a)pyrene	32 J	76	18
Indeno(1,2,3-cd)pyrene	28 J	76	17
Dibenz(a,h)anthracene	ND	76	17
Benzo(g,h,i)perylene	37 J	76	15

Surrogate	%REC	Limits
2-Fluorophenol	52	25-120
Phenol-d5	64	36-120
2,4,6-Tribromophenol	68	27-120
Nitrobenzene-d5	71	44-120
2-Fluorobiphenyl	70	47-120
Terphenyl-d14	66	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-2SW-2.0	Batch#:	221180
Lab ID:	265156-002	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	410	87
Phenol	ND	410	57
bis(2-Chloroethyl)ether	ND	410	66
2-Chlorophenol	ND	410	68
1,3-Dichlorobenzene	ND	410	46
1,4-Dichlorobenzene	ND	410	18
Benzyl alcohol	ND	410	62
1,2-Dichlorobenzene	ND	410	41
2-Methylphenol	ND	410	76
bis(2-Chloroisopropyl) ether	ND	410	100
4-Methylphenol	ND	410	63
N-Nitroso-di-n-propylamine	ND	410	61
Hexachloroethane	ND	410	32
Nitrobenzene	ND	410	18
Isophorone	ND	410	12
2-Nitrophenol	ND	820	13
2,4-Dimethylphenol	ND	410	17
Benzoic acid	ND	2,000	310
bis(2-Chloroethoxy)methane	ND	410	14
2,4-Dichlorophenol	ND	410	15
1,2,4-Trichlorobenzene	ND	410	16
Naphthalene	ND	82	16
4-Chloroaniline	ND	410	20
Hexachlorobutadiene	ND	410	17
4-Chloro-3-methylphenol	ND	410	17
2-Methylnaphthalene	ND	82	13
Hexachlorocyclopentadiene	ND	820	15
2,4,6-Trichlorophenol	ND	410	17
2,4,5-Trichlorophenol	ND	410	16
2-Chloronaphthalene	ND	410	13
2-Nitroaniline	ND	820	13
Dimethylphthalate	ND	410	15
Acenaphthylene	ND	82	16
2,6-Dinitrotoluene	ND	410	15
3-Nitroaniline	ND	820	10
Acenaphthene	ND	82	14
2,4-Dinitrophenol	ND	820	120
4-Nitrophenol	ND	820	64
Dibenzofuran	ND	410	18
2,4-Dinitrotoluene	ND	410	12
Diethylphthalate	ND	410	17
Fluorene	ND	82	14
4-Chlorophenyl-phenylether	ND	410	15
4-Nitroaniline	ND	820	12
4,6-Dinitro-2-methylphenol	ND	820	85
N-Nitrosodiphenylamine	ND	410	17
Azobenzene	ND	410	17
4-Bromophenyl-phenylether	ND	410	16
Hexachlorobenzene	ND	410	17
Pentachlorophenol	ND	820	76

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-2SW-2.0	Batch#:	221180
Lab ID:	265156-002	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	82	18
Anthracene	ND	82	15
Di-n-butylphthalate	ND	410	18
Fluoranthene	ND	82	16
Pyrene	ND	82	14
Butylbenzylphthalate	ND	410	13
3,3'-Dichlorobenzidine	ND	820	14
Benzo(a)anthracene	ND	82	15
Chrysene	ND	82	18
bis(2-Ethylhexyl)phthalate	ND	410	18
Di-n-octylphthalate	ND	410	21
Benzo(b)fluoranthene	ND	82	17
Benzo(k)fluoranthene	ND	82	22
Benzo(a)pyrene	ND	82	19
Indeno(1,2,3-cd)pyrene	ND	82	18
Dibenz(a,h)anthracene	ND	82	18
Benzo(g,h,i)perylene	ND	82	16

Surrogate	%REC	Limits
2-Fluorophenol	44	25-120
Phenol-d5	55	36-120
2,4,6-Tribromophenol	72	27-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	63	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-3SW-1.2	Batch#:	221180
Lab ID:	265156-003	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 10%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	370	79
Phenol	ND	370	52
bis(2-Chloroethyl)ether	ND	370	61
2-Chlorophenol	ND	370	62
1,3-Dichlorobenzene	ND	370	42
1,4-Dichlorobenzene	ND	370	17
Benzyl alcohol	ND	370	57
1,2-Dichlorobenzene	ND	370	37
2-Methylphenol	ND	370	70
bis(2-Chloroisopropyl) ether	ND	370	93
4-Methylphenol	ND	370	58
N-Nitroso-di-n-propylamine	ND	370	56
Hexachloroethane	ND	370	29
Nitrobenzene	ND	370	16
Isophorone	ND	370	11
2-Nitrophenol	ND	750	11
2,4-Dimethylphenol	ND	370	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	370	13
2,4-Dichlorophenol	ND	370	14
1,2,4-Trichlorobenzene	ND	370	14
Naphthalene	ND	75	14
4-Chloroaniline	ND	370	18
Hexachlorobutadiene	ND	370	15
4-Chloro-3-methylphenol	ND	370	16
2-Methylnaphthalene	ND	75	12
Hexachlorocyclopentadiene	ND	750	14
2,4,6-Trichlorophenol	ND	370	16
2,4,5-Trichlorophenol	ND	370	15
2-Chloronaphthalene	ND	370	11
2-Nitroaniline	ND	750	12
Dimethylphthalate	ND	370	14
Acenaphthylene	ND	75	14
2,6-Dinitrotoluene	ND	370	14
3-Nitroaniline	ND	750	9.1
Acenaphthene	ND	75	13
2,4-Dinitrophenol	ND	750	110
4-Nitrophenol	ND	750	58
Dibenzofuran	ND	370	16
2,4-Dinitrotoluene	ND	370	11
Diethylphthalate	ND	370	15
Fluorene	ND	75	13
4-Chlorophenyl-phenylether	ND	370	14
4-Nitroaniline	ND	750	11
4,6-Dinitro-2-methylphenol	ND	750	78
N-Nitrosodiphenylamine	ND	370	15
Azobenzene	ND	370	16
4-Bromophenyl-phenylether	ND	370	14
Hexachlorobenzene	ND	370	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-3SW-1.2	Batch#:	221180
Lab ID:	265156-003	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	750	69
Phenanthrene	ND	75	17
Anthracene	ND	75	14
Di-n-butylphthalate	ND	370	16
Fluoranthene	25 J	75	15
Pyrene	28 J	75	13
Butylbenzylphthalate	ND	370	12
3,3'-Dichlorobenzidine	ND	750	12
Benzo(a)anthracene	ND	75	13
Chrysene	ND	75	16
bis(2-Ethylhexyl)phthalate	ND	370	16
Di-n-octylphthalate	ND	370	19
Benzo(b)fluoranthene	16 J	75	16
Benzo(k)fluoranthene	ND	75	20
Benzo(a)pyrene	ND	75	17
Indeno(1,2,3-cd)pyrene	ND	75	17
Dibenz(a,h)anthracene	ND	75	16
Benzo(g,h,i)perylene	15 J	75	15

Surrogate	%REC	Limits
2-Fluorophenol	43	25-120
Phenol-d5	55	36-120
2,4,6-Tribromophenol	67	27-120
Nitrobenzene-d5	60	44-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	66	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-1B-4.0	Batch#:	221180
Lab ID:	265156-004	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	80
Phenol	ND	380	53
bis(2-Chloroethyl)ether	ND	380	62
2-Chlorophenol	ND	380	63
1,3-Dichlorobenzene	ND	380	43
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	58
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	71
bis(2-Chloroisopropyl) ether	ND	380	95
4-Methylphenol	ND	380	59
N-Nitroso-di-n-propylamine	ND	380	57
Hexachloroethane	ND	380	29
Nitrobenzene	ND	380	17
Isophorone	ND	380	11
2-Nitrophenol	ND	760	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	76	15
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	16
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	76	12
Hexachlorocyclopentadiene	ND	760	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	760	12
Dimethylphthalate	ND	380	14
Acenaphthylene	ND	76	14
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	760	9.3
Acenaphthene	ND	76	13
2,4-Dinitrophenol	ND	760	110
4-Nitrophenol	ND	760	59
Dibenzofuran	ND	380	16
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	15
Fluorene	ND	76	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	760	11
4,6-Dinitro-2-methylphenol	ND	760	79
N-Nitrosodiphenylamine	ND	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	14
Hexachlorobenzene	ND	380	16
Pentachlorophenol	ND	760	71

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-1B-4.0	Batch#:	221180
Lab ID:	265156-004	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	76	17
Anthracene	ND	76	14
Di-n-butylphthalate	ND	380	17
Fluoranthene	ND	76	15
Pyrene	ND	76	13
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	760	13
Benzo(a)anthracene	ND	76	13
Chrysene	ND	76	17
bis(2-Ethylhexyl)phthalate	ND	380	17
Di-n-octylphthalate	ND	380	19
Benzo(b)fluoranthene	ND	76	16
Benzo(k)fluoranthene	ND	76	20
Benzo(a)pyrene	ND	76	18
Indeno(1,2,3-cd)pyrene	ND	76	17
Dibenz(a,h)anthracene	ND	76	17
Benzo(g,h,i)perylene	ND	76	15

Surrogate	%REC	Limits
2-Fluorophenol	57	25-120
Phenol-d5	70	36-120
2,4,6-Tribromophenol	68	27-120
Nitrobenzene-d5	81	44-120
2-Fluorobiphenyl	77	47-120
Terphenyl-d14	75	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-2B-2.4	Batch#:	221180
Lab ID:	265156-005	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	410	86
Phenol	ND	410	57
bis(2-Chloroethyl)ether	ND	410	66
2-Chlorophenol	ND	410	67
1,3-Dichlorobenzene	ND	410	46
1,4-Dichlorobenzene	ND	410	18
Benzyl alcohol	ND	410	62
1,2-Dichlorobenzene	ND	410	41
2-Methylphenol	ND	410	76
bis(2-Chloroisopropyl) ether	ND	410	100
4-Methylphenol	ND	410	63
N-Nitroso-di-n-propylamine	ND	410	61
Hexachloroethane	ND	410	31
Nitrobenzene	ND	410	18
Isophorone	ND	410	12
2-Nitrophenol	ND	810	12
2,4-Dimethylphenol	ND	410	17
Benzoic acid	ND	2,000	300
bis(2-Chloroethoxy)methane	ND	410	14
2,4-Dichlorophenol	ND	410	15
1,2,4-Trichlorobenzene	ND	410	16
Naphthalene	ND	81	16
4-Chloroaniline	ND	410	20
Hexachlorobutadiene	ND	410	17
4-Chloro-3-methylphenol	ND	410	17
2-Methylnaphthalene	ND	81	13
Hexachlorocyclopentadiene	ND	810	15
2,4,6-Trichlorophenol	ND	410	17
2,4,5-Trichlorophenol	ND	410	16
2-Chloronaphthalene	ND	410	12
2-Nitroaniline	ND	810	13
Dimethylphthalate	ND	410	15
Acenaphthylene	ND	81	15
2,6-Dinitrotoluene	ND	410	15
3-Nitroaniline	ND	810	9.9
Acenaphthene	ND	81	14
2,4-Dinitrophenol	ND	810	110
4-Nitrophenol	ND	810	63
Dibenzofuran	ND	410	17
2,4-Dinitrotoluene	ND	410	12
Diethylphthalate	ND	410	16
Fluorene	ND	81	14
4-Chlorophenyl-phenylether	ND	410	15
4-Nitroaniline	ND	810	12
4,6-Dinitro-2-methylphenol	ND	810	84
N-Nitrosodiphenylamine	ND	410	16
Azobenzene	ND	410	17
4-Bromophenyl-phenylether	ND	410	15
Hexachlorobenzene	ND	410	17
Pentachlorophenol	ND	810	75

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-2B-2.4	Batch#:	221180
Lab ID:	265156-005	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	81	18
Anthracene	ND	81	15
Di-n-butylphthalate	ND	410	18
Fluoranthene	ND	81	16
Pyrene	ND	81	14
Butylbenzylphthalate	ND	410	13
3,3'-Dichlorobenzidine	ND	810	13
Benzo(a)anthracene	ND	81	14
Chrysene	ND	81	18
bis(2-Ethylhexyl)phthalate	ND	410	18
Di-n-octylphthalate	ND	410	21
Benzo(b)fluoranthene	ND	81	17
Benzo(k)fluoranthene	ND	81	22
Benzo(a)pyrene	ND	81	19
Indeno(1,2,3-cd)pyrene	ND	81	18
Dibenz(a,h)anthracene	ND	81	18
Benzo(g,h,i)perylene	ND	81	16

Surrogate	%REC	Limits
2-Fluorophenol	52	25-120
Phenol-d5	62	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	73	44-120
2-Fluorobiphenyl	71	47-120
Terphenyl-d14	67	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-3B-2.4	Batch#:	221180
Lab ID:	265156-006	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	400	84
Phenol	ND	400	56
bis(2-Chloroethyl)ether	ND	400	65
2-Chlorophenol	ND	400	66
1,3-Dichlorobenzene	ND	400	45
1,4-Dichlorobenzene	ND	400	18
Benzyl alcohol	ND	400	61
1,2-Dichlorobenzene	ND	400	40
2-Methylphenol	ND	400	75
bis(2-Chloroisopropyl) ether	ND	400	100
4-Methylphenol	ND	400	62
N-Nitroso-di-n-propylamine	ND	400	60
Hexachloroethane	ND	400	31
Nitrobenzene	ND	400	18
Isophorone	ND	400	12
2-Nitrophenol	ND	800	12
2,4-Dimethylphenol	ND	400	17
Benzoic acid	ND	2,000	300
bis(2-Chloroethoxy)methane	ND	400	13
2,4-Dichlorophenol	ND	400	15
1,2,4-Trichlorobenzene	ND	400	15
Naphthalene	ND	80	15
4-Chloroaniline	ND	400	20
Hexachlorobutadiene	ND	400	16
4-Chloro-3-methylphenol	ND	400	17
2-Methylnaphthalene	ND	80	13
Hexachlorocyclopentadiene	ND	800	15
2,4,6-Trichlorophenol	ND	400	17
2,4,5-Trichlorophenol	ND	400	16
2-Chloronaphthalene	ND	400	12
2-Nitroaniline	ND	800	13
Dimethylphthalate	ND	400	15
Acenaphthylene	ND	80	15
2,6-Dinitrotoluene	ND	400	15
3-Nitroaniline	ND	800	9.7
Acenaphthene	ND	80	13
2,4-Dinitrophenol	ND	800	110
4-Nitrophenol	ND	800	63
Dibenzofuran	ND	400	17
2,4-Dinitrotoluene	ND	400	12
Diethylphthalate	ND	400	16
Fluorene	ND	80	14
4-Chlorophenyl-phenylether	ND	400	15
4-Nitroaniline	ND	800	11
4,6-Dinitro-2-methylphenol	ND	800	83
N-Nitrosodiphenylamine	ND	400	16
Azobenzene	ND	400	17
4-Bromophenyl-phenylether	ND	400	15
Hexachlorobenzene	ND	400	16
Pentachlorophenol	ND	800	74

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-3B-2.4	Batch#:	221180
Lab ID:	265156-006	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	80	18
Anthracene	ND	80	15
Di-n-butylphthalate	ND	400	17
Fluoranthene	ND	80	16
Pyrene	ND	80	14
Butylbenzylphthalate	ND	400	13
3,3'-Dichlorobenzidine	ND	800	13
Benzo(a)anthracene	ND	80	14
Chrysene	ND	80	17
bis(2-Ethylhexyl)phthalate	ND	400	18
Di-n-octylphthalate	ND	400	20
Benzo(b)fluoranthene	ND	80	17
Benzo(k)fluoranthene	ND	80	21
Benzo(a)pyrene	ND	80	19
Indeno(1,2,3-cd)pyrene	ND	80	18
Dibenz(a,h)anthracene	ND	80	17
Benzo(g,h,i)perylene	ND	80	16

Surrogate	%REC	Limits
2-Fluorophenol	43	25-120
Phenol-d5	54	36-120
2,4,6-Tribromophenol	76	27-120
Nitrobenzene-d5	61	44-120
2-Fluorobiphenyl	60	47-120
Terphenyl-d14	65	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-4SW-1.2	Batch#:	221180
Lab ID:	265156-007	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Moisture: 9%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	360	76
Phenol	ND	360	50
bis(2-Chloroethyl)ether	ND	360	58
2-Chlorophenol	ND	360	60
1,3-Dichlorobenzene	ND	360	41
1,4-Dichlorobenzene	ND	360	16
Benzyl alcohol	ND	360	55
1,2-Dichlorobenzene	ND	360	36
2-Methylphenol	ND	360	67
bis(2-Chloroisopropyl) ether	ND	360	90
4-Methylphenol	ND	360	56
N-Nitroso-di-n-propylamine	ND	360	54
Hexachloroethane	ND	360	28
Nitrobenzene	ND	360	16
Isophorone	ND	360	11
2-Nitrophenol	ND	720	11
2,4-Dimethylphenol	ND	360	15
Benzoic acid	ND	1,800	270
bis(2-Chloroethoxy)methane	ND	360	12
2,4-Dichlorophenol	ND	360	14
1,2,4-Trichlorobenzene	ND	360	14
Naphthalene	14 J	72	14
4-Chloroaniline	ND	360	18
Hexachlorobutadiene	ND	360	15
4-Chloro-3-methylphenol	ND	360	15
2-Methylnaphthalene	ND	72	12
Hexachlorocyclopentadiene	ND	720	13
2,4,6-Trichlorophenol	ND	360	15
2,4,5-Trichlorophenol	ND	360	14
2-Chloronaphthalene	ND	360	11
2-Nitroaniline	ND	720	11
Dimethylphthalate	ND	360	13
Acenaphthylene	86	72	14
2,6-Dinitrotoluene	ND	360	14
3-Nitroaniline	ND	720	8.8
Acenaphthene	ND	72	12
2,4-Dinitrophenol	ND	720	100
4-Nitrophenol	ND	720	56
Dibenzofuran	ND	360	16
2,4-Dinitrotoluene	ND	360	11
Diethylphthalate	ND	360	15
Fluorene	ND	72	13
4-Chlorophenyl-phenylether	ND	360	13
4-Nitroaniline	ND	720	10
4,6-Dinitro-2-methylphenol	ND	720	75
N-Nitrosodiphenylamine	ND	360	15
Azobenzene	ND	360	15
4-Bromophenyl-phenylether	ND	360	14
Hexachlorobenzene	ND	360	15

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-4SW-1.2	Batch#:	221180
Lab ID:	265156-007	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	720	67
Phenanthrene	340	72	16
Anthracene	48 J	72	13
Di-n-butylphthalate	54 J	360	16
Fluoranthene	820	72	14
Pyrene	1,000	72	13
Butylbenzylphthalate	ND	360	12
3,3'-Dichlorobenzidine	ND	720	12
Benzo(a)anthracene	310	72	13
Chrysene	420	72	16
bis(2-Ethylhexyl)phthalate	ND	360	16
Di-n-octylphthalate	ND	360	18
Benzo(b)fluoranthene	620	72	15
Benzo(k)fluoranthene	190	72	19
Benzo(a)pyrene	410	72	17
Indeno(1,2,3-cd)pyrene	330	72	16
Dibenz(a,h)anthracene	50 J	72	16
Benzo(g,h,i)perylene	400	72	14

Surrogate	%REC	Limits
2-Fluorophenol	46	25-120
Phenol-d5	56	36-120
2,4,6-Tribromophenol	71	27-120
Nitrobenzene-d5	67	44-120
2-Fluorobiphenyl	65	47-120
Terphenyl-d14	61	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780154	Batch#:	221180
Matrix:	Soil	Prepared:	03/10/15
Units:	ug/Kg	Analyzed:	03/11/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	71
Phenol	ND	340	47
bis(2-Chloroethyl)ether	ND	340	54
2-Chlorophenol	ND	340	55
1,3-Dichlorobenzene	ND	340	38
1,4-Dichlorobenzene	ND	340	15
Benzyl alcohol	ND	340	51
1,2-Dichlorobenzene	ND	340	34
2-Methylphenol	ND	340	63
bis(2-Chloroisopropyl) ether	ND	340	84
4-Methylphenol	ND	340	52
N-Nitroso-di-n-propylamine	ND	340	50
Hexachloroethane	ND	340	26
Nitrobenzene	ND	340	15
Isophorone	ND	340	9.8
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	340	14
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	340	11
2,4-Dichlorophenol	ND	340	13
1,2,4-Trichlorobenzene	ND	340	13
Naphthalene	ND	67	13
4-Chloroaniline	ND	340	17
Hexachlorobutadiene	ND	340	14
4-Chloro-3-methylphenol	ND	340	14
2-Methylnaphthalene	ND	67	11
Hexachlorocyclopentadiene	ND	670	12
2,4,6-Trichlorophenol	ND	340	14
2,4,5-Trichlorophenol	ND	340	13
2-Chloronaphthalene	ND	340	10
2-Nitroaniline	ND	670	11
Dimethylphthalate	ND	340	13
Acenaphthylene	ND	67	13
2,6-Dinitrotoluene	ND	340	13
3-Nitroaniline	ND	670	8.2
Acenaphthene	ND	67	11
2,4-Dinitrophenol	ND	670	94
4-Nitrophenol	ND	670	52
Dibenzofuran	ND	340	14
2,4-Dinitrotoluene	ND	340	9.9
Diethylphthalate	ND	340	14
Fluorene	ND	67	12
4-Chlorophenyl-phenylether	ND	340	13
4-Nitroaniline	ND	670	9.6
4,6-Dinitro-2-methylphenol	ND	670	70
N-Nitrosodiphenylamine	ND	340	14
Azobenzene	ND	340	14
4-Bromophenyl-phenylether	ND	340	13
Hexachlorobenzene	ND	340	14
Pentachlorophenol	ND	670	62
Phenanthrene	ND	67	15
Anthracene	ND	67	12
Di-n-butylphthalate	ND	340	15

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780154	Batch#:	221180
Matrix:	Soil	Prepared:	03/10/15
Units:	ug/Kg	Analyzed:	03/11/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	13
Pyrene	ND	67	12
Butylbenzylphthalate	ND	340	11
3,3'-Dichlorobenzidine	ND	670	11
Benzo(a)anthracene	ND	67	12
Chrysene	ND	67	15
bis(2-Ethylhexyl)phthalate	ND	340	15
Di-n-octylphthalate	ND	340	17
Benzo(b)fluoranthene	ND	67	14
Benzo(k)fluoranthene	ND	67	18
Benzo(a)pyrene	ND	67	16
Indeno(1,2,3-cd)pyrene	ND	67	15
Dibenz(a,h)anthracene	ND	67	15
Benzo(g,h,i)perylene	ND	67	13

Surrogate	%REC	Limits
2-Fluorophenol	47	25-120
Phenol-d5	59	36-120
2,4,6-Tribromophenol	56	27-120
Nitrobenzene-d5	66	44-120
2-Fluorobiphenyl	68	47-120
Terphenyl-d14	72	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC780155	Batch#:	221180
Matrix:	Soil	Prepared:	03/10/15
Units:	ug/Kg	Analyzed:	03/11/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,683	2,512	94	42-120
2-Chlorophenol	2,683	2,490	93	45-120
1,4-Dichlorobenzene	2,683	2,443	91	48-120
N-Nitroso-di-n-propylamine	2,683	2,460	92	27-123
1,2,4-Trichlorobenzene	2,683	2,362	88	50-120
4-Chloro-3-methylphenol	2,683	2,914	109	59-120
Acenaphthene	1,006	1,013	101	53-120
4-Nitrophenol	2,683	2,953	110	47-120
2,4-Dinitrotoluene	2,683	2,546	95	55-120
Pentachlorophenol	2,683	2,633	98	32-120
Pyrene	1,006	1,103	110	52-120

Surrogate	%REC	Limits
2-Fluorophenol	73	25-120
Phenol-d5	89	36-120
2,4,6-Tribromophenol	99	27-120
Nitrobenzene-d5	85	44-120
2-Fluorobiphenyl	86	47-120
Terphenyl-d14	90	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-1SW-1.2	Batch#:	221180
MSS Lab ID:	265156-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	2.000		

Type: MS Moisture: 12%
Lab ID: QC780156

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<53.00	3,067	2,353	77	47-120
2-Chlorophenol	<62.49	3,067	2,379	78	44-120
1,4-Dichlorobenzene	<16.74	3,067	2,251	73	49-120
N-Nitroso-di-n-propylamine	<56.46	3,067	2,345	76	42-120
1,2,4-Trichlorobenzene	<14.66	3,067	2,235	73	54-120
4-Chloro-3-methylphenol	<16.04	3,067	2,848	93	55-120
Acenaphthene	<12.69	1,150	928.7	81	51-120
4-Nitrophenol	<59.16	3,067	2,939	96	36-120
2,4-Dinitrotoluene	<11.12	3,067	2,427	79	52-120
Pentachlorophenol	<70.20	3,067	1,863	61	14-120
Pyrene	76.99	1,150	1,207	98	46-124

Surrogate	%REC	Limits
2-Fluorophenol	63	25-120
Phenol-d5	77	36-120
2,4,6-Tribromophenol	87	27-120
Nitrobenzene-d5	75	44-120
2-Fluorobiphenyl	77	47-120
Terphenyl-d14	82	49-120

Type: MSD Moisture: 12%
Lab ID: QC780157

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,057	2,251	74	47-120	4	39
2-Chlorophenol	3,057	2,241	73	44-120	6	38
1,4-Dichlorobenzene	3,057	2,170	71	49-120	3	45
N-Nitroso-di-n-propylamine	3,057	2,202	72	42-120	6	40
1,2,4-Trichlorobenzene	3,057	2,179	71	54-120	2	38
4-Chloro-3-methylphenol	3,057	2,625	86	55-120	8	41
Acenaphthene	1,146	871.3	76	51-120	6	47
4-Nitrophenol	3,057	2,728	89	36-120	7	41
2,4-Dinitrotoluene	3,057	2,186	72	52-120	10	40
Pentachlorophenol	3,057	1,636	54	14-120	13	53
Pyrene	1,146	1,108	90	46-124	8	50

Surrogate	%REC	Limits
2-Fluorophenol	59	25-120
Phenol-d5	71	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	72	44-120
2-Fluorobiphenyl	71	47-120
Terphenyl-d14	73	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-1SW-1.2	Basis:	dry
Lab ID:	265156-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 12%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.3	0.56	0.18	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	5.9	0.28	0.093	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	140	0.28	0.055	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.41	0.11	0.021	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.87	0.28	0.018	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	19	0.28	0.024	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	11	0.28	0.022	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	59	0.29	0.097	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	210	0.28	0.082	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.22	0.020	0.0011	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	0.27 J	0.28	0.063	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	18	0.28	0.076	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.16	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.084	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.18	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	53	0.28	0.028	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	99	1.1	0.11	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-2SW-2.0	Basis:	dry
Lab ID:	265156-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.0	0.60	0.19	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	4.1	0.30	0.099	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	220	0.30	0.058	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.36	0.12	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.31	0.30	0.019	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	36	0.30	0.025	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	8.0	0.30	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	29	0.31	0.10	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	57	0.30	0.087	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.17	0.021	0.0012	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	0.25 J	0.30	0.067	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	38	0.30	0.081	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.17	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.089	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.19	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	28	0.30	0.030	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	55	1.2	0.12	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-3SW-1.2	Basis:	dry
Lab ID:	265156-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 10%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.6	0.52	0.16	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	9.0	0.26	0.086	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	170	0.26	0.051	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.37	0.10	0.020	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.88	0.26	0.017	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	6.3	0.26	0.022	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	8.2	0.26	0.020	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	38	0.27	0.090	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	52	0.26	0.076	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.063	0.019	0.0011	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	0.73	0.26	0.058	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	5.1	0.26	0.070	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.52	0.15	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.078	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.52	0.17	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	39	0.26	0.026	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	67	1.0	0.10	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-1B-4.0	Basis:	dry
Lab ID:	265156-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 12%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.7	0.54	0.17	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	3.1	0.27	0.090	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	61	0.27	0.053	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.31	0.11	0.021	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.31	0.27	0.017	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	44	0.27	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	3.2	0.27	0.021	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	7.0	0.28	0.094	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	3.9	0.27	0.079	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.023	0.020	0.0011	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	ND	0.27	0.061	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	51	0.27	0.073	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.54	0.16	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.27	0.081	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.54	0.18	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	33	0.27	0.027	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	26	1.1	0.11	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-2B-2.4	Basis:	dry
Lab ID:	265156-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.48 J	0.60	0.19	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	2.1	0.30	0.099	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	160	0.30	0.058	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.28	0.12	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.19 J	0.30	0.019	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	27	0.30	0.025	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	5.4	0.30	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	15	0.31	0.10	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	4.5	0.30	0.087	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.027	0.019	0.0011	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	ND	0.30	0.067	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	26	0.30	0.081	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.60	0.17	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.30	0.089	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.60	0.19	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	19	0.30	0.030	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	22	1.2	0.12	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-3B-2.4	Basis:	dry
Lab ID:	265156-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/09/15
Units:	mg/Kg	Received:	03/09/15

Moisture: 17%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.7	0.56	0.18	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	4.3	0.28	0.093	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	180	0.28	0.054	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.37	0.11	0.021	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	0.41	0.28	0.018	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	39	0.28	0.023	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	7.9	0.28	0.022	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	25	0.29	0.096	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	60	0.28	0.081	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.13	0.020	0.0011	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	0.36	0.28	0.063	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	52	0.28	0.076	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	ND	0.56	0.16	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.083	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.18	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	26	0.28	0.028	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	43	1.1	0.11	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265156	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-4SW-1.2	Basis:	dry
Lab ID:	265156-007	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	mg/Kg		

Moisture: 9%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.0	0.53	0.17	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Arsenic	8.3	0.26	0.088	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Barium	910	26	5.1	100.0	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Beryllium	0.22	0.11	0.020	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cadmium	2.1	0.26	0.017	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Chromium	720	26	2.2	100.0	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Cobalt	27	0.26	0.020	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Copper	100	0.27	0.091	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Lead	24,000	26	7.7	100.0	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Mercury	0.56	0.018	0.0010	1.000	221282	03/13/15	03/13/15	METHOD	EPA 7471A
Molybdenum	2.9	0.26	0.059	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Nickel	27	0.26	0.072	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Selenium	0.98	0.53	0.15	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.079	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Thallium	ND	0.53	0.17	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Vanadium	71	0.26	0.026	1.000	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B
Zinc	1,800	110	10	100.0	221209	03/11/15	03/11/15	EPA 3050B	EPA 6010B

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780260	Batch#:	221209
Matrix:	Soil	Prepared:	03/11/15
Units:	mg/Kg	Analyzed:	03/11/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.16
Arsenic	ND	0.25	0.083
Barium	ND	0.25	0.049
Beryllium	ND	0.10	0.019
Cadmium	ND	0.25	0.016
Chromium	ND	0.25	0.021
Cobalt	ND	0.25	0.019
Copper	ND	0.26	0.086
Lead	ND	0.25	0.073
Molybdenum	ND	0.25	0.056
Nickel	ND	0.25	0.068
Selenium	ND	0.50	0.15
Silver	ND	0.25	0.075
Thallium	ND	0.50	0.16
Vanadium	ND	0.25	0.025
Zinc	0.19 J	1.0	0.098

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221209
Units:	mg/Kg	Prepared:	03/11/15
Diln Fac:	5.000	Analyzed:	03/11/15

Type: BS Lab ID: QC780261

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	47.67	95	80-120
Arsenic	50.00	46.06	92	80-120
Barium	50.00	47.28	95	80-120
Beryllium	50.00	45.46	91	80-120
Cadmium	50.00	47.77	96	80-120
Chromium	50.00	46.36	93	80-120
Cobalt	50.00	45.04	90	80-120
Copper	50.00	44.39	89	80-120
Lead	50.00	45.88	92	80-120
Molybdenum	50.00	47.29	95	80-120
Nickel	50.00	46.28	93	80-120
Selenium	50.00	46.91	94	80-120
Silver	50.00	44.87	90	80-120
Thallium	50.00	46.18	92	80-120
Vanadium	50.00	48.70	97	80-120
Zinc	50.00	47.35	95	80-120

Type: BSD Lab ID: QC780262

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	52.46	105	80-120	10	20
Arsenic	50.00	51.24	102	80-120	11	20
Barium	50.00	51.60	103	80-120	9	20
Beryllium	50.00	49.72	99	80-120	9	20
Cadmium	50.00	52.32	105	80-120	9	20
Chromium	50.00	50.53	101	80-120	9	20
Cobalt	50.00	49.34	99	80-120	9	20
Copper	50.00	48.62	97	80-120	9	20
Lead	50.00	50.85	102	80-120	10	20
Molybdenum	50.00	51.99	104	80-120	9	20
Nickel	50.00	50.91	102	80-120	10	20
Selenium	50.00	51.87	104	80-120	10	20
Silver	50.00	48.90	98	80-120	9	20
Thallium	50.00	50.41	101	80-120	9	20
Vanadium	50.00	53.11	106	80-120	9	20
Zinc	50.00	51.98	104	80-120	9	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	TRENCH2-1SW-1.2	Batch#:	221209
MSS Lab ID:	265156-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	mg/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/11/15
Diln Fac:	5.000		

Type: MS Moisture: 12%
Lab ID: QC780263

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	5.342	56.26	22.24	30	15-120
Arsenic	5.928	56.26	57.25	91	69-120
Barium	135.6	56.26	203.5	121	35-154
Beryllium	0.4131	56.26	51.33	91	75-120
Cadmium	0.8670	56.26	54.03	94	71-120
Chromium	19.40	56.26	83.48	114	57-133
Cobalt	11.02	56.26	61.23	89	56-125
Copper	58.87	56.26	137.4	140	54-144
Lead	209.0	56.26	312.1	183 *	53-125
Molybdenum	0.2682	56.26	51.90	92	66-120
Nickel	17.88	56.26	82.45	115	44-141
Selenium	<0.1646	56.26	47.49	84	61-120
Silver	<0.08411	56.26	48.67	87	69-120
Thallium	<0.1834	56.26	46.81	83	59-120
Vanadium	52.82	56.26	111.3	104	52-144
Zinc	98.83	56.26	156.9	103	45-145

Type: MSD Moisture: 12%
Lab ID: QC780264

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	54.63	23.73	34	15-120	9	41
Arsenic	54.63	52.15	85	69-120	7	35
Barium	54.63	206.3	130	35-154	2	36
Beryllium	54.63	48.33	88	75-120	3	20
Cadmium	54.63	50.89	92	71-120	3	25
Chromium	54.63	69.37	91	57-133	16	33
Cobalt	54.63	55.88	82	56-125	7	36
Copper	54.63	101.6	78	54-144	29	38
Lead	54.63	287.0	143 *	53-125	8	42
Molybdenum	54.63	46.56	85	66-120	8	20
Nickel	54.63	65.33	87	44-141	21	39
Selenium	54.63	45.93	84	61-120	0	33
Silver	54.63	46.05	84	69-120	3	22
Thallium	54.63	45.71	84	59-120	1	27
Vanadium	54.63	110.6	106	52-144	1	29
Zinc	54.63	131.5	60	45-145	17	39

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221282
Lab ID:	QC780530	Prepared:	03/13/15
Matrix:	Soil	Analyzed:	03/13/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	221282
Matrix:	Soil	Prepared:	03/13/15
Units:	mg/Kg	Analyzed:	03/13/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC780531	0.2083	0.2126	102	80-120		
BSD	QC780532	0.2083	0.2220	107	80-120	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	TRENCH2-1SW-1.2	Batch#:	221282
MSS Lab ID:	265156-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	mg/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/13/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC780533	0.2244	0.2492	0.2519	11 *	69-142	12%		
MSD	QC780534		0.2291	0.2642	17 *	69-142	12%	9	36

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Moisture

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	221144
Matrix:	Soil	Sampled:	03/09/15
Units:	%	Received:	03/09/15
Diln Fac:	1.000	Analyzed:	03/09/15

Field ID	Lab ID	Result	RL
TRENCH2-1SW-1.2	265156-001	12	1
TRENCH2-2SW-2.0	265156-002	18	1
TRENCH2-3SW-1.2	265156-003	10	1
TRENCH2-1B-4.0	265156-004	12	1
TRENCH2-2B-2.4	265156-005	17	1
TRENCH2-3B-2.4	265156-006	17	1
TRENCH2-4SW-1.2	265156-007	9	1

RL= Reporting Limit

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Batch QC Report

Moisture

Lab #:	265156	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	221144
MSS Lab ID:	265149-001	Sampled:	03/09/15
Lab ID:	QC780005	Received:	03/09/15
Matrix:	Soil	Analyzed:	03/09/15

MSS Result	Result	RL	RPD	Lim
12.46	12.26	1.000	2	26

RL= Reporting Limit
RPD= Relative Percent Difference

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265201
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
TRENCH2-6SW-2.0	265201-001
TRENCH2-5SW-1.2	265201-002
TRENCH2-7SW-2.0	265201-003
TRENCH2-4B-4.0	265201-004
TRENCH2-5B-4.0	265201-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/26/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265201**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/10/15**
Samples Received:	**03/10/15**

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 03/10/15. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Gasoline C7-C12 was detected between the MDL and the RL in the method blank for batch 221219; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
TRENCH2-6SW-2.0 (lab # 265201-001) and TRENCH2-7SW-2.0 (lab # 265201-003) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
1,2,4-trichlorobenzene was detected between the MDL and the RL in the method blank for batch 221194; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
TRENCH2-6SW-2.0 (lab # 265201-001) and TRENCH2-7SW-2.0 (lab # 265201-003) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recovery was observed for barium in the MSD for batch 221321; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was also observed for barium in the MS/MSD for batch 221321; the RPD was acceptable in the BS/BSD. Zinc was detected between the MDL and the RL in the method blank for batch 221321; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
Low recovery was observed for hexavalent chromium in the matrix spike of TRENCH2-6SW-2.0 (lab # 265201-001); the LCS was within limits. Low recovery

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265201**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/10/15**
Samples Received:	**03/10/15**

Hexavalent Chromium (EPA 7196A):
was observed for hexavalent chromium in the matrix spike of TRENCH2-6SW-2.0 (lab # 265201-001); the LCS was within limits. Low recovery was observed for hexavalent chromium in the matrix spike of TRENCH2-6SW-2.0 (lab # 265201-001); the LCS was within limits. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 265201

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 Task 0202
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: C. Gyler / S. Sherman
Report To: B. DeShields
Company: Integral Consulting Inc
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	Sampling Date Collected	Sampling Time Collected	Matrix Water	Matrix Solid	# of Containers	Chemical Preservative HCl	H2SO4	HNO3	NaOH	None	TPH g	TPH d	TPH mo	VOCs by 8260 (Full list)	SVOCs	Title 22 metals	PCBs	Hexavalent Chromium
	TRENCH2-6SW-2.0																		
1	~~TRENCH2-W~~	3/10/15	1010		X	7						X	X	X	X	X	X	X	X
2	TRENCH2-5SW-2.2	3/10/15	1007		X	1							X	X		X	X		
3	TRENCH2-7SW-2.0	3/10/15	1045		X	1							X	X		X	X		
4	TRENCH2-4B-4.0	3/10/15	1005		X	7						X	X	X	X	X	X	X	X
5	TRENCH2-5B-4.0	3/10/15	1050		X	1							X	X		X	X		

Notes:
- Report all to MDL
- EDF required
- Homogenize sample prior to analysis
- Report in dry weight w/ % moisture.

SAMPLE RECEIPT
☒ Intact
☒ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
[signature] DATE: 3/10/15 TIME: 1616
[signature] DATE: 3/10/15 TIME: 1650
DATE: TIME:

RECEIVED BY:
[signature] DATE: 3/10/15 TIME: 1616
[signature] DATE: 3/10/15 TIME: 1650
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265201 Date Received 3/10/15 Number of coolers 1
Client Integral Consulting Inc. Project Allied Engineering

Date Opened 3/10 By (print) SC (sign) [signature]
Date Logged in 3/10 By (print) BL (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ (YES) ~~NO~~ BL
   If YES, what time were they transferred to freezer? '2200'
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265201

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TRENCH2-6SW-2.0 Laboratory Sample ID : 265201-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	5.6	Y	0.18	0.012	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	50	Y	2.3	0.70	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	250		11	3.5	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Acetone	180		22	3.7	ug/Kg	Dry	0.9747	EPA 8260B	EPA 5030B
2-Butanone	42		11	0.8	ug/Kg	Dry	0.9747	EPA 8260B	EPA 5030B
Pyrene	85	J	460	82	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Antimony	0.99		0.53	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	6.8		0.27	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	180		0.27	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.40		0.11	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.0		0.27	0.027	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	30		0.27	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.1		0.27	0.032	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	39		0.27	0.089	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	180		0.27	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.36		0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.51		0.27	0.052	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	37		0.27	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.21	J	0.27	0.042	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.43	J	0.53	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	36		0.27	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	190		1.1	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	13		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-5SW-1.2 Laboratory Sample ID : 265201-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	43	Y	1.1	0.34	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	95		5.6	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Naphthalene	52	J	150	29	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Acenaphthylene	210		150	29	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Dibenzofuran	34	J	750	32	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluorene	69	J	150	26	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Phenanthrene	2,000		150	34	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Anthracene	180		150	28	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Fluoranthene	2,600		150	29	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Pyrene	3,200		150	26	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	870		150	27	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Chrysene	1,100		150	33	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	1,400		150	31	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	480		150	40	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	990		150	35	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	960		150	34	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Dibenz(a,h)anthracene	150	J	150	33	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	1,200		150	29	ug/Kg	Dry	1.000	EPA 8270C	EPA 3550B
Antimony	16		0.51	0.15	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.3		0.26	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	290		0.26	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.37		0.10	0.013	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.96		0.26	0.026	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	22		0.26	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	8.6		0.26	0.031	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	35		0.26	0.085	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	860		26	7.5	mg/Kg	Dry	100.0	EPA 6010B	EPA 3050B
Mercury	0.32		0.019	0.0010	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.25	J	0.26	0.050	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	25		0.26	0.067	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.17	J	0.51	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.38	J	0.51	0.14	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	35		0.26	0.058	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	110		1.0	0.057	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	11		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-7SW-2.0 Laboratory Sample ID : 265201-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	80	Y	2.5	0.76	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	300		12	3.7	mg/Kg	Dry	2.000	EPA 8015B	EPA 3550B
Phenanthrene	420	J	820	180	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Fluoranthene	430	J	820	160	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Pyrene	570	J	820	140	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(a)anthracene	200	J	820	150	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Chrysene	300	J	820	180	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	300	J	820	170	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(a)pyrene	230	J	820	190	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	210	J	820	160	ug/Kg	Dry	10.00	EPA 8270C	EPA 3550B
Antimony	0.91		0.57	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	4.8		0.29	0.083	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	290		0.29	0.061	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.39		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	1.1		0.29	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	33		0.29	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	7.3		0.29	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	49		0.29	0.095	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	310		0.29	0.080	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.85		0.022	0.0013	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.50		0.29	0.056	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	38		0.29	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.31		0.29	0.046	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.53	J	0.57	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	33		0.29	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	290		1.1	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	19		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-4B-4.0 Laboratory Sample ID : 265201-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	0.48	Y	0.18	0.011	mg/Kg	Dry	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	2.8	Y	1.2	0.38	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	8.5		6.1	1.9	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Acetone	61		23	3.7	ug/Kg	Dry	0.9242	EPA 8260B	EPA 5030B
Carbon Disulfide	1.0	J	5.6	0.8	ug/Kg	Dry	0.9242	EPA 8260B	EPA 5030B
2-Butanone	7.8	J	11	0.8	ug/Kg	Dry	0.9242	EPA 8260B	EPA 5030B
Antimony	0.74		0.67	0.20	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.8		0.34	0.097	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	170		0.34	0.072	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.52		0.13	0.017	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.55		0.34	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	41		0.34	0.084	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	9.1		0.34	0.040	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	21		0.34	0.11	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	25		0.34	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.049		0.021	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.10	J	0.34	0.065	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	63		0.34	0.088	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.53	J	0.67	0.21	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.29	J	0.67	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	55		0.34	0.076	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	45		1.3	0.075	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	18		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Client Sample ID : TRENCH2-5B-4.0 Laboratory Sample ID : 265201-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	6.5	Y	1.3	0.40	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	24		6.5	2.0	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.61	J	0.69	0.21	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	3.8		0.35	0.10	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	240		0.35	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.57		0.14	0.017	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.56		0.35	0.035	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	41		0.35	0.087	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.8		0.35	0.041	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	26		0.35	0.12	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	6.6		0.35	0.096	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.039		0.023	0.0013	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.18	J	0.35	0.068	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	49		0.35	0.091	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.64	J	0.69	0.22	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.26	J	0.69	0.19	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	31		0.35	0.079	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	46		1.4	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	24		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

J = Estimated value
Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	221219
Units:	mg/Kg	Sampled:	03/10/15
Basis:	dry	Received:	03/10/15
Diln Fac:	1.000	Analyzed:	03/11/15

Field ID: TRENCH2-6SW-2.0 Lab ID: 265201-001
Type: SAMPLE Moisture: 13%

Analyte	Result	RL	MDL
Gasoline C7-C12	5.6 Y	0.18	0.012

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-138

Field ID: TRENCH2-4B-4.0 Lab ID: 265201-004
Type: SAMPLE Moisture: 18%

Analyte	Result	RL	MDL
Gasoline C7-C12	0.48 Y	0.18	0.011

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	78-138

Type: BLANK Lab ID: QC780303

Analyte	Result	RL	MDL
Gasoline C7-C12	0.035 J	0.20	0.013

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	78-138

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5035
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780300	Batch#:	221219
Matrix:	Soil	Analyzed:	03/11/15
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9314	93	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	WD-MISC	Diln Fac:	1.000
MSS Lab ID:	265200-003	Batch#:	221219
Matrix:	Soil	Sampled:	03/10/15
Units:	mg/Kg	Received:	03/10/15
Basis:	dry	Analyzed:	03/11/15

Type: MS Moisture: 7%
Lab ID: QC780304

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2232	11.44	10.48	90	50-120

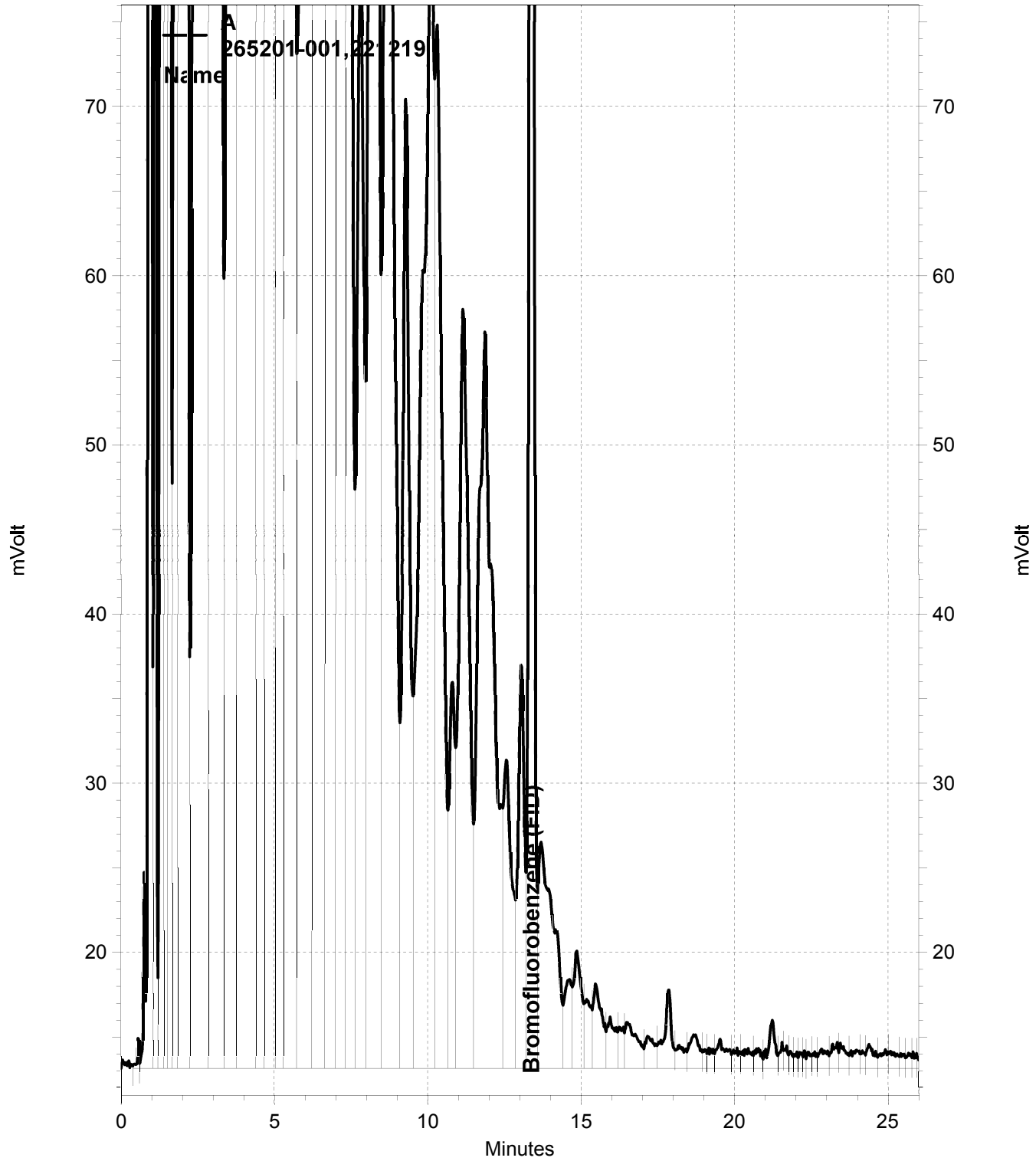
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	78-138

Type: MSD Moisture: 7%
Lab ID: QC780305

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	11.20	9.851	86	50-120	4	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

RPD= Relative Percent Difference



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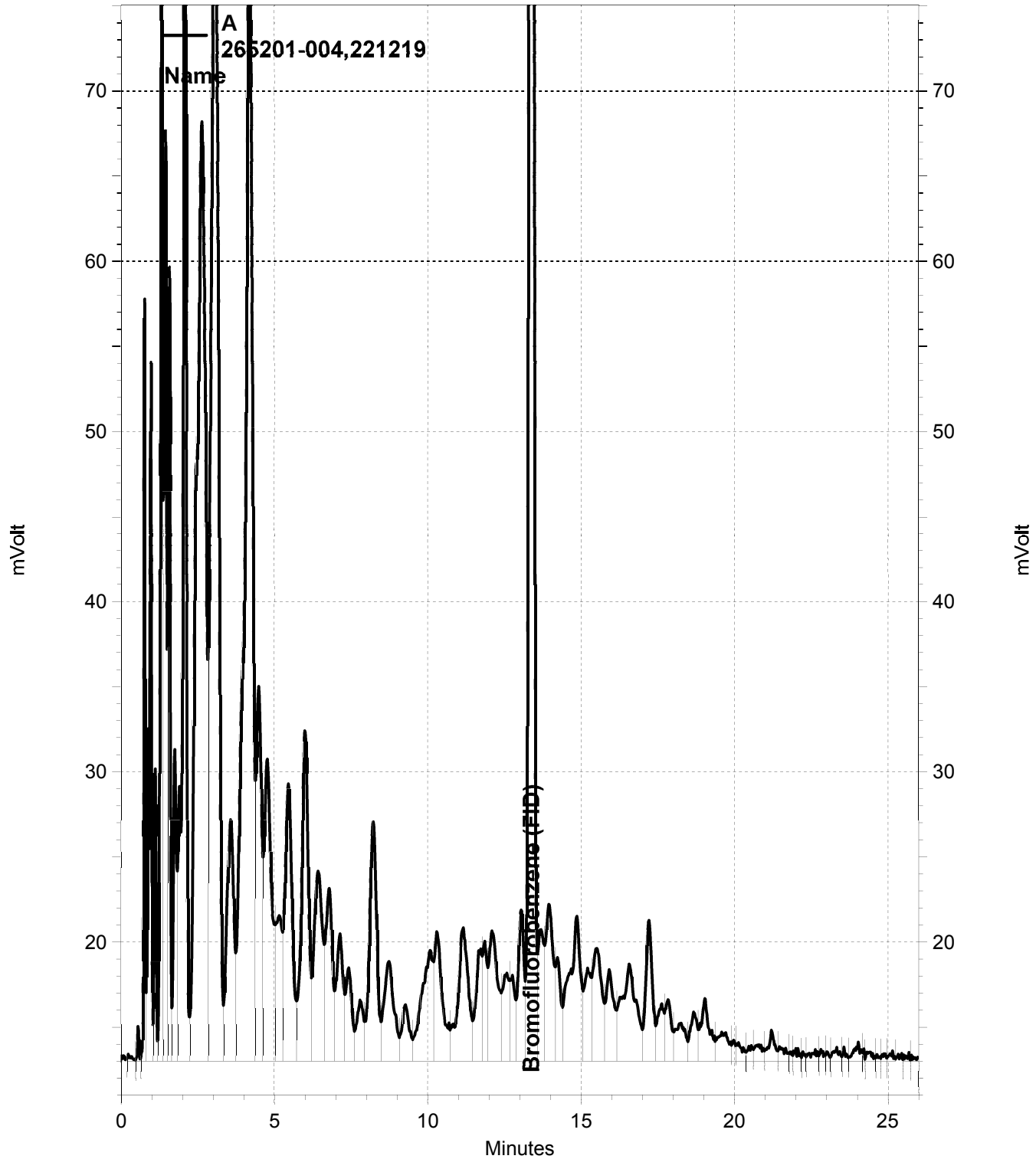

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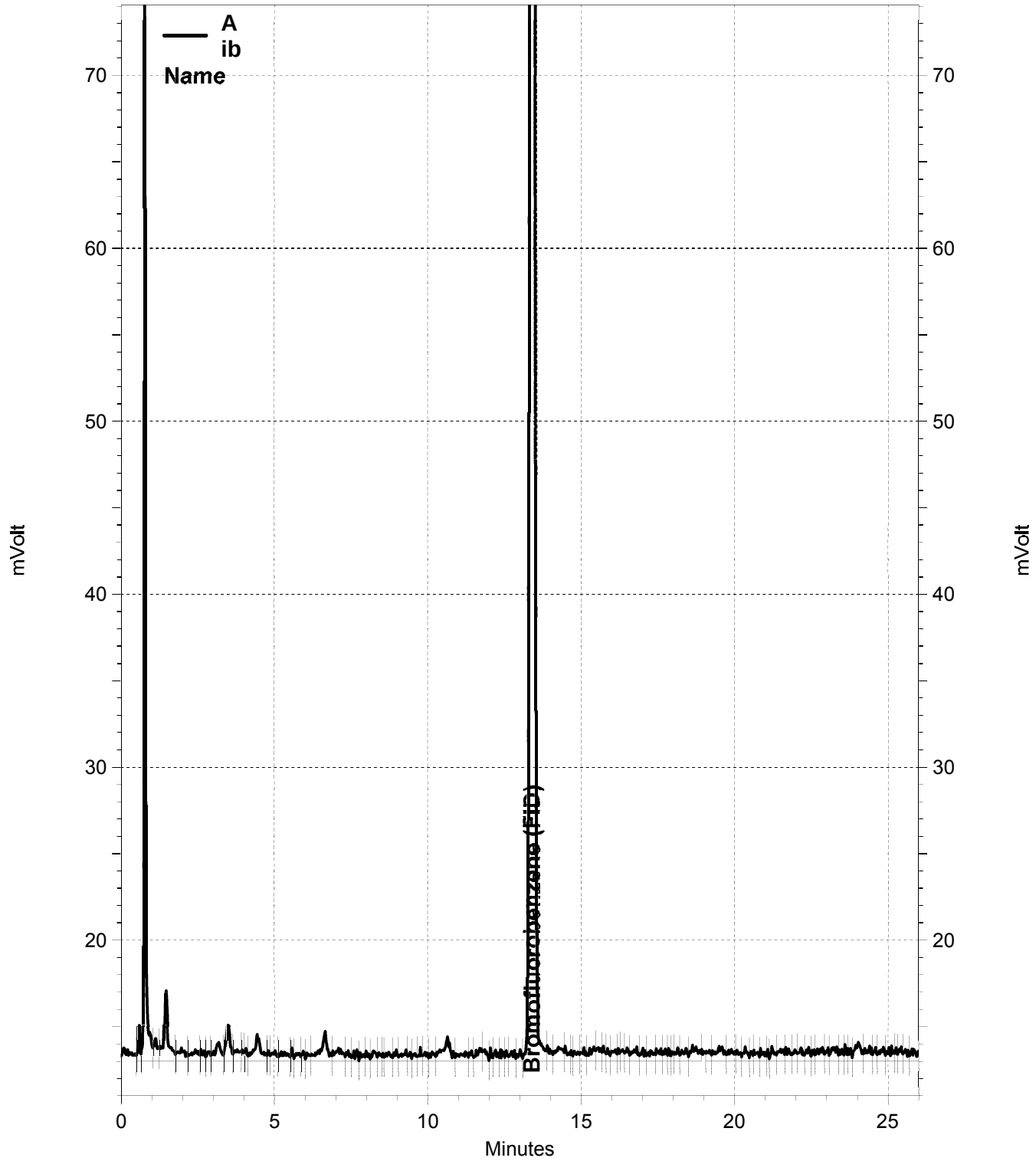

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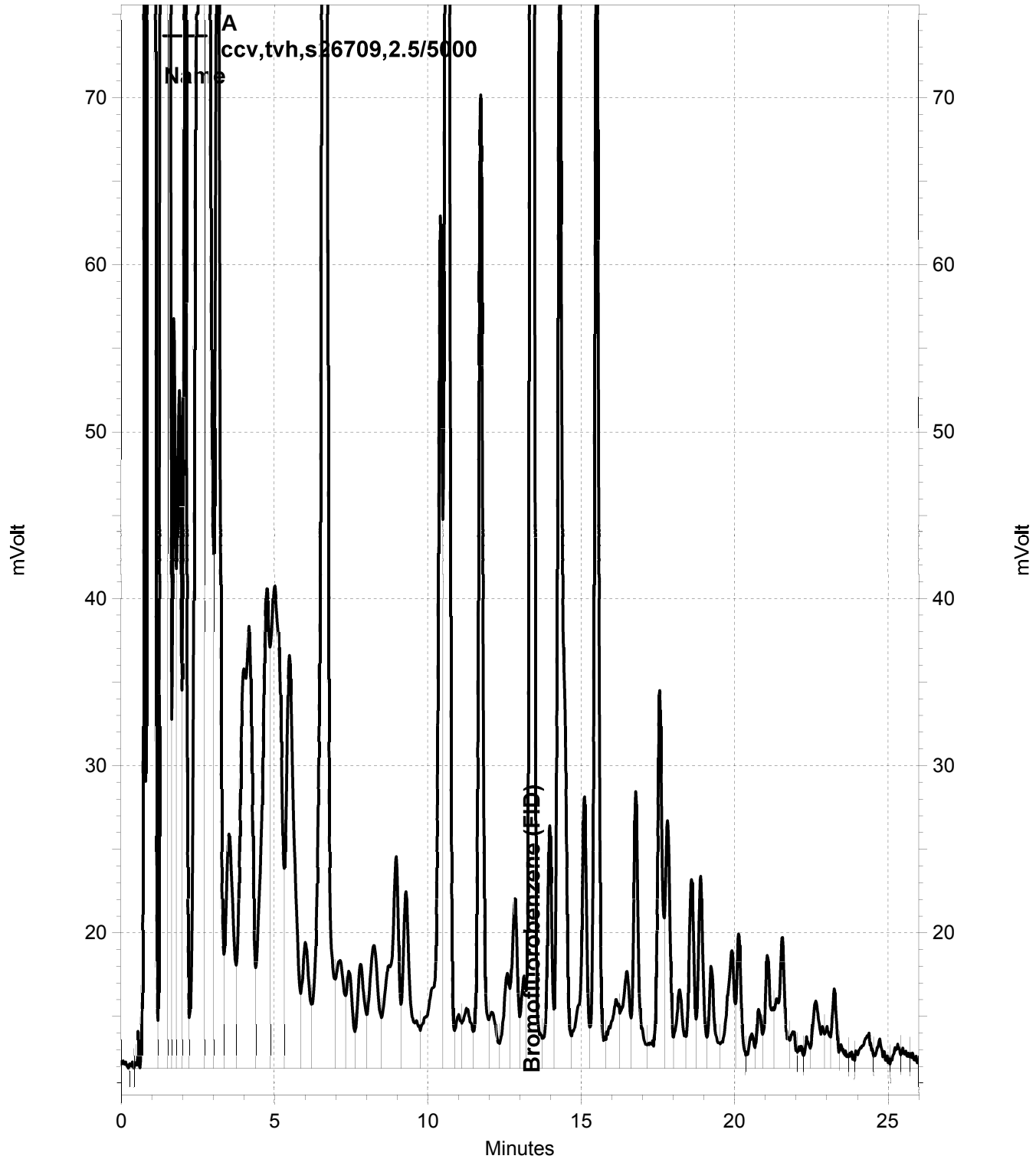

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/10/15
Units:	mg/Kg	Received:	03/10/15
Basis:	dry	Prepared:	03/11/15
Batch#:	221224	Analyzed:	03/12/15

Field ID: TRENCH2-6SW-2.0 Moisture: 13%
Type: SAMPLE Diln Fac: 2.000
Lab ID: 265201-001

Analyte	Result	RL	MDL
Diesel C10-C24	50 Y	2.3	0.70
Motor Oil C24-C36	250	11	3.5

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Field ID: TRENCH2-5SW-1.2 Moisture: 11%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265201-002

Analyte	Result	RL	MDL
Diesel C10-C24	43 Y	1.1	0.34
Motor Oil C24-C36	95	5.6	1.7

Surrogate	%REC	Limits
o-Terphenyl	97	59-140

Field ID: TRENCH2-7SW-2.0 Moisture: 19%
Type: SAMPLE Diln Fac: 2.000
Lab ID: 265201-003

Analyte	Result	RL	MDL
Diesel C10-C24	80 Y	2.5	0.76
Motor Oil C24-C36	300	12	3.7

Surrogate	%REC	Limits
o-Terphenyl	83	59-140

Field ID: TRENCH2-4B-4.0 Moisture: 18%
Type: SAMPLE Diln Fac: 1.000
Lab ID: 265201-004

Analyte	Result	RL	MDL
Diesel C10-C24	2.8 Y	1.2	0.38
Motor Oil C24-C36	8.5	6.1	1.9

Surrogate	%REC	Limits
o-Terphenyl	95	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/10/15
Units:	mg/Kg	Received:	03/10/15
Basis:	dry	Prepared:	03/11/15
Batch#:	221224	Analyzed:	03/12/15

Field ID:	TRENCH2-5B-4.0	Moisture:	24%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	265201-005		

Analyte	Result	RL	MDL
Diesel C10-C24	6.5 Y	1.3	0.40
Motor Oil C24-C36	24	6.5	2.0

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780322		

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	105	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780323	Batch#:	221224
Matrix:	Soil	Prepared:	03/11/15
Units:	mg/Kg	Analyzed:	03/12/15

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.35	47.30	94	58-137

Surrogate	%REC	Limits
o-Terphenyl	107	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	221224
MSS Lab ID:	265206-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/11/15
Units:	mg/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Type: MS Moisture: 28%
Lab ID: QC780324

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.9774	69.06	53.36	76	46-154

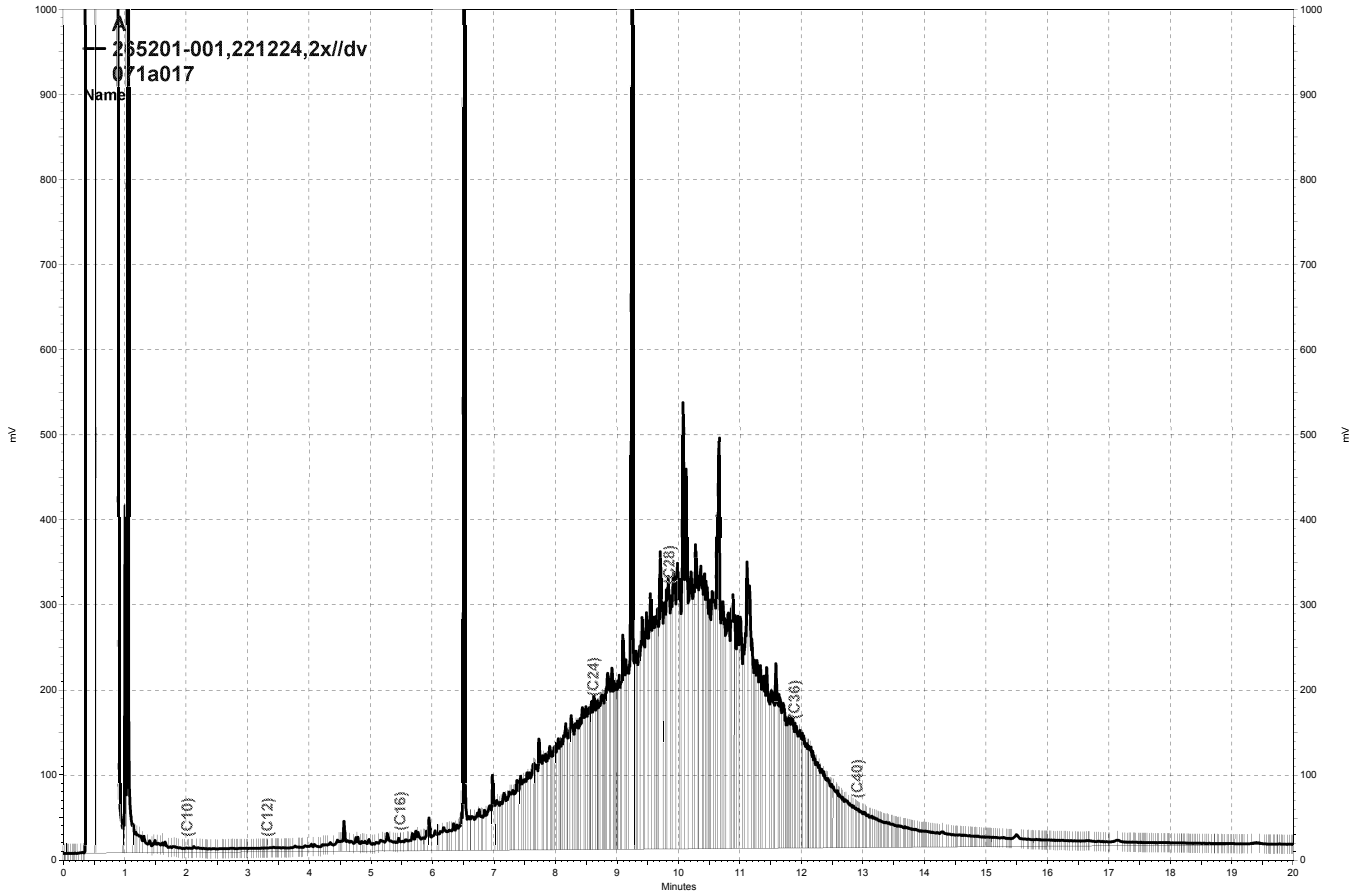
Surrogate	%REC	Limits
o-Terphenyl	88	59-140

Type: MSD Moisture: 28%
Lab ID: QC780325

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	69.35	54.32	77	46-154	1	50

Surrogate	%REC	Limits
o-Terphenyl	80	59-140

RPD= Relative Percent Difference



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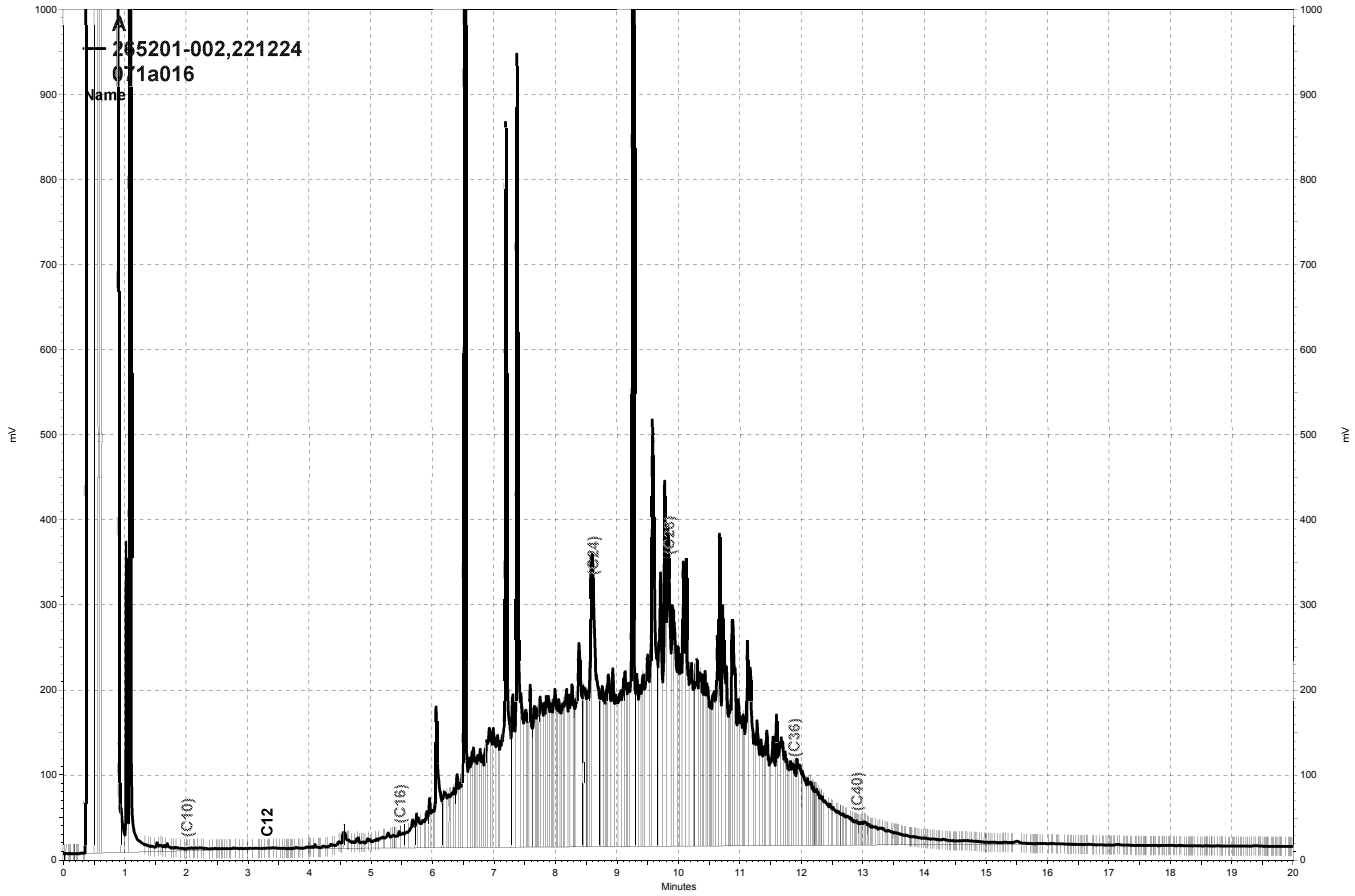

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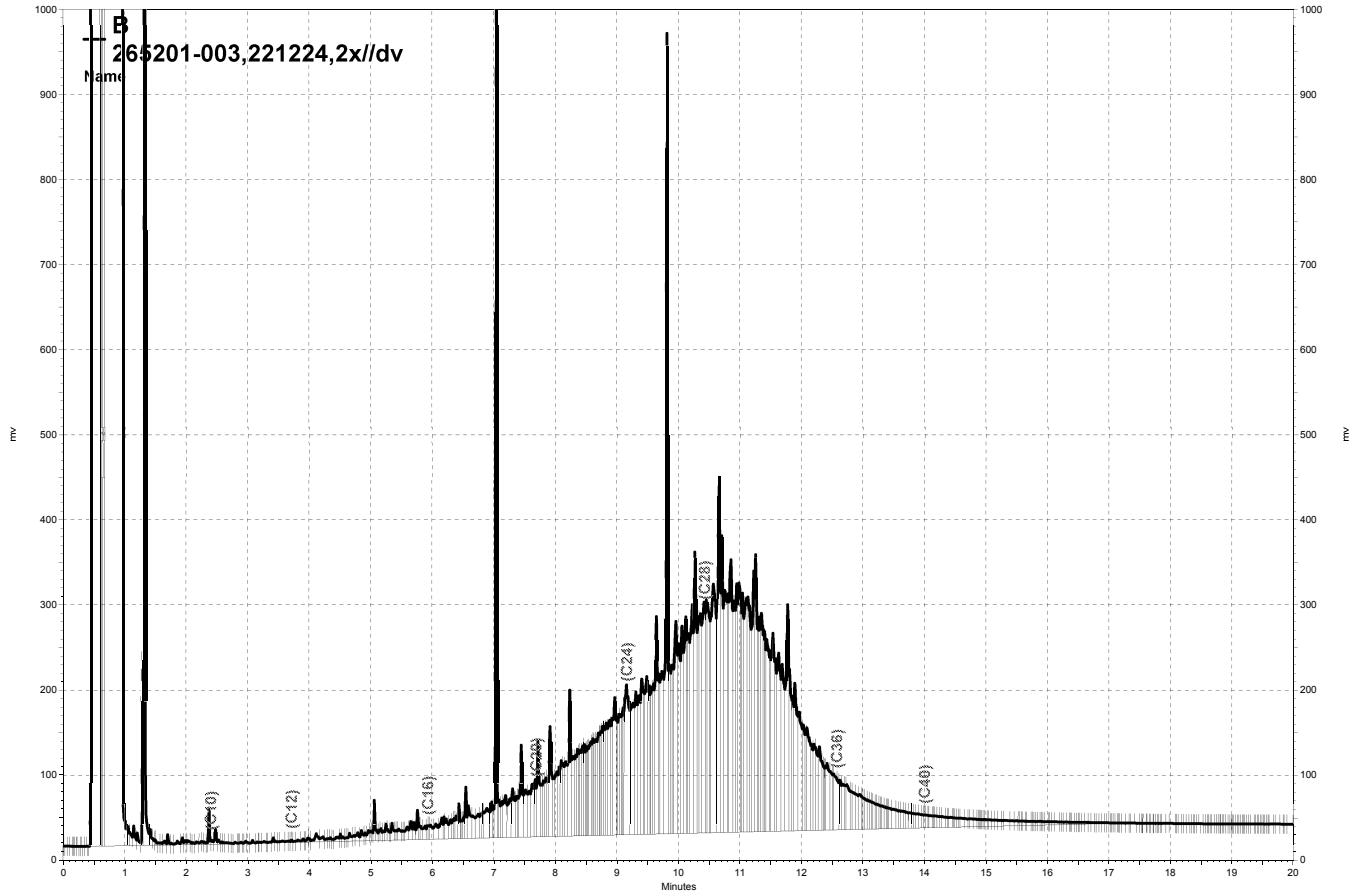

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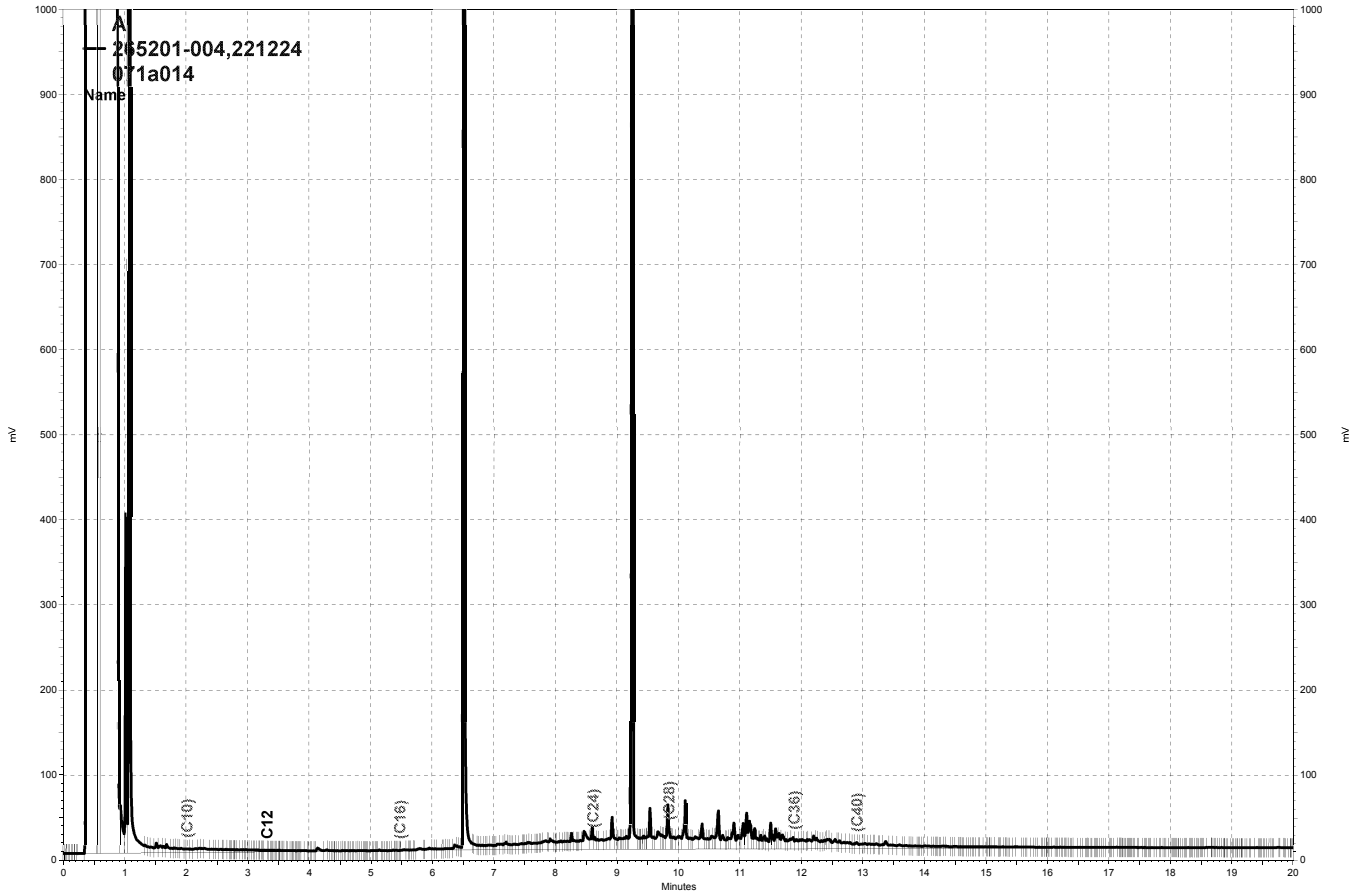

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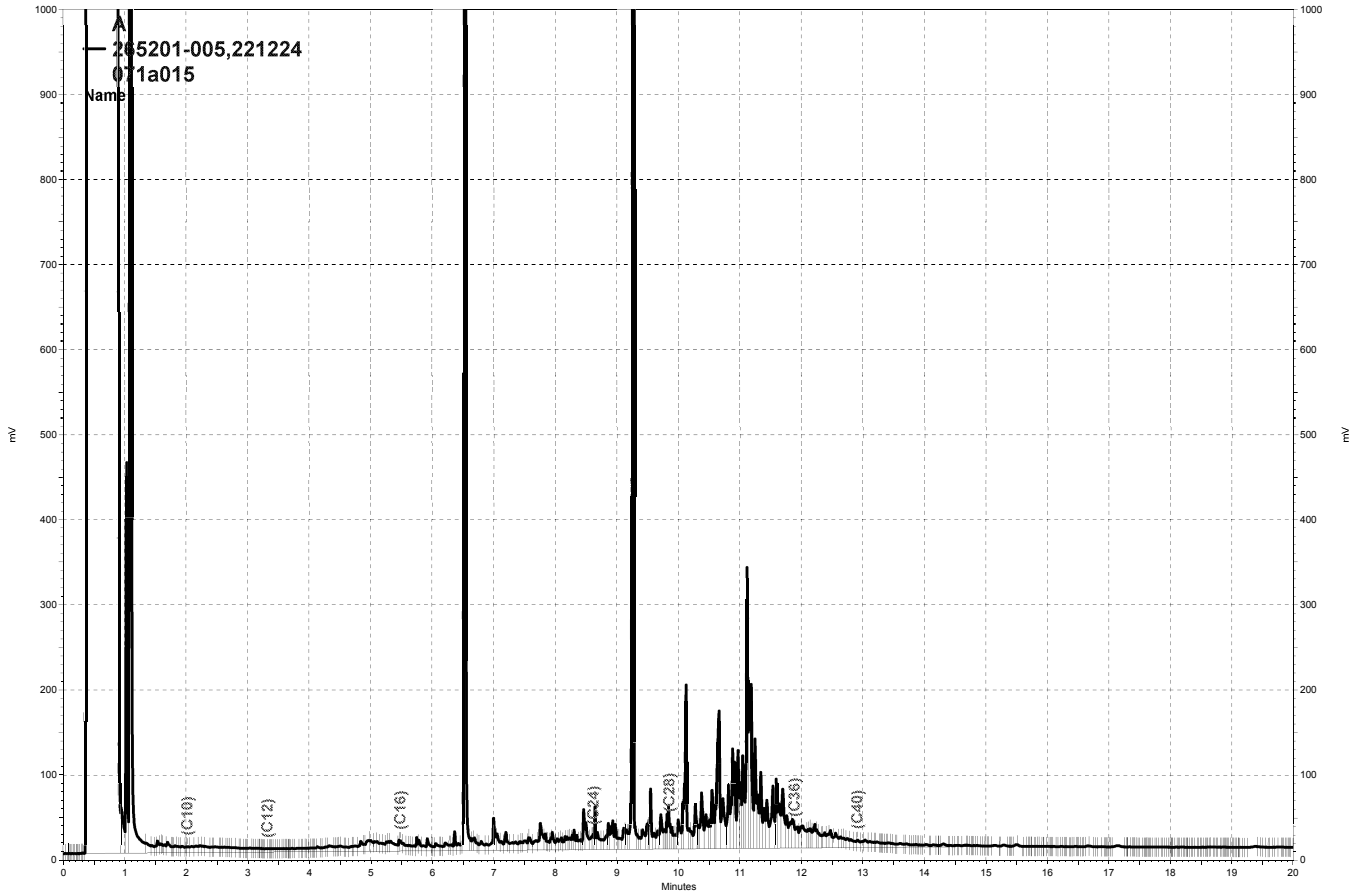

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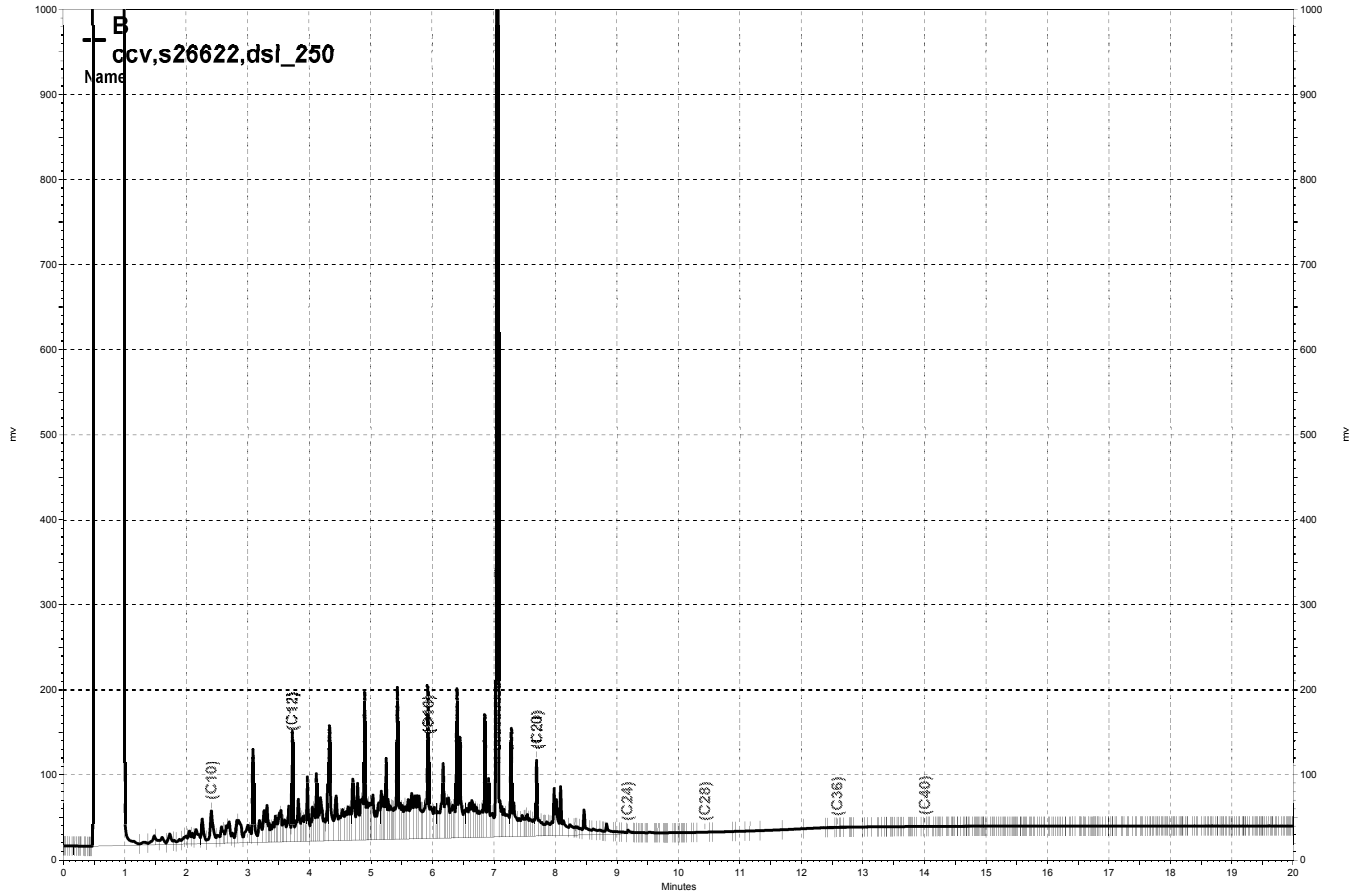

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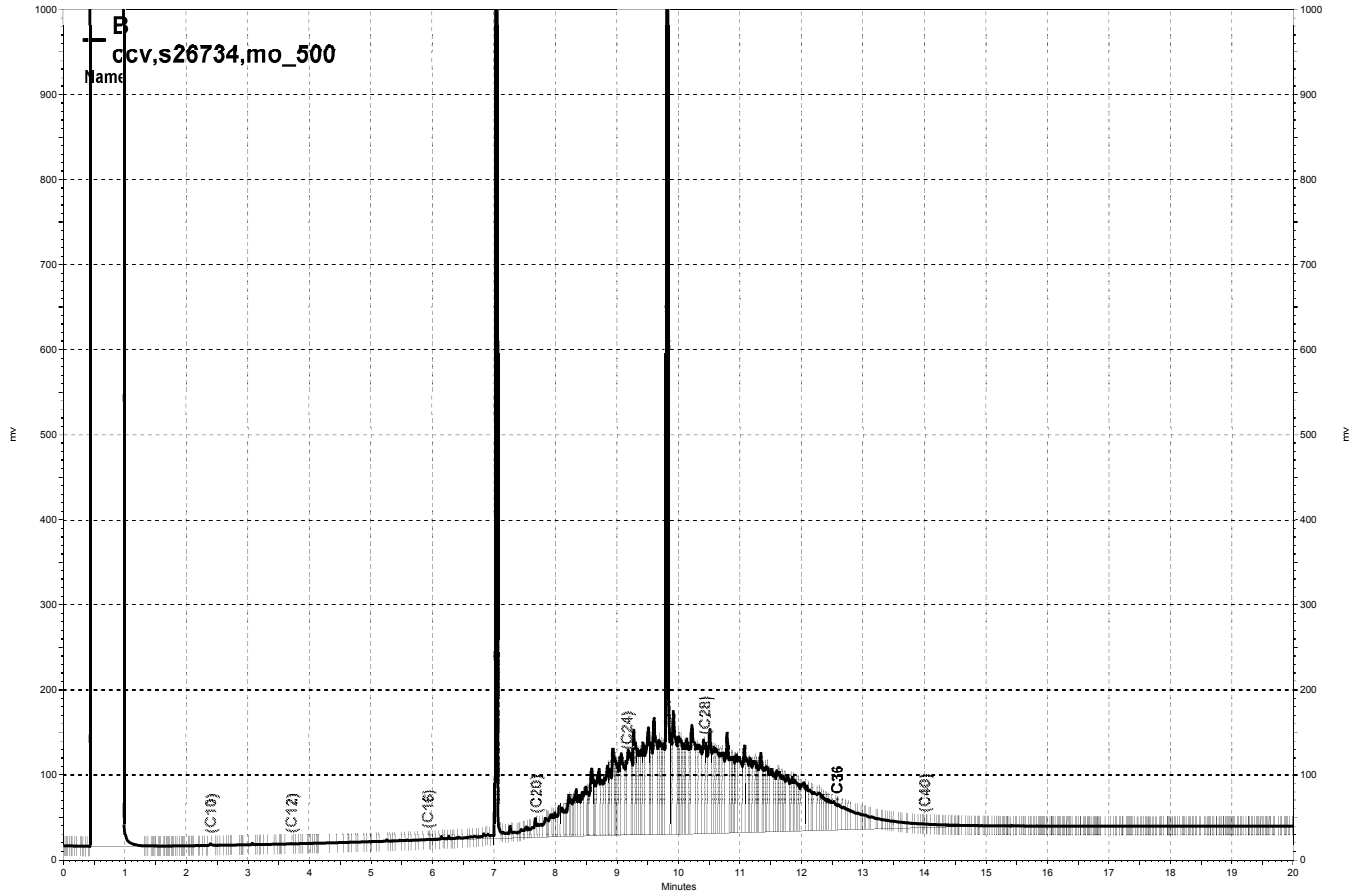

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRENCH2-6SW-2.0	Diln Fac:	0.9747
Lab ID:	265201-001	Batch#:	221194
Matrix:	Soil	Sampled:	03/10/15
Units:	ug/Kg	Received:	03/10/15
Basis:	dry	Analyzed:	03/11/15

Moisture: 13%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.7
Chloromethane	ND	11	0.5
Vinyl Chloride	ND	11	0.5
Bromomethane	ND	11	0.4
Chloroethane	ND	11	0.4
Trichlorofluoromethane	ND	5.6	0.3
Acetone	180	22	3.7
Freon 113	ND	5.6	0.6
1,1-Dichloroethene	ND	5.6	0.7
Methylene Chloride	ND	22	1.2
Carbon Disulfide	ND	5.6	0.7
MTBE	ND	5.6	0.5
trans-1,2-Dichloroethene	ND	5.6	0.8
Vinyl Acetate	ND	56	0.6
1,1-Dichloroethane	ND	5.6	0.9
2-Butanone	42	11	0.8
cis-1,2-Dichloroethene	ND	5.6	0.6
2,2-Dichloropropane	ND	5.6	0.7
Chloroform	ND	5.6	0.8
Bromochloromethane	ND	5.6	0.1
1,1,1-Trichloroethane	ND	5.6	0.7
1,1-Dichloropropene	ND	5.6	0.7
Carbon Tetrachloride	ND	5.6	0.7
1,2-Dichloroethane	ND	5.6	0.7
Benzene	ND	5.6	0.8
Trichloroethene	ND	5.6	0.8
1,2-Dichloropropane	ND	5.6	0.7
Bromodichloromethane	ND	5.6	0.6
Dibromomethane	ND	5.6	0.2
4-Methyl-2-Pentanone	ND	11	0.7
cis-1,3-Dichloropropene	ND	5.6	0.5
Toluene	ND	5.6	0.9
trans-1,3-Dichloropropene	ND	5.6	0.5
1,1,2-Trichloroethane	ND	5.6	0.5
2-Hexanone	ND	11	0.7
1,3-Dichloropropane	ND	5.6	0.6
Tetrachloroethene	ND	5.6	0.7
Dibromochloromethane	ND	5.6	0.5
1,2-Dibromoethane	ND	5.6	0.6
Chlorobenzene	ND	5.6	0.7
1,1,1,2-Tetrachloroethane	ND	5.6	0.6
Ethylbenzene	ND	5.6	0.8
m,p-Xylenes	ND	5.6	1.5
o-Xylene	ND	5.6	0.7
Styrene	ND	5.6	0.6
Bromoform	ND	5.6	0.3
Isopropylbenzene	ND	5.6	0.7
1,1,2,2-Tetrachloroethane	ND	5.6	0.6
1,2,3-Trichloropropane	ND	5.6	0.7
Propylbenzene	ND	5.6	0.7
Bromobenzene	ND	5.6	0.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRENCH2-6SW-2.0	Diln Fac:	0.9747
Lab ID:	265201-001	Batch#:	221194
Matrix:	Soil	Sampled:	03/10/15
Units:	ug/Kg	Received:	03/10/15
Basis:	dry	Analyzed:	03/11/15

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	5.6	0.7
2-Chlorotoluene	ND	5.6	0.8
4-Chlorotoluene	ND	5.6	0.7
tert-Butylbenzene	ND	5.6	0.8
1,2,4-Trimethylbenzene	ND	5.6	0.7
sec-Butylbenzene	ND	5.6	0.7
para-Isopropyl Toluene	ND	5.6	0.7
1,3-Dichlorobenzene	ND	5.6	0.6
1,4-Dichlorobenzene	ND	5.6	0.5
n-Butylbenzene	ND	5.6	0.7
1,2-Dichlorobenzene	ND	5.6	0.5
1,2-Dibromo-3-Chloropropane	ND	5.6	0.9
1,2,4-Trichlorobenzene	ND	5.6	0.2
Hexachlorobutadiene	ND	5.6	0.7
Naphthalene	ND	5.6	1.1
1,2,3-Trichlorobenzene	ND	5.6	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	103	78-134
1,2-Dichloroethane-d4	112	80-138
Toluene-d8	91	80-120
Bromofluorobenzene	91	78-123

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRENCH2-4B-4.0	Diln Fac:	0.9242
Lab ID:	265201-004	Batch#:	221194
Matrix:	Soil	Sampled:	03/10/15
Units:	ug/Kg	Received:	03/10/15
Basis:	dry	Analyzed:	03/11/15

Moisture: 18%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.7
Chloromethane	ND	11	0.6
Vinyl Chloride	ND	11	0.5
Bromomethane	ND	11	0.4
Chloroethane	ND	11	0.4
Trichlorofluoromethane	ND	5.6	0.3
Acetone	61	23	3.7
Freon 113	ND	5.6	0.6
1,1-Dichloroethene	ND	5.6	0.7
Methylene Chloride	ND	23	1.2
Carbon Disulfide	1.0 J	5.6	0.8
MTBE	ND	5.6	0.5
trans-1,2-Dichloroethene	ND	5.6	0.8
Vinyl Acetate	ND	56	0.6
1,1-Dichloroethane	ND	5.6	0.9
2-Butanone	7.8 J	11	0.8
cis-1,2-Dichloroethene	ND	5.6	0.6
2,2-Dichloropropane	ND	5.6	0.7
Chloroform	ND	5.6	0.8
Bromochloromethane	ND	5.6	0.1
1,1,1-Trichloroethane	ND	5.6	0.7
1,1-Dichloropropene	ND	5.6	0.7
Carbon Tetrachloride	ND	5.6	0.7
1,2-Dichloroethane	ND	5.6	0.7
Benzene	ND	5.6	0.8
Trichloroethene	ND	5.6	0.8
1,2-Dichloropropane	ND	5.6	0.7
Bromodichloromethane	ND	5.6	0.6
Dibromomethane	ND	5.6	0.3
4-Methyl-2-Pentanone	ND	11	0.7
cis-1,3-Dichloropropene	ND	5.6	0.5
Toluene	ND	5.6	0.9
trans-1,3-Dichloropropene	ND	5.6	0.5
1,1,2-Trichloroethane	ND	5.6	0.5
2-Hexanone	ND	11	0.7
1,3-Dichloropropane	ND	5.6	0.6
Tetrachloroethene	ND	5.6	0.7
Dibromochloromethane	ND	5.6	0.6
1,2-Dibromoethane	ND	5.6	0.6
Chlorobenzene	ND	5.6	0.7
1,1,1,2-Tetrachloroethane	ND	5.6	0.6
Ethylbenzene	ND	5.6	0.8
m,p-Xylenes	ND	5.6	1.6
o-Xylene	ND	5.6	0.7
Styrene	ND	5.6	0.6
Bromoform	ND	5.6	0.3
Isopropylbenzene	ND	5.6	0.7
1,1,2,2-Tetrachloroethane	ND	5.6	0.6
1,2,3-Trichloropropane	ND	5.6	0.7
Propylbenzene	ND	5.6	0.7

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	TRENCH2-4B-4.0	Diln Fac:	0.9242
Lab ID:	265201-004	Batch#:	221194
Matrix:	Soil	Sampled:	03/10/15
Units:	ug/Kg	Received:	03/10/15
Basis:	dry	Analyzed:	03/11/15

Analyte	Result	RL	MDL
Bromobenzene	ND	5.6	0.3
1,3,5-Trimethylbenzene	ND	5.6	0.7
2-Chlorotoluene	ND	5.6	0.8
4-Chlorotoluene	ND	5.6	0.7
tert-Butylbenzene	ND	5.6	0.8
1,2,4-Trimethylbenzene	ND	5.6	0.7
sec-Butylbenzene	ND	5.6	0.7
para-Isopropyl Toluene	ND	5.6	0.7
1,3-Dichlorobenzene	ND	5.6	0.6
1,4-Dichlorobenzene	ND	5.6	0.5
n-Butylbenzene	ND	5.6	0.7
1,2-Dichlorobenzene	ND	5.6	0.5
1,2-Dibromo-3-Chloropropane	ND	5.6	0.9
1,2,4-Trichlorobenzene	ND	5.6	0.2
Hexachlorobutadiene	ND	5.6	0.7
Naphthalene	ND	5.6	1.1
1,2,3-Trichlorobenzene	ND	5.6	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-134
1,2-Dichloroethane-d4	117	80-138
Toluene-d8	90	80-120
Bromofluorobenzene	91	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780212	Batch#:	221194
Matrix:	Soil	Analyzed:	03/11/15
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	19.78	79	70-134
Benzene	25.00	25.42	102	80-123
Trichloroethene	25.00	24.99	100	80-128
Toluene	25.00	22.85	91	80-120
Chlorobenzene	25.00	23.93	96	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	110	80-138
Toluene-d8	90	80-120
Bromofluorobenzene	87	78-123

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780213	Batch#:	221194
Matrix:	Soil	Analyzed:	03/11/15
Units:	ug/Kg		

Analyte	Result	RL	MDL
Freon 12	ND	10	0.6
Chloromethane	ND	10	0.5
Vinyl Chloride	ND	10	0.4
Bromomethane	ND	10	0.4
Chloroethane	ND	10	0.4
Trichlorofluoromethane	ND	5.0	0.3
Acetone	ND	20	3.3
Freon 113	ND	5.0	0.5
1,1-Dichloroethene	ND	5.0	0.6
Methylene Chloride	ND	20	1.1
Carbon Disulfide	ND	5.0	0.7
MTBE	ND	5.0	0.5
trans-1,2-Dichloroethene	ND	5.0	0.7
Vinyl Acetate	ND	50	0.5
1,1-Dichloroethane	ND	5.0	0.8
2-Butanone	ND	10	0.7
cis-1,2-Dichloroethene	ND	5.0	0.6
2,2-Dichloropropane	ND	5.0	0.6
Chloroform	ND	5.0	0.7
Bromochloromethane	ND	5.0	0.1
1,1,1-Trichloroethane	ND	5.0	0.7
1,1-Dichloropropene	ND	5.0	0.7
Carbon Tetrachloride	ND	5.0	0.6
1,2-Dichloroethane	ND	5.0	0.6
Benzene	ND	5.0	0.7
Trichloroethene	ND	5.0	0.7
1,2-Dichloropropane	ND	5.0	0.6
Bromodichloromethane	ND	5.0	0.5
Dibromomethane	ND	5.0	0.2
4-Methyl-2-Pentanone	ND	10	0.6
cis-1,3-Dichloropropene	ND	5.0	0.4
Toluene	ND	5.0	0.8
trans-1,3-Dichloropropene	ND	5.0	0.4
1,1,2-Trichloroethane	ND	5.0	0.5
2-Hexanone	ND	10	0.6
1,3-Dichloropropane	ND	5.0	0.5
Tetrachloroethene	ND	5.0	0.6
Dibromochloromethane	ND	5.0	0.5
1,2-Dibromoethane	ND	5.0	0.5
Chlorobenzene	ND	5.0	0.6
1,1,1,2-Tetrachloroethane	ND	5.0	0.5
Ethylbenzene	ND	5.0	0.7
m,p-Xylenes	ND	5.0	1.4
o-Xylene	ND	5.0	0.6
Styrene	ND	5.0	0.5
Bromoform	ND	5.0	0.2
Isopropylbenzene	ND	5.0	0.6
1,1,2,2-Tetrachloroethane	ND	5.0	0.5
1,2,3-Trichloropropane	ND	5.0	0.6
Propylbenzene	ND	5.0	0.7
Bromobenzene	ND	5.0	0.2
1,3,5-Trimethylbenzene	ND	5.0	0.6

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780213	Batch#:	221194
Matrix:	Soil	Analyzed:	03/11/15
Units:	ug/Kg		

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.0	0.7
4-Chlorotoluene	ND	5.0	0.6
tert-Butylbenzene	ND	5.0	0.7
1,2,4-Trimethylbenzene	ND	5.0	0.6
sec-Butylbenzene	ND	5.0	0.6
para-Isopropyl Toluene	ND	5.0	0.6
1,3-Dichlorobenzene	ND	5.0	0.5
1,4-Dichlorobenzene	ND	5.0	0.5
n-Butylbenzene	ND	5.0	0.6
1,2-Dichlorobenzene	ND	5.0	0.5
1,2-Dibromo-3-Chloropropane	ND	5.0	0.8
1,2,4-Trichlorobenzene	0.2 J	5.0	0.2
Hexachlorobutadiene	ND	5.0	0.6
Naphthalene	ND	5.0	1.0
1,2,3-Trichlorobenzene	ND	5.0	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-134
1,2-Dichloroethane-d4	106	80-138
Toluene-d8	91	80-120
Bromofluorobenzene	91	78-123

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 5030B
Project#:	C1374	Analysis:	EPA 8260B
Field ID:	WD-MISC	Batch#:	221194
MSS Lab ID:	265200-003	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Analyzed:	03/11/15
Basis:	dry		

Type:	MS	Moisture:	7%
Lab ID:	QC780265	Diln Fac:	0.9634

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6262	51.80	37.22	72	56-133
Benzene	<0.7296	51.80	45.04	87	57-120
Trichloroethene	<0.7599	51.80	45.39	88	49-145
Toluene	<0.7991	51.80	38.80	75	51-120
Chlorobenzene	<0.6551	51.80	36.68	71	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	117	80-138
Toluene-d8	89	80-120
Bromofluorobenzene	89	78-123

Type:	MSD	Moisture:	7%
Lab ID:	QC780266	Diln Fac:	0.9709

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	52.20	37.87	73	56-133	1	46
Benzene	52.20	45.78	88	57-120	1	44
Trichloroethene	52.20	45.80	88	49-145	0	46
Toluene	52.20	38.50	74	51-120	2	47
Chlorobenzene	52.20	36.46	70	47-120	1	50

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	117	80-138
Toluene-d8	89	80-120
Bromofluorobenzene	90	78-123

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-6SW-2.0	Batch#:	221198
Lab ID:	265201-001	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	3.000		

Moisture: 13%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	2,300	490
Phenol	ND	2,300	330
bis(2-Chloroethyl)ether	ND	2,300	380
2-Chlorophenol	ND	2,300	380
1,3-Dichlorobenzene	ND	2,300	260
1,4-Dichlorobenzene	ND	2,300	100
Benzyl alcohol	ND	2,300	350
1,2-Dichlorobenzene	ND	2,300	230
2-Methylphenol	ND	2,300	430
bis(2-Chloroisopropyl) ether	ND	2,300	580
4-Methylphenol	ND	2,300	360
N-Nitroso-di-n-propylamine	ND	2,300	350
Hexachloroethane	ND	2,300	180
Nitrobenzene	ND	2,300	100
Isophorone	ND	2,300	68
2-Nitrophenol	ND	4,600	71
2,4-Dimethylphenol	ND	2,300	96
Benzoic acid	ND	12,000	1,700
bis(2-Chloroethoxy)methane	ND	2,300	78
2,4-Dichlorophenol	ND	2,300	87
1,2,4-Trichlorobenzene	ND	2,300	90
Naphthalene	ND	460	89
4-Chloroaniline	ND	2,300	110
Hexachlorobutadiene	ND	2,300	95
4-Chloro-3-methylphenol	ND	2,300	98
2-Methylnaphthalene	ND	460	75
Hexachlorocyclopentadiene	ND	4,600	85
2,4,6-Trichlorophenol	ND	2,300	98
2,4,5-Trichlorophenol	ND	2,300	93
2-Chloronaphthalene	ND	2,300	71
2-Nitroaniline	ND	4,600	74
Dimethylphthalate	ND	2,300	87
Acenaphthylene	ND	460	88
2,6-Dinitrotoluene	ND	2,300	87
3-Nitroaniline	ND	4,600	57
Acenaphthene	ND	460	78
2,4-Dinitrophenol	ND	4,600	650
4-Nitrophenol	ND	4,600	360
Dibenzofuran	ND	2,300	100
2,4-Dinitrotoluene	ND	2,300	68
Diethylphthalate	ND	2,300	94
Fluorene	ND	460	81
4-Chlorophenyl-phenylether	ND	2,300	87
4-Nitroaniline	ND	4,600	66
4,6-Dinitro-2-methylphenol	ND	4,600	480
N-Nitrosodiphenylamine	ND	2,300	94
Azobenzene	ND	2,300	97
4-Bromophenyl-phenylether	ND	2,300	88
Hexachlorobenzene	ND	2,300	96

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-6SW-2.0	Batch#:	221198
Lab ID:	265201-001	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	3.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	4,600	430
Phenanthrene	ND	460	100
Anthracene	ND	460	86
Di-n-butylphthalate	ND	2,300	100
Fluoranthene	ND	460	91
Pyrene	85 J	460	82
Butylbenzylphthalate	ND	2,300	75
3,3'-Dichlorobenzidine	ND	4,600	77
Benzo(a)anthracene	ND	460	82
Chrysene	ND	460	100
bis(2-Ethylhexyl)phthalate	ND	2,300	100
Di-n-octylphthalate	ND	2,300	120
Benzo(b)fluoranthene	ND	460	97
Benzo(k)fluoranthene	ND	460	120
Benzo(a)pyrene	ND	460	110
Indeno(1,2,3-cd)pyrene	ND	460	100
Dibenz(a,h)anthracene	ND	460	100
Benzo(g,h,i)perylene	ND	460	90

Surrogate	%REC	Limits
2-Fluorophenol	56	25-120
Phenol-d5	69	36-120
2,4,6-Tribromophenol	90	27-120
Nitrobenzene-d5	80	44-120
2-Fluorobiphenyl	99	47-120
Terphenyl-d14	81	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-5SW-1.2	Batch#:	221198
Lab ID:	265201-002	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	750	160
Phenol	ND	750	110
bis(2-Chloroethyl)ether	ND	750	120
2-Chlorophenol	ND	750	120
1,3-Dichlorobenzene	ND	750	85
1,4-Dichlorobenzene	ND	750	33
Benzyl alcohol	ND	750	110
1,2-Dichlorobenzene	ND	750	75
2-Methylphenol	ND	750	140
bis(2-Chloroisopropyl) ether	ND	750	190
4-Methylphenol	ND	750	120
N-Nitroso-di-n-propylamine	ND	750	110
Hexachloroethane	ND	750	58
Nitrobenzene	ND	750	33
Isophorone	ND	750	22
2-Nitrophenol	ND	1,500	23
2,4-Dimethylphenol	ND	750	31
Benzoic acid	ND	3,800	560
bis(2-Chloroethoxy)methane	ND	750	25
2,4-Dichlorophenol	ND	750	28
1,2,4-Trichlorobenzene	ND	750	29
Naphthalene	52 J	150	29
4-Chloroaniline	ND	750	37
Hexachlorobutadiene	ND	750	31
4-Chloro-3-methylphenol	ND	750	32
2-Methylnaphthalene	ND	150	24
Hexachlorocyclopentadiene	ND	1,500	28
2,4,6-Trichlorophenol	ND	750	32
2,4,5-Trichlorophenol	ND	750	30
2-Chloronaphthalene	ND	750	23
2-Nitroaniline	ND	1,500	24
Dimethylphthalate	ND	750	28
Acenaphthylene	210	150	29
2,6-Dinitrotoluene	ND	750	28
3-Nitroaniline	ND	1,500	18
Acenaphthene	ND	150	25
2,4-Dinitrophenol	ND	1,500	210
4-Nitrophenol	ND	1,500	120
Dibenzofuran	34 J	750	32
2,4-Dinitrotoluene	ND	750	22
Diethylphthalate	ND	750	31
Fluorene	69 J	150	26
4-Chlorophenyl-phenylether	ND	750	28
4-Nitroaniline	ND	1,500	22
4,6-Dinitro-2-methylphenol	ND	1,500	160
N-Nitrosodiphenylamine	ND	750	30
Azobenzene	ND	750	32
4-Bromophenyl-phenylether	ND	750	29
Hexachlorobenzene	ND	750	31

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-5SW-1.2	Batch#:	221198
Lab ID:	265201-002	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	1,500	140
Phenanthrene	2,000	150	34
Anthracene	180	150	28
Di-n-butylphthalate	ND	750	33
Fluoranthene	2,600	150	29
Pyrene	3,200	150	26
Butylbenzylphthalate	ND	750	24
3,3'-Dichlorobenzidine	ND	1,500	25
Benzo(a)anthracene	870	150	27
Chrysene	1,100	150	33
bis(2-Ethylhexyl)phthalate	ND	750	33
Di-n-octylphthalate	ND	750	39
Benzo(b)fluoranthene	1,400	150	31
Benzo(k)fluoranthene	480	150	40
Benzo(a)pyrene	990	150	35
Indeno(1,2,3-cd)pyrene	960	150	34
Dibenz(a,h)anthracene	150 J	150	33
Benzo(g,h,i)perylene	1,200	150	29

Surrogate	%REC	Limits
2-Fluorophenol	53	25-120
Phenol-d5	65	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	75	44-120
2-Fluorobiphenyl	80	47-120
Terphenyl-d14	70	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-7SW-2.0	Batch#:	221198
Lab ID:	265201-003	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	10.00		

Moisture: 19%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	4,100	870
Phenol	ND	4,100	580
bis(2-Chloroethyl)ether	ND	4,100	670
2-Chlorophenol	ND	4,100	680
1,3-Dichlorobenzene	ND	4,100	460
1,4-Dichlorobenzene	ND	4,100	180
Benzyl alcohol	ND	4,100	620
1,2-Dichlorobenzene	ND	4,100	410
2-Methylphenol	ND	4,100	770
bis(2-Chloroisopropyl) ether	ND	4,100	1,000
4-Methylphenol	ND	4,100	640
N-Nitroso-di-n-propylamine	ND	4,100	610
Hexachloroethane	ND	4,100	320
Nitrobenzene	ND	4,100	180
Isophorone	ND	4,100	120
2-Nitrophenol	ND	8,200	130
2,4-Dimethylphenol	ND	4,100	170
Benzoic acid	ND	21,000	3,100
bis(2-Chloroethoxy)methane	ND	4,100	140
2,4-Dichlorophenol	ND	4,100	150
1,2,4-Trichlorobenzene	ND	4,100	160
Naphthalene	ND	820	160
4-Chloroaniline	ND	4,100	200
Hexachlorobutadiene	ND	4,100	170
4-Chloro-3-methylphenol	ND	4,100	170
2-Methylnaphthalene	ND	820	130
Hexachlorocyclopentadiene	ND	8,200	150
2,4,6-Trichlorophenol	ND	4,100	170
2,4,5-Trichlorophenol	ND	4,100	160
2-Chloronaphthalene	ND	4,100	130
2-Nitroaniline	ND	8,200	130
Dimethylphthalate	ND	4,100	150
Acenaphthylene	ND	820	160
2,6-Dinitrotoluene	ND	4,100	150
3-Nitroaniline	ND	8,200	100
Acenaphthene	ND	820	140
2,4-Dinitrophenol	ND	8,200	1,200
4-Nitrophenol	ND	8,200	640
Dibenzofuran	ND	4,100	180
2,4-Dinitrotoluene	ND	4,100	120
Diethylphthalate	ND	4,100	170
Fluorene	ND	820	140
4-Chlorophenyl-phenylether	ND	4,100	150
4-Nitroaniline	ND	8,200	120
4,6-Dinitro-2-methylphenol	ND	8,200	850
N-Nitrosodiphenylamine	ND	4,100	170
Azobenzene	ND	4,100	170
4-Bromophenyl-phenylether	ND	4,100	160

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-7SW-2.0	Batch#:	221198
Lab ID:	265201-003	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	10.00		

Analyte	Result	RL	MDL
Hexachlorobenzene	ND	4,100	170
Pentachlorophenol	ND	8,200	760
Phenanthrene	420 J	820	180
Anthracene	ND	820	150
Di-n-butylphthalate	ND	4,100	180
Fluoranthene	430 J	820	160
Pyrene	570 J	820	140
Butylbenzylphthalate	ND	4,100	130
3,3'-Dichlorobenzidine	ND	8,200	140
Benzo(a)anthracene	200 J	820	150
Chrysene	300 J	820	180
bis(2-Ethylhexyl)phthalate	ND	4,100	180
Di-n-octylphthalate	ND	4,100	210
Benzo(b)fluoranthene	300 J	820	170
Benzo(k)fluoranthene	ND	820	220
Benzo(a)pyrene	230 J	820	190
Indeno(1,2,3-cd)pyrene	ND	820	180
Dibenz(a,h)anthracene	ND	820	180
Benzo(g,h,i)perylene	210 J	820	160

Surrogate	%REC	Limits
2-Fluorophenol	DO	25-120
Phenol-d5	DO	36-120
2,4,6-Tribromophenol	DO	27-120
Nitrobenzene-d5	DO	44-120
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	49-120

J= Estimated value
DO= Diluted Out
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-4B-4.0	Batch#:	221198
Lab ID:	265201-004	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	410	86
Phenol	ND	410	57
bis(2-Chloroethyl)ether	ND	410	66
2-Chlorophenol	ND	410	67
1,3-Dichlorobenzene	ND	410	46
1,4-Dichlorobenzene	ND	410	18
Benzyl alcohol	ND	410	62
1,2-Dichlorobenzene	ND	410	41
2-Methylphenol	ND	410	76
bis(2-Chloroisopropyl) ether	ND	410	100
4-Methylphenol	ND	410	63
N-Nitroso-di-n-propylamine	ND	410	61
Hexachloroethane	ND	410	32
Nitrobenzene	ND	410	18
Isophorone	ND	410	12
2-Nitrophenol	ND	810	12
2,4-Dimethylphenol	ND	410	17
Benzoic acid	ND	2,000	300
bis(2-Chloroethoxy)methane	ND	410	14
2,4-Dichlorophenol	ND	410	15
1,2,4-Trichlorobenzene	ND	410	16
Naphthalene	ND	81	16
4-Chloroaniline	ND	410	20
Hexachlorobutadiene	ND	410	17
4-Chloro-3-methylphenol	ND	410	17
2-Methylnaphthalene	ND	81	13
Hexachlorocyclopentadiene	ND	810	15
2,4,6-Trichlorophenol	ND	410	17
2,4,5-Trichlorophenol	ND	410	16
2-Chloronaphthalene	ND	410	12
2-Nitroaniline	ND	810	13
Dimethylphthalate	ND	410	15
Acenaphthylene	ND	81	16
2,6-Dinitrotoluene	ND	410	15
3-Nitroaniline	ND	810	9.9
Acenaphthene	ND	81	14
2,4-Dinitrophenol	ND	810	110
4-Nitrophenol	ND	810	64
Dibenzofuran	ND	410	18
2,4-Dinitrotoluene	ND	410	12
Diethylphthalate	ND	410	17
Fluorene	ND	81	14
4-Chlorophenyl-phenylether	ND	410	15
4-Nitroaniline	ND	810	12
4,6-Dinitro-2-methylphenol	ND	810	85
N-Nitrosodiphenylamine	ND	410	16
Azobenzene	ND	410	17
4-Bromophenyl-phenylether	ND	410	15
Hexachlorobenzene	ND	410	17
Pentachlorophenol	ND	810	76

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-4B-4.0	Batch#:	221198
Lab ID:	265201-004	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	81	18
Anthracene	ND	81	15
Di-n-butylphthalate	ND	410	18
Fluoranthene	ND	81	16
Pyrene	ND	81	14
Butylbenzylphthalate	ND	410	13
3,3'-Dichlorobenzidine	ND	810	13
Benzo(a)anthracene	ND	81	14
Chrysene	ND	81	18
bis(2-Ethylhexyl)phthalate	ND	410	18
Di-n-octylphthalate	ND	410	21
Benzo(b)fluoranthene	ND	81	17
Benzo(k)fluoranthene	ND	81	22
Benzo(a)pyrene	ND	81	19
Indeno(1,2,3-cd)pyrene	ND	81	18
Dibenz(a,h)anthracene	ND	81	18
Benzo(g,h,i)perylene	ND	81	16

Surrogate	%REC	Limits
2-Fluorophenol	49	25-120
Phenol-d5	62	36-120
2,4,6-Tribromophenol	68	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	67	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-5B-4.0	Batch#:	221198
Lab ID:	265201-005	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Moisture: 24%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	440	92
Phenol	ND	440	61
bis(2-Chloroethyl)ether	ND	440	71
2-Chlorophenol	ND	440	72
1,3-Dichlorobenzene	ND	440	49
1,4-Dichlorobenzene	ND	440	19
Benzyl alcohol	ND	440	66
1,2-Dichlorobenzene	ND	440	44
2-Methylphenol	ND	440	81
bis(2-Chloroisopropyl) ether	ND	440	110
4-Methylphenol	ND	440	68
N-Nitroso-di-n-propylamine	ND	440	65
Hexachloroethane	ND	440	34
Nitrobenzene	ND	440	19
Isophorone	ND	440	13
2-Nitrophenol	ND	870	13
2,4-Dimethylphenol	ND	440	18
Benzoic acid	ND	2,200	330
bis(2-Chloroethoxy)methane	ND	440	15
2,4-Dichlorophenol	ND	440	16
1,2,4-Trichlorobenzene	ND	440	17
Naphthalene	ND	87	17
4-Chloroaniline	ND	440	21
Hexachlorobutadiene	ND	440	18
4-Chloro-3-methylphenol	ND	440	18
2-Methylnaphthalene	ND	87	14
Hexachlorocyclopentadiene	ND	870	16
2,4,6-Trichlorophenol	ND	440	18
2,4,5-Trichlorophenol	ND	440	17
2-Chloronaphthalene	ND	440	13
2-Nitroaniline	ND	870	14
Dimethylphthalate	ND	440	16
Acenaphthylene	ND	87	17
2,6-Dinitrotoluene	ND	440	16
3-Nitroaniline	ND	870	11
Acenaphthene	ND	87	15
2,4-Dinitrophenol	ND	870	120
4-Nitrophenol	ND	870	68
Dibenzofuran	ND	440	19
2,4-Dinitrotoluene	ND	440	13
Diethylphthalate	ND	440	18
Fluorene	ND	87	15
4-Chlorophenyl-phenylether	ND	440	16
4-Nitroaniline	ND	870	12
4,6-Dinitro-2-methylphenol	ND	870	91
N-Nitrosodiphenylamine	ND	440	18
Azobenzene	ND	440	18
4-Bromophenyl-phenylether	ND	440	17
Hexachlorobenzene	ND	440	18
Pentachlorophenol	ND	870	81

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-5B-4.0	Batch#:	221198
Lab ID:	265201-005	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	87	19
Anthracene	ND	87	16
Di-n-butylphthalate	ND	440	19
Fluoranthene	ND	87	17
Pyrene	ND	87	15
Butylbenzylphthalate	ND	440	14
3,3'-Dichlorobenzidine	ND	870	14
Benzo(a)anthracene	ND	87	15
Chrysene	ND	87	19
bis(2-Ethylhexyl)phthalate	ND	440	19
Di-n-octylphthalate	ND	440	22
Benzo(b)fluoranthene	ND	87	18
Benzo(k)fluoranthene	ND	87	23
Benzo(a)pyrene	ND	87	20
Indeno(1,2,3-cd)pyrene	ND	87	19
Dibenz(a,h)anthracene	ND	87	19
Benzo(g,h,i)perylene	ND	87	17

Surrogate	%REC	Limits
2-Fluorophenol	49	25-120
Phenol-d5	60	36-120
2,4,6-Tribromophenol	62	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	67	47-120
Terphenyl-d14	67	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780228	Batch#:	221198
Matrix:	Soil	Prepared:	03/11/15
Units:	ug/Kg	Analyzed:	03/12/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	70
Phenol	ND	330	47
bis(2-Chloroethyl)ether	ND	330	54
2-Chlorophenol	ND	330	55
1,3-Dichlorobenzene	ND	330	38
1,4-Dichlorobenzene	ND	330	15
Benzyl alcohol	ND	330	51
1,2-Dichlorobenzene	ND	330	33
2-Methylphenol	ND	330	62
bis(2-Chloroisopropyl) ether	ND	330	83
4-Methylphenol	ND	330	52
N-Nitroso-di-n-propylamine	ND	330	50
Hexachloroethane	ND	330	26
Nitrobenzene	ND	330	15
Isophorone	ND	330	9.7
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	330	11
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	13
Naphthalene	ND	67	13
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	14
4-Chloro-3-methylphenol	ND	330	14
2-Methylnaphthalene	ND	67	11
Hexachlorocyclopentadiene	ND	670	12
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	13
2-Chloronaphthalene	ND	330	10
2-Nitroaniline	ND	670	11
Dimethylphthalate	ND	330	12
Acenaphthylene	ND	67	13
2,6-Dinitrotoluene	ND	330	13
3-Nitroaniline	ND	670	8.1
Acenaphthene	ND	67	11
2,4-Dinitrophenol	ND	670	94
4-Nitrophenol	ND	670	52
Dibenzofuran	ND	330	14
2,4-Dinitrotoluene	ND	330	9.8
Diethylphthalate	ND	330	14
Fluorene	ND	67	12
4-Chlorophenyl-phenylether	ND	330	12
4-Nitroaniline	ND	670	9.5
4,6-Dinitro-2-methylphenol	ND	670	69
N-Nitrosodiphenylamine	ND	330	13
Azobenzene	ND	330	14
4-Bromophenyl-phenylether	ND	330	13
Hexachlorobenzene	ND	330	14
Pentachlorophenol	ND	670	62
Phenanthrene	ND	67	15
Anthracene	ND	67	12
Di-n-butylphthalate	ND	330	15

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780228	Batch#:	221198
Matrix:	Soil	Prepared:	03/11/15
Units:	ug/Kg	Analyzed:	03/12/15

Analyte	Result	RL	MDL
Fluoranthene	ND	67	13
Pyrene	ND	67	12
Butylbenzylphthalate	ND	330	11
3,3'-Dichlorobenzidine	ND	670	11
Benzo(a)anthracene	ND	67	12
Chrysene	ND	67	15
bis(2-Ethylhexyl)phthalate	ND	330	15
Di-n-octylphthalate	ND	330	17
Benzo(b)fluoranthene	ND	67	14
Benzo(k)fluoranthene	ND	67	18
Benzo(a)pyrene	ND	67	15
Indeno(1,2,3-cd)pyrene	ND	67	15
Dibenz(a,h)anthracene	ND	67	15
Benzo(g,h,i)perylene	ND	67	13

Surrogate	%REC	Limits
2-Fluorophenol	43	25-120
Phenol-d5	53	36-120
2,4,6-Tribromophenol	52	27-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	62	47-120
Terphenyl-d14	61	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC780229	Batch#:	221198
Matrix:	Soil	Prepared:	03/11/15
Units:	ug/Kg	Analyzed:	03/12/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,663	2,252	85	42-120
2-Chlorophenol	2,663	2,262	85	45-120
1,4-Dichlorobenzene	2,663	2,250	84	48-120
N-Nitroso-di-n-propylamine	2,663	2,249	84	27-123
1,2,4-Trichlorobenzene	2,663	2,165	81	50-120
4-Chloro-3-methylphenol	2,663	2,614	98	59-120
Acenaphthene	998.7	856.8	86	53-120
4-Nitrophenol	2,663	2,634	99	47-120
2,4-Dinitrotoluene	2,663	2,249	84	55-120
Pentachlorophenol	2,663	2,268	85	32-120
Pyrene	998.7	963.0	96	52-120

Surrogate	%REC	Limits
2-Fluorophenol	64	25-120
Phenol-d5	79	36-120
2,4,6-Tribromophenol	85	27-120
Nitrobenzene-d5	79	44-120
2-Fluorobiphenyl	77	47-120
Terphenyl-d14	80	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-6SW-2.0	Batch#:	221198
MSS Lab ID:	265201-001	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	ug/Kg	Prepared:	03/11/15
Basis:	dry	Analyzed:	03/12/15
Diln Fac:	2.000		

Type: MS Moisture: 13%
Lab ID: QC780230

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<325.1	3,074	2,372	77	47-120
2-Chlorophenol	<383.4	3,074	2,367	77	44-120
1,4-Dichlorobenzene	<102.7	3,074	1,829	59	49-120
N-Nitroso-di-n-propylamine	<346.4	3,074	2,423	79	42-120
1,2,4-Trichlorobenzene	<89.92	3,074	2,122	69	54-120
4-Chloro-3-methylphenol	<98.40	3,074	2,704	88	55-120
Acenaphthene	<77.82	1,153	897.8	78	51-120
4-Nitrophenol	<362.9	3,074	2,821	92	36-120
2,4-Dinitrotoluene	<68.23	3,074	2,185	71	52-120
Pentachlorophenol	<430.6	3,074	2,235	73	14-120
Pyrene	85.08	1,153	1,014	81	46-124

Surrogate	%REC	Limits
2-Fluorophenol	60	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	73	27-120
Nitrobenzene-d5	73	44-120
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	71	49-120

Type: MSD Moisture: 13%
Lab ID: QC780231

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,068	2,678	87	47-120	12	39
2-Chlorophenol	3,068	2,694	88	44-120	13	38
1,4-Dichlorobenzene	3,068	2,309	75	49-120	23	45
N-Nitroso-di-n-propylamine	3,068	2,585	84	42-120	7	40
1,2,4-Trichlorobenzene	3,068	2,486	81	54-120	16	38
4-Chloro-3-methylphenol	3,068	3,091	101	55-120	14	41
Acenaphthene	1,151	1,026	89	51-120	13	47
4-Nitrophenol	3,068	3,419	111	36-120	19	41
2,4-Dinitrotoluene	3,068	2,528	82	52-120	15	40
Pentachlorophenol	3,068	2,626	86	14-120	16	53
Pyrene	1,151	1,157	93	46-124	13	50

Surrogate	%REC	Limits
2-Fluorophenol	68	25-120
Phenol-d5	83	36-120
2,4,6-Tribromophenol	89	27-120
Nitrobenzene-d5	88	44-120
2-Fluorobiphenyl	70	47-120
Terphenyl-d14	83	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	221182
Units:	ug/Kg	Sampled:	03/10/15
Basis:	dry	Received:	03/10/15
Diln Fac:	1.000		

Field ID:	TRENCH2-6SW-2.0	Moisture:	13%
Type:	SAMPLE	Prepared:	03/11/15
Lab ID:	265201-001	Analyzed:	03/12/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	14	3.4
Aroclor-1221	ND	28	9.2
Aroclor-1232	ND	14	4.5
Aroclor-1242	ND	14	4.1
Aroclor-1248	ND	14	4.4
Aroclor-1254	ND	14	3.5
Aroclor-1260	ND	14	2.2

Surrogate	%REC	Limits
TCMX	76	46-141
Decachlorobiphenyl	81	25-135

Field ID:	TRENCH2-4B-4.0	Moisture:	18%
Type:	SAMPLE	Prepared:	03/11/15
Lab ID:	265201-004	Analyzed:	03/12/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	15	3.6
Aroclor-1221	ND	29	9.7
Aroclor-1232	ND	15	4.7
Aroclor-1242	ND	15	4.3
Aroclor-1248	ND	15	4.6
Aroclor-1254	ND	15	3.7
Aroclor-1260	ND	15	2.3

Surrogate	%REC	Limits
TCMX	65	46-141
Decachlorobiphenyl	78	25-135

Type:	BLANK	Prepared:	03/10/15
Lab ID:	QC780164	Analyzed:	03/10/15

Analyte	Result	RL	MDL
Aroclor-1016	ND	12	3.0
Aroclor-1221	ND	24	8.0
Aroclor-1232	ND	12	3.9
Aroclor-1242	ND	12	3.6
Aroclor-1248	ND	12	3.8
Aroclor-1254	ND	12	3.1
Aroclor-1260	ND	12	1.9

Surrogate	%REC	Limits
TCMX	89	46-141
Decachlorobiphenyl	101	25-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780165	Batch#:	221182
Matrix:	Soil	Prepared:	03/10/15
Units:	ug/Kg	Analyzed:	03/10/15

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.9	165.9	101	64-140
Aroclor-1260	164.9	169.6	103	65-146

Surrogate	%REC	Limits
TCMX	81	46-141
Decachlorobiphenyl	93	25-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	221182
MSS Lab ID:	265166-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/09/15
Units:	ug/Kg	Prepared:	03/10/15
Basis:	as received	Analyzed:	03/10/15
Diln Fac:	1.000		

Type: MS Lab ID: QC780166

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.981	168.0	118.5	71	60-161
Aroclor-1260	<1.950	168.0	127.0	76	42-166

Surrogate	%REC	Limits
TCMX	54	46-141
Decachlorobiphenyl	38	25-135

Type: MSD Lab ID: QC780167

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.1	152.5	92	60-161	26	43
Aroclor-1260	166.1	172.2	104	42-166	31	51

Surrogate	%REC	Limits
TCMX	83	46-141
Decachlorobiphenyl	45	25-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265201	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-6SW-2.0	Diln Fac:	1.000
Lab ID:	265201-001	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Analyzed:	03/16/15
Basis:	dry		

Moisture: 13%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.99	0.53	0.16	221321	03/15/15	EPA 3050B	EPA 6010B
Arsenic	6.8	0.27	0.077	221321	03/15/15	EPA 3050B	EPA 6010B
Barium	180	0.27	0.057	221321	03/15/15	EPA 3050B	EPA 6010B
Beryllium	0.40	0.11	0.013	221321	03/15/15	EPA 3050B	EPA 6010B
Cadmium	1.0	0.27	0.027	221321	03/15/15	EPA 3050B	EPA 6010B
Chromium	30	0.27	0.067	221321	03/15/15	EPA 3050B	EPA 6010B
Cobalt	7.1	0.27	0.032	221321	03/15/15	EPA 3050B	EPA 6010B
Copper	39	0.27	0.089	221321	03/15/15	EPA 3050B	EPA 6010B
Lead	180	0.27	0.074	221321	03/15/15	EPA 3050B	EPA 6010B
Mercury	0.36	0.019	0.0011	221340	03/16/15	METHOD	EPA 7471A
Molybdenum	0.51	0.27	0.052	221321	03/15/15	EPA 3050B	EPA 6010B
Nickel	37	0.27	0.070	221321	03/15/15	EPA 3050B	EPA 6010B
Selenium	ND	0.53	0.17	221321	03/15/15	EPA 3050B	EPA 6010B
Silver	0.21 J	0.27	0.042	221321	03/15/15	EPA 3050B	EPA 6010B
Thallium	0.43 J	0.53	0.15	221321	03/15/15	EPA 3050B	EPA 6010B
Vanadium	36	0.27	0.061	221321	03/15/15	EPA 3050B	EPA 6010B
Zinc	190	1.1	0.060	221321	03/15/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265201	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-5SW-1.2	Basis:	dry
Lab ID:	265201-002	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Analyzed:	03/16/15

Moisture: 11%

Analyte	Result	RL	MDL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	16	0.51	0.15	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Arsenic	5.3	0.26	0.074	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Barium	290	0.26	0.055	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Beryllium	0.37	0.10	0.013	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Cadmium	0.96	0.26	0.026	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Chromium	22	0.26	0.064	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Cobalt	8.6	0.26	0.031	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Copper	35	0.26	0.085	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Lead	860	26	7.5	100.0	221321	03/15/15	EPA 3050B	EPA 6010B
Mercury	0.32	0.019	0.0010	1.000	221340	03/16/15	METHOD	EPA 7471A
Molybdenum	0.25 J	0.26	0.050	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Nickel	25	0.26	0.067	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Selenium	0.17 J	0.51	0.16	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Silver	ND	0.26	0.041	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Thallium	0.38 J	0.51	0.14	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Vanadium	35	0.26	0.058	1.000	221321	03/15/15	EPA 3050B	EPA 6010B
Zinc	110	1.0	0.057	1.000	221321	03/15/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265201	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-7SW-2.0	Diln Fac:	1.000
Lab ID:	265201-003	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Analyzed:	03/16/15
Basis:	dry		

Moisture: 19%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.91	0.57	0.17	221321	03/15/15	EPA 3050B	EPA 6010B
Arsenic	4.8	0.29	0.083	221321	03/15/15	EPA 3050B	EPA 6010B
Barium	290	0.29	0.061	221321	03/15/15	EPA 3050B	EPA 6010B
Beryllium	0.39	0.11	0.014	221321	03/15/15	EPA 3050B	EPA 6010B
Cadmium	1.1	0.29	0.029	221321	03/15/15	EPA 3050B	EPA 6010B
Chromium	33	0.29	0.072	221321	03/15/15	EPA 3050B	EPA 6010B
Cobalt	7.3	0.29	0.034	221321	03/15/15	EPA 3050B	EPA 6010B
Copper	49	0.29	0.095	221321	03/15/15	EPA 3050B	EPA 6010B
Lead	310	0.29	0.080	221321	03/15/15	EPA 3050B	EPA 6010B
Mercury	0.85	0.022	0.0013	221340	03/16/15	METHOD	EPA 7471A
Molybdenum	0.50	0.29	0.056	221321	03/15/15	EPA 3050B	EPA 6010B
Nickel	38	0.29	0.075	221321	03/15/15	EPA 3050B	EPA 6010B
Selenium	ND	0.57	0.18	221321	03/15/15	EPA 3050B	EPA 6010B
Silver	0.31	0.29	0.046	221321	03/15/15	EPA 3050B	EPA 6010B
Thallium	0.53 J	0.57	0.16	221321	03/15/15	EPA 3050B	EPA 6010B
Vanadium	33	0.29	0.065	221321	03/15/15	EPA 3050B	EPA 6010B
Zinc	290	1.1	0.064	221321	03/15/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265201	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-4B-4.0	Diln Fac:	1.000
Lab ID:	265201-004	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Analyzed:	03/16/15
Basis:	dry		

Moisture: 18%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.74	0.67	0.20	221321	03/15/15	EPA 3050B	EPA 6010B
Arsenic	3.8	0.34	0.097	221321	03/15/15	EPA 3050B	EPA 6010B
Barium	170	0.34	0.072	221321	03/15/15	EPA 3050B	EPA 6010B
Beryllium	0.52	0.13	0.017	221321	03/15/15	EPA 3050B	EPA 6010B
Cadmium	0.55	0.34	0.034	221321	03/15/15	EPA 3050B	EPA 6010B
Chromium	41	0.34	0.084	221321	03/15/15	EPA 3050B	EPA 6010B
Cobalt	9.1	0.34	0.040	221321	03/15/15	EPA 3050B	EPA 6010B
Copper	21	0.34	0.11	221321	03/15/15	EPA 3050B	EPA 6010B
Lead	25	0.34	0.093	221321	03/15/15	EPA 3050B	EPA 6010B
Mercury	0.049	0.021	0.0012	221340	03/16/15	METHOD	EPA 7471A
Molybdenum	0.10 J	0.34	0.065	221321	03/15/15	EPA 3050B	EPA 6010B
Nickel	63	0.34	0.088	221321	03/15/15	EPA 3050B	EPA 6010B
Selenium	0.53 J	0.67	0.21	221321	03/15/15	EPA 3050B	EPA 6010B
Silver	ND	0.34	0.053	221321	03/15/15	EPA 3050B	EPA 6010B
Thallium	0.29 J	0.67	0.19	221321	03/15/15	EPA 3050B	EPA 6010B
Vanadium	55	0.34	0.076	221321	03/15/15	EPA 3050B	EPA 6010B
Zinc	45	1.3	0.075	221321	03/15/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265201	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-5B-4.0	Diln Fac:	1.000
Lab ID:	265201-005	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Analyzed:	03/16/15
Basis:	dry		

Moisture: 24%

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	0.61 J	0.69	0.21	221321	03/15/15	EPA 3050B	EPA 6010B
Arsenic	3.8	0.35	0.10	221321	03/15/15	EPA 3050B	EPA 6010B
Barium	240	0.35	0.074	221321	03/15/15	EPA 3050B	EPA 6010B
Beryllium	0.57	0.14	0.017	221321	03/15/15	EPA 3050B	EPA 6010B
Cadmium	0.56	0.35	0.035	221321	03/15/15	EPA 3050B	EPA 6010B
Chromium	41	0.35	0.087	221321	03/15/15	EPA 3050B	EPA 6010B
Cobalt	6.8	0.35	0.041	221321	03/15/15	EPA 3050B	EPA 6010B
Copper	26	0.35	0.12	221321	03/15/15	EPA 3050B	EPA 6010B
Lead	6.6	0.35	0.096	221321	03/15/15	EPA 3050B	EPA 6010B
Mercury	0.039	0.023	0.0013	221340	03/16/15	METHOD	EPA 7471A
Molybdenum	0.18 J	0.35	0.068	221321	03/15/15	EPA 3050B	EPA 6010B
Nickel	49	0.35	0.091	221321	03/15/15	EPA 3050B	EPA 6010B
Selenium	0.64 J	0.69	0.22	221321	03/15/15	EPA 3050B	EPA 6010B
Silver	ND	0.35	0.055	221321	03/15/15	EPA 3050B	EPA 6010B
Thallium	0.26 J	0.69	0.19	221321	03/15/15	EPA 3050B	EPA 6010B
Vanadium	31	0.35	0.079	221321	03/15/15	EPA 3050B	EPA 6010B
Zinc	46	1.4	0.078	221321	03/15/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780661	Batch#:	221321
Matrix:	Soil	Prepared:	03/15/15
Units:	mg/Kg	Analyzed:	03/15/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	0.12 J	1.0	0.056

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221321
Units:	mg/Kg	Prepared:	03/15/15
Diln Fac:	5.000	Analyzed:	03/15/15

Type: BS Lab ID: QC780662

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	50.90	102	80-120
Arsenic	50.00	51.57	103	80-120
Barium	50.00	51.58	103	80-120
Beryllium	50.00	52.88	106	80-120
Cadmium	50.00	53.44	107	80-120
Chromium	50.00	52.15	104	80-120
Cobalt	50.00	48.39	97	80-120
Copper	50.00	50.38	101	80-120
Lead	50.00	48.56	97	80-120
Molybdenum	50.00	51.63	103	80-120
Nickel	50.00	51.03	102	80-120
Selenium	50.00	50.71	101	80-120
Silver	50.00	49.38	99	80-120
Thallium	50.00	48.79	98	80-120
Vanadium	50.00	53.88	108	80-120
Zinc	50.00	51.30	103	80-120

Type: BSD Lab ID: QC780663

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	49.46	99	80-120	3	20
Arsenic	50.00	50.18	100	80-120	3	20
Barium	50.00	50.50	101	80-120	2	20
Beryllium	50.00	52.24	104	80-120	1	20
Cadmium	50.00	52.25	104	80-120	2	20
Chromium	50.00	50.93	102	80-120	2	20
Cobalt	50.00	47.00	94	80-120	3	20
Copper	50.00	49.54	99	80-120	2	20
Lead	50.00	47.09	94	80-120	3	20
Molybdenum	50.00	50.27	101	80-120	3	20
Nickel	50.00	49.85	100	80-120	2	20
Selenium	50.00	49.08	98	80-120	3	20
Silver	50.00	48.80	98	80-120	1	20
Thallium	50.00	47.04	94	80-120	4	20
Vanadium	50.00	52.78	106	80-120	2	20
Zinc	50.00	50.03	100	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	221321
MSS Lab ID:	265295-001	Sampled:	03/13/15
Matrix:	Soil	Received:	03/13/15
Units:	mg/Kg	Prepared:	03/15/15
Basis:	as received	Analyzed:	03/15/15
Diln Fac:	5.000		

Type: MS Lab ID: QC780664

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.5107	47.62	21.87	45	15-120
Arsenic	3.249	47.62	55.26	109	69-120
Barium	77.38	47.62	149.9	152	35-154
Beryllium	0.2820	47.62	55.20	115	75-120
Cadmium	0.5631	47.62	54.86	114	71-120
Chromium	39.39	47.62	100.9	129	57-133
Cobalt	7.920	47.62	57.76	105	56-125
Copper	13.72	47.62	67.36	113	54-144
Lead	53.43	47.62	98.10	94	53-125
Molybdenum	0.3275	47.62	49.60	103	66-120
Nickel	33.44	47.62	92.87	125	44-141
Selenium	<0.1566	47.62	50.62	106	61-120
Silver	0.1382	47.62	51.95	109	69-120
Thallium	<0.1598	47.62	47.86	100	59-120
Vanadium	40.68	47.62	97.68	120	52-144
Zinc	46.60	47.62	101.4	115	45-145

Type: MSD Lab ID: QC780665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	46.30	20.15	42	15-120	5	41
Arsenic	46.30	50.63	102	69-120	6	35
Barium	46.30	243.3	358 *	35-154	49 *	36
Beryllium	46.30	49.74	107	75-120	8	20
Cadmium	46.30	49.69	106	71-120	7	25
Chromium	46.30	97.79	126	57-133	2	33
Cobalt	46.30	53.66	99	56-125	5	36
Copper	46.30	66.87	115	54-144	1	38
Lead	46.30	96.46	93	53-125	0	42
Molybdenum	46.30	45.97	99	66-120	5	20
Nickel	46.30	90.92	124	44-141	0	39
Selenium	46.30	45.96	99	61-120	7	33
Silver	46.30	47.25	102	69-120	7	22
Thallium	46.30	43.02	93	59-120	8	27
Vanadium	46.30	94.07	115	52-144	2	29
Zinc	46.30	101.5	118	45-145	1	39

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221340
Lab ID:	QC780738	Prepared:	03/16/15
Matrix:	Soil	Analyzed:	03/16/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	221340
Matrix:	Soil	Prepared:	03/16/15
Units:	mg/Kg	Analyzed:	03/16/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC780739	0.2083	0.2237	107	80-120		
BSD	QC780740	0.2083	0.2356	113	80-120	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	221340
MSS Lab ID:	265199-001	Sampled:	03/10/15
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Prepared:	03/16/15
Basis:	as received	Analyzed:	03/16/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC780741	0.01716	0.2016	0.2325	107	69-142		
MSD	QC780742		0.1984	0.2263	105	69-142	1	36

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	221436
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Prepared:	03/20/15 14:10
Basis:	dry	Analyzed:	03/26/15 12:30
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Moisture	Sampled
TRENCH2-6SW-2.0	SAMPLE	265201-001	ND	0.44	13%	03/10/15 10:10
TRENCH2-4B-4.0	SAMPLE	265201-004	ND	0.45	18%	03/10/15 10:05
	BLANK	QC781118	ND	0.40		

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	TRENCH2-6SW-2.0	Batch#:	221436
MSS Lab ID:	265201-001	Sampled:	03/10/15 10:10
Matrix:	Soil	Received:	03/10/15
Units:	mg/Kg	Prepared:	03/20/15 14:10
Basis:	dry	Analyzed:	03/26/15 12:30

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	Moisture	RPD	Lim
LCS	QC781119		40.00	37.44		94	80-120			
SDUP	QC781120	<0.4368		<0.4713	0.4713			13%	NC	30
SSPIKE	QC781121	<0.4368	46.34	35.74		77 *	85-115	13%		
SSPIKE	QC781122	<0.4368	1,791	1,367		76 *	85-115	13%		
SSPIKE	QC781123	<0.4368	43.54	31.87		73 *	85-115	13%		

*= Value outside of QC limits; see narrative
NC= Not Calculated
RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Moisture

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	221210
Matrix:	Soil	Sampled:	03/10/15
Units:	%	Received:	03/10/15
Diln Fac:	1.000	Analyzed:	03/11/15

Field ID	Lab ID	Result	RL
TRENCH2-6SW-2.0	265201-001	13	1
TRENCH2-5SW-1.2	265201-002	11	1
TRENCH2-7SW-2.0	265201-003	19	1
TRENCH2-4B-4.0	265201-004	18	1
TRENCH2-5B-4.0	265201-005	24	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	265201	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	TRENCH2-5B-4.0	Diln Fac:	1.000
Type:	SDUP	Batch#:	221210
MSS Lab ID:	265201-005	Sampled:	03/10/15
Lab ID:	QC780267	Received:	03/10/15
Matrix:	Soil	Analyzed:	03/11/15

MSS Result	Result	RL	RPD	Lim
23.84	23.68	1.000	1	26

RL= Reporting Limit
RPD= Relative Percent Difference

40.0

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265214
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
TRENCH2-6B-4.0	265214-001
TRENCH2-8SW-2.0	265214-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 03/19/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**265214**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Allied Engineering**
Request Date:	**03/11/15**
Samples Received:	**03/11/15**

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 03/11/15. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Bis(2-ethylhexyl)phthalate was detected between the MDL and the RL in the method blank for batch 221285; this analyte was not detected in samples at or above the RL. TRENCH2-8SW-2.0 (lab # 265214-002) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
No analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

CHAIN OF CUSTODY

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Berkeley, CA 94710

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Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 260214

Project No: C1374
Project Name: Allied Engineering
Project P. O. No: C1374 0303
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: C. Kyler
Report To: D. DeShields
Company: Integral Consulting Inc
Telephone:
Email: bdeshields@integral-corp.com

Lab No.	Sample ID.	Sampling: Date Collected	Sampling: Time Collected	Matrix: Water	Matrix: Solid	# of Containers	Chemical Preservative: HCl	H2SO4	HNO3	NaOH	None	TPH d by 8015	TPH mo by 8015	Tity 22 Metals by 6010	SVOCs by 8270
	TRENCH2-6B-4.0	3/11/15	0855		X	1					1	X	X	X	X
	TRENCH2-BSW-2.0	3/11/15	0900		X	1					1	X	X	X	X

CBL 3/11/15

CBL 3/11/15

Notes:
- Report all to MDL
- EDF required
- Homogenize sample prior to analysis
- Report in dry weight w/ % moisture

SAMPLE RECEIPT
☐ Intact
☐ Cold
☒ On Ice
☐ Ambient

RELINQUISHED BY:
CN — DATE: 3/4/15 TIME: 1311
DATE: TIME:
DATE: TIME:

RECEIVED BY:
Pat Hanagh — DATE: 3/11/15 TIME: 13:11
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 265214 Date Received 3/1/15 Number of coolers 1
Client Integral consulting Project Allied Engineering

Date Opened 3/11 By (print) SL (sign) [signature]
Date Logged in 3/11 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☒ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 265214

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Allied Engineering

Client Sample ID : TRENCH2-6B-4.0 Laboratory Sample ID : 265214-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	0.98	J	1.1	0.35	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	3.0	J	5.7	1.7	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Antimony	0.38	J	0.56	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	5.2		0.28	0.082	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	67		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.30		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.28	J	0.28	0.029	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	31		0.28	0.071	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	3.2		0.28	0.034	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	6.4		0.28	0.094	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	3.6		0.28	0.078	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.015	J	0.019	0.0011	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.077	J	0.28	0.055	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	24		0.28	0.074	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Selenium	0.22	J	0.56	0.18	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	33		0.28	0.064	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	21		1.1	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	12		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : TRENCH2-8SW-2.0 Laboratory Sample ID : 265214-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	21	Y	1.2	0.36	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	85		5.9	1.8	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Phenanthrene	55	J	240	29	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Fluoranthene	74	J	240	33	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Pyrene	82	J	240	26	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(a)anthracene	40	J	240	24	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Chrysene	63	J	240	29	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(b)fluoranthene	75	J	240	21	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(k)fluoranthene	21	J	240	21	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(a)pyrene	54	J	240	21	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Indeno(1,2,3-cd)pyrene	50	J	240	27	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Benzo(g,h,i)perylene	76	J	240	29	ug/Kg	Dry	3.000	EPA 8270C	EPA 3550B
Antimony	0.70		0.55	0.17	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Arsenic	4.3		0.28	0.081	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Barium	170		0.28	0.060	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Beryllium	0.42		0.11	0.014	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cadmium	0.69		0.28	0.028	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Chromium	36		0.28	0.070	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Cobalt	6.5		0.28	0.033	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Copper	39		0.28	0.093	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Lead	83		0.28	0.077	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Mercury	0.28		0.021	0.0012	mg/Kg	Dry	1.000	EPA 7471A	METHOD
Molybdenum	0.26	J	0.28	0.054	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Nickel	41		0.28	0.073	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Silver	0.055	J	0.28	0.044	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Thallium	0.49	J	0.55	0.16	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Vanadium	30		0.28	0.063	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Zinc	100		1.1	0.062	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B
Moisture, Percent	15		1		%	As Recd	1.000	ASTM D2216/CLP	METHOD

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/11/15
Units:	mg/Kg	Received:	03/11/15
Basis:	dry	Prepared:	03/12/15
Diln Fac:	1.000	Analyzed:	03/13/15
Batch#:	221252		

Field ID: TRENCH2-6B-4.0 Lab ID: 265214-001
Type: SAMPLE Moisture: 12%

Analyte	Result	RL	MDL
Diesel C10-C24	0.98 J	1.1	0.35
Motor Oil C24-C36	3.0 J	5.7	1.7

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Field ID: TRENCH2-8SW-2.0 Lab ID: 265214-002
Type: SAMPLE Moisture: 15%

Analyte	Result	RL	MDL
Diesel C10-C24	21 Y	1.2	0.36
Motor Oil C24-C36	85	5.9	1.8

Surrogate	%REC	Limits
o-Terphenyl	114	59-140

Type: BLANK Lab ID: QC780410

Analyte	Result	RL	MDL
Diesel C10-C24	ND	1.0	0.31
Motor Oil C24-C36	ND	5.0	1.5

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780411	Batch#:	221252
Matrix:	Soil	Prepared:	03/12/15
Units:	mg/Kg	Analyzed:	03/13/15

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.06	51.73	103	58-137

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8015B
Field ID:	TRENCH2-6B-4.0	Batch#:	221252
MSS Lab ID:	265214-001	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	mg/Kg	Prepared:	03/12/15
Basis:	dry	Analyzed:	03/13/15
Diln Fac:	1.000		

Type: MS Moisture: 12%
Lab ID: QC780412

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.9839	56.60	56.39	98	46-154

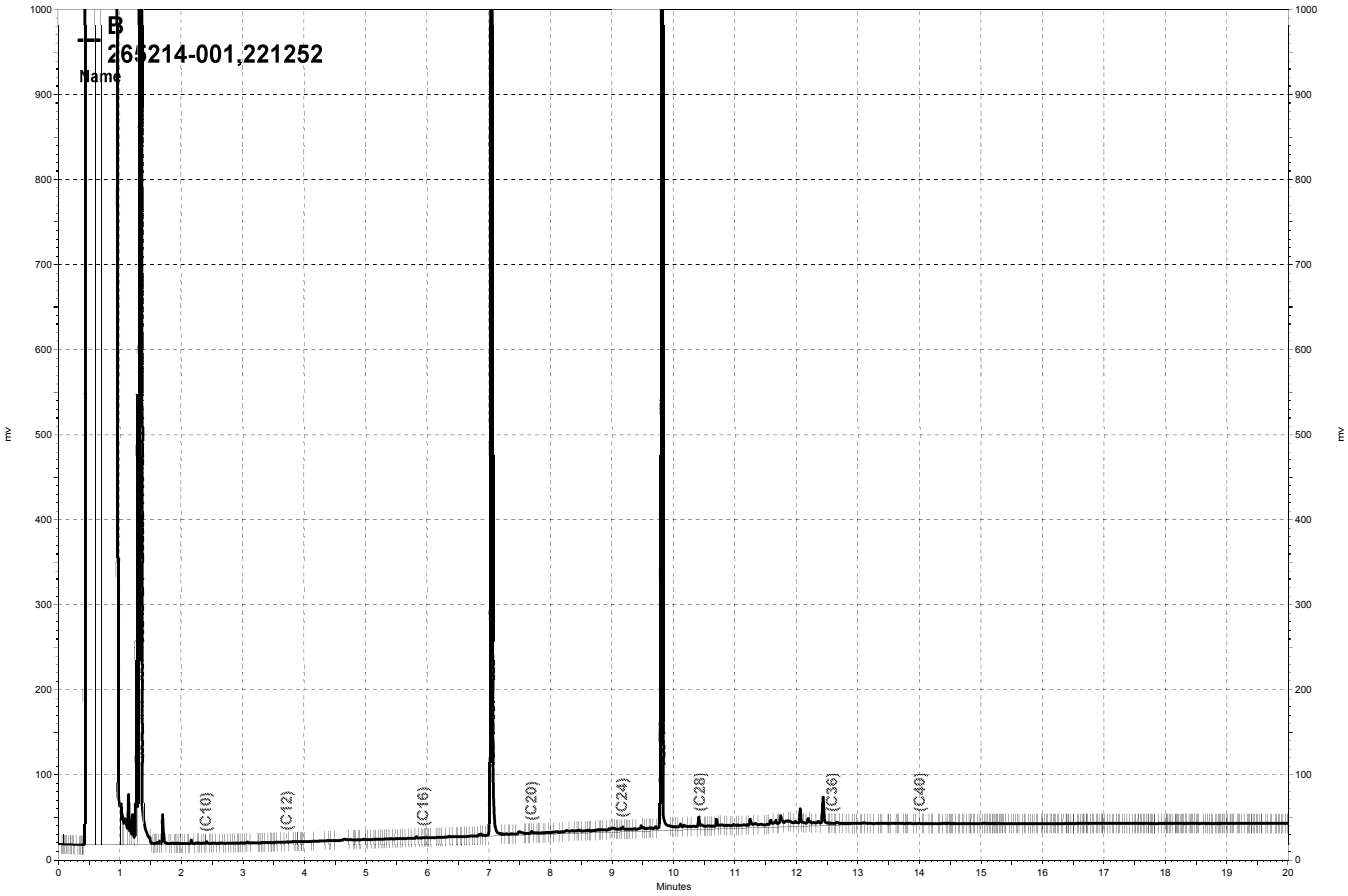
Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Type: MSD Moisture: 12%
Lab ID: QC780413

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	56.72	55.85	97	46-154	1	50

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

RPD= Relative Percent Difference



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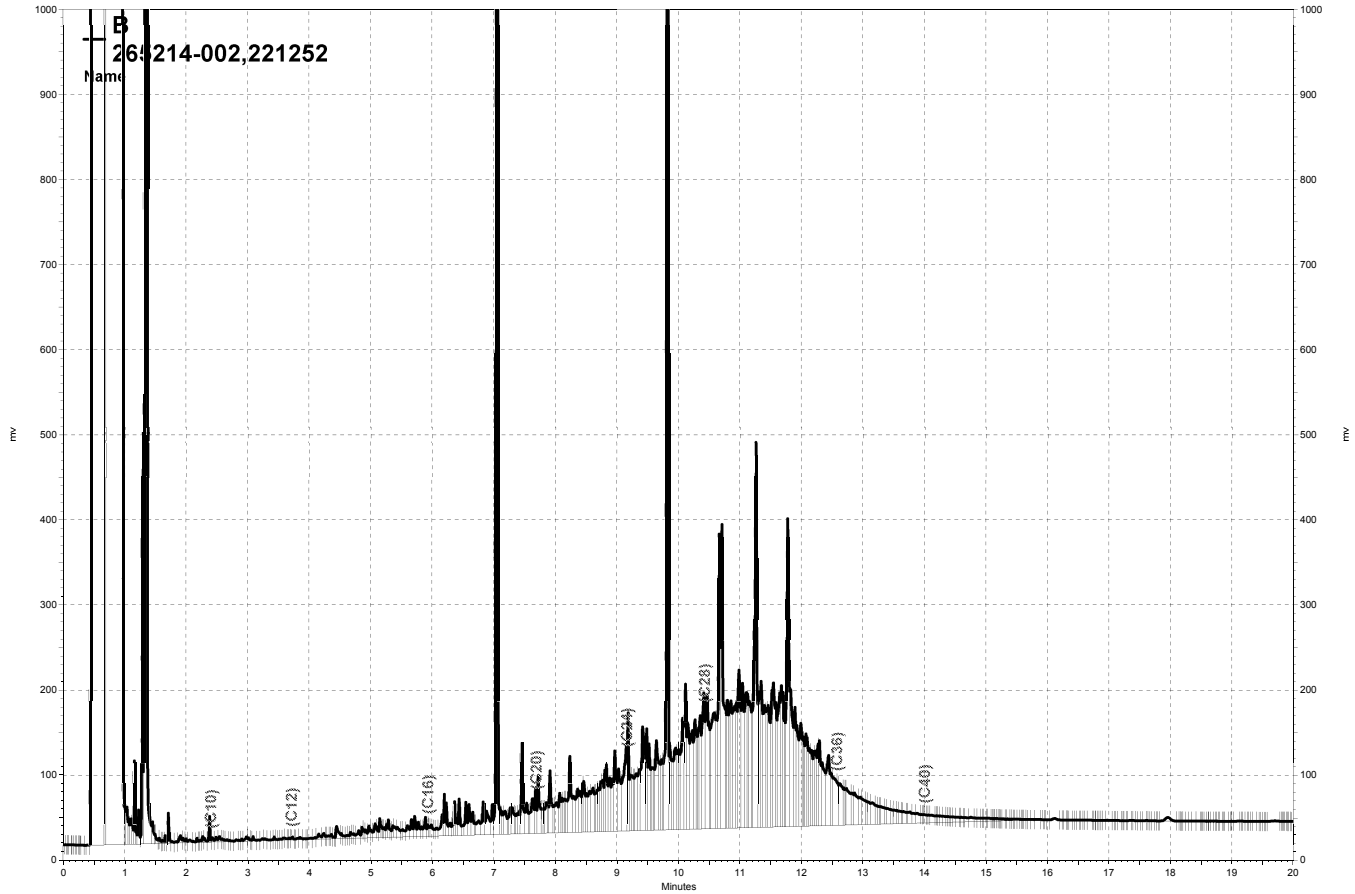

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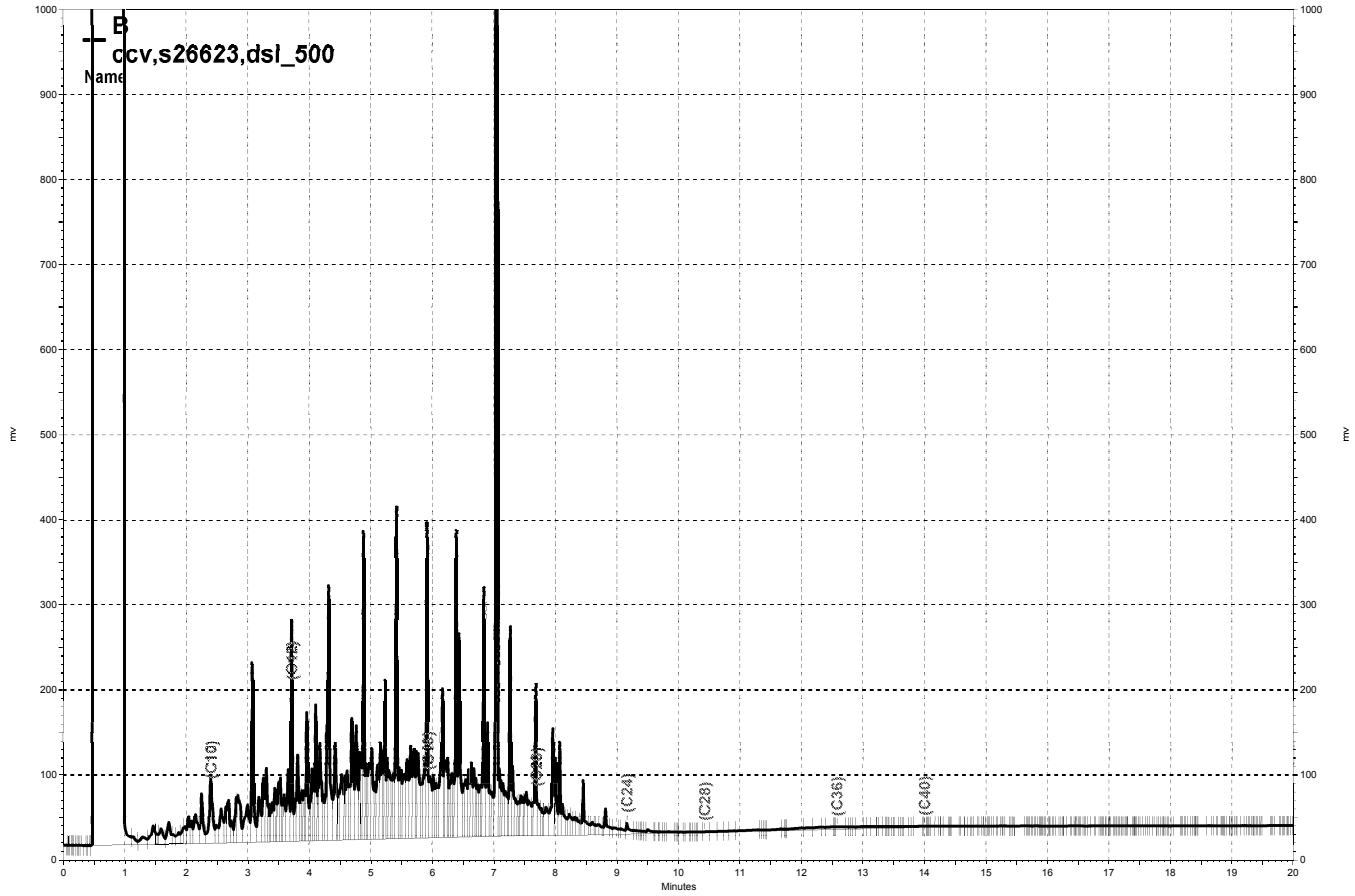

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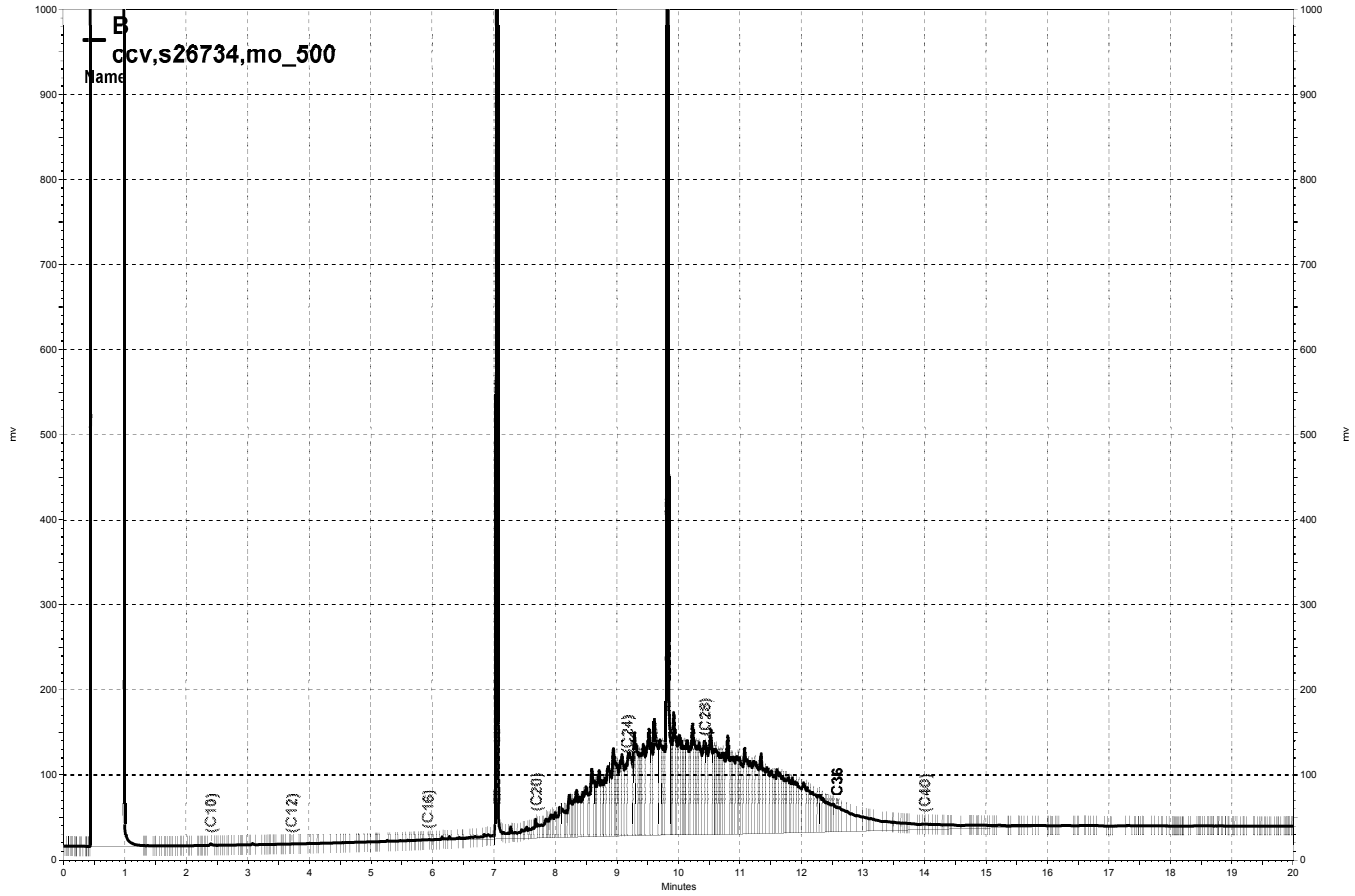

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-6B-4.0	Batch#:	221285
Lab ID:	265214-001	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	ug/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/13/15
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	380	80
Phenol	ND	380	53
bis(2-Chloroethyl)ether	ND	380	61
2-Chlorophenol	ND	380	62
1,3-Dichlorobenzene	ND	380	42
1,4-Dichlorobenzene	ND	380	17
Benzyl alcohol	ND	380	57
1,2-Dichlorobenzene	ND	380	38
2-Methylphenol	ND	380	70
bis(2-Chloroisopropyl) ether	ND	380	94
4-Methylphenol	ND	380	58
N-Nitroso-di-n-propylamine	ND	380	56
Hexachloroethane	ND	380	29
Nitrobenzene	ND	380	16
Isophorone	ND	380	11
2-Nitrophenol	ND	750	12
2,4-Dimethylphenol	ND	380	16
Benzoic acid	ND	1,900	280
bis(2-Chloroethoxy)methane	ND	380	13
2,4-Dichlorophenol	ND	380	14
1,2,4-Trichlorobenzene	ND	380	15
Naphthalene	ND	75	14
4-Chloroaniline	ND	380	19
Hexachlorobutadiene	ND	380	15
4-Chloro-3-methylphenol	ND	380	16
2-Methylnaphthalene	ND	75	12
Hexachlorocyclopentadiene	ND	750	14
2,4,6-Trichlorophenol	ND	380	16
2,4,5-Trichlorophenol	ND	380	15
2-Chloronaphthalene	ND	380	12
2-Nitroaniline	ND	750	12
Dimethylphthalate	ND	380	14
Acenaphthylene	ND	75	14
2,6-Dinitrotoluene	ND	380	14
3-Nitroaniline	ND	750	9.2
Acenaphthene	ND	75	13
2,4-Dinitrophenol	ND	750	110
4-Nitrophenol	ND	750	59
Dibenzofuran	ND	380	16
2,4-Dinitrotoluene	ND	380	11
Diethylphthalate	ND	380	15
Fluorene	ND	75	13
4-Chlorophenyl-phenylether	ND	380	14
4-Nitroaniline	ND	750	11
4,6-Dinitro-2-methylphenol	ND	750	78
N-Nitrosodiphenylamine	ND	380	15
Azobenzene	ND	380	16
4-Bromophenyl-phenylether	ND	380	14
Hexachlorobenzene	ND	380	15
Pentachlorophenol	ND	750	70

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-6B-4.0	Batch#:	221285
Lab ID:	265214-001	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	ug/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/13/15
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Phenanthrene	ND	75	17
Anthracene	ND	75	14
Di-n-butylphthalate	ND	380	16
Fluoranthene	ND	75	15
Pyrene	ND	75	13
Butylbenzylphthalate	ND	380	12
3,3'-Dichlorobenzidine	ND	750	12
Benzo(a)anthracene	ND	75	13
Chrysene	ND	75	16
bis(2-Ethylhexyl)phthalate	ND	380	17
Di-n-octylphthalate	ND	380	19
Benzo(b)fluoranthene	ND	75	16
Benzo(k)fluoranthene	ND	75	20
Benzo(a)pyrene	ND	75	17
Indeno(1,2,3-cd)pyrene	ND	75	17
Dibenz(a,h)anthracene	ND	75	16
Benzo(g,h,i)perylene	ND	75	15

Surrogate	%REC	Limits
2-Fluorophenol	46	25-120
Phenol-d5	57	36-120
2,4,6-Tribromophenol	55	27-120
Nitrobenzene-d5	64	44-120
2-Fluorobiphenyl	60	47-120
Terphenyl-d14	58	49-120

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-8SW-2.0	Batch#:	221285
Lab ID:	265214-002	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	ug/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/16/15
Diln Fac:	3.000		

Moisture: 15%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	1,200	77
Phenol	ND	1,200	53
bis(2-Chloroethyl)ether	ND	1,200	56
2-Chlorophenol	ND	1,200	49
1,3-Dichlorobenzene	ND	1,200	46
1,4-Dichlorobenzene	ND	1,200	26
Benzyl alcohol	ND	1,200	58
1,2-Dichlorobenzene	ND	1,200	37
2-Methylphenol	ND	1,200	51
bis(2-Chloroisopropyl) ether	ND	1,200	56
4-Methylphenol	ND	1,200	56
N-Nitroso-di-n-propylamine	ND	1,200	54
Hexachloroethane	ND	1,200	37
Nitrobenzene	ND	1,200	32
Isophorone	ND	1,200	36
2-Nitrophenol	ND	2,400	140
2,4-Dimethylphenol	ND	1,200	66
Benzoic acid	ND	5,900	1,300
bis(2-Chloroethoxy)methane	ND	1,200	36
2,4-Dichlorophenol	ND	1,200	33
1,2,4-Trichlorobenzene	ND	1,200	30
Naphthalene	ND	240	46
4-Chloroaniline	ND	1,200	45
Hexachlorobutadiene	ND	1,200	30
4-Chloro-3-methylphenol	ND	1,200	31
2-Methylnaphthalene	ND	240	35
Hexachlorocyclopentadiene	ND	2,400	270
2,4,6-Trichlorophenol	ND	1,200	39
2,4,5-Trichlorophenol	ND	1,200	32
2-Chloronaphthalene	ND	1,200	27
2-Nitroaniline	ND	2,400	120
Dimethylphthalate	ND	1,200	25
Acenaphthylene	ND	240	29
2,6-Dinitrotoluene	ND	1,200	120
3-Nitroaniline	ND	2,400	26
Acenaphthene	ND	240	24
2,4-Dinitrophenol	ND	2,400	170
4-Nitrophenol	ND	2,400	25
Dibenzofuran	ND	1,200	30
2,4-Dinitrotoluene	ND	1,200	29
Diethylphthalate	ND	1,200	30
Fluorene	ND	240	28
4-Chlorophenyl-phenylether	ND	1,200	30
4-Nitroaniline	ND	2,400	37
4,6-Dinitro-2-methylphenol	ND	2,400	120
N-Nitrosodiphenylamine	ND	1,200	28
Azobenzene	ND	1,200	25
4-Bromophenyl-phenylether	ND	1,200	29
Hexachlorobenzene	ND	1,200	24

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-8SW-2.0	Batch#:	221285
Lab ID:	265214-002	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	ug/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/16/15
Diln Fac:	3.000		

Analyte	Result	RL	MDL
Pentachlorophenol	ND	2,400	360
Phenanthrene	55 J	240	29
Anthracene	ND	240	32
Di-n-butylphthalate	ND	1,200	34
Fluoranthene	74 J	240	33
Pyrene	82 J	240	26
Butylbenzylphthalate	ND	1,200	34
3,3'-Dichlorobenzidine	ND	2,400	280
Benzo(a)anthracene	40 J	240	24
Chrysene	63 J	240	29
bis(2-Ethylhexyl)phthalate	ND	1,200	30
Di-n-octylphthalate	ND	1,200	120
Benzo(b)fluoranthene	75 J	240	21
Benzo(k)fluoranthene	21 J	240	21
Benzo(a)pyrene	54 J	240	21
Indeno(1,2,3-cd)pyrene	50 J	240	27
Dibenz(a,h)anthracene	ND	240	26
Benzo(g,h,i)perylene	76 J	240	29

Surrogate	%REC	Limits
2-Fluorophenol	72	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	70	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	78	47-120
Terphenyl-d14	74	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780539	Batch#:	221285
Matrix:	Soil	Prepared:	03/13/15
Units:	ug/Kg	Analyzed:	03/13/15

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	70
Phenol	ND	330	47
bis(2-Chloroethyl)ether	ND	330	54
2-Chlorophenol	ND	330	55
1,3-Dichlorobenzene	ND	330	38
1,4-Dichlorobenzene	ND	330	15
Benzyl alcohol	ND	330	51
1,2-Dichlorobenzene	ND	330	33
2-Methylphenol	ND	330	62
bis(2-Chloroisopropyl) ether	ND	330	83
4-Methylphenol	ND	330	52
N-Nitroso-di-n-propylamine	ND	330	50
Hexachloroethane	ND	330	26
Nitrobenzene	ND	330	15
Isophorone	ND	330	9.7
2-Nitrophenol	ND	670	10
2,4-Dimethylphenol	ND	330	14
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	330	11
2,4-Dichlorophenol	ND	330	13
1,2,4-Trichlorobenzene	ND	330	13
Naphthalene	ND	67	13
4-Chloroaniline	ND	330	16
Hexachlorobutadiene	ND	330	14
4-Chloro-3-methylphenol	ND	330	14
2-Methylnaphthalene	ND	67	11
Hexachlorocyclopentadiene	ND	670	12
2,4,6-Trichlorophenol	ND	330	14
2,4,5-Trichlorophenol	ND	330	13
2-Chloronaphthalene	ND	330	10
2-Nitroaniline	ND	670	11
Dimethylphthalate	ND	330	12
Acenaphthylene	ND	67	13
2,6-Dinitrotoluene	ND	330	12
3-Nitroaniline	ND	670	8.1
Acenaphthene	ND	67	11
2,4-Dinitrophenol	ND	670	94
4-Nitrophenol	ND	670	52
Dibenzofuran	ND	330	14
2,4-Dinitrotoluene	ND	330	9.8
Diethylphthalate	ND	330	14
Fluorene	ND	67	12
4-Chlorophenyl-phenylether	ND	330	12
4-Nitroaniline	ND	670	9.5
4,6-Dinitro-2-methylphenol	ND	670	69
N-Nitrosodiphenylamine	ND	330	13
Azobenzene	ND	330	14
4-Bromophenyl-phenylether	ND	330	13
Hexachlorobenzene	ND	330	14
Pentachlorophenol	ND	670	62
Phenanthrene	ND	67	15
Anthracene	ND	67	12

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780539	Batch#:	221285
Matrix:	Soil	Prepared:	03/13/15
Units:	ug/Kg	Analyzed:	03/13/15

Analyte	Result	RL	MDL
Di-n-butylphthalate	ND	330	15
Fluoranthene	ND	67	13
Pyrene	ND	67	12
Butylbenzylphthalate	ND	330	11
3,3'-Dichlorobenzidine	ND	670	11
Benzo(a)anthracene	ND	67	12
Chrysene	ND	67	14
bis(2-Ethylhexyl)phthalate	20 J	330	15
Di-n-octylphthalate	ND	330	17
Benzo(b)fluoranthene	ND	67	14
Benzo(k)fluoranthene	ND	67	18
Benzo(a)pyrene	ND	67	15
Indeno(1,2,3-cd)pyrene	ND	67	15
Dibenz(a,h)anthracene	ND	67	15
Benzo(g,h,i)perylene	ND	67	13

Surrogate	%REC	Limits
2-Fluorophenol	51	25-120
Phenol-d5	63	36-120
2,4,6-Tribromophenol	53	27-120
Nitrobenzene-d5	74	44-120
2-Fluorobiphenyl	71	47-120
Terphenyl-d14	69	49-120

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC780540	Batch#:	221285
Matrix:	Soil	Prepared:	03/13/15
Units:	ug/Kg	Analyzed:	03/16/15

Analyte	Spiked	Result	%REC	Limits
Phenol	2,701	1,722	64	42-120
2-Chlorophenol	2,701	1,948	72	45-120
1,4-Dichlorobenzene	2,701	2,016	75	48-120
N-Nitroso-di-n-propylamine	2,701	1,861	69	27-123
1,2,4-Trichlorobenzene	2,701	2,252	83	50-120
4-Chloro-3-methylphenol	2,701	2,308	85	59-120
Acenaphthene	1,013	799.8	79	53-120
4-Nitrophenol	2,701	1,977	73	47-120
2,4-Dinitrotoluene	2,701	2,283	85	55-120
Pentachlorophenol	2,701	2,002	74	32-120
Pyrene	1,013	887.9	88	52-120

Surrogate	%REC	Limits
2-Fluorophenol	71	25-120
Phenol-d5	64	36-120
2,4,6-Tribromophenol	87	27-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	70	47-120
Terphenyl-d14	73	49-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8270C
Field ID:	TRENCH2-8SW-2.0	Batch#:	221285
MSS Lab ID:	265214-002	Sampled:	03/11/15
Matrix:	Soil	Received:	03/11/15
Units:	ug/Kg	Prepared:	03/13/15
Basis:	dry	Analyzed:	03/14/15
Diln Fac:	3.000		

Type: MS Moisture: 15%
Lab ID: QC780541

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<53.05	3,156	2,604	82	47-120
2-Chlorophenol	<49.27	3,156	2,685	85	44-120
1,4-Dichlorobenzene	<25.88	3,156	2,477	78	49-120
N-Nitroso-di-n-propylamine	<53.67	3,156	2,642	84	42-120
1,2,4-Trichlorobenzene	<29.97	3,156	2,575	82	54-120
4-Chloro-3-methylphenol	<30.63	3,156	3,048	97	55-120
Acenaphthene	<23.65	1,184	953.4	81	51-120
4-Nitrophenol	<25.04	3,156	2,902	92	36-120
2,4-Dinitrotoluene	<29.45	3,156	2,460	78	52-120
Pentachlorophenol	<362.7	3,156	2,412	76	14-120
Pyrene	82.00	1,184	1,211	95	46-124

Surrogate	%REC	Limits
2-Fluorophenol	62	25-120
Phenol-d5	75	36-120
2,4,6-Tribromophenol	83	27-120
Nitrobenzene-d5	78	44-120
2-Fluorobiphenyl	74	47-120
Terphenyl-d14	78	49-120

Type: MSD Moisture: 15%
Lab ID: QC780542

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,180	2,512	79	47-120	4	39
2-Chlorophenol	3,180	2,563	81	44-120	5	38
1,4-Dichlorobenzene	3,180	2,387	75	49-120	4	45
N-Nitroso-di-n-propylamine	3,180	2,562	81	42-120	4	40
1,2,4-Trichlorobenzene	3,180	2,424	76	54-120	7	38
4-Chloro-3-methylphenol	3,180	2,873	90	55-120	7	41
Acenaphthene	1,192	916.3	77	51-120	5	47
4-Nitrophenol	3,180	2,857	90	36-120	2	41
2,4-Dinitrotoluene	3,180	2,364	74	52-120	5	40
Pentachlorophenol	3,180	2,251	71	14-120	8	53
Pyrene	1,192	1,167	91	46-124	4	50

Surrogate	%REC	Limits
2-Fluorophenol	57	25-120
Phenol-d5	72	36-120
2,4,6-Tribromophenol	78	27-120
Nitrobenzene-d5	71	44-120
2-Fluorobiphenyl	69	47-120
Terphenyl-d14	74	49-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265214	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-6B-4.0	Basis:	dry
Lab ID:	265214-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/11/15
Units:	mg/Kg	Received:	03/11/15

Moisture: 12%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.38 J	0.56	0.17	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Arsenic	5.2	0.28	0.082	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Barium	67	0.28	0.060	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Beryllium	0.30	0.11	0.014	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Cadmium	0.28 J	0.28	0.029	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Chromium	31	0.28	0.071	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Cobalt	3.2	0.28	0.034	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Copper	6.4	0.28	0.094	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Lead	3.6	0.28	0.078	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Mercury	0.015 J	0.019	0.0011	221405	03/17/15	03/17/15	METHOD	EPA 7471A
Molybdenum	0.077 J	0.28	0.055	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Nickel	24	0.28	0.074	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Selenium	0.22 J	0.56	0.18	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Silver	ND	0.28	0.045	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Thallium	ND	0.56	0.16	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Vanadium	33	0.28	0.064	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Zinc	21	1.1	0.063	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	265214	Project#:	C1374
Client:	Integral Consulting, Inc.	Location:	Allied Engineering
Field ID:	TRENCH2-8SW-2.0	Basis:	dry
Lab ID:	265214-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/11/15
Units:	mg/Kg	Received:	03/11/15

Moisture: 15%

Analyte	Result	RL	MDL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.70	0.55	0.17	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Arsenic	4.3	0.28	0.081	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Barium	170	0.28	0.060	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Beryllium	0.42	0.11	0.014	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Cadmium	0.69	0.28	0.028	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Chromium	36	0.28	0.070	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Cobalt	6.5	0.28	0.033	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Copper	39	0.28	0.093	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Lead	83	0.28	0.077	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Mercury	0.28	0.021	0.0012	221405	03/17/15	03/17/15	METHOD	EPA 7471A
Molybdenum	0.26 J	0.28	0.054	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Nickel	41	0.28	0.073	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Selenium	ND	0.55	0.18	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Silver	0.055 J	0.28	0.044	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Thallium	0.49 J	0.55	0.16	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Vanadium	30	0.28	0.063	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B
Zinc	100	1.1	0.062	221356	03/16/15	03/16/15	EPA 3050B	EPA 6010B

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC780802	Batch#:	221356
Matrix:	Soil	Prepared:	03/16/15
Units:	mg/Kg	Analyzed:	03/16/15

Analyte	Result	RL	MDL
Antimony	ND	0.50	0.15
Arsenic	ND	0.25	0.073
Barium	ND	0.25	0.054
Beryllium	ND	0.10	0.012
Cadmium	ND	0.25	0.026
Chromium	ND	0.25	0.063
Cobalt	ND	0.25	0.030
Copper	ND	0.25	0.083
Lead	ND	0.25	0.070
Molybdenum	ND	0.25	0.049
Nickel	ND	0.25	0.066
Selenium	ND	0.50	0.16
Silver	ND	0.25	0.040
Thallium	ND	0.50	0.14
Vanadium	ND	0.25	0.057
Zinc	ND	1.0	0.056

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	221356
Units:	mg/Kg	Prepared:	03/16/15
Diln Fac:	5.000	Analyzed:	03/16/15

Type: BS Lab ID: QC780803

Analyte	Spiked	Result	%REC	Limits
Antimony	50.00	50.98	102	80-120
Arsenic	50.00	52.22	104	80-120
Barium	50.00	51.42	103	80-120
Beryllium	50.00	53.68	107	80-120
Cadmium	50.00	53.97	108	80-120
Chromium	50.00	51.04	102	80-120
Cobalt	50.00	49.22	98	80-120
Copper	50.00	49.32	99	80-120
Lead	50.00	49.39	99	80-120
Molybdenum	50.00	52.42	105	80-120
Nickel	50.00	50.50	101	80-120
Selenium	50.00	52.02	104	80-120
Silver	50.00	49.42	99	80-120
Thallium	50.00	51.77	104	80-120
Vanadium	50.00	52.89	106	80-120
Zinc	50.00	52.41	105	80-120

Type: BSD Lab ID: QC780804

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	50.00	48.58	97	80-120	5	20
Arsenic	50.00	50.52	101	80-120	3	20
Barium	50.00	49.89	100	80-120	3	20
Beryllium	50.00	51.12	102	80-120	5	20
Cadmium	50.00	52.52	105	80-120	3	20
Chromium	50.00	49.69	99	80-120	3	20
Cobalt	50.00	47.27	95	80-120	4	20
Copper	50.00	47.69	95	80-120	3	20
Lead	50.00	47.48	95	80-120	4	20
Molybdenum	50.00	50.45	101	80-120	4	20
Nickel	50.00	49.54	99	80-120	2	20
Selenium	50.00	50.31	101	80-120	3	20
Silver	50.00	47.80	96	80-120	3	20
Thallium	50.00	48.57	97	80-120	6	20
Vanadium	50.00	51.29	103	80-120	3	20
Zinc	50.00	51.00	102	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3050B
Project#:	C1374	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	221356
MSS Lab ID:	265206-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/11/15
Units:	mg/Kg	Prepared:	03/16/15
Basis:	dry	Analyzed:	03/16/15
Diln Fac:	5.000		

Type: MS Moisture: 28%
Lab ID: QC780805

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.476	63.13	24.01	34	15-120
Arsenic	1.274	63.13	57.75	89	69-120
Barium	156.9	63.13	234.0	122	35-154
Beryllium	0.4542	63.13	62.07	98	75-120
Cadmium	1.151	63.13	61.44	96	71-120
Chromium	83.46	63.13	138.8	88	57-133
Cobalt	20.67	63.13	79.07	93	56-125
Copper	25.57	63.13	84.55	93	54-144
Lead	1.479	63.13	57.39	89	53-125
Molybdenum	0.09612	63.13	54.37	86	66-120
Nickel	49.82	63.13	111.7	98	44-141
Selenium	0.2815	63.13	55.54	88	61-120
Silver	<0.05829	63.13	57.58	91	69-120
Thallium	0.3256	63.13	57.01	90	59-120
Vanadium	115.6	63.13	182.9	107	52-144
Zinc	44.30	63.13	108.2	101	45-145

Type: MSD Moisture: 28%
Lab ID: QC780806

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	72.34	26.96	34	15-120	2	41
Arsenic	72.34	66.47	90	69-120	1	35
Barium	72.34	239.9	115	35-154	2	36
Beryllium	72.34	70.09	96	75-120	1	20
Cadmium	72.34	71.19	97	71-120	1	25
Chromium	72.34	156.4	101	57-133	6	33
Cobalt	72.34	87.64	93	56-125	0	36
Copper	72.34	93.87	94	54-144	1	38
Lead	72.34	65.59	89	53-125	0	42
Molybdenum	72.34	62.79	87	66-120	1	20
Nickel	72.34	122.7	101	44-141	2	39
Selenium	72.34	63.26	87	61-120	1	33
Silver	72.34	65.73	91	69-120	0	22
Thallium	72.34	64.21	88	59-120	2	27
Vanadium	72.34	193.5	108	52-144	1	29
Zinc	72.34	118.1	102	45-145	1	39

RPD= Relative Percent Difference

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Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	221405
Lab ID:	QC780996	Prepared:	03/17/15
Matrix:	Soil	Analyzed:	03/17/15
Units:	mg/Kg		

Result	RL	MDL
ND	0.017	0.00093

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	221405
Matrix:	Soil	Prepared:	03/17/15
Units:	mg/Kg	Analyzed:	03/17/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC780997	0.2083	0.2068	99	80-120		
BSD	QC780998	0.2083	0.2007	96	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	221405
MSS Lab ID:	265206-001	Sampled:	03/09/15
Matrix:	Soil	Received:	03/11/15
Units:	mg/Kg	Prepared:	03/17/15
Basis:	dry	Analyzed:	03/17/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC780999	0.005870	0.3157	0.3154	98	69-142	28%		
MSD	QC781000		0.2756	0.2772	98	69-142	28%	0	36

RPD= Relative Percent Difference

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Moisture

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	221228
Matrix:	Soil	Sampled:	03/11/15
Units:	%	Received:	03/11/15
Diln Fac:	1.000	Analyzed:	03/11/15

Field ID	Lab ID	Result	RL
TRENCH2-6B-4.0	265214-001	12	1
TRENCH2-8SW-2.0	265214-002	15	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	265214	Location:	Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	METHOD
Project#:	C1374	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	221228
MSS Lab ID:	265206-001	Sampled:	03/09/15
Lab ID:	QC780336	Received:	03/11/15
Matrix:	Soil	Analyzed:	03/11/15

MSS Result	Result	RL	RPD	Lim
28.48	28.57	1.000	0	26

RL= Reporting Limit
RPD= Relative Percent Difference

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Analytical Laboratories, Since 1878

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 265568
ANALYTICAL REPORT

Integral Consulting, Inc.	Project : C1374
115 Sansome Street	Location : Former Allied Engineering
San Francisco, CA 94104	Level : II

Sample ID	Lab ID
TBL1-3SW-1.2	265568-001
TRENCH2-4SW-1.2	265568-002
TBL2-4SW-1.3	265568-003
TBL1-1SW-1.2	265568-004
TRENCH1-2SW-1.2	265568-005
TRENCH1-5SW-1.2	265568-006
TBL2-3SW-0.9	265568-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Mikelle Chong Date: 04/02/2015

Mikelle Chong
Project Manager
mikelle.chong@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

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CASE NARRATIVE

Laboratory number:	**265568**
Client:	**Integral Consulting, Inc.**
Project:	**C1374**
Location:	**Former Allied Engineering**
Request Date:	**03/25/15**
Samples Received:	**03/03/15, 03/04/15, 03/05/15, 03/06/15, 03/09/15**

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 03/25/15. The samples were received cold and intact.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Many samples were prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
High recovery was observed for hexavalent chromium in the matrix spike of TBL1-3SW-1.2 (lab # 265568-001); the LCS was within limits. No other analytical problems were encountered.

CT# 265568

Subject: Additional Analyses
From: Chris Lyles <clyles@integral-corp.com>
Date: 3/25/2015 3:28 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>, "John Goyette (Goyette@ctberk.com)" <Goyette@ctberk.com>
CC: Bridgette DeShields <bdeshields@integral-corp.com>, Mala Pattanayek <mpattanayek@integral-corp.com>

Tracy,

We would like the following samples analyzed for Cr VI and PCBs. This is to be billed to C1374 Task 0301 and is on Standard TAT.

1 - 3/4/2015 10:55 TBL1-3SW-1.2 - 265056-002
2 - 3/9/2015 16:00 TRENCH2-4SW-1.2 - 265156-007
3 - 3/6/2015 10:45 TBL2-4SW-1.3 - 265129-005
4 - 3/3/2015 15:00 TBL1-1SW-1.2 - 265009-001
5 - 3/5/2015 11:05 TRENCH1-2SW-1.2 - 265085-002
6 - 3/5/2015 12:30 TRENCH1-5SW-1.2 - 265085-005
7 - 3/6/2015 10:40 TBL2-3SW-0.9 - 265129-004

As usual, report the data in dry weight with % moisture, report down to the MDL, and provide us with an EDF.

Let me know if you have any questions,

Chris

Christopher B. Lyles, GIT | Associate Geologist
Integral Consulting Inc. | www.integral-corp.com
115 Sansome Street, Suite 200 | San Francisco, CA 94104
Tel: 415.393.4750 ext: 851 | Cell: 301.706.0791

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY
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Curtis & Tompkins, Ltd.

Detections Summary for 265568

Results for any subcontracted analyses are not included in this summary.

Client : Integral Consulting, Inc.
Project : C1374
Location : Former Allied Engineering

Client Sample ID : TBL1-3SW-1.2 Laboratory Sample ID : 265568-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Hexavalent Chromium	35		2.1	0.14	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Client Sample ID : TRENCH2-4SW-1.2 Laboratory Sample ID : 265568-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1254	29	b	11	2.7	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1260	9.1	J,b	11	1.7	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	230		2.1	0.14	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Client Sample ID : TBL2-4SW-1.3 Laboratory Sample ID : 265568-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1254	7.6	J,b	11	2.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1260	17	b	11	1.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	60		2.2	0.15	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Client Sample ID : TBL1-1SW-1.2 Laboratory Sample ID : 265568-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1260	17	b	11	1.7	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	56		2.1	0.14	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Client Sample ID : TRENCH1-2SW-1.2 Laboratory Sample ID : 265568-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1248	630	b	11	3.5	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1254	410	b	11	2.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1260	40	b	11	1.8	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	81		2.2	0.15	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Client Sample ID : TRENCH1-5SW-1.2 Laboratory Sample ID : 265568-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1254	27	b	14	3.5	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1260	19	b	14	2.2	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	230		2.7	0.19	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

Curtis & Tompkins, Ltd.

Client Sample ID : TBL2-3SW-0.9 Laboratory Sample ID : 265568-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Aroclor-1254	26	b	10	2.6	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Aroclor-1260	12	b	10	1.6	ug/Kg	Dry	1.000	EPA 8082	EPA 3550B
Hexavalent Chromium	17		2.0	0.14	mg/Kg	Dry	1.000	EPA 7196A	EPA 3060A

J = Estimated value
b = See narrative

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Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Dilu Fac:	1.000
Units:	ug/Kg	Batch#:	221704
Basis:	dry	Prepared:	03/26/15

Field ID:	TBL1-3SW-1.2	Sampled:	03/04/15
Type:	SAMPLE	Received:	03/04/15
Lab ID:	265568-001	Analyzed:	03/26/15
Moisture:	9%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	11	2.6
Aroclor-1221	ND b	21	7.0
Aroclor-1232	ND b	11	3.4
Aroclor-1242	ND b	11	3.2
Aroclor-1248	ND b	11	3.4
Aroclor-1254	ND b	11	2.7
Aroclor-1260	ND b	11	1.7

Surrogate	%REC	Limits
TCMX	104 b	46-141
Decachlorobiphenyl	95 b	25-135

Field ID:	TRENCH2-4SW-1.2	Sampled:	03/09/15
Type:	SAMPLE	Received:	03/09/15
Lab ID:	265568-002	Analyzed:	03/27/15
Moisture:	9%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	11	2.6
Aroclor-1221	ND b	21	7.0
Aroclor-1232	ND b	11	3.4
Aroclor-1242	ND b	11	3.2
Aroclor-1248	ND b	11	3.4
Aroclor-1254	29 b	11	2.7
Aroclor-1260	9.1 J b	11	1.7

Surrogate	%REC	Limits
TCMX	106 b	46-141
Decachlorobiphenyl	95 b	25-135

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	221704
Basis:	dry	Prepared:	03/26/15

Field ID:	TBL2-4SW-1.3	Sampled:	03/06/15
Type:	SAMPLE	Received:	03/06/15
Lab ID:	265568-003	Analyzed:	03/27/15
Moisture:	12%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	11	2.7
Aroclor-1221	ND b	22	7.3
Aroclor-1232	ND b	11	3.5
Aroclor-1242	ND b	11	3.3
Aroclor-1248	ND b	11	3.5
Aroclor-1254	7.6 J b	11	2.8
Aroclor-1260	17 b	11	1.8

Surrogate	%REC	Limits
TCMX	106 b	46-141
Decachlorobiphenyl	95 b	25-135

Field ID:	TBL1-1SW-1.2	Sampled:	03/03/15
Type:	SAMPLE	Received:	03/03/15
Lab ID:	265568-004	Analyzed:	03/27/15
Moisture:	9%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	11	2.6
Aroclor-1221	ND b	21	7.1
Aroclor-1232	ND b	11	3.4
Aroclor-1242	ND b	11	3.2
Aroclor-1248	ND b	11	3.4
Aroclor-1254	ND b	11	2.7
Aroclor-1260	17 b	11	1.7

Surrogate	%REC	Limits
TCMX	66 b	46-141
Decachlorobiphenyl	96 b	25-135

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	221704
Basis:	dry	Prepared:	03/26/15

Field ID:	TRENCH1-2SW-1.2	Sampled:	03/05/15
Type:	SAMPLE	Received:	03/05/15
Lab ID:	265568-005	Analyzed:	03/27/15
Moisture:	12%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	11	2.7
Aroclor-1221	ND b	22	7.3
Aroclor-1232	ND b	11	3.6
Aroclor-1242	ND b	11	3.3
Aroclor-1248	630 b	11	3.5
Aroclor-1254	410 b	11	2.8
Aroclor-1260	40 b	11	1.8

Surrogate	%REC	Limits
TCMX	115 b	46-141
Decachlorobiphenyl	93 b	25-135

Field ID:	TRENCH1-5SW-1.2	Sampled:	03/05/15
Type:	SAMPLE	Received:	03/05/15
Lab ID:	265568-006	Analyzed:	03/27/15
Moisture:	30%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	14	3.4
Aroclor-1221	ND b	28	9.2
Aroclor-1232	ND b	14	4.5
Aroclor-1242	ND b	14	4.1
Aroclor-1248	ND b	14	4.4
Aroclor-1254	27 b	14	3.5
Aroclor-1260	19 b	14	2.2

Surrogate	%REC	Limits
TCMX	101 b	46-141
Decachlorobiphenyl	87 b	25-135

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	221704
Basis:	dry	Prepared:	03/26/15

Field ID:	TBL2-3SW-0.9	Sampled:	03/06/15
Type:	SAMPLE	Received:	03/06/15
Lab ID:	265568-007	Analyzed:	03/27/15
Moisture:	6%		

Analyte	Result	RL	MDL
Aroclor-1016	ND b	10	2.5
Aroclor-1221	ND b	20	6.7
Aroclor-1232	ND b	10	3.3
Aroclor-1242	ND b	10	3.0
Aroclor-1248	ND b	10	3.2
Aroclor-1254	26 b	10	2.6
Aroclor-1260	12 b	10	1.6

Surrogate	%REC	Limits
TCMX	115 b	46-141
Decachlorobiphenyl	86 b	25-135

Type:	BLANK	Analyzed:	03/26/15
Lab ID:	QC782160		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	2.4
Aroclor-1221	ND	19	6.4
Aroclor-1232	ND	9.6	3.1
Aroclor-1242	ND	9.6	2.9
Aroclor-1248	ND	9.6	3.1
Aroclor-1254	ND	9.6	2.4
Aroclor-1260	ND	9.6	1.6

Surrogate	%REC	Limits
TCMX	108	46-141
Decachlorobiphenyl	103	25-135

J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC782161	Batch#:	221704
Matrix:	Soil	Prepared:	03/26/15
Units:	ug/Kg	Analyzed:	03/26/15

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.2	196.5	119	64-140
Aroclor-1260	165.2	193.0	117	65-146

Surrogate	%REC	Limits
TCMX	117	46-141
Decachlorobiphenyl	117	25-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3550B
Project#:	C1374	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	221704
MSS Lab ID:	265569-005	Sampled:	03/24/15
Matrix:	Soil	Received:	03/25/15
Units:	ug/Kg	Prepared:	03/26/15
Basis:	dry	Analyzed:	03/26/15
Diln Fac:	1.000		

Type: MS Moisture: 14%
Lab ID: QC782162

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.791	195.1	239.0	122	60-161
Aroclor-1260	<1.825	195.1	234.7	120	42-166

Surrogate	%REC	Limits
TCMX	116	46-141
Decachlorobiphenyl	104	25-135

Type: MSD Moisture: 14%
Lab ID: QC782163

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	195.6	213.2	109	60-161	12	43
Aroclor-1260	195.6	215.6	110	42-166	9	51

Surrogate	%REC	Limits
TCMX	100	46-141
Decachlorobiphenyl	96	25-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	221826
Units:	mg/Kg	Prepared:	03/31/15 16:00
Basis:	dry	Analyzed:	04/02/15 14:00

Field ID	Type	Lab ID	Result	RL	Moisture	Sampled	Received
TBL1-3SW-1.2	SAMPLE	265568-001	35	2.1	9%	03/04/15 10:55	03/04/15
TRENCH2-4SW-1.2	SAMPLE	265568-002	230	2.1	9%	03/09/15 16:00	03/09/15
TBL2-4SW-1.3	SAMPLE	265568-003	60	2.2	12%	03/06/15 10:45	03/06/15
TBL1-1SW-1.2	SAMPLE	265568-004	56	2.1	9%	03/03/15 15:00	03/03/15
TRENCH1-2SW-1.2	SAMPLE	265568-005	81	2.2	12%	03/05/15 11:05	03/05/15
TRENCH1-5SW-1.2	SAMPLE	265568-006	230	2.7	30%	03/05/15 12:30	03/05/15
TBL2-3SW-0.9	SAMPLE	265568-007	17	2.0	6%	03/06/15 10:40	03/06/15
	BLANK	QC782625	ND	0.40			

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	265568	Location:	Former Allied Engineering
Client:	Integral Consulting, Inc.	Prep:	EPA 3060A
Project#:	C1374	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	TBL1-3SW-1.2	Batch#:	221826
MSS Lab ID:	265568-001	Sampled:	03/04/15 10:55
Matrix:	Soil	Received:	03/04/15
Units:	mg/Kg	Prepared:	03/31/15 16:00
Basis:	dry	Analyzed:	04/02/15 14:00

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	Moisture	RPD	Lim
LCS	QC782626		40.00	31.54		85	80-120			
SDUP	QC782627	34.66		35.29	2.088			9%	2	30
SSPIKE	QC782628	34.66	43.96	99.80		148 *	75-125	9%		
SSPIKE	QC782629	34.66	1,188	1,169		95	75-125	9%		
SSPIKE	QC782630	34.66	87.91	121.5		99	75-125	9%		

*= Value outside of QC limits; see narrative
RL= Reporting Limit
RPD= Relative Percent Difference

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1501949

Report Created for: Integral Consulting, Inc.
115 Sansome Street; Suite 200
San Francisco, CA 94104

Project Contact: Bridgette Desheilds
Project P.O.:
Project Name: C1361 Former Allied Engineering + Production Corporation Facility
Project Received: 01/30/2015

Analytical Report reviewed & approved for release on 02/11/2015 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

ACCREDITED IN ACCORDANCE WITH nelac

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Integral Consulting, Inc.
Project: C1361 Former Allied Engineering + Production Corporation Facility
WorkOrder: 1501949

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

a1	sample diluted due to matrix interference
a9	reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
h4	sulfuric acid permanganate (EPA 3665) cleanup
i1	results are reported on a dry weight basis

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3060A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW7199
Date Prepared:	2/11/15	**Unit:**	mg/Kg-dry

TTLC Hexachrome by Alkaline Digestion and IC-UV Analysis

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil/TOTAL**	**01/30/2015 15:10**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.22	1	02/11/2015 06:41

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil/TOTAL**	**01/30/2015 15:00**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.22	1	02/11/2015 07:35

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil/TOTAL**	**01/30/2015 14:30**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.24	1	02/11/2015 07:54

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil/TOTAL**	**01/30/2015 13:24**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.24	1	02/11/2015 08:12

Analytical Comments: i1

Analyst(s): AE

(Cont.)

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3060A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW7199
Date Prepared:	2/11/15	**Unit:**	mg/Kg-dry

TTLC Hexachrome by Alkaline Digestion and IC-UV Analysis

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil/TOTAL**	**01/30/2015 12:40**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	**16**	0.22	1	02/11/2015 09:01

Analytical Comments: i1

Analyst(s): AE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil/TOTAL**	**01/30/2015 12:55**	**IC2**	**101088**

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.23	1	02/11/2015 09:20

Analytical Comments: i1

Analyst(s): AE

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg-dry

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.056	1	02/04/2015 14:52
Aroclor1221	ND	0.056	1	02/04/2015 14:52
Aroclor1232	ND	0.056	1	02/04/2015 14:52
Aroclor1242	ND	0.056	1	02/04/2015 14:52
Aroclor1248	ND	0.056	1	02/04/2015 14:52
Aroclor1254	ND	0.056	1	02/04/2015 14:52
Aroclor1260	ND	0.056	1	02/04/2015 14:52
PCBs, total	ND	0.056	1	02/04/2015 14:52

Surrogates	REC (%)	Limits	Analytical Comments: a1,h4,i1	
Decachlorobiphenyl	73	70-130		02/04/2015 14:52

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.054	1	02/04/2015 13:36
Aroclor1221	ND	0.054	1	02/04/2015 13:36
Aroclor1232	ND	0.054	1	02/04/2015 13:36
Aroclor1242	ND	0.054	1	02/04/2015 13:36
Aroclor1248	ND	0.054	1	02/04/2015 13:36
Aroclor1254	ND	0.054	1	02/04/2015 13:36
Aroclor1260	ND	0.054	1	02/04/2015 13:36
PCBs, total	ND	0.054	1	02/04/2015 13:36

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Decachlorobiphenyl	77	70-130		02/04/2015 13:36

Analyst(s): SS

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg-dry

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.060	1	02/05/2015 02:10
Aroclor1221	ND	0.060	1	02/05/2015 02:10
Aroclor1232	ND	0.060	1	02/05/2015 02:10
Aroclor1242	ND	0.060	1	02/05/2015 02:10
Aroclor1248	ND	0.060	1	02/05/2015 02:10
Aroclor1254	ND	0.060	1	02/05/2015 02:10
Aroclor1260	ND	0.060	1	02/05/2015 02:10
PCBs, total	ND	0.060	1	02/05/2015 02:10

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Decachlorobiphenyl	84	70-130		02/05/2015 02:10

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.060	1	02/05/2015 02:48
Aroclor1221	ND	0.060	1	02/05/2015 02:48
Aroclor1232	ND	0.060	1	02/05/2015 02:48
Aroclor1242	ND	0.060	1	02/05/2015 02:48
Aroclor1248	ND	0.060	1	02/05/2015 02:48
Aroclor1254	ND	0.060	1	02/05/2015 02:48
Aroclor1260	ND	0.060	1	02/05/2015 02:48
PCBs, total	ND	0.060	1	02/05/2015 02:48

Surrogates	REC (%)	Limits	Analytical Comments: h4,i1	
Decachlorobiphenyl	87	70-130		02/05/2015 02:48

Analyst(s): SS

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8082
Date Prepared:	1/30/15	**Unit:**	mg/kg-dry

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.056	1	02/05/2015 03:25
Aroclor1221	ND	0.056	1	02/05/2015 03:25
Aroclor1232	ND	0.056	1	02/05/2015 03:25
Aroclor1242	ND	0.056	1	02/05/2015 03:25
Aroclor1248	ND	0.056	1	02/05/2015 03:25
Aroclor1254	ND	0.056	1	02/05/2015 03:25
Aroclor1260	ND	0.056	1	02/05/2015 03:25
PCBs, total	ND	0.056	1	02/05/2015 03:25

Surrogates	REC (%)	Limits	Analytical Comments: h4,i1	
Decachlorobiphenyl	90	70-130		02/05/2015 03:25

Analyst(s): SS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC23**	**100615**

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.058	1	02/04/2015 14:14
Aroclor1221	ND	0.058	1	02/04/2015 14:14
Aroclor1232	ND	0.058	1	02/04/2015 14:14
Aroclor1242	ND	0.058	1	02/04/2015 14:14
Aroclor1248	ND	0.058	1	02/04/2015 14:14
Aroclor1254	ND	0.058	1	02/04/2015 14:14
Aroclor1260	ND	0.058	1	02/04/2015 14:14
PCBs, total	ND	0.058	1	02/04/2015 14:14

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Decachlorobiphenyl	91	70-130		02/04/2015 14:14

Analyst(s): SS

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001B**	**Soil**	**01/30/2015 15:10**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.21	1	01/31/2015 18:22
tert-Amyl methyl ether (TAME)	ND	0.011	1	01/31/2015 18:22
Benzene	ND	0.011	1	01/31/2015 18:22
Bromobenzene	ND	0.011	1	01/31/2015 18:22
Bromochloromethane	ND	0.011	1	01/31/2015 18:22
Bromodichloromethane	ND	0.011	1	01/31/2015 18:22
Bromoform	ND	0.011	1	01/31/2015 18:22
Bromomethane	ND	0.011	1	01/31/2015 18:22
2-Butanone (MEK)	ND	0.042	1	01/31/2015 18:22
t-Butyl alcohol (TBA)	ND	0.11	1	01/31/2015 18:22
n-Butyl benzene	ND	0.011	1	01/31/2015 18:22
sec-Butyl benzene	ND	0.011	1	01/31/2015 18:22
tert-Butyl benzene	ND	0.011	1	01/31/2015 18:22
Carbon Disulfide	ND	0.011	1	01/31/2015 18:22
Carbon Tetrachloride	ND	0.011	1	01/31/2015 18:22
Chlorobenzene	ND	0.011	1	01/31/2015 18:22
Chloroethane	ND	0.011	1	01/31/2015 18:22
Chloroform	ND	0.011	1	01/31/2015 18:22
Chloromethane	ND	0.011	1	01/31/2015 18:22
2-Chlorotoluene	ND	0.011	1	01/31/2015 18:22
4-Chlorotoluene	ND	0.011	1	01/31/2015 18:22
Dibromochloromethane	ND	0.011	1	01/31/2015 18:22
1,2-Dibromo-3-chloropropane	ND	0.0085	1	01/31/2015 18:22
1,2-Dibromoethane (EDB)	ND	0.0085	1	01/31/2015 18:22
Dibromomethane	ND	0.011	1	01/31/2015 18:22
1,2-Dichlorobenzene	ND	0.011	1	01/31/2015 18:22
1,3-Dichlorobenzene	ND	0.011	1	01/31/2015 18:22
1,4-Dichlorobenzene	ND	0.011	1	01/31/2015 18:22
Dichlorodifluoromethane	ND	0.011	1	01/31/2015 18:22
1,1-Dichloroethane	ND	0.011	1	01/31/2015 18:22
1,2-Dichloroethane (1,2-DCA)	ND	0.011	1	01/31/2015 18:22
1,1-Dichloroethene	ND	0.011	1	01/31/2015 18:22
cis-1,2-Dichloroethene	ND	0.011	1	01/31/2015 18:22
trans-1,2-Dichloroethene	ND	0.011	1	01/31/2015 18:22
1,2-Dichloropropane	ND	0.011	1	01/31/2015 18:22
1,3-Dichloropropane	ND	0.011	1	01/31/2015 18:22
2,2-Dichloropropane	ND	0.011	1	01/31/2015 18:22
1,1-Dichloropropene	ND	0.011	1	01/31/2015 18:22

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001B**	**Soil**	**01/30/2015 15:10**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.011	1	01/31/2015 18:22
trans-1,3-Dichloropropene	ND	0.011	1	01/31/2015 18:22
Diisopropyl ether (DIPE)	ND	0.011	1	01/31/2015 18:22
Ethylbenzene	ND	0.011	1	01/31/2015 18:22
Ethyl tert-butyl ether (ETBE)	ND	0.011	1	01/31/2015 18:22
Freon 113	ND	0.011	1	01/31/2015 18:22
Hexachlorobutadiene	ND	0.011	1	01/31/2015 18:22
Hexachloroethane	ND	0.011	1	01/31/2015 18:22
2-Hexanone	ND	0.011	1	01/31/2015 18:22
Isopropylbenzene	ND	0.011	1	01/31/2015 18:22
4-Isopropyl toluene	ND	0.011	1	01/31/2015 18:22
Methyl-t-butyl ether (MTBE)	ND	0.011	1	01/31/2015 18:22
Methylene chloride	ND	0.011	1	01/31/2015 18:22
4-Methyl-2-pentanone (MIBK)	ND	0.011	1	01/31/2015 18:22
Naphthalene	ND	0.011	1	01/31/2015 18:22
n-Propyl benzene	ND	0.011	1	01/31/2015 18:22
Styrene	ND	0.011	1	01/31/2015 18:22
1,1,1,2-Tetrachloroethane	ND	0.011	1	01/31/2015 18:22
1,1,2,2-Tetrachloroethane	ND	0.011	1	01/31/2015 18:22
Tetrachloroethene	ND	0.011	1	01/31/2015 18:22
Toluene	ND	0.011	1	01/31/2015 18:22
1,2,3-Trichlorobenzene	ND	0.011	1	01/31/2015 18:22
1,2,4-Trichlorobenzene	ND	0.011	1	01/31/2015 18:22
1,1,1-Trichloroethane	ND	0.011	1	01/31/2015 18:22
1,1,2-Trichloroethane	ND	0.011	1	01/31/2015 18:22
Trichloroethene	ND	0.011	1	01/31/2015 18:22
Trichlorofluoromethane	ND	0.011	1	01/31/2015 18:22
1,2,3-Trichloropropane	ND	0.011	1	01/31/2015 18:22
1,2,4-Trimethylbenzene	ND	0.011	1	01/31/2015 18:22
1,3,5-Trimethylbenzene	ND	0.011	1	01/31/2015 18:22
Vinyl Chloride	ND	0.011	1	01/31/2015 18:22
Xylenes, Total	ND	0.011	1	01/31/2015 18:22

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001B**	**Soil**	**01/30/2015 15:10**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: a9,i1
Dibromofluoromethane	91	70-130	01/31/2015 18:22
Toluene-d8	106	70-130	01/31/2015 18:22
4-BFB	122	70-130	01/31/2015 18:22

Analyst(s): KF

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002B**	**Soil**	**01/30/2015 15:00**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.18	1	01/31/2015 19:03
tert-Amyl methyl ether (TAME)	ND	0.0092	1	01/31/2015 19:03
Benzene	ND	0.0092	1	01/31/2015 19:03
Bromobenzene	ND	0.0092	1	01/31/2015 19:03
Bromochloromethane	ND	0.0092	1	01/31/2015 19:03
Bromodichloromethane	ND	0.0092	1	01/31/2015 19:03
Bromoform	ND	0.0092	1	01/31/2015 19:03
Bromomethane	ND	0.0092	1	01/31/2015 19:03
2-Butanone (MEK)	ND	0.037	1	01/31/2015 19:03
t-Butyl alcohol (TBA)	ND	0.092	1	01/31/2015 19:03
n-Butyl benzene	ND	0.0092	1	01/31/2015 19:03
sec-Butyl benzene	ND	0.0092	1	01/31/2015 19:03
tert-Butyl benzene	ND	0.0092	1	01/31/2015 19:03
Carbon Disulfide	ND	0.0092	1	01/31/2015 19:03
Carbon Tetrachloride	ND	0.0092	1	01/31/2015 19:03
Chlorobenzene	ND	0.0092	1	01/31/2015 19:03
Chloroethane	ND	0.0092	1	01/31/2015 19:03
Chloroform	ND	0.0092	1	01/31/2015 19:03
Chloromethane	ND	0.0092	1	01/31/2015 19:03
2-Chlorotoluene	ND	0.0092	1	01/31/2015 19:03
4-Chlorotoluene	ND	0.0092	1	01/31/2015 19:03
Dibromochloromethane	ND	0.0092	1	01/31/2015 19:03
1,2-Dibromo-3-chloropropane	ND	0.0074	1	01/31/2015 19:03
1,2-Dibromoethane (EDB)	ND	0.0074	1	01/31/2015 19:03
Dibromomethane	ND	0.0092	1	01/31/2015 19:03
1,2-Dichlorobenzene	ND	0.0092	1	01/31/2015 19:03
1,3-Dichlorobenzene	ND	0.0092	1	01/31/2015 19:03
1,4-Dichlorobenzene	ND	0.0092	1	01/31/2015 19:03
Dichlorodifluoromethane	ND	0.0092	1	01/31/2015 19:03
1,1-Dichloroethane	ND	0.0092	1	01/31/2015 19:03
1,2-Dichloroethane (1,2-DCA)	ND	0.0092	1	01/31/2015 19:03
1,1-Dichloroethene	ND	0.0092	1	01/31/2015 19:03
cis-1,2-Dichloroethene	ND	0.0092	1	01/31/2015 19:03
trans-1,2-Dichloroethene	ND	0.0092	1	01/31/2015 19:03
1,2-Dichloropropane	ND	0.0092	1	01/31/2015 19:03
1,3-Dichloropropane	ND	0.0092	1	01/31/2015 19:03
2,2-Dichloropropane	ND	0.0092	1	01/31/2015 19:03
1,1-Dichloropropene	ND	0.0092	1	01/31/2015 19:03

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002B**	**Soil**	**01/30/2015 15:00**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0092	1	01/31/2015 19:03
trans-1,3-Dichloropropene	ND	0.0092	1	01/31/2015 19:03
Diisopropyl ether (DIPE)	ND	0.0092	1	01/31/2015 19:03
Ethylbenzene	ND	0.0092	1	01/31/2015 19:03
Ethyl tert-butyl ether (ETBE)	ND	0.0092	1	01/31/2015 19:03
Freon 113	ND	0.0092	1	01/31/2015 19:03
Hexachlorobutadiene	ND	0.0092	1	01/31/2015 19:03
Hexachloroethane	ND	0.0092	1	01/31/2015 19:03
2-Hexanone	ND	0.0092	1	01/31/2015 19:03
Isopropylbenzene	ND	0.0092	1	01/31/2015 19:03
4-Isopropyl toluene	ND	0.0092	1	01/31/2015 19:03
Methyl-t-butyl ether (MTBE)	ND	0.0092	1	01/31/2015 19:03
Methylene chloride	ND	0.0092	1	01/31/2015 19:03
4-Methyl-2-pentanone (MIBK)	ND	0.0092	1	01/31/2015 19:03
Naphthalene	ND	0.0092	1	01/31/2015 19:03
n-Propyl benzene	ND	0.0092	1	01/31/2015 19:03
Styrene	ND	0.0092	1	01/31/2015 19:03
1,1,1,2-Tetrachloroethane	ND	0.0092	1	01/31/2015 19:03
1,1,2,2-Tetrachloroethane	ND	0.0092	1	01/31/2015 19:03
Tetrachloroethene	ND	0.0092	1	01/31/2015 19:03
Toluene	ND	0.0092	1	01/31/2015 19:03
1,2,3-Trichlorobenzene	ND	0.0092	1	01/31/2015 19:03
1,2,4-Trichlorobenzene	ND	0.0092	1	01/31/2015 19:03
1,1,1-Trichloroethane	ND	0.0092	1	01/31/2015 19:03
1,1,2-Trichloroethane	ND	0.0092	1	01/31/2015 19:03
Trichloroethene	ND	0.0092	1	01/31/2015 19:03
Trichlorofluoromethane	ND	0.0092	1	01/31/2015 19:03
1,2,3-Trichloropropane	ND	0.0092	1	01/31/2015 19:03
1,2,4-Trimethylbenzene	ND	0.0092	1	01/31/2015 19:03
1,3,5-Trimethylbenzene	ND	0.0092	1	01/31/2015 19:03
Vinyl Chloride	ND	0.0092	1	01/31/2015 19:03
Xylenes, Total	ND	0.0092	1	01/31/2015 19:03

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002B**	**Soil**	**01/30/2015 15:00**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: a9,i1	
Dibromofluoromethane	90	70-130		01/31/2015 19:03
Toluene-d8	107	70-130		01/31/2015 19:03
4-BFB	106	70-130		01/31/2015 19:03

Analyst(s): KF

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003B**	**Soil**	**01/30/2015 14:30**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.21	1	01/31/2015 19:44
tert-Amyl methyl ether (TAME)	ND	0.010	1	01/31/2015 19:44
Benzene	ND	0.010	1	01/31/2015 19:44
Bromobenzene	ND	0.010	1	01/31/2015 19:44
Bromochloromethane	ND	0.010	1	01/31/2015 19:44
Bromodichloromethane	ND	0.010	1	01/31/2015 19:44
Bromoform	ND	0.010	1	01/31/2015 19:44
Bromomethane	ND	0.010	1	01/31/2015 19:44
2-Butanone (MEK)	ND	0.042	1	01/31/2015 19:44
t-Butyl alcohol (TBA)	ND	0.10	1	01/31/2015 19:44
n-Butyl benzene	ND	0.010	1	01/31/2015 19:44
sec-Butyl benzene	ND	0.010	1	01/31/2015 19:44
tert-Butyl benzene	ND	0.010	1	01/31/2015 19:44
Carbon Disulfide	ND	0.010	1	01/31/2015 19:44
Carbon Tetrachloride	ND	0.010	1	01/31/2015 19:44
Chlorobenzene	ND	0.010	1	01/31/2015 19:44
Chloroethane	ND	0.010	1	01/31/2015 19:44
Chloroform	ND	0.010	1	01/31/2015 19:44
Chloromethane	ND	0.010	1	01/31/2015 19:44
2-Chlorotoluene	ND	0.010	1	01/31/2015 19:44
4-Chlorotoluene	ND	0.010	1	01/31/2015 19:44
Dibromochloromethane	ND	0.010	1	01/31/2015 19:44
1,2-Dibromo-3-chloropropane	ND	0.0084	1	01/31/2015 19:44
1,2-Dibromoethane (EDB)	ND	0.0084	1	01/31/2015 19:44
Dibromomethane	ND	0.010	1	01/31/2015 19:44
1,2-Dichlorobenzene	ND	0.010	1	01/31/2015 19:44
1,3-Dichlorobenzene	ND	0.010	1	01/31/2015 19:44
1,4-Dichlorobenzene	ND	0.010	1	01/31/2015 19:44
Dichlorodifluoromethane	ND	0.010	1	01/31/2015 19:44
1,1-Dichloroethane	ND	0.010	1	01/31/2015 19:44
1,2-Dichloroethane (1,2-DCA)	ND	0.010	1	01/31/2015 19:44
1,1-Dichloroethene	ND	0.010	1	01/31/2015 19:44
cis-1,2-Dichloroethene	ND	0.010	1	01/31/2015 19:44
trans-1,2-Dichloroethene	ND	0.010	1	01/31/2015 19:44
1,2-Dichloropropane	ND	0.010	1	01/31/2015 19:44
1,3-Dichloropropane	ND	0.010	1	01/31/2015 19:44
2,2-Dichloropropane	ND	0.010	1	01/31/2015 19:44
1,1-Dichloropropene	ND	0.010	1	01/31/2015 19:44

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003B**	**Soil**	**01/30/2015 14:30**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.010	1	01/31/2015 19:44
trans-1,3-Dichloropropene	ND	0.010	1	01/31/2015 19:44
Diisopropyl ether (DIPE)	ND	0.010	1	01/31/2015 19:44
Ethylbenzene	ND	0.010	1	01/31/2015 19:44
Ethyl tert-butyl ether (ETBE)	ND	0.010	1	01/31/2015 19:44
Freon 113	ND	0.010	1	01/31/2015 19:44
Hexachlorobutadiene	ND	0.010	1	01/31/2015 19:44
Hexachloroethane	ND	0.010	1	01/31/2015 19:44
2-Hexanone	ND	0.010	1	01/31/2015 19:44
Isopropylbenzene	ND	0.010	1	01/31/2015 19:44
4-Isopropyl toluene	ND	0.010	1	01/31/2015 19:44
Methyl-t-butyl ether (MTBE)	ND	0.010	1	01/31/2015 19:44
Methylene chloride	ND	0.010	1	01/31/2015 19:44
4-Methyl-2-pentanone (MIBK)	ND	0.010	1	01/31/2015 19:44
Naphthalene	ND	0.010	1	01/31/2015 19:44
n-Propyl benzene	ND	0.010	1	01/31/2015 19:44
Styrene	ND	0.010	1	01/31/2015 19:44
1,1,1,2-Tetrachloroethane	ND	0.010	1	01/31/2015 19:44
1,1,2,2-Tetrachloroethane	ND	0.010	1	01/31/2015 19:44
Tetrachloroethene	ND	0.010	1	01/31/2015 19:44
Toluene	ND	0.010	1	01/31/2015 19:44
1,2,3-Trichlorobenzene	ND	0.010	1	01/31/2015 19:44
1,2,4-Trichlorobenzene	ND	0.010	1	01/31/2015 19:44
1,1,1-Trichloroethane	ND	0.010	1	01/31/2015 19:44
1,1,2-Trichloroethane	ND	0.010	1	01/31/2015 19:44
Trichloroethene	ND	0.010	1	01/31/2015 19:44
Trichlorofluoromethane	ND	0.010	1	01/31/2015 19:44
1,2,3-Trichloropropane	ND	0.010	1	01/31/2015 19:44
1,2,4-Trimethylbenzene	ND	0.010	1	01/31/2015 19:44
1,3,5-Trimethylbenzene	ND	0.010	1	01/31/2015 19:44
Vinyl Chloride	ND	0.010	1	01/31/2015 19:44
Xylenes, Total	ND	0.010	1	01/31/2015 19:44

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003B**	**Soil**	**01/30/2015 14:30**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: a9,i1
Dibromofluoromethane	90	70-130	01/31/2015 19:44
Toluene-d8	106	70-130	01/31/2015 19:44
4-BFB	107	70-130	01/31/2015 19:44

Analyst(s): KF

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004B**	**Soil**	**01/30/2015 13:24**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.22	1	01/31/2015 20:25
tert-Amyl methyl ether (TAME)	ND	0.011	1	01/31/2015 20:25
Benzene	ND	0.011	1	01/31/2015 20:25
Bromobenzene	ND	0.011	1	01/31/2015 20:25
Bromochloromethane	ND	0.011	1	01/31/2015 20:25
Bromodichloromethane	ND	0.011	1	01/31/2015 20:25
Bromoform	ND	0.011	1	01/31/2015 20:25
Bromomethane	ND	0.011	1	01/31/2015 20:25
2-Butanone (MEK)	ND	0.044	1	01/31/2015 20:25
t-Butyl alcohol (TBA)	ND	0.11	1	01/31/2015 20:25
n-Butyl benzene	ND	0.011	1	01/31/2015 20:25
sec-Butyl benzene	ND	0.011	1	01/31/2015 20:25
tert-Butyl benzene	ND	0.011	1	01/31/2015 20:25
Carbon Disulfide	ND	0.011	1	01/31/2015 20:25
Carbon Tetrachloride	ND	0.011	1	01/31/2015 20:25
Chlorobenzene	ND	0.011	1	01/31/2015 20:25
Chloroethane	ND	0.011	1	01/31/2015 20:25
Chloroform	ND	0.011	1	01/31/2015 20:25
Chloromethane	ND	0.011	1	01/31/2015 20:25
2-Chlorotoluene	ND	0.011	1	01/31/2015 20:25
4-Chlorotoluene	ND	0.011	1	01/31/2015 20:25
Dibromochloromethane	ND	0.011	1	01/31/2015 20:25
1,2-Dibromo-3-chloropropane	ND	0.0087	1	01/31/2015 20:25
1,2-Dibromoethane (EDB)	ND	0.0087	1	01/31/2015 20:25
Dibromomethane	ND	0.011	1	01/31/2015 20:25
1,2-Dichlorobenzene	ND	0.011	1	01/31/2015 20:25
1,3-Dichlorobenzene	ND	0.011	1	01/31/2015 20:25
1,4-Dichlorobenzene	ND	0.011	1	01/31/2015 20:25
Dichlorodifluoromethane	ND	0.011	1	01/31/2015 20:25
1,1-Dichloroethane	ND	0.011	1	01/31/2015 20:25
1,2-Dichloroethane (1,2-DCA)	ND	0.011	1	01/31/2015 20:25
1,1-Dichloroethene	ND	0.011	1	01/31/2015 20:25
cis-1,2-Dichloroethene	ND	0.011	1	01/31/2015 20:25
trans-1,2-Dichloroethene	ND	0.011	1	01/31/2015 20:25
1,2-Dichloropropane	ND	0.011	1	01/31/2015 20:25
1,3-Dichloropropane	ND	0.011	1	01/31/2015 20:25
2,2-Dichloropropane	ND	0.011	1	01/31/2015 20:25
1,1-Dichloropropene	ND	0.011	1	01/31/2015 20:25

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004B**	**Soil**	**01/30/2015 13:24**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.011	1	01/31/2015 20:25
trans-1,3-Dichloropropene	ND	0.011	1	01/31/2015 20:25
Diisopropyl ether (DIPE)	ND	0.011	1	01/31/2015 20:25
Ethylbenzene	ND	0.011	1	01/31/2015 20:25
Ethyl tert-butyl ether (ETBE)	ND	0.011	1	01/31/2015 20:25
Freon 113	ND	0.011	1	01/31/2015 20:25
Hexachlorobutadiene	ND	0.011	1	01/31/2015 20:25
Hexachloroethane	ND	0.011	1	01/31/2015 20:25
2-Hexanone	ND	0.011	1	01/31/2015 20:25
Isopropylbenzene	ND	0.011	1	01/31/2015 20:25
4-Isopropyl toluene	ND	0.011	1	01/31/2015 20:25
Methyl-t-butyl ether (MTBE)	ND	0.011	1	01/31/2015 20:25
Methylene chloride	ND	0.011	1	01/31/2015 20:25
4-Methyl-2-pentanone (MIBK)	ND	0.011	1	01/31/2015 20:25
Naphthalene	ND	0.011	1	01/31/2015 20:25
n-Propyl benzene	ND	0.011	1	01/31/2015 20:25
Styrene	ND	0.011	1	01/31/2015 20:25
1,1,1,2-Tetrachloroethane	ND	0.011	1	01/31/2015 20:25
1,1,2,2-Tetrachloroethane	ND	0.011	1	01/31/2015 20:25
Tetrachloroethene	ND	0.011	1	01/31/2015 20:25
Toluene	ND	0.011	1	01/31/2015 20:25
1,2,3-Trichlorobenzene	ND	0.011	1	01/31/2015 20:25
1,2,4-Trichlorobenzene	ND	0.011	1	01/31/2015 20:25
1,1,1-Trichloroethane	ND	0.011	1	01/31/2015 20:25
1,1,2-Trichloroethane	ND	0.011	1	01/31/2015 20:25
Trichloroethene	ND	0.011	1	01/31/2015 20:25
Trichlorofluoromethane	ND	0.011	1	01/31/2015 20:25
1,2,3-Trichloropropane	ND	0.011	1	01/31/2015 20:25
1,2,4-Trimethylbenzene	ND	0.011	1	01/31/2015 20:25
1,3,5-Trimethylbenzene	ND	0.011	1	01/31/2015 20:25
Vinyl Chloride	ND	0.011	1	01/31/2015 20:25
Xylenes, Total	ND	0.011	1	01/31/2015 20:25

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004B**	**Soil**	**01/30/2015 13:24**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: a9,i1
Dibromofluoromethane	88	70-130	01/31/2015 20:25
Toluene-d8	106	70-130	01/31/2015 20:25
4-BFB	91	70-130	01/31/2015 20:25

Analyst(s): KF

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005B**	**Soil**	**01/30/2015 12:40**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.22	1	01/31/2015 21:07
tert-Amyl methyl ether (TAME)	ND	0.011	1	01/31/2015 21:07
Benzene	ND	0.011	1	01/31/2015 21:07
Bromobenzene	ND	0.011	1	01/31/2015 21:07
Bromochloromethane	ND	0.011	1	01/31/2015 21:07
Bromodichloromethane	ND	0.011	1	01/31/2015 21:07
Bromoform	ND	0.011	1	01/31/2015 21:07
Bromomethane	ND	0.011	1	01/31/2015 21:07
2-Butanone (MEK)	ND	0.045	1	01/31/2015 21:07
t-Butyl alcohol (TBA)	ND	0.11	1	01/31/2015 21:07
n-Butyl benzene	ND	0.011	1	01/31/2015 21:07
sec-Butyl benzene	ND	0.011	1	01/31/2015 21:07
tert-Butyl benzene	ND	0.011	1	01/31/2015 21:07
Carbon Disulfide	ND	0.011	1	01/31/2015 21:07
Carbon Tetrachloride	ND	0.011	1	01/31/2015 21:07
Chlorobenzene	ND	0.011	1	01/31/2015 21:07
Chloroethane	ND	0.011	1	01/31/2015 21:07
Chloroform	ND	0.011	1	01/31/2015 21:07
Chloromethane	ND	0.011	1	01/31/2015 21:07
2-Chlorotoluene	ND	0.011	1	01/31/2015 21:07
4-Chlorotoluene	ND	0.011	1	01/31/2015 21:07
Dibromochloromethane	ND	0.011	1	01/31/2015 21:07
1,2-Dibromo-3-chloropropane	ND	0.0090	1	01/31/2015 21:07
1,2-Dibromoethane (EDB)	ND	0.0090	1	01/31/2015 21:07
Dibromomethane	ND	0.011	1	01/31/2015 21:07
1,2-Dichlorobenzene	ND	0.011	1	01/31/2015 21:07
1,3-Dichlorobenzene	ND	0.011	1	01/31/2015 21:07
1,4-Dichlorobenzene	ND	0.011	1	01/31/2015 21:07
Dichlorodifluoromethane	ND	0.011	1	01/31/2015 21:07
1,1-Dichloroethane	ND	0.011	1	01/31/2015 21:07
1,2-Dichloroethane (1,2-DCA)	ND	0.011	1	01/31/2015 21:07
1,1-Dichloroethene	ND	0.011	1	01/31/2015 21:07
cis-1,2-Dichloroethene	ND	0.011	1	01/31/2015 21:07
trans-1,2-Dichloroethene	ND	0.011	1	01/31/2015 21:07
1,2-Dichloropropane	ND	0.011	1	01/31/2015 21:07
1,3-Dichloropropane	ND	0.011	1	01/31/2015 21:07
2,2-Dichloropropane	ND	0.011	1	01/31/2015 21:07
1,1-Dichloropropene	ND	0.011	1	01/31/2015 21:07

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005B**	**Soil**	**01/30/2015 12:40**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.011	1	01/31/2015 21:07
trans-1,3-Dichloropropene	ND	0.011	1	01/31/2015 21:07
Diisopropyl ether (DIPE)	ND	0.011	1	01/31/2015 21:07
Ethylbenzene	ND	0.011	1	01/31/2015 21:07
Ethyl tert-butyl ether (ETBE)	ND	0.011	1	01/31/2015 21:07
Freon 113	ND	0.011	1	01/31/2015 21:07
Hexachlorobutadiene	ND	0.011	1	01/31/2015 21:07
Hexachloroethane	ND	0.011	1	01/31/2015 21:07
2-Hexanone	ND	0.011	1	01/31/2015 21:07
Isopropylbenzene	ND	0.011	1	01/31/2015 21:07
4-Isopropyl toluene	ND	0.011	1	01/31/2015 21:07
Methyl-t-butyl ether (MTBE)	ND	0.011	1	01/31/2015 21:07
Methylene chloride	ND	0.011	1	01/31/2015 21:07
4-Methyl-2-pentanone (MIBK)	ND	0.011	1	01/31/2015 21:07
Naphthalene	ND	0.011	1	01/31/2015 21:07
n-Propyl benzene	ND	0.011	1	01/31/2015 21:07
Styrene	ND	0.011	1	01/31/2015 21:07
1,1,1,2-Tetrachloroethane	ND	0.011	1	01/31/2015 21:07
1,1,2,2-Tetrachloroethane	ND	0.011	1	01/31/2015 21:07
Tetrachloroethene	ND	0.011	1	01/31/2015 21:07
Toluene	ND	0.011	1	01/31/2015 21:07
1,2,3-Trichlorobenzene	ND	0.011	1	01/31/2015 21:07
1,2,4-Trichlorobenzene	ND	0.011	1	01/31/2015 21:07
1,1,1-Trichloroethane	ND	0.011	1	01/31/2015 21:07
1,1,2-Trichloroethane	ND	0.011	1	01/31/2015 21:07
Trichloroethene	ND	0.011	1	01/31/2015 21:07
Trichlorofluoromethane	ND	0.011	1	01/31/2015 21:07
1,2,3-Trichloropropane	ND	0.011	1	01/31/2015 21:07
1,2,4-Trimethylbenzene	ND	0.011	1	01/31/2015 21:07
1,3,5-Trimethylbenzene	ND	0.011	1	01/31/2015 21:07
Vinyl Chloride	ND	0.011	1	01/31/2015 21:07
Xylenes, Total	ND	0.011	1	01/31/2015 21:07

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005B**	**Soil**	**01/30/2015 12:40**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: a9,i1
Dibromofluoromethane	84	70-130	01/31/2015 21:07
Toluene-d8	105	70-130	01/31/2015 21:07
4-BFB	93	70-130	01/31/2015 21:07

Analyst(s): KF

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006B**	**Soil**	**01/30/2015 12:55**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.21	1	01/31/2015 21:48
tert-Amyl methyl ether (TAME)	ND	0.011	1	01/31/2015 21:48
Benzene	ND	0.011	1	01/31/2015 21:48
Bromobenzene	ND	0.011	1	01/31/2015 21:48
Bromochloromethane	ND	0.011	1	01/31/2015 21:48
Bromodichloromethane	ND	0.011	1	01/31/2015 21:48
Bromoform	ND	0.011	1	01/31/2015 21:48
Bromomethane	ND	0.011	1	01/31/2015 21:48
2-Butanone (MEK)	ND	0.043	1	01/31/2015 21:48
t-Butyl alcohol (TBA)	ND	0.11	1	01/31/2015 21:48
n-Butyl benzene	ND	0.011	1	01/31/2015 21:48
sec-Butyl benzene	ND	0.011	1	01/31/2015 21:48
tert-Butyl benzene	ND	0.011	1	01/31/2015 21:48
Carbon Disulfide	ND	0.011	1	01/31/2015 21:48
Carbon Tetrachloride	ND	0.011	1	01/31/2015 21:48
Chlorobenzene	ND	0.011	1	01/31/2015 21:48
Chloroethane	ND	0.011	1	01/31/2015 21:48
Chloroform	ND	0.011	1	01/31/2015 21:48
Chloromethane	ND	0.011	1	01/31/2015 21:48
2-Chlorotoluene	ND	0.011	1	01/31/2015 21:48
4-Chlorotoluene	ND	0.011	1	01/31/2015 21:48
Dibromochloromethane	ND	0.011	1	01/31/2015 21:48
1,2-Dibromo-3-chloropropane	ND	0.0085	1	01/31/2015 21:48
1,2-Dibromoethane (EDB)	ND	0.0085	1	01/31/2015 21:48
Dibromomethane	ND	0.011	1	01/31/2015 21:48
1,2-Dichlorobenzene	ND	0.011	1	01/31/2015 21:48
1,3-Dichlorobenzene	ND	0.011	1	01/31/2015 21:48
1,4-Dichlorobenzene	ND	0.011	1	01/31/2015 21:48
Dichlorodifluoromethane	ND	0.011	1	01/31/2015 21:48
1,1-Dichloroethane	ND	0.011	1	01/31/2015 21:48
1,2-Dichloroethane (1,2-DCA)	ND	0.011	1	01/31/2015 21:48
1,1-Dichloroethene	ND	0.011	1	01/31/2015 21:48
cis-1,2-Dichloroethene	ND	0.011	1	01/31/2015 21:48
trans-1,2-Dichloroethene	ND	0.011	1	01/31/2015 21:48
1,2-Dichloropropane	ND	0.011	1	01/31/2015 21:48
1,3-Dichloropropane	ND	0.011	1	01/31/2015 21:48
2,2-Dichloropropane	ND	0.011	1	01/31/2015 21:48
1,1-Dichloropropene	ND	0.011	1	01/31/2015 21:48

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006B**	**Soil**	**01/30/2015 12:55**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.011	1	01/31/2015 21:48
trans-1,3-Dichloropropene	ND	0.011	1	01/31/2015 21:48
Diisopropyl ether (DIPE)	ND	0.011	1	01/31/2015 21:48
Ethylbenzene	ND	0.011	1	01/31/2015 21:48
Ethyl tert-butyl ether (ETBE)	ND	0.011	1	01/31/2015 21:48
Freon 113	ND	0.011	1	01/31/2015 21:48
Hexachlorobutadiene	ND	0.011	1	01/31/2015 21:48
Hexachloroethane	ND	0.011	1	01/31/2015 21:48
2-Hexanone	ND	0.011	1	01/31/2015 21:48
Isopropylbenzene	ND	0.011	1	01/31/2015 21:48
4-Isopropyl toluene	ND	0.011	1	01/31/2015 21:48
Methyl-t-butyl ether (MTBE)	ND	0.011	1	01/31/2015 21:48
Methylene chloride	ND	0.011	1	01/31/2015 21:48
4-Methyl-2-pentanone (MIBK)	ND	0.011	1	01/31/2015 21:48
Naphthalene	ND	0.011	1	01/31/2015 21:48
n-Propyl benzene	ND	0.011	1	01/31/2015 21:48
Styrene	ND	0.011	1	01/31/2015 21:48
1,1,1,2-Tetrachloroethane	ND	0.011	1	01/31/2015 21:48
1,1,2,2-Tetrachloroethane	ND	0.011	1	01/31/2015 21:48
Tetrachloroethene	ND	0.011	1	01/31/2015 21:48
Toluene	ND	0.011	1	01/31/2015 21:48
1,2,3-Trichlorobenzene	ND	0.011	1	01/31/2015 21:48
1,2,4-Trichlorobenzene	ND	0.011	1	01/31/2015 21:48
1,1,1-Trichloroethane	ND	0.011	1	01/31/2015 21:48
1,1,2-Trichloroethane	ND	0.011	1	01/31/2015 21:48
Trichloroethene	ND	0.011	1	01/31/2015 21:48
Trichlorofluoromethane	ND	0.011	1	01/31/2015 21:48
1,2,3-Trichloropropane	ND	0.011	1	01/31/2015 21:48
1,2,4-Trimethylbenzene	ND	0.011	1	01/31/2015 21:48
1,3,5-Trimethylbenzene	ND	0.011	1	01/31/2015 21:48
Vinyl Chloride	ND	0.011	1	01/31/2015 21:48
Xylenes, Total	ND	0.011	1	01/31/2015 21:48

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5035
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006B**	**Soil**	**01/30/2015 12:55**	**GC10**	**100567**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: a9,i1
Dibromofluoromethane	84	70-130	01/31/2015 21:48
Toluene-d8	103	70-130	01/31/2015 21:48
4-BFB	93	70-130	01/31/2015 21:48

Analyst(s): KF

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	2/5/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TB-1	**1501949-007A**	**Water**	**01/30/2015**	**GC18**	**100792**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	02/05/2015 02:41
tert-Amyl methyl ether (TAME)	ND	0.50	1	02/05/2015 02:41
Benzene	ND	0.50	1	02/05/2015 02:41
Bromobenzene	ND	0.50	1	02/05/2015 02:41
Bromochloromethane	ND	0.50	1	02/05/2015 02:41
Bromodichloromethane	ND	0.50	1	02/05/2015 02:41
Bromoform	ND	0.50	1	02/05/2015 02:41
Bromomethane	ND	0.50	1	02/05/2015 02:41
2-Butanone (MEK)	ND	2.0	1	02/05/2015 02:41
t-Butyl alcohol (TBA)	ND	2.0	1	02/05/2015 02:41
n-Butyl benzene	ND	0.50	1	02/05/2015 02:41
sec-Butyl benzene	ND	0.50	1	02/05/2015 02:41
tert-Butyl benzene	ND	0.50	1	02/05/2015 02:41
Carbon Disulfide	ND	0.50	1	02/05/2015 02:41
Carbon Tetrachloride	ND	0.50	1	02/05/2015 02:41
Chlorobenzene	ND	0.50	1	02/05/2015 02:41
Chloroethane	ND	0.50	1	02/05/2015 02:41
Chloroform	ND	0.50	1	02/05/2015 02:41
Chloromethane	ND	0.50	1	02/05/2015 02:41
2-Chlorotoluene	ND	0.50	1	02/05/2015 02:41
4-Chlorotoluene	ND	0.50	1	02/05/2015 02:41
Dibromochloromethane	ND	0.50	1	02/05/2015 02:41
1,2-Dibromo-3-chloropropane	ND	0.20	1	02/05/2015 02:41
1,2-Dibromoethane (EDB)	ND	0.50	1	02/05/2015 02:41
Dibromomethane	ND	0.50	1	02/05/2015 02:41
1,2-Dichlorobenzene	ND	0.50	1	02/05/2015 02:41
1,3-Dichlorobenzene	ND	0.50	1	02/05/2015 02:41
1,4-Dichlorobenzene	ND	0.50	1	02/05/2015 02:41
Dichlorodifluoromethane	ND	0.50	1	02/05/2015 02:41
1,1-Dichloroethane	ND	0.50	1	02/05/2015 02:41
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	02/05/2015 02:41
1,1-Dichloroethene	ND	0.50	1	02/05/2015 02:41
cis-1,2-Dichloroethene	ND	0.50	1	02/05/2015 02:41
trans-1,2-Dichloroethene	ND	0.50	1	02/05/2015 02:41
1,2-Dichloropropane	ND	0.50	1	02/05/2015 02:41
1,3-Dichloropropane	ND	0.50	1	02/05/2015 02:41
2,2-Dichloropropane	ND	0.50	1	02/05/2015 02:41
1,1-Dichloropropene	ND	0.50	1	02/05/2015 02:41

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	2/5/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TB-1	**1501949-007A**	**Water**	**01/30/2015**	**GC18**	**100792**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	1	02/05/2015 02:41
trans-1,3-Dichloropropene	ND	0.50	1	02/05/2015 02:41
Diisopropyl ether (DIPE)	ND	0.50	1	02/05/2015 02:41
Ethylbenzene	ND	0.50	1	02/05/2015 02:41
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	02/05/2015 02:41
Freon 113	ND	0.50	1	02/05/2015 02:41
Hexachlorobutadiene	ND	0.50	1	02/05/2015 02:41
Hexachloroethane	ND	0.50	1	02/05/2015 02:41
2-Hexanone	ND	0.50	1	02/05/2015 02:41
Isopropylbenzene	ND	0.50	1	02/05/2015 02:41
4-Isopropyl toluene	ND	0.50	1	02/05/2015 02:41
Methyl-t-butyl ether (MTBE)	ND	0.50	1	02/05/2015 02:41
Methylene chloride	ND	0.50	1	02/05/2015 02:41
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	02/05/2015 02:41
Naphthalene	ND	0.50	1	02/05/2015 02:41
n-Propyl benzene	ND	0.50	1	02/05/2015 02:41
Styrene	ND	0.50	1	02/05/2015 02:41
1,1,1,2-Tetrachloroethane	ND	0.50	1	02/05/2015 02:41
1,1,2,2-Tetrachloroethane	ND	0.50	1	02/05/2015 02:41
Tetrachloroethene	ND	0.50	1	02/05/2015 02:41
Toluene	ND	0.50	1	02/05/2015 02:41
1,2,3-Trichlorobenzene	ND	0.50	1	02/05/2015 02:41
1,2,4-Trichlorobenzene	ND	0.50	1	02/05/2015 02:41
1,1,1-Trichloroethane	ND	0.50	1	02/05/2015 02:41
1,1,2-Trichloroethane	ND	0.50	1	02/05/2015 02:41
Trichloroethene	ND	0.50	1	02/05/2015 02:41
Trichlorofluoromethane	ND	0.50	1	02/05/2015 02:41
1,2,3-Trichloropropane	ND	0.50	1	02/05/2015 02:41
1,2,4-Trimethylbenzene	ND	0.50	1	02/05/2015 02:41
1,3,5-Trimethylbenzene	ND	0.50	1	02/05/2015 02:41
Vinyl Chloride	ND	0.50	1	02/05/2015 02:41
Xylenes, Total	ND	0.50	1	02/05/2015 02:41

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8260B
Date Prepared:	2/5/15	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TB-1	**1501949-007A**	**Water**	**01/30/2015**	**GC18**	**100792**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	88	80-124		02/05/2015 02:41
Toluene-d8	91	75-110		02/05/2015 02:41
4-BFB	95	69-114		02/05/2015 02:41

Analyst(s): KF

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.28	1	02/05/2015 22:35
Acenaphthylene	**0.28**	0.28	1	02/05/2015 22:35
Acetochlor	ND	0.28	1	02/05/2015 22:35
Anthracene	ND	0.28	1	02/05/2015 22:35
Benzidine	ND	1.5	1	02/05/2015 22:35
Benzo (a) anthracene	**1.0**	0.28	1	02/05/2015 22:35
Benzo (b) fluoranthene	**1.9**	0.28	1	02/05/2015 22:35
Benzo (k) fluoranthene	**0.59**	0.28	1	02/05/2015 22:35
Benzo (g,h,i) perylene	**1.8**	0.28	1	02/05/2015 22:35
Benzo (a) pyrene	**1.5**	0.28	1	02/05/2015 22:35
Benzyl Alcohol	ND	1.5	1	02/05/2015 22:35
1,1-Biphenyl	ND	0.28	1	02/05/2015 22:35
Bis (2-chloroethoxy) Methane	ND	0.28	1	02/05/2015 22:35
Bis (2-chloroethyl) Ether	ND	0.28	1	02/05/2015 22:35
Bis (2-chloroisopropyl) Ether	ND	0.28	1	02/05/2015 22:35
Bis (2-ethylhexyl) Phthalate	ND	0.28	1	02/05/2015 22:35
4-Bromophenyl Phenyl Ether	ND	0.28	1	02/05/2015 22:35
Butylbenzyl Phthalate	ND	0.28	1	02/05/2015 22:35
4-Chloroaniline	ND	0.28	1	02/05/2015 22:35
4-Chloro-3-methylphenol	ND	0.28	1	02/05/2015 22:35
2-Chloronaphthalene	ND	0.28	1	02/05/2015 22:35
2-Chlorophenol	ND	0.28	1	02/05/2015 22:35
4-Chlorophenyl Phenyl Ether	ND	0.28	1	02/05/2015 22:35
Chrysene	**1.4**	0.28	1	02/05/2015 22:35
Dibenzo (a,h) anthracene	ND	0.28	1	02/05/2015 22:35
Dibenzofuran	ND	0.28	1	02/05/2015 22:35
Di-n-butyl Phthalate	ND	0.28	1	02/05/2015 22:35
1,2-Dichlorobenzene	ND	0.28	1	02/05/2015 22:35
1,3-Dichlorobenzene	ND	0.28	1	02/05/2015 22:35
1,4-Dichlorobenzene	ND	0.28	1	02/05/2015 22:35
3,3-Dichlorobenzidine	ND	0.56	1	02/05/2015 22:35
2,4-Dichlorophenol	ND	0.28	1	02/05/2015 22:35
Diethyl Phthalate	ND	0.28	1	02/05/2015 22:35
2,4-Dimethylphenol	ND	0.28	1	02/05/2015 22:35
Dimethyl Phthalate	ND	0.28	1	02/05/2015 22:35
4,6-Dinitro-2-methylphenol	ND	1.5	1	02/05/2015 22:35
2,4-Dinitrophenol	ND	7.0	1	02/05/2015 22:35
2,4-Dinitrotoluene	ND	0.28	1	02/05/2015 22:35

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.28	1	02/05/2015 22:35
Di-n-octyl Phthalate	ND	0.28	1	02/05/2015 22:35
1,2-Diphenylhydrazine	ND	0.28	1	02/05/2015 22:35
Fluoranthene	**4.1**	0.28	1	02/05/2015 22:35
Fluorene	ND	0.28	1	02/05/2015 22:35
Hexachlorobenzene	ND	0.28	1	02/05/2015 22:35
Hexachlorobutadiene	ND	0.28	1	02/05/2015 22:35
Hexachlorocyclopentadiene	ND	1.5	1	02/05/2015 22:35
Hexachloroethane	ND	0.28	1	02/05/2015 22:35
Indeno (1,2,3-cd) pyrene	**1.6**	0.28	1	02/05/2015 22:35
Isophorone	ND	0.28	1	02/05/2015 22:35
2-Methylnaphthalene	ND	0.28	1	02/05/2015 22:35
2-Methylphenol (o-Cresol)	ND	0.28	1	02/05/2015 22:35
3 &/or 4-Methylphenol (m,p-Cresol)	ND	0.28	1	02/05/2015 22:35
Naphthalene	ND	0.28	1	02/05/2015 22:35
2-Nitroaniline	ND	1.5	1	02/05/2015 22:35
3-Nitroaniline	ND	1.5	1	02/05/2015 22:35
4-Nitroaniline	ND	1.5	1	02/05/2015 22:35
Nitrobenzene	ND	1.5	1	02/05/2015 22:35
2-Nitrophenol	ND	1.5	1	02/05/2015 22:35
4-Nitrophenol	ND	1.5	1	02/05/2015 22:35
N-Nitrosodiphenylamine	ND	0.28	1	02/05/2015 22:35
N-Nitrosodi-n-propylamine	ND	0.28	1	02/05/2015 22:35
Pentachlorophenol	ND	1.5	1	02/05/2015 22:35
Phenanthrene	**1.4**	0.28	1	02/05/2015 22:35
Phenol	ND	0.28	1	02/05/2015 22:35
Pyrene	**3.7**	0.28	1	02/05/2015 22:35
1,2,4-Trichlorobenzene	ND	0.28	1	02/05/2015 22:35
2,4,5-Trichlorophenol	ND	0.28	1	02/05/2015 22:35
2,4,6-Trichlorophenol	ND	0.28	1	02/05/2015 22:35

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	64	30-130		02/05/2015 22:35
Phenol-d5	66	30-130		02/05/2015 22:35
Nitrobenzene-d5	58	30-130		02/05/2015 22:35
2-Fluorobiphenyl	59	30-130		02/05/2015 22:35
2,4,6-Tribromophenol	41	30-130		02/05/2015 22:35
4-Terphenyl-d14	59	30-130		02/05/2015 22:35

Analyst(s): HK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.30	1	02/05/2015 20:41
Acenaphthylene	ND	0.30	1	02/05/2015 20:41
Acetochlor	ND	0.30	1	02/05/2015 20:41
Anthracene	ND	0.30	1	02/05/2015 20:41
Benzidine	ND	1.6	1	02/05/2015 20:41
Benzo (a) anthracene	ND	0.30	1	02/05/2015 20:41
Benzo (b) fluoranthene	ND	0.30	1	02/05/2015 20:41
Benzo (k) fluoranthene	ND	0.30	1	02/05/2015 20:41
Benzo (g,h,i) perylene	ND	0.30	1	02/05/2015 20:41
Benzo (a) pyrene	ND	0.30	1	02/05/2015 20:41
Benzyl Alcohol	ND	1.6	1	02/05/2015 20:41
1,1-Biphenyl	ND	0.30	1	02/05/2015 20:41
Bis (2-chloroethoxy) Methane	ND	0.30	1	02/05/2015 20:41
Bis (2-chloroethyl) Ether	ND	0.30	1	02/05/2015 20:41
Bis (2-chloroisopropyl) Ether	ND	0.30	1	02/05/2015 20:41
Bis (2-ethylhexyl) Phthalate	ND	0.30	1	02/05/2015 20:41
4-Bromophenyl Phenyl Ether	ND	0.30	1	02/05/2015 20:41
Butylbenzyl Phthalate	ND	0.30	1	02/05/2015 20:41
4-Chloroaniline	ND	0.30	1	02/05/2015 20:41
4-Chloro-3-methylphenol	ND	0.30	1	02/05/2015 20:41
2-Chloronaphthalene	ND	0.30	1	02/05/2015 20:41
2-Chlorophenol	ND	0.30	1	02/05/2015 20:41
4-Chlorophenyl Phenyl Ether	ND	0.30	1	02/05/2015 20:41
Chrysene	ND	0.30	1	02/05/2015 20:41
Dibenzo (a,h) anthracene	ND	0.30	1	02/05/2015 20:41
Dibenzofuran	ND	0.30	1	02/05/2015 20:41
Di-n-butyl Phthalate	ND	0.30	1	02/05/2015 20:41
1,2-Dichlorobenzene	ND	0.30	1	02/05/2015 20:41
1,3-Dichlorobenzene	ND	0.30	1	02/05/2015 20:41
1,4-Dichlorobenzene	ND	0.30	1	02/05/2015 20:41
3,3-Dichlorobenzidine	ND	0.60	1	02/05/2015 20:41
2,4-Dichlorophenol	ND	0.30	1	02/05/2015 20:41
Diethyl Phthalate	ND	0.30	1	02/05/2015 20:41
2,4-Dimethylphenol	ND	0.30	1	02/05/2015 20:41
Dimethyl Phthalate	ND	0.30	1	02/05/2015 20:41
4,6-Dinitro-2-methylphenol	ND	1.6	1	02/05/2015 20:41
2,4-Dinitrophenol	ND	7.6	1	02/05/2015 20:41
2,4-Dinitrotoluene	ND	0.30	1	02/05/2015 20:41

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.30	1	02/05/2015 20:41
Di-n-octyl Phthalate	ND	0.30	1	02/05/2015 20:41
1,2-Diphenylhydrazine	ND	0.30	1	02/05/2015 20:41
Fluoranthene	ND	0.30	1	02/05/2015 20:41
Fluorene	ND	0.30	1	02/05/2015 20:41
Hexachlorobenzene	ND	0.30	1	02/05/2015 20:41
Hexachlorobutadiene	ND	0.30	1	02/05/2015 20:41
Hexachlorocyclopentadiene	ND	1.6	1	02/05/2015 20:41
Hexachloroethane	ND	0.30	1	02/05/2015 20:41
Indeno (1,2,3-cd) pyrene	ND	0.30	1	02/05/2015 20:41
Isophorone	ND	0.30	1	02/05/2015 20:41
2-Methylnaphthalene	ND	0.30	1	02/05/2015 20:41
2-Methylphenol (o-Cresol)	ND	0.30	1	02/05/2015 20:41
3 &/or 4-Methylphenol (m,p-Cresol)	ND	0.30	1	02/05/2015 20:41
Naphthalene	ND	0.30	1	02/05/2015 20:41
2-Nitroaniline	ND	1.6	1	02/05/2015 20:41
3-Nitroaniline	ND	1.6	1	02/05/2015 20:41
4-Nitroaniline	ND	1.6	1	02/05/2015 20:41
Nitrobenzene	ND	1.6	1	02/05/2015 20:41
2-Nitrophenol	ND	1.6	1	02/05/2015 20:41
4-Nitrophenol	ND	1.6	1	02/05/2015 20:41
N-Nitrosodiphenylamine	ND	0.30	1	02/05/2015 20:41
N-Nitrosodi-n-propylamine	ND	0.30	1	02/05/2015 20:41
Pentachlorophenol	ND	1.6	1	02/05/2015 20:41
Phenanthrene	ND	0.30	1	02/05/2015 20:41
Phenol	ND	0.30	1	02/05/2015 20:41
Pyrene	ND	0.30	1	02/05/2015 20:41
1,2,4-Trichlorobenzene	ND	0.30	1	02/05/2015 20:41
2,4,5-Trichlorophenol	ND	0.30	1	02/05/2015 20:41
2,4,6-Trichlorophenol	ND	0.30	1	02/05/2015 20:41

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	61	30-130		02/05/2015 20:41
Phenol-d5	66	30-130		02/05/2015 20:41
Nitrobenzene-d5	59	30-130		02/05/2015 20:41
2-Fluorobiphenyl	62	30-130		02/05/2015 20:41
2,4,6-Tribromophenol	36	30-130		02/05/2015 20:41
4-Terphenyl-d14	60	30-130		02/05/2015 20:41

Analyst(s): HK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.28	1	02/05/2015 21:10
Acenaphthylene	ND	0.28	1	02/05/2015 21:10
Acetochlor	ND	0.28	1	02/05/2015 21:10
Anthracene	ND	0.28	1	02/05/2015 21:10
Benzidine	ND	1.4	1	02/05/2015 21:10
Benzo (a) anthracene	ND	0.28	1	02/05/2015 21:10
Benzo (b) fluoranthene	ND	0.28	1	02/05/2015 21:10
Benzo (k) fluoranthene	ND	0.28	1	02/05/2015 21:10
Benzo (g,h,i) perylene	ND	0.28	1	02/05/2015 21:10
Benzo (a) pyrene	ND	0.28	1	02/05/2015 21:10
Benzyl Alcohol	ND	1.4	1	02/05/2015 21:10
1,1-Biphenyl	ND	0.28	1	02/05/2015 21:10
Bis (2-chloroethoxy) Methane	ND	0.28	1	02/05/2015 21:10
Bis (2-chloroethyl) Ether	ND	0.28	1	02/05/2015 21:10
Bis (2-chloroisopropyl) Ether	ND	0.28	1	02/05/2015 21:10
Bis (2-ethylhexyl) Phthalate	ND	0.28	1	02/05/2015 21:10
4-Bromophenyl Phenyl Ether	ND	0.28	1	02/05/2015 21:10
Butylbenzyl Phthalate	ND	0.28	1	02/05/2015 21:10
4-Chloroaniline	ND	0.28	1	02/05/2015 21:10
4-Chloro-3-methylphenol	ND	0.28	1	02/05/2015 21:10
2-Chloronaphthalene	ND	0.28	1	02/05/2015 21:10
2-Chlorophenol	ND	0.28	1	02/05/2015 21:10
4-Chlorophenyl Phenyl Ether	ND	0.28	1	02/05/2015 21:10
Chrysene	ND	0.28	1	02/05/2015 21:10
Dibenzo (a,h) anthracene	ND	0.28	1	02/05/2015 21:10
Dibenzofuran	ND	0.28	1	02/05/2015 21:10
Di-n-butyl Phthalate	ND	0.28	1	02/05/2015 21:10
1,2-Dichlorobenzene	ND	0.28	1	02/05/2015 21:10
1,3-Dichlorobenzene	ND	0.28	1	02/05/2015 21:10
1,4-Dichlorobenzene	ND	0.28	1	02/05/2015 21:10
3,3-Dichlorobenzidine	ND	0.56	1	02/05/2015 21:10
2,4-Dichlorophenol	ND	0.28	1	02/05/2015 21:10
Diethyl Phthalate	ND	0.28	1	02/05/2015 21:10
2,4-Dimethylphenol	ND	0.28	1	02/05/2015 21:10
Dimethyl Phthalate	ND	0.28	1	02/05/2015 21:10
4,6-Dinitro-2-methylphenol	ND	1.4	1	02/05/2015 21:10
2,4-Dinitrophenol	ND	7.0	1	02/05/2015 21:10
2,4-Dinitrotoluene	ND	0.28	1	02/05/2015 21:10

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.28	1	02/05/2015 21:10
Di-n-octyl Phthalate	ND	0.28	1	02/05/2015 21:10
1,2-Diphenylhydrazine	ND	0.28	1	02/05/2015 21:10
Fluoranthene	**0.31**	0.28	1	02/05/2015 21:10
Fluorene	ND	0.28	1	02/05/2015 21:10
Hexachlorobenzene	ND	0.28	1	02/05/2015 21:10
Hexachlorobutadiene	ND	0.28	1	02/05/2015 21:10
Hexachlorocyclopentadiene	ND	1.4	1	02/05/2015 21:10
Hexachloroethane	ND	0.28	1	02/05/2015 21:10
Indeno (1,2,3-cd) pyrene	ND	0.28	1	02/05/2015 21:10
Isophorone	ND	0.28	1	02/05/2015 21:10
2-Methylnaphthalene	ND	0.28	1	02/05/2015 21:10
2-Methylphenol (o-Cresol)	ND	0.28	1	02/05/2015 21:10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	0.28	1	02/05/2015 21:10
Naphthalene	ND	0.28	1	02/05/2015 21:10
2-Nitroaniline	ND	1.4	1	02/05/2015 21:10
3-Nitroaniline	ND	1.4	1	02/05/2015 21:10
4-Nitroaniline	ND	1.4	1	02/05/2015 21:10
Nitrobenzene	ND	1.4	1	02/05/2015 21:10
2-Nitrophenol	ND	1.4	1	02/05/2015 21:10
4-Nitrophenol	ND	1.4	1	02/05/2015 21:10
N-Nitrosodiphenylamine	ND	0.28	1	02/05/2015 21:10
N-Nitrosodi-n-propylamine	ND	0.28	1	02/05/2015 21:10
Pentachlorophenol	ND	1.4	1	02/05/2015 21:10
Phenanthrene	ND	0.28	1	02/05/2015 21:10
Phenol	ND	0.28	1	02/05/2015 21:10
Pyrene	**0.37**	0.28	1	02/05/2015 21:10
1,2,4-Trichlorobenzene	ND	0.28	1	02/05/2015 21:10
2,4,5-Trichlorophenol	ND	0.28	1	02/05/2015 21:10
2,4,6-Trichlorophenol	ND	0.28	1	02/05/2015 21:10

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B/3640A
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/5/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List) w/ GPC Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC21**	**100826**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	70	30-130		02/05/2015 21:10
Phenol-d5	75	30-130		02/05/2015 21:10
Nitrobenzene-d5	62	30-130		02/05/2015 21:10
2-Fluorobiphenyl	63	30-130		02/05/2015 21:10
2,4,6-Tribromophenol	39	30-130		02/05/2015 21:10
4-Terphenyl-d14	62	30-130		02/05/2015 21:10

Analyst(s): HK

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.27	1	02/05/2015 17:23
Acenaphthylene	ND	0.27	1	02/05/2015 17:23
Acetochlor	ND	0.27	1	02/05/2015 17:23
Anthracene	ND	0.27	1	02/05/2015 17:23
Benzidine	ND	1.4	1	02/05/2015 17:23
Benzo (a) anthracene	ND	0.27	1	02/05/2015 17:23
Benzo (b) fluoranthene	ND	0.27	1	02/05/2015 17:23
Benzo (k) fluoranthene	ND	0.27	1	02/05/2015 17:23
Benzo (g,h,i) perylene	ND	0.27	1	02/05/2015 17:23
Benzo (a) pyrene	ND	0.27	1	02/05/2015 17:23
Benzyl Alcohol	ND	1.4	1	02/05/2015 17:23
1,1-Biphenyl	ND	0.27	1	02/05/2015 17:23
Bis (2-chloroethoxy) Methane	ND	0.27	1	02/05/2015 17:23
Bis (2-chloroethyl) Ether	ND	0.27	1	02/05/2015 17:23
Bis (2-chloroisopropyl) Ether	ND	0.27	1	02/05/2015 17:23
Bis (2-ethylhexyl) Adipate	ND	0.27	1	02/05/2015 17:23
Bis (2-ethylhexyl) Phthalate	ND	0.27	1	02/05/2015 17:23
4-Bromophenyl Phenyl Ether	ND	0.27	1	02/05/2015 17:23
Butylbenzyl Phthalate	ND	0.27	1	02/05/2015 17:23
4-Chloroaniline	ND	0.27	1	02/05/2015 17:23
4-Chloro-3-methylphenol	ND	0.27	1	02/05/2015 17:23
2-Chloronaphthalene	ND	0.27	1	02/05/2015 17:23
2-Chlorophenol	ND	0.27	1	02/05/2015 17:23
4-Chlorophenyl Phenyl Ether	ND	0.27	1	02/05/2015 17:23
Chrysene	ND	0.27	1	02/05/2015 17:23
Dibenzo (a,h) anthracene	ND	0.27	1	02/05/2015 17:23
Dibenzofuran	ND	0.27	1	02/05/2015 17:23
Di-n-butyl Phthalate	ND	0.27	1	02/05/2015 17:23
1,2-Dichlorobenzene	ND	0.27	1	02/05/2015 17:23
1,3-Dichlorobenzene	ND	0.27	1	02/05/2015 17:23
1,4-Dichlorobenzene	ND	0.27	1	02/05/2015 17:23
3,3-Dichlorobenzidine	ND	0.54	1	02/05/2015 17:23
2,4-Dichlorophenol	ND	0.27	1	02/05/2015 17:23
Diethyl Phthalate	ND	0.27	1	02/05/2015 17:23
2,4-Dimethylphenol	ND	0.27	1	02/05/2015 17:23
Dimethyl Phthalate	ND	0.27	1	02/05/2015 17:23
4,6-Dinitro-2-methylphenol	ND	1.4	1	02/05/2015 17:23
2,4-Dinitrophenol	ND	6.8	1	02/05/2015 17:23

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.27	1	02/05/2015 17:23
2,6-Dinitrotoluene	ND	0.27	1	02/05/2015 17:23
Di-n-octyl Phthalate	ND	0.27	1	02/05/2015 17:23
1,2-Diphenylhydrazine	ND	0.27	1	02/05/2015 17:23
Fluoranthene	ND	0.27	1	02/05/2015 17:23
Fluorene	ND	0.27	1	02/05/2015 17:23
Hexachlorobenzene	ND	0.27	1	02/05/2015 17:23
Hexachlorobutadiene	ND	0.27	1	02/05/2015 17:23
Hexachlorocyclopentadiene	ND	1.4	1	02/05/2015 17:23
Hexachloroethane	ND	0.27	1	02/05/2015 17:23
Indeno (1,2,3-cd) pyrene	ND	0.27	1	02/05/2015 17:23
Isophorone	ND	0.27	1	02/05/2015 17:23
2-Methylnaphthalene	ND	0.27	1	02/05/2015 17:23
2-Methylphenol (o-Cresol)	ND	0.27	1	02/05/2015 17:23
3 & 4-Methylphenol (m,p-Cresol)	ND	0.27	1	02/05/2015 17:23
Naphthalene	ND	0.27	1	02/05/2015 17:23
2-Nitroaniline	ND	1.4	1	02/05/2015 17:23
3-Nitroaniline	ND	1.4	1	02/05/2015 17:23
4-Nitroaniline	ND	1.4	1	02/05/2015 17:23
Nitrobenzene	ND	0.27	1	02/05/2015 17:23
2-Nitrophenol	ND	1.4	1	02/05/2015 17:23
4-Nitrophenol	ND	1.4	1	02/05/2015 17:23
N-Nitrosodiphenylamine	ND	0.27	1	02/05/2015 17:23
N-Nitrosodi-n-propylamine	ND	0.27	1	02/05/2015 17:23
Pentachlorophenol	ND	1.4	1	02/05/2015 17:23
Phenanthrene	ND	0.27	1	02/05/2015 17:23
Phenol	ND	0.27	1	02/05/2015 17:23
Pyrene	ND	0.27	1	02/05/2015 17:23
1,2,4-Trichlorobenzene	ND	0.27	1	02/05/2015 17:23
2,4,5-Trichlorophenol	ND	0.27	1	02/05/2015 17:23
2,4,6-Trichlorophenol	ND	0.27	1	02/05/2015 17:23

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	90	30-130		02/05/2015 17:23
Phenol-d5	89	30-130		02/05/2015 17:23
Nitrobenzene-d5	78	30-130		02/05/2015 17:23
2-Fluorobiphenyl	75	30-130		02/05/2015 17:23
2,4,6-Tribromophenol	37	30-130		02/05/2015 17:23
4-Terphenyl-d14	81	30-130		02/05/2015 17:23

Analyst(s): HK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.30	1	02/05/2015 17:52
Acenaphthylene	ND	0.30	1	02/05/2015 17:52
Acetochlor	ND	0.30	1	02/05/2015 17:52
Anthracene	ND	0.30	1	02/05/2015 17:52
Benzidine	ND	1.6	1	02/05/2015 17:52
Benzo (a) anthracene	ND	0.30	1	02/05/2015 17:52
Benzo (b) fluoranthene	ND	0.30	1	02/05/2015 17:52
Benzo (k) fluoranthene	ND	0.30	1	02/05/2015 17:52
Benzo (g,h,i) perylene	ND	0.30	1	02/05/2015 17:52
Benzo (a) pyrene	ND	0.30	1	02/05/2015 17:52
Benzyl Alcohol	ND	1.6	1	02/05/2015 17:52
1,1-Biphenyl	ND	0.30	1	02/05/2015 17:52
Bis (2-chloroethoxy) Methane	ND	0.30	1	02/05/2015 17:52
Bis (2-chloroethyl) Ether	ND	0.30	1	02/05/2015 17:52
Bis (2-chloroisopropyl) Ether	ND	0.30	1	02/05/2015 17:52
Bis (2-ethylhexyl) Adipate	ND	0.30	1	02/05/2015 17:52
Bis (2-ethylhexyl) Phthalate	ND	0.30	1	02/05/2015 17:52
4-Bromophenyl Phenyl Ether	ND	0.30	1	02/05/2015 17:52
Butylbenzyl Phthalate	ND	0.30	1	02/05/2015 17:52
4-Chloroaniline	ND	0.30	1	02/05/2015 17:52
4-Chloro-3-methylphenol	ND	0.30	1	02/05/2015 17:52
2-Chloronaphthalene	ND	0.30	1	02/05/2015 17:52
2-Chlorophenol	ND	0.30	1	02/05/2015 17:52
4-Chlorophenyl Phenyl Ether	ND	0.30	1	02/05/2015 17:52
Chrysene	ND	0.30	1	02/05/2015 17:52
Dibenzo (a,h) anthracene	ND	0.30	1	02/05/2015 17:52
Dibenzofuran	ND	0.30	1	02/05/2015 17:52
Di-n-butyl Phthalate	ND	0.30	1	02/05/2015 17:52
1,2-Dichlorobenzene	ND	0.30	1	02/05/2015 17:52
1,3-Dichlorobenzene	ND	0.30	1	02/05/2015 17:52
1,4-Dichlorobenzene	ND	0.30	1	02/05/2015 17:52
3,3-Dichlorobenzidine	ND	0.60	1	02/05/2015 17:52
2,4-Dichlorophenol	ND	0.30	1	02/05/2015 17:52
Diethyl Phthalate	ND	0.30	1	02/05/2015 17:52
2,4-Dimethylphenol	ND	0.30	1	02/05/2015 17:52
Dimethyl Phthalate	ND	0.30	1	02/05/2015 17:52
4,6-Dinitro-2-methylphenol	ND	1.6	1	02/05/2015 17:52
2,4-Dinitrophenol	ND	7.5	1	02/05/2015 17:52

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.30	1	02/05/2015 17:52
2,6-Dinitrotoluene	ND	0.30	1	02/05/2015 17:52
Di-n-octyl Phthalate	ND	0.30	1	02/05/2015 17:52
1,2-Diphenylhydrazine	ND	0.30	1	02/05/2015 17:52
Fluoranthene	ND	0.30	1	02/05/2015 17:52
Fluorene	ND	0.30	1	02/05/2015 17:52
Hexachlorobenzene	ND	0.30	1	02/05/2015 17:52
Hexachlorobutadiene	ND	0.30	1	02/05/2015 17:52
Hexachlorocyclopentadiene	ND	1.6	1	02/05/2015 17:52
Hexachloroethane	ND	0.30	1	02/05/2015 17:52
Indeno (1,2,3-cd) pyrene	ND	0.30	1	02/05/2015 17:52
Isophorone	ND	0.30	1	02/05/2015 17:52
2-Methylnaphthalene	ND	0.30	1	02/05/2015 17:52
2-Methylphenol (o-Cresol)	ND	0.30	1	02/05/2015 17:52
3 & 4-Methylphenol (m,p-Cresol)	ND	0.30	1	02/05/2015 17:52
Naphthalene	ND	0.30	1	02/05/2015 17:52
2-Nitroaniline	ND	1.6	1	02/05/2015 17:52
3-Nitroaniline	ND	1.6	1	02/05/2015 17:52
4-Nitroaniline	ND	1.6	1	02/05/2015 17:52
Nitrobenzene	ND	0.30	1	02/05/2015 17:52
2-Nitrophenol	ND	1.6	1	02/05/2015 17:52
4-Nitrophenol	ND	1.6	1	02/05/2015 17:52
N-Nitrosodiphenylamine	ND	0.30	1	02/05/2015 17:52
N-Nitrosodi-n-propylamine	ND	0.30	1	02/05/2015 17:52
Pentachlorophenol	ND	1.6	1	02/05/2015 17:52
Phenanthrene	ND	0.30	1	02/05/2015 17:52
Phenol	ND	0.30	1	02/05/2015 17:52
Pyrene	ND	0.30	1	02/05/2015 17:52
1,2,4-Trichlorobenzene	ND	0.30	1	02/05/2015 17:52
2,4,5-Trichlorophenol	ND	0.30	1	02/05/2015 17:52
2,4,6-Trichlorophenol	ND	0.30	1	02/05/2015 17:52

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	86	30-130		02/05/2015 17:52
Phenol-d5	89	30-130		02/05/2015 17:52
Nitrobenzene-d5	76	30-130		02/05/2015 17:52
2-Fluorobiphenyl	79	30-130		02/05/2015 17:52
2,4,6-Tribromophenol	44	30-130		02/05/2015 17:52
4-Terphenyl-d14	80	30-130		02/05/2015 17:52

Analyst(s): HK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.29	1	02/05/2015 16:26
Acenaphthylene	ND	0.29	1	02/05/2015 16:26
Acetochlor	ND	0.29	1	02/05/2015 16:26
Anthracene	ND	0.29	1	02/05/2015 16:26
Benzidine	ND	1.5	1	02/05/2015 16:26
Benzo (a) anthracene	ND	0.29	1	02/05/2015 16:26
Benzo (b) fluoranthene	ND	0.29	1	02/05/2015 16:26
Benzo (k) fluoranthene	ND	0.29	1	02/05/2015 16:26
Benzo (g,h,i) perylene	ND	0.29	1	02/05/2015 16:26
Benzo (a) pyrene	ND	0.29	1	02/05/2015 16:26
Benzyl Alcohol	ND	1.5	1	02/05/2015 16:26
1,1-Biphenyl	ND	0.29	1	02/05/2015 16:26
Bis (2-chloroethoxy) Methane	ND	0.29	1	02/05/2015 16:26
Bis (2-chloroethyl) Ether	ND	0.29	1	02/05/2015 16:26
Bis (2-chloroisopropyl) Ether	ND	0.29	1	02/05/2015 16:26
Bis (2-ethylhexyl) Adipate	ND	0.29	1	02/05/2015 16:26
Bis (2-ethylhexyl) Phthalate	ND	0.29	1	02/05/2015 16:26
4-Bromophenyl Phenyl Ether	ND	0.29	1	02/05/2015 16:26
Butylbenzyl Phthalate	ND	0.29	1	02/05/2015 16:26
4-Chloroaniline	ND	0.29	1	02/05/2015 16:26
4-Chloro-3-methylphenol	ND	0.29	1	02/05/2015 16:26
2-Chloronaphthalene	ND	0.29	1	02/05/2015 16:26
2-Chlorophenol	ND	0.29	1	02/05/2015 16:26
4-Chlorophenyl Phenyl Ether	ND	0.29	1	02/05/2015 16:26
Chrysene	ND	0.29	1	02/05/2015 16:26
Dibenzo (a,h) anthracene	ND	0.29	1	02/05/2015 16:26
Dibenzofuran	ND	0.29	1	02/05/2015 16:26
Di-n-butyl Phthalate	ND	0.29	1	02/05/2015 16:26
1,2-Dichlorobenzene	ND	0.29	1	02/05/2015 16:26
1,3-Dichlorobenzene	ND	0.29	1	02/05/2015 16:26
1,4-Dichlorobenzene	ND	0.29	1	02/05/2015 16:26
3,3-Dichlorobenzidine	ND	0.58	1	02/05/2015 16:26
2,4-Dichlorophenol	ND	0.29	1	02/05/2015 16:26
Diethyl Phthalate	ND	0.29	1	02/05/2015 16:26
2,4-Dimethylphenol	ND	0.29	1	02/05/2015 16:26
Dimethyl Phthalate	ND	0.29	1	02/05/2015 16:26
4,6-Dinitro-2-methylphenol	ND	1.5	1	02/05/2015 16:26
2,4-Dinitrophenol	ND	7.4	1	02/05/2015 16:26

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.29	1	02/05/2015 16:26
2,6-Dinitrotoluene	ND	0.29	1	02/05/2015 16:26
Di-n-octyl Phthalate	ND	0.29	1	02/05/2015 16:26
1,2-Diphenylhydrazine	ND	0.29	1	02/05/2015 16:26
Fluoranthene	ND	0.29	1	02/05/2015 16:26
Fluorene	ND	0.29	1	02/05/2015 16:26
Hexachlorobenzene	ND	0.29	1	02/05/2015 16:26
Hexachlorobutadiene	ND	0.29	1	02/05/2015 16:26
Hexachlorocyclopentadiene	ND	1.5	1	02/05/2015 16:26
Hexachloroethane	ND	0.29	1	02/05/2015 16:26
Indeno (1,2,3-cd) pyrene	ND	0.29	1	02/05/2015 16:26
Isophorone	ND	0.29	1	02/05/2015 16:26
2-Methylnaphthalene	ND	0.29	1	02/05/2015 16:26
2-Methylphenol (o-Cresol)	ND	0.29	1	02/05/2015 16:26
3 & 4-Methylphenol (m,p-Cresol)	ND	0.29	1	02/05/2015 16:26
Naphthalene	ND	0.29	1	02/05/2015 16:26
2-Nitroaniline	ND	1.5	1	02/05/2015 16:26
3-Nitroaniline	ND	1.5	1	02/05/2015 16:26
4-Nitroaniline	ND	1.5	1	02/05/2015 16:26
Nitrobenzene	ND	0.29	1	02/05/2015 16:26
2-Nitrophenol	ND	1.5	1	02/05/2015 16:26
4-Nitrophenol	ND	1.5	1	02/05/2015 16:26
N-Nitrosodiphenylamine	ND	0.29	1	02/05/2015 16:26
N-Nitrosodi-n-propylamine	ND	0.29	1	02/05/2015 16:26
Pentachlorophenol	ND	1.5	1	02/05/2015 16:26
Phenanthrene	ND	0.29	1	02/05/2015 16:26
Phenol	ND	0.29	1	02/05/2015 16:26
Pyrene	ND	0.29	1	02/05/2015 16:26
1,2,4-Trichlorobenzene	ND	0.29	1	02/05/2015 16:26
2,4,5-Trichlorophenol	ND	0.29	1	02/05/2015 16:26
2,4,6-Trichlorophenol	ND	0.29	1	02/05/2015 16:26

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8270C
Date Prepared:	2/4/15	**Unit:**	mg/Kg-dry

Semi-Volatile Organics by GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC21**	**100763**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorophenol	91	30-130		02/05/2015 16:26
Phenol-d5	94	30-130		02/05/2015 16:26
Nitrobenzene-d5	76	30-130		02/05/2015 16:26
2-Fluorobiphenyl	83	30-130		02/05/2015 16:26
2,4,6-Tribromophenol	43	30-130		02/05/2015 16:26
4-Terphenyl-d14	79	30-130		02/05/2015 16:26

Analyst(s): HK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil/TOTAL**	**01/30/2015 15:10**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**1.5**	0.56	1	02/04/2015 18:34
Arsenic	**11**	0.56	1	02/04/2015 18:34
Barium	**400**	5.6	1	02/04/2015 18:34
Beryllium	ND	0.56	1	02/04/2015 18:34
Cadmium	ND	0.28	1	02/04/2015 18:34
Chromium	**35**	0.56	1	02/04/2015 18:34
Cobalt	**13**	0.56	1	02/04/2015 18:34
Copper	**82**	0.56	1	02/04/2015 18:34
Lead	**100**	0.56	1	02/04/2015 18:34
Mercury	**0.35**	0.056	1	02/04/2015 18:34
Molybdenum	ND	0.56	1	02/04/2015 18:34
Nickel	**48**	0.56	1	02/04/2015 18:34
Selenium	ND	0.56	1	02/04/2015 18:34
Silver	ND	0.56	1	02/04/2015 18:34
Thallium	ND	0.56	1	02/04/2015 18:34
Vanadium	**40**	0.56	1	02/04/2015 18:34
Zinc	**110**	5.6	1	02/04/2015 18:34

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	107	70-130		02/04/2015 18:34

Analyst(s): DVH

(Cont.)

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil/TOTAL**	**01/30/2015 15:00**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**0.60**	0.54	1	02/04/2015 18:40
Arsenic	**8.0**	0.54	1	02/04/2015 18:40
Barium	**150**	5.4	1	02/04/2015 18:40
Beryllium	ND	0.54	1	02/04/2015 18:40
Cadmium	ND	0.27	1	02/04/2015 18:40
Chromium	**76**	0.54	1	02/04/2015 18:40
Cobalt	**17**	0.54	1	02/04/2015 18:40
Copper	**26**	0.54	1	02/04/2015 18:40
Lead	**46**	0.54	1	02/04/2015 18:40
Mercury	**0.60**	0.054	1	02/04/2015 18:40
Molybdenum	ND	0.54	1	02/04/2015 18:40
Nickel	**110**	0.54	1	02/04/2015 18:40
Selenium	ND	0.54	1	02/04/2015 18:40
Silver	ND	0.54	1	02/04/2015 18:40
Thallium	ND	0.54	1	02/04/2015 18:40
Vanadium	**55**	0.54	1	02/04/2015 18:40
Zinc	**73**	5.4	1	02/04/2015 18:40

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	112	70-130		02/04/2015 18:40

Analyst(s): DVH

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil/TOTAL**	**01/30/2015 14:30**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**0.93**	0.60	1	02/04/2015 18:46
Arsenic	**8.5**	0.60	1	02/04/2015 18:46
Barium	**340**	6.0	1	02/04/2015 18:46
Beryllium	ND	0.60	1	02/04/2015 18:46
Cadmium	**0.50**	0.30	1	02/04/2015 18:46
Chromium	**71**	0.60	1	02/04/2015 18:46
Cobalt	**11**	0.60	1	02/04/2015 18:46
Copper	**170**	0.60	1	02/04/2015 18:46
Lead	**640**	6.0	10	02/04/2015 21:24
Mercury	**1.3**	0.060	1	02/04/2015 18:46
Molybdenum	ND	0.60	1	02/04/2015 18:46
Nickel	**79**	0.60	1	02/04/2015 18:46
Selenium	ND	0.60	1	02/04/2015 18:46
Silver	ND	0.60	1	02/04/2015 18:46
Thallium	ND	0.60	1	02/04/2015 18:46
Vanadium	**48**	0.60	1	02/04/2015 18:46
Zinc	**310**	6.0	1	02/04/2015 18:46

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	121	70-130		02/04/2015 18:46

Analyst(s): DB, DVH

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil/TOTAL**	**01/30/2015 13:24**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.60	1	02/04/2015 18:52
Arsenic	**3.1**	0.60	1	02/04/2015 18:52
Barium	**150**	6.0	1	02/04/2015 18:52
Beryllium	ND	0.60	1	02/04/2015 18:52
Cadmium	ND	0.30	1	02/04/2015 18:52
Chromium	**40**	0.60	1	02/04/2015 18:52
Cobalt	**5.1**	0.60	1	02/04/2015 18:52
Copper	**15**	0.60	1	02/04/2015 18:52
Lead	**9.9**	0.60	1	02/04/2015 21:18
Mercury	**0.070**	0.060	1	02/04/2015 18:52
Molybdenum	ND	0.60	1	02/04/2015 18:52
Nickel	**25**	0.60	1	02/04/2015 18:52
Selenium	ND	0.60	1	02/04/2015 18:52
Silver	ND	0.60	1	02/04/2015 18:52
Thallium	ND	0.60	1	02/04/2015 18:52
Vanadium	**27**	0.60	1	02/04/2015 18:52
Zinc	**22**	6.0	1	02/04/2015 18:52

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	102	70-130		02/04/2015 18:52

Analyst(s): DB, DVH

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil/TOTAL**	**01/30/2015 12:40**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**1.4**	0.56	1	02/04/2015 18:59
Arsenic	**9.5**	0.56	1	02/04/2015 18:59
Barium	**360**	5.6	1	02/04/2015 18:59
Beryllium	ND	0.56	1	02/04/2015 18:59
Cadmium	**1.1**	0.28	1	02/04/2015 18:59
Chromium	**80**	0.56	1	02/04/2015 18:59
Cobalt	**16**	0.56	1	02/04/2015 18:59
Copper	**80**	0.56	1	02/04/2015 18:59
Lead	**1000**	5.6	10	02/04/2015 20:43
Mercury	**0.23**	0.056	1	02/04/2015 18:59
Molybdenum	**2.7**	0.56	1	02/04/2015 18:59
Nickel	**41**	0.56	1	02/04/2015 18:59
Selenium	ND	0.56	1	02/04/2015 18:59
Silver	ND	0.56	1	02/04/2015 18:59
Thallium	ND	0.56	1	02/04/2015 18:59
Vanadium	**63**	0.56	1	02/04/2015 18:59
Zinc	**290**	5.6	1	02/04/2015 18:59

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	98	70-130		02/04/2015 18:59

Analyst(s): DVH

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CDPH ELAP 1644 ♦ NELAP 4033ORELAP

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3050B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW6020
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil/TOTAL**	**01/30/2015 12:55**	**ICP-MS2**	**100600**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.58	1	02/02/2015 17:18
Arsenic	**5.9**	0.58	1	02/02/2015 17:18
Barium	**430**	5.8	1	02/02/2015 17:18
Beryllium	ND	0.58	1	02/02/2015 17:18
Cadmium	ND	0.29	1	02/02/2015 17:18
Chromium	**38**	0.58	1	02/02/2015 17:18
Cobalt	**25**	0.58	1	02/02/2015 17:18
Copper	**15**	0.58	1	02/02/2015 17:18
Lead	**13**	0.58	1	02/02/2015 17:18
Mercury	**0.081**	0.058	1	02/02/2015 17:18
Molybdenum	ND	0.58	1	02/02/2015 17:18
Nickel	**46**	0.58	1	02/02/2015 17:18
Selenium	ND	0.58	1	02/02/2015 17:18
Silver	ND	0.58	1	02/02/2015 17:18
Thallium	ND	0.58	1	02/02/2015 17:18
Vanadium	**53**	0.58	1	02/02/2015 17:18
Zinc	**32**	5.8	1	02/02/2015 17:18

Surrogates	REC (%)	Limits	Analytical Comments: i1	
Tb 350.917	99	70-130		02/02/2015 17:18

Analyst(s): DVH

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	1/30/15-2/3/15	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC19**	**100658**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.1	1	02/02/2015 20:48
MTBE	---	0.056	1	02/02/2015 20:48
Benzene	---	0.0056	1	02/02/2015 20:48
Toluene	---	0.0056	1	02/02/2015 20:48
Ethylbenzene	---	0.0056	1	02/02/2015 20:48
Xylenes	---	0.0056	1	02/02/2015 20:48

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	105	70-130		02/02/2015 20:48

Analyst(s): HD

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC3**	**100586**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.1	1	02/01/2015 00:32
MTBE	---	0.054	1	02/01/2015 00:32
Benzene	---	0.0054	1	02/01/2015 00:32
Toluene	---	0.0054	1	02/01/2015 00:32
Ethylbenzene	---	0.0054	1	02/01/2015 00:32
Xylenes	---	0.0054	1	02/01/2015 00:32

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	97	70-130		02/01/2015 00:32

Analyst(s): HD

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	1/30/15-2/3/15	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC19**	**100658**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.2	1	02/02/2015 21:19
MTBE	---	0.060	1	02/02/2015 21:19
Benzene	---	0.0060	1	02/02/2015 21:19
Toluene	---	0.0060	1	02/02/2015 21:19
Ethylbenzene	---	0.0060	1	02/02/2015 21:19
Xylenes	---	0.0060	1	02/02/2015 21:19

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	96	70-130		02/02/2015 21:19

Analyst(s): HD

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC19**	**100586**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.2	1	02/02/2015 11:35
MTBE	---	0.060	1	02/02/2015 11:35
Benzene	---	0.0060	1	02/02/2015 11:35
Toluene	---	0.0060	1	02/02/2015 11:35
Ethylbenzene	---	0.0060	1	02/02/2015 11:35
Xylenes	---	0.0060	1	02/02/2015 11:35

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	95	70-130		02/02/2015 11:35

Analyst(s): HD

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW5030B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	1/30/15-2/3/15	**Unit:**	mg/Kg-dry

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC19**	**100714**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.1	1	02/04/2015 19:03
MTBE	---	0.056	1	02/04/2015 19:03
Benzene	---	0.0056	1	02/04/2015 19:03
Toluene	---	0.0056	1	02/04/2015 19:03
Ethylbenzene	---	0.0056	1	02/04/2015 19:03
Xylenes	---	0.0056	1	02/04/2015 19:03

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	110	70-130		02/04/2015 19:03

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC19**	**100586**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.2	1	02/02/2015 13:07
MTBE	---	0.058	1	02/02/2015 13:07
Benzene	---	0.0058	1	02/02/2015 13:07
Toluene	---	0.0058	1	02/02/2015 13:07
Ethylbenzene	---	0.0058	1	02/02/2015 13:07
Xylenes	---	0.0058	1	02/02/2015 13:07

Surrogates	REC (%)	Limits	Analytical Comments: i1	
2-Fluorotoluene	101	70-130		02/02/2015 13:07

Analyst(s): HD

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	ASTMD2216-92
Date Received:	1/30/15 18:52	**Analytical Method:**	ASTMD2216-92
Date Prepared:	2/3/15	**Unit:**	wet wt%

Percent Moisture

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**10.5**	0.121	02/04/2015 14:25

Analyst(s): AL

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**7.43**	0.104	02/04/2015 14:35

Analyst(s): AL

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**17.3**	0.112	02/04/2015 14:40

Analyst(s): AL

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**16.4**	0.111	02/04/2015 14:45

Analyst(s): AL

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	ASTMD2216-92
Date Received:	1/30/15 18:52	**Analytical Method:**	ASTMD2216-92
Date Prepared:	2/3/15	**Unit:**	wet wt%

Percent Moisture

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**9.91**	0.116	02/04/2015 14:50

Analyst(s): AL

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**WetChem**	**100759**

Analytes	Result	RL	Date Analyzed
% Moisture	**14.5**	0.112	02/04/2015 14:55

Analyst(s): AL

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8015B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-4-2.0	**1501949-001A**	**Soil**	**01/30/2015 15:10**	**GC6B**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**26**	1.1	1	02/05/2015 20:58
TPH-Motor Oil (C18-C36)	**76**	5.6	1	02/05/2015 20:58

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,i1	
C9	94	70-130		02/05/2015 20:58

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-3-2.0	**1501949-002A**	**Soil**	**01/30/2015 15:00**	**GC11A**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.1	1	02/05/2015 12:47
TPH-Motor Oil (C18-C36)	ND	5.4	1	02/05/2015 12:47

Surrogates	REC (%)	Limits	Analytical Comments: i1	
C9	105	70-130		02/05/2015 12:47

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-1.25	**1501949-003A**	**Soil**	**01/30/2015 14:30**	**GC2A**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4.1**	1.2	1	02/04/2015 19:55
TPH-Motor Oil (C18-C36)	**34**	6.0	1	02/04/2015 19:55

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,i1	
C9	108	70-130		02/04/2015 19:55

Analyst(s): TK

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Analytical Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Project:	C1361 Former Allied Engineering + Production Cor	**Extraction Method:**	SW3550B
Date Received:	1/30/15 18:52	**Analytical Method:**	SW8015B
Date Prepared:	1/30/15	**Unit:**	mg/Kg-dry

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-2-2.0	**1501949-004A**	**Soil**	**01/30/2015 13:24**	**GC2A**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.6**	1.2	1	02/05/2015 09:01
TPH-Motor Oil (C18-C36)	**15**	6.0	1	02/05/2015 09:01

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,i1	
C9	110	70-130		02/05/2015 09:01

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-0.5	**1501949-005A**	**Soil**	**01/30/2015 12:40**	**GC6B**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**13**	1.1	1	02/06/2015 04:09
TPH-Motor Oil (C18-C36)	**62**	5.6	1	02/06/2015 04:09

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2,i1	
C9	98	70-130		02/06/2015 04:09

Analyst(s): TK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
TP-1-2.0	**1501949-006A**	**Soil**	**01/30/2015 12:55**	**GC2A**	**100560**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.2	1	02/05/2015 01:00
TPH-Motor Oil (C18-C36)	ND	5.8	1	02/05/2015 01:00

Surrogates	REC (%)	Limits	Analytical Comments: i1	
C9	108	70-130		02/05/2015 01:00

Analyst(s): TK

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/11/15	**BatchID:**	101088
Date Analyzed:	2/11/15	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-101088 1501949-001AMS/MSD

QC Summary Report for SW7199 (Hexachrome)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	0.240	0.20	0.20	-	120	50-150

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	0.336	0.376	0.20	ND	98	118	50-150	11.2	20

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/11/15	**BatchID:**	101088
Date Analyzed:	2/11/15	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-101088 1501949-001AMS/MSD

QC Summary Report for SW7199 (Hexachrome)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	0.240	0.20	0.20	-	120	50-150

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	0.336	0.376	0.20	ND	98	118	50-150	11.2	20

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/30/15	**BatchID:**	100615
Date Analyzed:	2/2/15	**Extraction Method:**	SW3550B
Instrument:	GC23	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100615 1501885-005AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.178	0.050	0.15	-	119	70-130
PCBs, total	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0478	0.0460		0.050	96	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	NR	NR		ND<1	NR	NR	-	NR	
Surrogate Recovery									
Decachlorobiphenyl	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/29/15	**BatchID:**	100567
Date Analyzed:	1/31/15	**Extraction Method:**	SW5035
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100567

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0886	0.010	0.10	-	89	53-116
Benzene	ND	0.101	0.010	0.10	-	101	63-137
Bromobenzene	ND	-	0.010	-	-	-	-
Bromochloromethane	ND	-	0.010	-	-	-	-
Bromodichloromethane	ND	-	0.010	-	-	-	-
Bromoform	ND	-	0.010	-	-	-	-
Bromomethane	ND	-	0.010	-	-	-	-
2-Butanone (MEK)	ND	-	0.040	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.363	0.10	0.40	-	91	41-135
n-Butyl benzene	ND	-	0.010	-	-	-	-
sec-Butyl benzene	ND	-	0.010	-	-	-	-
tert-Butyl benzene	ND	-	0.010	-	-	-	-
Carbon Disulfide	ND	-	0.010	-	-	-	-
Carbon Tetrachloride	ND	-	0.010	-	-	-	-
Chlorobenzene	ND	0.0950	0.010	0.10	-	95	77-121
Chloroethane	ND	-	0.010	-	-	-	-
Chloroform	ND	-	0.010	-	-	-	-
Chloromethane	ND	-	0.010	-	-	-	-
2-Chlorotoluene	ND	-	0.010	-	-	-	-
4-Chlorotoluene	ND	-	0.010	-	-	-	-
Dibromochloromethane	ND	-	0.010	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.010	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0996	0.0080	0.10	-	100	67-119
Dibromomethane	ND	-	0.010	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.010	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.010	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.010	-	-	-	-
Dichlorodifluoromethane	ND	-	0.010	-	-	-	-
1,1-Dichloroethane	ND	-	0.010	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0964	0.0080	0.10	-	96	58-135
1,1-Dichloroethene	ND	0.0924	0.010	0.10	-	92	42-145
cis-1,2-Dichloroethene	ND	-	0.010	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.010	-	-	-	-
1,2-Dichloropropane	ND	-	0.010	-	-	-	-
1,3-Dichloropropane	ND	-	0.010	-	-	-	-
2,2-Dichloropropane	ND	-	0.010	-	-	-	-
1,1-Dichloropropene	ND	-	0.010	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.010	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.010	-	-	-	-

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/29/15	**BatchID:**	100567
Date Analyzed:	1/31/15	**Extraction Method:**	SW5035
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100567

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0985	0.010	0.10	-	98	52-129
Ethanol	ND	-	1.0	-	-	-	-
Ethylbenzene	ND	-	0.010	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0938	0.010	0.10	-	94	53-125
Freon 113	ND	-	0.20	-	-	-	-
Hexachlorobutadiene	ND	-	0.010	-	-	-	-
Hexachloroethane	ND	-	0.010	-	-	-	-
2-Hexanone	ND	-	0.010	-	-	-	-
Isopropylbenzene	ND	-	0.010	-	-	-	-
4-Isopropyl toluene	ND	-	0.010	-	-	-	-
Methanol	ND	-	10	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0927	0.010	0.10	-	93	58-122
Methylene chloride	ND	-	0.010	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.010	-	-	-	-
Naphthalene	ND	-	0.010	-	-	-	-
n-Propyl benzene	ND	-	0.010	-	-	-	-
Styrene	ND	-	0.010	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.010	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.010	-	-	-	-
Tetrachloroethene	ND	-	0.010	-	-	-	-
Toluene	ND	0.0974	0.010	0.10	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.010	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.010	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.010	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.010	-	-	-	-
Trichloroethene	ND	0.0995	0.010	0.10	-	100	72-132
Trichlorofluoromethane	ND	-	0.010	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.010	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.010	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.010	-	-	-	-
Vinyl Chloride	ND	-	0.010	-	-	-	-
Xylenes, Total	ND	-	0.010	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.206	0.228		0.25	82	91	72-126
Toluene-d8	0.248	0.268		0.25	99	107	81-115
4-BFB	0.0237	0.0298		0.025	95	119	55-127

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/5/15	**BatchID:**	100792
Date Analyzed:	2/4/15	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100792 1501903-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	9.18	0.50	10	-	92	54-140
Benzene	ND	9.67	0.50	10	-	96	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	48.7	2.0	40	-	122	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.93	0.50	10	-	99	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	8.93	0.50	10	-	89	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.47	0.50	10	-	95	66-125
1,1-Dichloroethene	ND	9.80	0.50	10	-	98	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/5/15	**BatchID:**	100792
Date Analyzed:	2/4/15	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100792 1501903-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	10.4	0.50	10	-	104	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	11.2	0.50	10	-	111	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	11.0	0.50	10	-	109	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	9.70	0.50	10	-	97	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	11.1	0.50	10	-	111	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	22.6	23.1		25	90	92	65-135
Toluene-d8	23.1	22.1		25	92	88	64-112
4-BFB	2.40	2.43		2.5	96	97	59-139

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/5/15	**BatchID:**	100792
Date Analyzed:	2/4/15	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100792 1501903-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	9.16	9.68	10	ND	92	97	69-139	5.51	20
Benzene	8.62	9.34	10	ND	85	93	69-141	8.05	20
t-Butyl alcohol (TBA)	46.3	49.5	40	ND	116	124	41-152	6.62	20
Chlorobenzene	9.32	10.1	10	ND	93	101	77-120	8.11	20
1,2-Dibromoethane (EDB)	8.97	9.39	10	ND	86	90	76-135	4.58	20
1,2-Dichloroethane (1,2-DCA)	8.89	9.44	10	ND	89	94	73-139	5.91	20
1,1-Dichloroethene	8.74	9.37	10	ND	87	94	59-140	6.96	20
Diisopropyl ether (DIPE)	9.73	10.4	10	ND	97	104	72-140	6.43	20
Ethyl tert-butyl ether (ETBE)	10.8	11.3	10	ND	108	113	71-140	4.89	20
Methyl-t-butyl ether (MTBE)	10.9	11.3	10	ND	109	113	73-139	4.00	20
Toluene	8.63	9.37	10	ND	86	94	71-128	8.26	20
Trichloroethene	9.80	10.5	10	ND	98	105	64-132	6.46	20
Surrogate Recovery									
Dibromofluoromethane	23.7	23.4	25		95	94	80-124	1.19	20
Toluene-d8	21.9	21.9	25		88	88	75-110	0	20
4-BFB	2.40	2.41	2.5		96	96	69-114	0	20

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/5/15	**BatchID:**	100826
Date Analyzed:	2/5/15	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100826

QC Summary Report for SW8270C w/ GPC Clean Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	3.48	0.25	5	-	70	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.25	-	-	-	-
4-Chloro-3-methylphenol	ND	3.39	0.25	5	-	68	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	3.49	0.25	5	-	70	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	3.05	0.25	5	-	61	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	4.40	0.25	5	-	88	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/5/15	**BatchID:**	100826
Date Analyzed:	2/5/15	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100826

QC Summary Report for SW8270C w/ GPC Clean Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Di-n-octyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
3 &/or 4-Methylphenol (m,p-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	1.3	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	3.05	1.3	5	-	61	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	2.72	0.25	5	-	54	30-130
Pentachlorophenol	ND	3.12	1.3	5	-	62	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	3.48	0.25	5	-	70	30-130
Pyrene	ND	3.21	0.25	5	-	64	30-130
1,2,4-Trichlorobenzene	ND	3.15	0.25	5	-	63	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-
Surrogate Recovery							
2-Fluorophenol	3.39	3.07		5	68	61	30-130
Phenol-d5	3.56	3.44		5	71	69	30-130
Nitrobenzene-d5	3.06	3.03		5	61	61	30-130
2-Fluorobiphenyl	3.26	3.28		5	65	66	30-130
2,4,6-Tribromophenol	1.74	2.05		5	35	41	30-130
4-Terphenyl-d14	3.01	3.30		5	60	66	30-130

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/4/15	**BatchID:**	100763
Date Analyzed:	2/4/15	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100763 1502047-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	4.82	0.25	5	-	96	30-130
Acenaphthylene	ND	-	0.25	-	-	-	-
Acetochlor	ND	-	0.25	-	-	-	-
Anthracene	ND	-	0.25	-	-	-	-
Benzidine	ND	-	1.3	-	-	-	-
Benzo (a) anthracene	ND	-	0.25	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.25	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.25	-	-	-	-
Benzo (a) pyrene	ND	-	0.25	-	-	-	-
Benzyl Alcohol	ND	-	1.3	-	-	-	-
1,1-Biphenyl	ND	-	0.25	-	-	-	-
Bis (2-chloroethoxy) Methane	ND	-	0.25	-	-	-	-
Bis (2-chloroethyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-chloroisopropyl) Ether	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Adipate	ND	-	0.25	-	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	-	0.25	-	-	-	-
4-Bromophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Butylbenzyl Phthalate	ND	-	0.25	-	-	-	-
4-Chloroaniline	ND	-	0.50	-	-	-	-
4-Chloro-3-methylphenol	ND	4.70	0.25	5	-	94	30-130
2-Chloronaphthalene	ND	-	0.25	-	-	-	-
2-Chlorophenol	ND	5.01	0.25	5	-	100	30-130
4-Chlorophenyl Phenyl Ether	ND	-	0.25	-	-	-	-
Chrysene	ND	-	0.25	-	-	-	-
Dibenzo (a,h) anthracene	ND	-	0.25	-	-	-	-
Dibenzofuran	ND	-	0.25	-	-	-	-
Di-n-butyl Phthalate	ND	-	0.25	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.25	-	-	-	-
1,4-Dichlorobenzene	ND	4.24	0.25	5	-	85	30-130
3,3-Dichlorobenzidine	ND	-	0.50	-	-	-	-
2,4-Dichlorophenol	ND	-	0.25	-	-	-	-
Diethyl Phthalate	ND	-	0.25	-	-	-	-
2,4-Dimethylphenol	ND	-	0.25	-	-	-	-
Dimethyl Phthalate	ND	-	0.25	-	-	-	-
4,6-Dinitro-2-methylphenol	ND	-	1.3	-	-	-	-
2,4-Dinitrophenol	ND	-	6.3	-	-	-	-
2,4-Dinitrotoluene	ND	5.68	0.25	5	-	114	30-130
2,6-Dinitrotoluene	ND	-	0.25	-	-	-	-

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/4/15	**BatchID:**	100763
Date Analyzed:	2/4/15	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100763 1502047-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Di-n-octyl Phthalate	ND	-	0.50	-	-	-	-
1,2-Diphenylhydrazine	ND	-	0.25	-	-	-	-
Fluoranthene	ND	-	0.25	-	-	-	-
Fluorene	ND	-	0.25	-	-	-	-
Hexachlorobenzene	ND	-	0.25	-	-	-	-
Hexachlorobutadiene	ND	-	0.25	-	-	-	-
Hexachlorocyclopentadiene	ND	-	1.3	-	-	-	-
Hexachloroethane	ND	-	0.25	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.25	-	-	-	-
Isophorone	ND	-	0.25	-	-	-	-
2-Methylnaphthalene	ND	-	0.25	-	-	-	-
2-Methylphenol (o-Cresol)	ND	-	0.25	-	-	-	-
Naphthalene	ND	-	0.25	-	-	-	-
2-Nitroaniline	ND	-	1.3	-	-	-	-
3-Nitroaniline	ND	-	1.3	-	-	-	-
4-Nitroaniline	ND	-	1.3	-	-	-	-
Nitrobenzene	ND	-	0.25	-	-	-	-
2-Nitrophenol	ND	-	1.3	-	-	-	-
4-Nitrophenol	ND	3.91	1.3	5	-	78	30-130
N-Nitrosodiphenylamine	ND	-	0.25	-	-	-	-
N-Nitrosodi-n-propylamine	ND	3.82	0.25	5	-	76	30-130
Pentachlorophenol	ND	4.52	1.3	5	-	90	30-130
Phenanthrene	ND	-	0.25	-	-	-	-
Phenol	ND	4.71	0.25	5	-	94	30-130
Pyrene	ND	4.58	0.25	5	-	92	30-130
1,2,4-Trichlorobenzene	ND	5.12	0.25	5	-	102	30-130
2,4,5-Trichlorophenol	ND	-	0.25	-	-	-	-
2,4,6-Trichlorophenol	ND	-	0.25	-	-	-	-
Surrogate Recovery							
2-Fluorophenol	5.22	4.85		5	104	97	30-130
Phenol-d5	5.14	4.36		5	103	87	30-130
Nitrobenzene-d5	4.42	4.51		5	88	90	30-130
2-Fluorobiphenyl	4.49	4.64		5	90	93	30-130
2,4,6-Tribromophenol	2.31	2.71		5	46	54	16-130
4-Terphenyl-d14	4.33	4.44		5	87	89	30-130

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/4/15	**BatchID:**	100763
Date Analyzed:	2/4/15	**Extraction Method:**	SW3550B
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100763 1502047-001AMS/MSD

QC Summary Report for SW8270C

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acenaphthene	4.22	4.52	5	ND	84	90	30-130	6.96	30
4-Chloro-3-methylphenol	4.38	4.51	5	ND	88	90	30-130	2.76	30
2-Chlorophenol	4.49	4.76	5	ND	90	95	30-130	5.79	30
1,4-Dichlorobenzene	3.47	3.75	5	ND	69	75	30-130	7.68	30
2,4-Dinitrotoluene	4.66	4.81	5	ND	93	96	30-130	3.17	30
4-Nitrophenol	3.60	3.78	5	ND	72	76	30-130	4.90	30
N-Nitrosodi-n-propylamine	3.13	3.44	5	ND	63	69	30-130	9.47	30
Pentachlorophenol	4.33	4.55	5	ND	87	91	30-130	4.91	30
Phenol	4.28	4.50	5	ND	86	90	30-130	5.03	30
Pyrene	3.71	3.94	5	ND	74	79	30-130	6.06	30
1,2,4-Trichlorobenzene	3.79	4.24	5	ND	76	85	30-130	11.3	30
Surrogate Recovery									
2-Fluorophenol	4.13	4.24	5		83	85	30-130	2.70	30
Phenol-d5	4.22	4.43	5		84	89	30-130	4.75	30
Nitrobenzene-d5	3.46	3.81	5		69	76	30-130	9.85	30
2-Fluorobiphenyl	3.91	4.11	5		78	82	30-130	4.99	30
2,4,6-Tribromophenol	2.54	2.57	5		51	51	16-130	0	30
4-Terphenyl-d14	3.58	3.99	5		72	80	30-130	10.8	30

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/30/15	**BatchID:**	100600
Date Analyzed:	2/2/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100600 1501949-006AMS/MSD

QC Summary Report for CAM / CCR 17 Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	60.2	0.50	50	-	120	75-125
Arsenic	ND	55.5	0.50	50	-	111	75-125
Barium	ND	570	5.0	500	-	114	75-125
Beryllium	ND	56.3	0.50	50	-	113	75-125
Cadmium	ND	55.7	0.25	50	-	111	75-125
Chromium	ND	55.1	0.50	50	-	110	75-125
Cobalt	ND	58.0	0.50	50	-	116	75-125
Copper	ND	56.2	0.50	50	-	112	75-125
Lead	ND	56.3	0.50	50	-	113	75-125
Mercury	ND	1.15	0.050	1.25	-	92	75-125
Molybdenum	ND	54.2	0.50	50	-	108	75-125
Nickel	ND	56.1	0.50	50	-	112	75-125
Selenium	ND	55.5	0.50	50	-	111	75-125
Silver	ND	58.6	0.50	50	-	117	75-125
Thallium	ND	54.2	0.50	50	-	108	75-125
Vanadium	ND	53.9	0.50	50	-	108	75-125
Zinc	ND	574	5.0	500	-	115	75-125
Surrogate Recovery							
Tb 350.917	516	578		500	103	116	70-130

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/30/15	**BatchID:**	100600
Date Analyzed:	2/2/15	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100600 1501949-006AMS/MSD

QC Summary Report for CAM / CCR 17 Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	56.1	60.3	50	ND	112	120	75-125	7.23	20
Arsenic	55.0	62.4	50	5.084	100	115	75-125	12.6	20
Barium	694	748	500	368.7	65,F1	76	75-125	7.53	20
Beryllium	52.6	57.6	50	ND	104	114	75-125	9.02	20
Cadmium	53.6	57.3	50	ND	107	114	75-125	6.51	20
Chromium	85.1	95.3	50	32.76	105	125	75-125	11.3	20
Cobalt	58.8	64.4	50	21.34	75	86	75-125	9.05	20
Copper	64.1	71.8	50	12.90	102	118	75-125	11.4	20
Lead	63.7	66.3	50	11.03	105	110	75-125	3.95	20
Mercury	1.21	1.36	1.25	0.06950	91	103	75-125	11.2	20
Molybdenum	52.4	57.0	50	ND	104	113	75-125	8.35	20
Nickel	80.9	88.2	50	39.32	83	98	75-125	8.60	20
Selenium	51.4	59.2	50	ND	103	118	75-125	14.2	20
Silver	55.5	59.5	50	ND	111	119	75-125	6.94	20
Thallium	51.6	55.0	50	ND	103	110	75-125	6.35	20
Vanadium	74.9	83.5	50	45.44	59,F1	76	75-125	10.9	20
Zinc	555	620	500	27.63	105	119	75-125	11.1	20
Surrogate Recovery									
Tb 350.917	564	597	500		113	119	70-130	5.69	20

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/30/15	**BatchID:**	100586
Date Analyzed:	1/30/15	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100586 1501929-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.675	0.40	0.60	-	113	70-130
MTBE	ND	0.0940	0.050	0.10	-	94	70-130
Benzene	ND	0.0981	0.0050	0.10	-	98	70-130
Toluene	ND	0.0980	0.0050	0.10	-	98	70-130
Ethylbenzene	ND	0.0970	0.0050	0.10	-	97	70-130
Xylenes	ND	0.296	0.0050	0.30	-	99	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0995	0.0934		0.10	99	93	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		41	NR	NR	-	NR	
MTBE	NR	NR		ND<5	NR	NR	-	NR	
Benzene	NR	NR		ND<0.5	NR	NR	-	NR	
Toluene	NR	NR		ND<0.5	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.5	NR	NR	-	NR	
Xylenes	NR	NR		ND<0.5	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/2/15	**BatchID:**	100658
Date Analyzed:	2/2/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100658 1502038-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.638	0.40	0.60	-	106	70-130
MTBE	ND	0.0983	0.050	0.10	-	98	70-130
Benzene	ND	0.105	0.0050	0.10	-	105	70-130
Toluene	ND	0.105	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.345	0.0050	0.30	-	115	70-130
Surrogate Recovery							
2-Fluorotoluene	0.115	0.107		0.10	115	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		5.5	NR	NR	-	NR	
MTBE	NR	NR		ND	NR	NR	-	NR	
Benzene	NR	NR		ND	NR	NR	-	NR	
Toluene	NR	NR		0.11	NR	NR	-	NR	
Ethylbenzene	NR	NR		0.025	NR	NR	-	NR	
Xylenes	NR	NR		0.063	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

(Cont.)

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/3/15	**BatchID:**	100714
Date Analyzed:	2/4/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100714 1502101-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.593	0.40	0.60	-	99	70-130
MTBE	ND	0.0982	0.050	0.10	-	98	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.104	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.345	0.0050	0.30	-	115	70-130
Surrogate Recovery							
2-Fluorotoluene	0.107	0.108		0.10	107	108	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		16	NR	NR	-	NR	
MTBE	NR	NR		ND	NR	NR	-	NR	
Benzene	NR	NR		ND	NR	NR	-	NR	
Toluene	NR	NR		0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND	NR	NR	-	NR	
Xylenes	NR	NR		ND	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	2/4/15	**BatchID:**	100759
Date Analyzed:	2/4/15	**Extraction Method:**	ASTMD2216-92
Instrument:	WetChem	**Analytical Method:**	ASTMD2216-92
Matrix:	Soil	**Unit:**	wet wt%
Project:	C1361 Former Allied Engineering + Production Corporation Facility		

QC Summary Report for ASTM D2216-92 (% Moisture)

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1501949-001A	10.5	1.212	10.7	1.16	1.64	<15

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Quality Control Report

Client:	Integral Consulting, Inc.	**WorkOrder:**	1501949
Date Prepared:	1/29/15	**BatchID:**	100560
Date Analyzed:	1/29/15 - 1/30/15	**Extraction Method:**	SW3550B
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	C1361 Former Allied Engineering + Production Corporation Facility	**Sample ID:**	MB/LCS-100560 1501893-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	50.0	1.0	40	-	125	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.3	26.0		25	105	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	72.6	72.0	40	23.41	123	121	70-130	0.850	30
Surrogate Recovery									
C9	24.9	25.0	25		100	100	70-130	0	30

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1501949 **ClientCode: ICI**

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Report to:
Bridgette Desheilds
Integral Consulting, Inc.
115 Sansome Street; Suite 200
San Francisco, CA 94104
415-393-4750 FAX:

Email: bdeshields@integral-corp.com
cc/3rd Party: Christopher Lyles@integral-corp.com;
PO:
ProjectNo: C1361 Former Allied Engineering + Production Corporation Facility

Bill to:
Accounts Payable
Integral Consulting, Inc.
115 Sansome Street; Suite 200
San Francisco, CA 94104

Requested TAT: 5 days

Date Received: 01/30/2015
Date Printed: 01/30/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1501949-001	TP-4-2.0	Soil	1/30/2015 15:10	☐	A	A	B		A	A	A	A	A			
1501949-002	TP-3-2.0	Soil	1/30/2015 15:00	☐	A	A	B		A	A	A	A	A			
1501949-003	TP-2-1.25	Soil	1/30/2015 14:30	☐	A	A	B		A	A	A	A	A			
1501949-004	TP-2-2.0	Soil	1/30/2015 13:24	☐	A	A	B		A	A	A	A	A			
1501949-005	TP-1-0.5	Soil	1/30/2015 12:40	☐	A	A	B		A	A	A	A	A			
1501949-006	TP-1-2.0	Soil	1/30/2015 12:55	☐	A	A	B		A	A	A	A	A			
1501949-007	TB-1	Water	1/30/2015	☐				A								

Test Legend:

1	7199-TTLC_S	2	8082_PCB_ESL_S	3	8260B_E	4	8260B_W	5	8270_ESL_S
6	CAM17MS_S	7	G-MBTEX_S	8	Moisture_S	9	TPH(DMO)_S	10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A contain testgroup.

Prepared by: Shana Carter

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: INTEGRAL CONSULTING, INC. **QC Level:** LEVEL 2 **Work Order:** 1501949
Project: C1361 Former Allied Engineering + Production Corporation **Client Contact:** Bridgette Desheilds **Date Received:** 1/30/2015
Comments: **Contact's Email:** bdeshields@integral-corp.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501949-001A	TP-4-2.0	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 15:10	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-001B	TP-4-2.0	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 15:10	5 days		☐	
1501949-002A	TP-3-2.0	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 15:00	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-002B	TP-3-2.0	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 15:00	5 days		☐	
1501949-003A	TP-2-1.25	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 14:30	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: INTEGRAL CONSULTING, INC. **QC Level:** LEVEL 2 **Work Order:** 1501949
Project: C1361 Former Allied Engineering + Production Corporation **Client Contact:** Bridgette Desheilds **Date Received:** 1/30/2015
Comments: **Contact's Email:** bdeshields@integral-corp.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501949-003A	TP-2-1.25	Soil	SW6020 (CAM 17)	1	16OZ GJ	☐	1/30/2015 14:30	5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-003B	TP-2-1.25	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 14:30	5 days		☐	
1501949-004A	TP-2-2.0	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 13:24	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-004B	TP-2-2.0	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 13:24	5 days		☐	
1501949-005A	TP-1-0.5	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 12:40	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: INTEGRAL CONSULTING, INC.
QC Level: LEVEL 2
Work Order: 1501949
Project: C1361 Former Allied Engineering + Production Corporation
Client Contact: Bridgette Desheilds
Date Received: 1/30/2015
Comments:
Contact's Email: bdeshields@integral-corp.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1501949-005A	TP-1-0.5	Soil	SW8082 (PCBs Only)	1	16OZ GJ	☐	1/30/2015 12:40	5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-005B	TP-1-0.5	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 12:40	5 days		☐	
1501949-006A	TP-1-2.0	Soil	Multi-Range TPH(g,d,mo)	1	16OZ GJ	☐	1/30/2015 12:55	5 days		☐	
			ASTM D2216-92 (Percent Moisture)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (SVOCs)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
			SW7199 (Hexachrome)			☐		5 days		☐	
1501949-006B	TP-1-2.0	Soil	SW8260B (VOCs) (Encore)	1	Encore Sampler	☐	1/30/2015 12:55	5 days		☐	
1501949-007A	TB-1	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	1/30/2015	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY FORM

1501949

Project: C1361 Former Allied Engineering + Production Corporation Facility

Samplers: Christopher Lyles of Integral Consulting Inc – San Francisco : 115 Sansome St, Ste 200 SF, CA 94104

Integral Contact: Bridgette DeShields
Office (O) 707-775-2488
Phone (C) 707-953-8192

Ship to: Lab Name McCampbell Analytical, Inc.
Address 1534 Willow Pass Rd.
Pittsburg, CA 94565
Contact Angela Rydelius
Phone 925-252-9262 x14

integral consulting inc.

Sample No.	Date	Time	Matrix	TPHg/d/mo by 8015	VOCs by 8260	SVOCs by 8270	Title 22 metals by 6020/7471	Cr VI by 7199	PCBs by 8082			Extra Container	Archive	Comments
TP-4-2.0	1/30/15	1510	SL	X	X	X	X	X	X					
TP-3-2.0	1/30/15	1500	SL	↓	↓	↓	↓	↓	↓					
TP-2-1.25	1/30/15	1430	SL											
TP-2-2.0	1/30/15	1324	SL											
TP-1-0.5	1/30/15	1240	SL											
TP-1-2.0	1/30/15	1255	SL											
TB-1	1/30/15	—	AQ		X									

ICE/T: 1
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS PRESERVED IN LAB

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD -Sediment; Other:

Shipped by: **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Relinquished by: (signature) **Date/Time:** 1/30/15; 1527 **Received by:** (signature) **Date/Time:** 1-30-15 1527

Relinquished by: (signature) **Date/Time:** 1-30-15 1700 **Received by:** Shana Carter (signature) **Date/Time:** 1/30/15 1700

Special Instructions: Report results on dry weight basis and provide % moisture. EDF and Excel file requested as soon as possible after lab report is issued. May request archive or additional analysis by TCLP + STLC at a later time.
Report results to: Bridgette DeShields at bdeshields@integral-corp.com and Chris Lyles at clyles@integral-corp.com

Annapolis	Denver	Portland, Oregon	Honolulu	Seattle	Portland, Maine	Olympia
200 Harry S. Truman Pkwy	285 Century Place	319 SW Washington St	3465 Waialae Ave	411 1st Ave S	45 Exchange St	1205 West Bay Dr NW
Suite 330	Suite 190	Suite 1150	Suite 380	Suite 550	Suite 200	Olympia, WA 98502
Annapolis, MD 21401	Louisville, CO 80027	Portland, OR 97204	Honolulu, HI 96816	Seattle, WA 98104	Portland, ME 04101	

Note: We also wish to meet ESLs and/or RSLs and may require cleanups.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Integral Consulting, Inc.**	Date and Time Received:	**1/30/2015 6:52:04 PM**
Project Name:	**C1361 Former Allied Engineering + Production Corporation**	LogIn Reviewed by:	Shana Carter
WorkOrder №:	**1501949** Matrix: Soil/Water	Carrier:	Bernie Cummins (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

APPENDIX J

DATA VALIDATION REPORTS

SUMMARY OF STAGE 2A DATA VALIDATION FOR JANUARY 2015 ARCHIVED SOILS DATA

INTRODUCTION

This report summarizes the findings of Stage 2A data validation of the soil samples collected at the former Allied Engineering property in Alameda, California. Samples were from the following sample delivery groups (SDGs): 1501277A, 1501290A, and 1501949. The samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, for the following:

- Extractable total petroleum hydrocarbons for diesel-range organics (DRO) and motor oil-range organics (MRO) by U.S. Environmental Protection Agency (EPA) Method 8015B
- Hexavalent chromium by EPA Method 7199
- Metals by EPA Method 6020
- Moisture by ASTM Method D2216-92
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Purgeable total petroleum hydrocarbons for gasoline-range organics (GRO) by EPA Method 8021B
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- Toxicity characteristic leaching procedure (TCLP) metals by EPA Methods 1311 and 6010B/6020
- Volatile organic compounds (VOCs) by EPA Method 8260B
- Waste extraction test (WET) metals by California EPA Soluble Threshold Limit Concentration procedure and EPA Method 6010B/6020.

DATA VALIDATION

The Stage 2A validation consisted of a completeness check, a compliance check of sample receipt conditions, and an evaluation of sample-related quality control results. The data validation was based on criteria described in EPA's *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2014a) and *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*

(USEPA 2014b), the referenced analytical methods, and laboratory-established quality control acceptance limits.

The quality assurance and quality control parameters reviewed are listed below. Validation qualifiers were added to the electronic data deliverables (EDDs).

Findings

Findings of the Stage 2A data validation are as follows:

- **Data Package Completeness**—Data packages contained all information necessary for a Stage 2A review.
- **Chain of Custody (COC) and Sample Receipt**—Samples were collected in laboratory-supplied containers and were stored and transported to analytical laboratories in chilled coolers.
  - **SDG 1501277A**: The sample receipt temperature was recorded at 9.7°C, above the 6°C limit. The samples were received the same day as collection. No qualifiers were assigned.
  - **SDG 1501949**: The sample receipt temperature was recorded as 1°C, below the 2°C limit. The laboratory indicated the samples were received in good condition and intact. No qualifiers were assigned.
- **Holding Times**—Samples were analyzed within the holding time for each analytical method, with the following exceptions:
  - **SDGs 1501277A and 1501290A:** All samples for PCB analysis were extracted 1 to 3 days beyond the 14-day holding time. The PCB results in all samples were estimated (J/UJ-HT).
- **Blanks**—Several analytes were detected in the method or trip blanks. The following qualifiers were assigned based on the evaluation of the method or trip blanks:
  - **SDG 1501277A:** The WET Nickel result in Sample SS-2-S was qualified as estimated (J-LB).
  - **SDG 1501290A:** The WET Nickel result in Sample SD-0007 was qualified as estimated (J-LB).
- **Surrogates**—Surrogate compounds were added to all samples for organics analysis, and all surrogate recoveries were within laboratory acceptance limits, with the following exception:

  - **SDG 1501277A**: The percent recovery for the surrogate decachlorobiphenyl in the PCB analysis of Sample SS-1-S was greater than the laboratory acceptance limits. The sample was analyzed at a 5-fold dilution and no qualifiers were assigned.

- **Laboratory Control Sample and Laboratory Control Sample Duplicates (LCS/LCSD)**—LCS/LCSDs were analyzed at the required frequency of one per batch. All LCS recoveries and relative percent difference (RPD) values were within laboratory acceptance limits.
- **Matrix Spike and Matrix Spike Duplicates (MS/MSD)**—MS/MSDs were analyzed at the required frequency of one MS/MSD pair per batch. All MS/MSD recoveries and RPD values were within laboratory acceptance limits, with the following exceptions:
  - **SDG 1501949**: The percent recovery for barium and vanadium in the matrix spike was less than the laboratory acceptance limits. The barium and vanadium results in all samples were estimated (J-MS).
- **Laboratory Duplicates**—Laboratory duplicates were not analyzed except for moisture analysis. The laboratory duplicate RPDs were within laboratory acceptance limits.
- **Sample Results**

  All soil sample results were reported on a dry-weight basis, with the exception of the samples in SDG 1501277A.

  A number of samples in SDGs 1501277A and 1501290A were analyzed at dilutions because of high target analyte concentrations or matrix interference. The reporting limits were raised accordingly.

  For SVOC analysis in SDG 1501949, the laboratory reported two additional analytes (3-methylphenol/4-methylphenol coelution and bis(2-ethylhexyl)adipate) for non-GPC cleaned samples TP-3-2.0, TP-2-2.0, and TP-1-2.0. These analytes were not reported for GPC cleaned samples TP-4-2.0, TP-2-1.25, and TP-1-0.5.

  For SDG 1501949, the laboratory reported naphthalene results for both SVOC and VOC analyses.

  The laboratory did not report method detection limits (MDLs) in the data packages but MDLs were reported for a number of analyses in the associated EDDs. Integral confirmed with the laboratory that non-detected results were reported to the reporting limits and not to the MDLs. Integral Consulting Inc. edited the "meas_value" field in the EDDs to reflect the reporting limit and not the MDL for non-detected results.

Overall Assessment

The data meet the criteria outlined above, with the noted exceptions. Data were estimated (J or UJ qualified) by Integral Consulting Inc. for exceeded holding times, method blank contamination, and matrix spike recoveries. No data were rejected and completeness was 100 percent. All results are usable for their intended purpose.

REFERENCES

USEPA. 2014a. Contract Laboratory Program national functional guidelines for inorganic Superfund data review. USEPA- 540-R-013-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

USEPA. 2014b. Contract Laboratory Program national functional guidelines for Superfund organic methods data review. USEPA-540-R-014-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

SUMMARY OF STAGE 2A DATA VALIDATION FOR MARCH 2015 EXCAVATION DATA

INTRODUCTION

This report summarizes the findings of Stage 2A data validation of the soil samples collected at the former Allied Engineering property in Alameda, California. Samples were from the following sample delivery groups (SDGs): 265009, 265056, 265057, 265085, 265086, 265129, 265141, 265156, 265200, 265201, and 265214. The samples were analyzed by Curtis & Tompkins, Ltd. of Berkeley, California, for the following:

- Extractable total petroleum hydrocarbons for diesel-range organics (DRO) and motor oil-range organics (MRO) by U.S. Environmental Protection Agency (EPA) Method 8015B
- Hexavalent chromium by EPA Method 7196A
- Metals by EPA Methods 6010B and 7471A
- Moisture by ASTM Method D2216
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Purgeable total petroleum hydrocarbons for gasoline-range organics (GRO) by EPA Method 8015B
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- Toxicity characteristic leaching procedure (TCLP) metals by EPA Methods 1311 and 6010B
- Volatile organic compounds (VOCs) by EPA Method 8260B
- Waste extraction test (WET) metals by California EPA Soluble Threshold Limit Concentration procedure and EPA Method 6010B.

DATA VALIDATION

The Stage 2A validation consisted of a completeness check, a compliance check of sample receipt conditions, and an evaluation of sample-related quality control results. The data validation was based upon criteria described in EPA's *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2014a) and *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*

(USEPA 2014b), the referenced analytical methods, and laboratory-established quality control acceptance limits.

The quality assurance and quality control parameters reviewed are listed below. Validation qualifiers were added to the electronic data deliverables.

Findings

Findings of the Stage 2A data validation are as follows:

- **Data Package Completeness**—Data packages contained all information necessary for a Stage 2A review.
- **Chain of Custody (COC) and Sample Receipt**—Samples were collected in laboratory-supplied containers and were stored and transported to analytical laboratories in chilled coolers.
  - **SDG 265009**: The laboratory did not sign and date the COC form. Additionally, the COC form indicated there were five sample bottles but six sample bottles were received by the laboratory.
  - **SDG 265009, 265129, 265200, 265201, 265214**: The laboratory did not record the receipt temperatures. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
  - **SDG 265085**: Sample EB-030515 was not properly preserved in the field for metals analysis. The laboratory preserved this sample upon receipt. No qualifiers were assigned.
  - **SDG 265156**: There was a sample identification discrepancy between the COC form (TRENCH2-4SW-1.4) and the bottle labels (TRENCH2-4SW-1.2). The laboratory was instructed to use the sample identification on the bottle labels.

    The sample receipt temperature was recorded as 6.6°C, slightly above the 6°C limit. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
- **Holding Times**—Samples were analyzed within the holding time for each analytical method.
- **Blanks**—A number of analytes were detected in the method, equipment, or trip blanks. The following qualifiers were assigned based on the evaluation of the method, field, or trip blanks:
  - **SDG 265009:** The GRO results in Sample TBL1-1SW-1.2 were qualified as not detected (U-LB).

- **SDG 265056:** The DRO results in Sample TBL1-7SW-2.0 were qualified as not detected (U-LB).
- **SDG 265085:** The GRO results in Samples TRENCH1-1SW-1.2, TRENCH1-3SW-1.2, TRENCH1-4SW-1.2, TRENCH1-5SW-1.2, TRENCH1-6SW-1.2, TRENCH1-1B-2.4, and TRENCH1-2B-2.4 were qualified as not detected (U-LB) and the DRO result in Sample EB-030515 were qualified as not detected (U-LB).
- **SDG 265086:** The GRO results in Samples TBL1-8SW-1.6, TBL1-9SW-0.8, TBL1-10SW-2.3, TBL1-2B-2.0, TBL1-3B-4.5, TBL1-4B-1.5, and TBL1-11SW-0.8 were qualified as not detected (U-LB).
- **SDG 265129**: The GRO results in Samples TBL2-1SW-0.9, TBL2-2SW-0.9, TBL2-3SW-0.9, TBL2-4SW-1.3, TBL2-5SW-1.3, TBL2-6SW-1.3, TBL2-7SW-1.4, TBL2-8SW-1.2, TBL2-1B-4.0, TBL2-2B-4.0, TBL2-3B-1.8, TBL2-4B-1.8, and TB030615 were qualified as not detected (U-LB).
- **SDG 265200**: The GRO results in Samples WD-TBL, WD-SS, and WD-MISC and the TCLP chromium results in Samples WD-TBL and WD-SS were qualified as not detected (U-LB).

- **Surrogates**—Surrogate compounds were added to all samples for organics analysis, and all surrogate recoveries were within laboratory acceptance limits, with the following exceptions:
  - **SDG 265057**: The DRO surrogate o-terphenyl in Sample CONCRETE-03042015 was not recovered because of a high dilution and could not be evaluated. No qualifiers were assigned.

    The percent recovery for the surrogate dibromofluoromethane was less than the laboratory acceptance limit in the VOC analysis of Sample CONCRETE-03042015. All VOC results in Sample CONCRETE-03042015 were estimated (J/UJ-SSR).

    The percent recovery for the surrogate 1,2-dichloroethane-d14 in Sample CONCRETE-03042015 was less than the laboratory acceptance limit in the VOC matrix spike duplicate (MSD) analysis. The matrix spike analyses were performed on a non-project-related batch sample and no qualifiers were applied to the data.
  - **SDG 265085**: The DRO and SVOC surrogates in Sample TRENCH1-4SW-1.2 were not recovered because of a high dilution and could not be evaluated. No qualifiers were assigned.
  - **SDG 265129**: The DRO surrogate in Sample TBL2-3SW-0.9 and the SVOC surrogates in Samples TBL2-7SW-1.4 and TBL2-3B-1.8 were not recovered

because of a high dilution and could not be evaluated. No qualifiers were assigned.

  - **SDG 265201**: The SVOC surrogates in Sample TRENCH2-7SW-2.0 were not recovered because of a high dilution and could not be evaluated. No qualifiers were assigned.

- **Laboratory Control Sample and Laboratory Control Sample Duplicates (LCS/LCSD)**—LCS/LCSDs were analyzed at the required frequency of one per batch. All LCS recoveries and relative percent difference (RPD) values were within laboratory acceptance limits.

- **Matrix Spike and Matrix Spike Duplicates (MS/MSD)**—MS/MSDs were analyzed at the required frequency of one MS/MSD pair per batch. All MS/MSD recoveries and RPD values were within laboratory acceptance limits, with the following exceptions:

  - **SDG 265009**: The percent recovery for DRO in the matrix spike was greater than the laboratory acceptance limits. Additionally, the RPD value for DRO was greater than the laboratory acceptance limit. The DRO results in Sample TBL1-1SW-1.2 were estimated (J-MS,REP).

    The percent recoveries for 2,4-dinitrotoluene in the matrix spikes were less than the laboratory acceptance limits. The 2,4-dinitrotoluene result in Sample TBL1-1SW-1.2 was estimated (UJ-MS).

    The percent recoveries for barium in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch sample; no qualifiers were applied to the data.

  - **SDG 265056 and 265057**: The percent recoveries for DRO in the matrix spikes, for lead in the matrix spikes, and for copper in the MSDs were less than the laboratory acceptance limits. Additionally, the percent recoveries for chromium, nickel, and vanadium in the MSDs were greater than the laboratory acceptances limits. The matrix spike analyses were performed on a non-project-related batch sample; no qualifiers were applied to the data.

  - **SDG 265085 and 265086**: The percent recoveries for barium in the matrix spikes on Sample TRENCH1-2B-2.4 were outside the laboratory acceptance limits. The barium results were not qualified because the barium concentration in the unspiked sample was greater than 4 times the concentration of the spike added.

  - **SDG 265129**: The percent recoveries for pyrene in the matrix spikes on Sample TBL2-5B-2.2 were outside the laboratory acceptance limits. The results were not qualified based on the matrix spike recoveries because the pyrene concentration

in the unspiked sample was greater than 4 times the concentration of the spike added.

The percent recoveries for barium in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch sample; no qualifiers were applied to the data.

– **SDG 265156**: The percent recoveries for lead in the matrix spikes were greater than the laboratory acceptance limits, and the percent recoveries for mercury were less than the laboratory acceptance limits. The lead and mercury results in the associated samples were estimated (J-MS).

– **SDG 265200:** The percent recovery for barium in the MSD was greater than the laboratory acceptance limits. Additionally, the RPD value for barium was greater than the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch sample; no qualifiers were applied to the data.

The percent recoveries for WET lead in the matrix spikes were outside the laboratory acceptance limits. The results were not qualified based on the matrix spike recoveries because the WET lead concentration in the unspiked sample was greater than 4 times the concentration of the spike added.

– **SDG 265201**: The percent recovery for barium in the MSD was outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch sample; no qualifiers were applied to the data.

The percent recoveries for hexavalent chromium in the matrix spikes on Sample TRENCH2-6SW-2.0 were less than the laboratory acceptance limits. The hexavalent chromium results in the associated samples were estimated (UJ-MS).

- **Laboratory Duplicates**—All laboratory duplicate RPDs were within laboratory acceptance limits.

- **Sample Results**

All soil sample results were reported on a dry-weight basis.

The laboratory J-flagged results with concentrations less than the reporting limit. These results should be considered estimated.

A number of samples in SDGs 265009, 265056, 265057, 265085, 265086, 265129, 265156, 265201, and 265214 were analyzed at dilutions because of high target analyte concentrations, high non-target analyte concentrations, or matrix interference. The reporting limits were raised accordingly.

The GRO results in the following samples were qualified as estimated (J-Mi) because of potential matrix interference:

- **SDG 265085**: TRENCH1-2SW-1.2
- **SDG 265201**: TRENCH2-6SW-2.0 and TRENCH2-4B-4.0.

The DRO results in the following samples were qualified as estimated (J-Mi) because of potential matrix interference:

- **SDG 265009**: TBL1-1SW-1.2
- **SDG 265056**: TBL1-2SW-1.3, TBL1-3SW-1.2, TBL1-4SW-0.9, TBL1-5SW-1.0, TBL1-6SW-2.3, and TBL1-1B-4.5
- **SDG 265057:** CONCRETE-03042015
- **SDG 265085:** TRENCH1-1SW-1.2, TRENCH1-2SW-1.2, TRENCH1-3SW-1.2, TRENCH1-4SW-1.2, TRENCH1-5SW-1.2, TRENCH1-6SW-1.2, TRENCH1-1B-2.4, and TRENCH1-2B-2.4
- **SDG 265086:** TBL1-8SW-1.6, TBL1-9SW-0.8, TBL1-10SW-2.3, TBL1-2B-2.0, TBL1-3B-4.5, TBL1-4B-1.5, and TBL1-11SW-0.8
- **SDG 265129:** TBL2-1SW-0.9, TBL2-3SW-0.9, TBL2-6SW-1.3, TBL2-7SW-1.4, TBL2-8SW-1.2, TBL2-1B-4.0, TBL2-2B-4.0, TBL2-3B-1.8, TBL2-4B-1.8, and TBL2-5B-2.2
- **SDG 265156:** TRENCH2-1SW-1.2, TRENCH2-2SW-2.0, TRENCH2-3SW-1.2, and TRENCH2-2B-2.4
- **SDG 265200:** WD-TBL, WD-SS, and WD-MISC
- **SDG 265201:** TRENCH2-6SW-2.0, TRENCH2-5SW-1.2, TRENCH2-7SW-2.0, TRENCH2-4B-4.0, and TRENCH2-5B-4.0
- **SDG 265214:** TRENCH2-8SW-2.0.

Overall Assessment

The data meet the criteria outlined above, with the noted exceptions. A number of detected GRO, DRO, and metals results were qualified as not detected because of associated method, equipment, or trip blank contamination. Data were estimated (J or UJ qualified) by Integral Consulting Inc. for matrix spike and surrogate recoveries, duplicate imprecision, and matrix interference. No data were rejected and completeness was 100 percent. All results are usable for their intended purpose.

REFERENCES

USEPA. 2014a. Contract Laboratory Program national functional guidelines for inorganic Superfund data review. USEPA- 540-R-013-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

USEPA. 2014b. Contract Laboratory Program national functional guidelines for Superfund organic methods data review. USEPA-540-R-014-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

SUMMARY OF STAGE 2A DATA VALIDATION FOR ADDITIONAL MARCH 2015 EXCAVATION DATA

INTRODUCTION

This report summarizes the findings of Stage 2A data validation of the soil and water samples collected at the former Allied Engineering property in Alameda, California. Samples were from the following sample delivery groups (SDGs): 265215, 265568, and 265648. The samples were analyzed by Curtis & Tompkins, Ltd. of Berkeley, California, for the following:

- Extractable total petroleum hydrocarbons for diesel-range organics (DRO) and motor oil-range organics (MRO) by U.S. Environmental Protection Agency (EPA) Method 8015B
- Flash point by ASTM Method D93
- Hexavalent chromium by EPA Method 7196A
- Metals by EPA Methods 6010B and 7471A
- Moisture by ASTM Method D2216
- pH by EPA Method 9040C
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Purgeable total petroleum hydrocarbons for gasoline-range organics (GRO) by EPA Method 8015B
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- Volatile organic compounds (VOCs) by EPA Method 8260B.

DATA VALIDATION

The Stage 2A validation consisted of a completeness check, a compliance check of sample receipt conditions, and an evaluation of sample-related quality control results. The data validation was based on criteria described in EPA's *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2014a) and *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2014b), the referenced analytical methods, and laboratory-established quality control acceptance limits.

The quality assurance and quality control parameters reviewed are listed below. Validation qualifiers were added to the electronic data deliverables.

Findings

Findings of the Stage 2A data validation are as follows:

- **Data Package Completeness**—Data packages contained all information necessary for a Stage 2A review.
- **Chain of Custody (COC) and Sample Receipt**—Samples were collected in laboratory-supplied containers and were stored and transported to analytical laboratories in chilled coolers.
  - **SDG 265215**: The laboratory did not record the receipt temperatures. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
  - **SDG 265568**: The samples in SDG 265568 were originally reported in other SDGs. PCB and hexavalent chromium analyses were requested for select samples from these SDGs on March 25, 2015.

    The sample receipt conditions were previously reviewed in the original laboratory reports. All samples were received the same day as collection and on ice; no qualifiers were assigned based on any temperature outliers.
  - **SDG 265648**: The sample receipt temperature was recorded as 6.1ºC, above the 6ºC limit. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
- **Holding Times**—Samples were analyzed within the holding time for each analytical method, with the following exceptions:
  - **SDG 265568:** All samples were extracted for PCB analysis more than 14 days from sample collection and the PCB results were estimated (J/UJ-HT).
- **Blanks**—A few analytes were detected in the method blanks. The following qualifiers were assigned based on the evaluation of the method or trip blanks:
  - **SDG 265215:** The GRO results in Sample SS-CLEAN RM were qualified as not detected (U-LB).
  - **SDG 265648:** The GRO results in Sample TANK-DISP-032715 were qualified as not detected (U-LB).

- **Surrogates**—Surrogate compounds were added to all samples for organics analysis, and all surrogate recoveries were within laboratory acceptance limits, with the following exceptions:
  - **SDG 265648**: The SVOC surrogates in Sample TANK-DISP-032715 were not recovered because of a high dilution and could not be evaluated. No qualifiers were assigned.
- **Laboratory Control Sample and Laboratory Control Sample Duplicates (LCS/LCSD)**—LCS/LCSDs were analyzed at the required frequency of one per batch. All LCS recoveries and relative percent difference (RPD) values were within laboratory acceptance limits.
- **Matrix Spike and Matrix Spike Duplicates (MS/MSD)**—MS/MSDs were analyzed at the required frequency of one MS/MSD pair per batch, with the exceptions noted below. All MS/MSD recoveries and RPD values were within laboratory acceptance limits, with the following exceptions:
  - **SDG 265568**: The percent recovery for hexavalent chromium in the matrix spike performed on Sample TBL1-3SW-1.2 was less than the laboratory acceptance limits. The hexavalent chromium results in the associated samples were estimated (J-MS).
  - **SDG 265648**: MS/MSD analyses were not performed for DRO, VOC, and SVOC analyses.
- **Laboratory Duplicates**—All laboratory duplicate RPDs were within laboratory acceptance limits.
- **Sample Results**

  All soil sample results were reported on a dry-weight basis.

  The laboratory J-flagged results with concentrations less than the reporting limit. These results should be considered estimated.

  SDG 265648 sample TANK-DISP-032715 was analyzed at dilutions for DRO, MRO, and SVOC analyses because of high target analyte concentrations or high non-target analyte concentrations. The reporting limits were raised accordingly.

  The DRO results in SDG 265215 Sample SS-CLEAN RM were qualified as estimated (J-Mi) because of potential matrix interference.

Overall Assessment

The data meet the criteria outlined above, with the noted exceptions. A few detected GRO results were qualified as not detected because of associated method blank contamination.

Data were estimated (J or UJ qualified) by Integral Consulting Inc. for exceeded holding times, matrix spike recoveries, and matrix interference. No data were rejected and completeness was 100 percent. All results are usable for their intended purpose.

REFERENCES

USEPA. 2014a. Contract Laboratory Program national functional guidelines for inorganic Superfund data review. USEPA- 540-R-013-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

USEPA. 2014b. Contract Laboratory Program national functional guidelines for Superfund organic methods data review. USEPA-540-R-014-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

SUMMARY OF STAGE 2A DATA VALIDATION FOR FEBRUARY 2015 SOIL AND GROUNDWATER DATA

INTRODUCTION

This report summarizes the findings of Stage 2A data validation of the soil, concrete, and groundwater samples collected at the former Allied Engineering property in Alameda, California. Samples were from the following sample delivery groups (SDGs): 264606, 264660, 264673, 264701, 264721, 264728, 264756, 264757, 264758, 264783, 264791, 264875, 264882, and 264904. The samples were analyzed by Curtis & Tompkins, Ltd. of Berkeley, California, for the following:

- Extractable total petroleum hydrocarbons for diesel-range organics (DRO) and motor oil-range organics (MRO) by U.S. Environmental Protection Agency (EPA) Method 8015B
- Hexavalent chromium by EPA Method 7196A
- Metals by EPA Methods 6010B and 7471A
- Moisture by ASTM Method D2216
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Purgeable total petroleum hydrocarbons for gasoline-range organics (GRO) by EPA Method 8015B
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- Volatile organic compounds (VOCs) by EPA Method 8260B.

DATA VALIDATION

The Stage 2A validation consisted of a completeness check, a compliance check of sample receipt conditions, and an evaluation of sample-related quality control results. The data validation was based upon criteria described in EPA's *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2014a) and *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2014b), the referenced analytical methods, and laboratory-established quality control acceptance limits.

The quality assurance and quality control parameters reviewed are listed below. Validation qualifiers were added to the electronic data deliverables.

Findings

Findings of the Stage 2A data validation are as follows:

- **Data Package Completeness**—Data packages contained all information necessary for a Stage 2A review.
- **Chain of Custody (COC) and Sample Receipt**—Samples were collected in laboratory-supplied containers and were stored and transported to analytical laboratories in chilled coolers.
  - **SDGs 264673, 264875, 264882**: The trip blanks were not listed on the associated COC forms. The laboratory analyzed the trip blanks for VOCs.
  - **SDG 264701**: Sample WR-6-CHAR was not listed on the COC form and analysis was not requested for this sample.
  - **SDGs 264701, 264721, 264278,264756, 264757, 264758, 264783, 264882, 264791**: The laboratory did not record the receipt temperatures. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
- **Holding Times**—Samples were analyzed within the holding time for each analytical method.
- **Blanks**—Several analytes were detected in the method, equipment, or trip blanks. The following qualifiers were assigned based on the evaluation of the method, equipment, or trip blanks:
  - **SDG 264660:** The GRO results in Samples MW-6-2.5-3.5 and SB-19-8.5-9.5 were qualified as not detected (U-LB).
  - **SDG 264673:** The GRO and bromomethane results in Samples SB-12-GW and SB-13-GW were qualified as not detected (U-LB).
  - **SDG 264701:** The bromomethane result in Trip Blank TB-021315, the acetone result in Sample SB-20-10.5-11.5, and the GRO results in Samples SB-12-2.5-3.5, SB-12-11.0-12.0, and SB-22-4.0-5.0 were qualified as not detected (U-LB).
  - **SDG 264728:** The GRO results in Sample SB-20-GW were qualified as not detected (U-LB).
  - **SDG 264756:** The GRO and DRO results in Sample SB-14-GW and the mercury results in Samples SB-24-GW and SB-14-GW were qualified as not detected (U-LB).
  - **SDG 264757:** The GRO results in Samples SB-17-9.0-10.0, SB-16-9.5-10.0, SB-15-9.5-10.0, SB-14-4.0-4.5, and SB-14-9.5-10.0, and the acetone results in Samples SB-24-3.2-3.8 and SB-24-7.0-7.3 were qualified as not detected (U-LB).

- The bromomethane result in Sample SB-24-3.2-3.8 and the chloroform result in Sample SB-16-3.0-3.5 were qualified as not detected (U-FB).
- **SDG 264758**: The GRO results in Samples SB-17-GW, DUP-021815, and SB-16-GW were qualified as not detected (U-LB).
- **SDG 264783**: The GRO results in Samples SB-11-9.5-10.0 and SB-18-9.0-10.0 were qualified as not detected (U-LB).
- **SDG 264971**: The GRO results in Samples SB-23-GW, EB-021915, and SB-11-GW, the bromomethane results in samples EB-021915 and SB-18-GW, and the zinc results in samples EB-021915 and SB-11-GW were qualified as not detected (U-LB).

  The acetone results in Samples SB-23-GW, SB-18-GW, and SB-11-GW and methylene chloride result in Sample SB-23-GW were qualified as not detected (U-FB).
- **SDG 264875**: The GRO, zinc, and mercury results in Sample MW-3-GW were qualified as not detected (U-LB).
- **SDG 264882:** The GRO and mercury results in Sample MW-2-GW were qualified as not detected (U-LB).
- **SDG 264904:** The mercury, nickel, and zinc results in Samples MW-6B-GW and MW-6A-GW were qualified as not detected (U-LB).

- **Surrogates**—Surrogate compounds were added to all samples for organics analysis, and all surrogate recoveries were within laboratory acceptance limits, with the following exceptions:
  - **SDG 264606**: The percent recovery for GRO surrogate bromofluorobenzene was less than the laboratory acceptance limit in the GRO analysis of Sample SB-21-1.0-2.0. Because the surrogate recovery was less than 10 percent, the non-detected GRO result in sample SB-21-1.0-2.0 was rejected (R-SSR) and should be considered unusable.
  - **SDG 264660**: The DRO and SVOC surrogates for Samples SB-19-5.5-6.5 and SB-19-8.5-9.5 were not recovered because of high dilutions and could not be evaluated. No qualifiers were assigned.
  - **SDG 264701**: The percent recovery for VOC surrogate 1,2-dichloroethane-d14 was greater than the laboratory acceptance limit in the VOC analysis of Method Blank QC778222. Surrogate recoveries were acceptable in all associated samples and no qualifiers were assigned.

The DRO and SVOC surrogates for Samples SB-13-3.0-4.0, SB-13-12.0-13.0, SB-22-4.0-5.0, and SB-22-11.0-12.0 were not recovered because of high dilutions and could not be evaluated. No qualifiers were assigned.

- **SDG 264721**: The percent recovery for SVOC base neutral surrogates 2-fluorobiphenyl and terphenyl-d14 were less than the laboratory acceptance limits for Sample SB-19-GW. The SVOC base neutral results in Sample SB-19-GW were all not detected and were estimated (UJ-SSR)
- **SDG 264728**: The percent recovery for SVOC base neutral surrogate terphenyl-d14 was less than the laboratory acceptance limits for Sample SB-22-GW. The SVOC base neutral results in Sample SB-22-GW were estimated (J/UJ-SSR)
- **SDG 264756**: The percent recovery for SVOC base neutral surrogates 2-fluorobiphenyl and terphenyl-d14 were less than the laboratory acceptance limits for Sample SB-24-GW. Additionally, the terphenyl-d14 percent recovery was less than 10 percent. The detected SVOC base neutral results in Sample SB-24-GW were estimated (J-SSR). The non-detected SVOC base neutral results were rejected (R-SSR) and should be considered unusable.
- **SDG 264757**: The percent recovery for GRO surrogate bromofluorobenzene was less than the laboratory acceptance limits for Sample SB-24-3.2-3.8. The GRO result in Sample SB-24-3.2-3.8 was estimated (J-SSR).

  The DRO surrogates for Samples SB-17-5.0-6.0, SB-16-3.0-3.5, SB-15-5.0-5.5, and SB-24-3.2-3.8 were not recovered because of high dilutions and could not be evaluated. No qualifiers were assigned.

  The percent recovery for VOC surrogate bromofluorobenzene was greater than the laboratory acceptance limits for Sample SB-17-5.0-6.0. The detected VOC results in Sample SB-17-5.0-6.0 were estimated (J-SSR).

  The percent recovery for SVOC base neutral surrogate nitrobenzene-d5 was less than the laboratory acceptance limits for Sample SB-17-9.0-10.0. The undetected SVOC base neutral results in Sample SB-17-9.0-10.0 were estimated (UJ-SSR).
- **SDG 264578**: The percent recovery for SVOC base neutral surrogate terphenyl-d14 was less than the laboratory acceptance limits for Sample SB-16-GW. The SVOC base neutral results in Sample SB-16-GW were estimated (J/UJ-SSR).
- **SDG 264783**: The DRO surrogate for Sample SB-18-5.0-6.0 was not recovered because of a high dilution and could not be evaluated. No qualifiers were assigned.
- **SDG 264971**: The percent recovery for SVOC base neutral surrogate terphenyl-d14 was less than the laboratory acceptance limits for Sample SB-23-GW and for

the matrix spike duplicate analysis of Sample SB-23-GW. The SVOC base neutral results in Sample SB-23-GW were estimated (J/UJ-SSR).

- **Laboratory Control Sample and Laboratory Control Sample Duplicates (LCS/LCSD)**—LCS/LCSDs were analyzed at the required frequency of one per batch. All LCS recoveries and relative percent difference (RPD) values were within laboratory acceptance limits.
- **Matrix Spike and Matrix Spike Duplicates (MS/MSD)**—MS/MSDs were analyzed at the required frequency of one MS/MSD pair per batch, except for a number of aqueous batches. All MS/MSD recoveries and RPD values were within laboratory acceptance limits, with the following exceptions:
  - **SDG 264606**: The percent recoveries for hexavalent chromium, arsenic, barium, cobalt, zinc, beryllium, cadmium, selenium, silver, thallium, and GRO in the matrix spikes were less than the laboratory acceptance limits. The matrix spike analyses were performed on non-project-related batch quality control samples, and no qualifiers were applied to the data.
  - The percent recoveries for Aroclor-1016 in the matrix spike analysis of Sample MW-4-0.5-1.5 were greater than the laboratory acceptance limits. Aroclor-1016 was not detected in the associated sample and the recoveries for Aroclor-1260 met the laboratory acceptance limits; no qualifiers were applied to the data.
  - **SDG 264660**: The percent recovery for nickel in the MSD was greater than the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch quality control sample, and no qualifiers were applied to the data.
  - **SDG 264673**: The percent recoveries for chromium, copper, lead, molybdenum, and selenium in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch quality control sample, and no qualifiers were applied to the data.
  - **SDG 264701**: The percent recovery for hexavalent chromium in the matrix spike was less than the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch quality control sample, and no qualifiers were applied to the data.

    The percent recovery for lead in the MSD analysis of Sample SB-13-3.0-4.0 was greater than the laboratory acceptance limits. Additionally, the RPD value for lead was greater than the laboratory acceptance limit. The lead results in all associated samples were estimated (J-MS,REP).

- **SDG 264721**: The percent recoveries for trichloroethene, copper, chromium, lead, molybdenum, selenium, thallium, and zinc in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on non-project-related batch quality control samples, and no qualifiers were applied to the data.
- **SDG 264728**: The percent recoveries for copper, chromium, lead, molybdenum, selenium, thallium, and zinc in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch quality control sample, and no qualifiers were applied to the data.
- **SDG 264757**: The percent recoveries for barium, lead, vanadium, zinc, and hexavalent chromium in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project-related batch sample, and no qualifiers were applied to the data.
- **SDG 264758**: The percent recoveries for chromium, copper, lead, molybdenum, and selenium in the matrix spikes were outside the laboratory acceptance limits. The matrix spike analyses were performed on a non-project related batch quality control sample, and no qualifiers were applied to the data.
- **SDG 264783**: The percent recoveries for barium and hexavalent chromium in the matrix spike analysis of Sample SB-11-9.5-10.0 were less than the laboratory acceptance limits, and the percent recoveries for chromium and vanadium were greater than the laboratory acceptance limits. Additionally, the RPD values for barium and hexavalent chromium were greater than the laboratory acceptance limits.
  - The detected barium and hexavalent chromium results in the associated samples were estimated (J-REP).
  - The chromium results in the associated samples were estimated (J-MS).
  - The hexavalent chromium results in the associated samples were estimated (J/UJ-MS).
  - The barium results were not qualified based on the matrix recoveries because the barium concentration in the unspiked sample was greater than 4 times the concentration of the spike added.
  - The vanadium results were not qualified because the matrix spike percent recovery was within the laboratory acceptance limits and the MSD percent recovery was within 10 percent of the laboratory acceptance limits.
- **SDG 264791**: The percent recovery for pyrene in the MSD analysis of Sample SB-23-GW was less than the laboratory acceptance limits. Additionally, the RPD

value for pyrene was greater than the laboratory acceptance limit. The pyrene result in Sample SB-23-GW was estimated (UJ-MS).

- **Field Duplicates**—One field duplicate pair (SDG 264758, Samples SB-17-GW and DUP-021815) was collected with this data set. Field duplicate precision was evaluated using default limits of 20 percent RPD for aqueous samples. All field duplicate RPD values were within laboratory acceptance limits, with the following exceptions:
  - The RPDs for vinyl chloride, *cis*-1,2-dichloroethene, and *bis*-(2-ethylhexyl)phthalate were above the control limits. Results for vinyl chloride, *cis*-1,2-dichloroethene, and *bis*-(2-ethylhexyl)phthalate in the field duplicate pair were estimated (J/UJ-REP)
- **Sample Results:**

  All soil sample results were reported on a dry-weight basis.

  The laboratory J-flagged results with concentrations less than the reporting limit. These results should be considered estimated.

  A number of samples in SDGs 264606, 264660, 264701, 264757, 264783, and 264875 were analyzed at dilutions because of high target analyte concentrations, high non-target analyte concentrations, or matrix interference. The method detection limits and reporting limits were raised accordingly.

  The laboratory reported four extra analytes (*tert*-butyl alcohol, isopropyl ether, ethyl *tert*-butyl ether, and methyl *tert*-amyl ether) for the VOC analysis of SDG 264606 trip blank Sample TB-021115. These analytes are not analytes of concern for the associated soil samples, and any detected results for these analytes in SDG 264606 Sample TB-021115 were not evaluated.

  The laboratory mistakenly performed silica gel cleanup on the DRO/MRO sample extracts in SDGs 2664606 and 264673. The DRO and MRO results in these sample may be biased low relative to the samples that did not under go silica gel cleanup.

  The laboratory noted in the case narrative associated with SDG 264701 that a high response was observed for acetone in the continuing calibration verification standard analyzed on 02/23/2015 at 11:59. The detected acetone result in associated Sample SB-20-10.5-11.5 was estimated (J-Cc).

  The laboratory noted in the associated case narrative, the low surrogate recoveries in SDG 264756 sample SB-24-GW were confirmed by re-extraction and re-analysis.

  The laboratory noted in the case narrative associated with SDG 264971 that a high response was observed for MRO in the continuing calibration verification standard analyzed on 02/23/2015 at 16:22. The detected MRO result in associated Sample SB-23-GW was estimated (J-Cc).

The GRO results in the following samples were qualified as estimated (J-Mi) because of potential matrix interference:

- **SDG 264606**: MW-4-0.5-1.5
- **SDG 264660**: SB-19-5.5-6.5
- **SDG 264701**: SB-13-3.0-4.0 and SB-13-12.0-13.0
- **SDG 264756**: SB-24-GW
- **SDG 264757**: SB-17-5.0-6.0, SB-16-3.0-3.5, SB-15-5.0-5.5, SB-24-3.2-3.8, and SB-24-7.0-7.3
- **SDG 264758**: SB-15-GW
- **SDG 264783**: SB-18-5.0-6.0
- **SDG 264904**: MW-6A-GW.

The DRO results in the following samples were qualified as estimated (J-Mi) because of potential matrix interference:

- **SDG 264606**: MW-4-0.5-1.5 and SB-21-1.0-2.0
- **SDG 264660**: MW-6-2.5-3.5, SB-19-5.5-6.5, and SB-19-8.5-9.5
- **SDG 264673**: SB-13-GW
- **SDG 264701**: SB-13-3.0-4.0, SB-13-12.0-13.0, SB-12-2.5-3.5, SB-12-11.0-12.0, SB-22-4.0-5.0, SB-22-11.0-12.0, and SB-20-6.0-7.0
- **SDG 264728**: SB-20-GW
- **SDG 264757**: SB-17-5.0-6.0, SB-17-9.0-10.0, SB-16-3.0-3.5, SB-16-9.5-10.0, SB-15-5.0-5.5, SB-15-9.5-10.0, , SB-14-4.0-4.5, and SB-14-9.5-10.0
- **SDG 264578**: SB-17-GW, DUP-021815, SB-16-GW, and SB-15-GW
- **SDG 264791**: SB-23-GW, SB-18-GW, and SB-11-GW
- **SDG 264783**: SB-11-2.0-2.5, SB-18-5.0-6.0, and SB-18-9.0-10.0
- **SDG 264875:** MW-1-GW
- **SDG 264882**: MW-2-GW.

Overall Assessment

The data meet the criteria outlined above, with the noted exceptions. A number of detected GRO, DRO, VOC, and metals results were qualified as not detected because of associated method, equipment, or trip blank contamination. Data were estimated (J or UJ qualified) by Integral Consulting Inc. for continuing calibration outliers, matrix spike and surrogate

recoveries, duplicate imprecision, and matrix interference. The non-detected GRO results in SDG 264606 Sample SB-21-1.0-2.0 and the non-detected SVOC base neutral results in SDG 264756 Sample SB-24-GW were rejected because of very low surrogate recoveries. These 51 rejected results represent less than 1 percent of the total 8,306 results; therefore, completeness was greater than 99 percent. With the exception of the rejected results, all results are usable for their intended purpose.

REFERENCES

USEPA. 2014a. Contract Laboratory Program national functional guidelines for inorganic Superfund data review. USEPA- 540-R-013-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

USEPA. 2014b. Contract Laboratory Program national functional guidelines for Superfund organic methods data review. USEPA-540-R-014-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

SUMMARY OF STAGE 2A DATA VALIDATION FOR ADDITIONAL FEBRUARY 2015 PRODUCT AND GROUNDWATER DATA

INTRODUCTION

This report summarizes the findings of Stage 2A data validation of the product and groundwater samples collected at the former Allied Engineering property in Alameda, California. Samples were from the following sample delivery groups (SDGs): 264706 and 265405. The samples were analyzed by Curtis & Tompkins, Ltd. of Berkeley, California, for the following:

- Extractable total petroleum hydrocarbons for diesel-range organics (DRO), motor oil-range organics (MRO), and chromatographic fingerprint analysis by U.S. Environmental Protection Agency (EPA) Method 8015B
- Hexavalent chromium by EPA Method 7196A
- Metals by EPA Methods 6010B, 6020, and 7471A
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270-SIM
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Purgeable total petroleum hydrocarbons for gasoline-range organics (GRO) by EPA Method 8015B
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- Volatile organic compounds (VOCs) by EPA Method 8260B.

DATA VALIDATION

The Stage 2A validation consisted of a completeness check, a compliance check of sample receipt conditions, and an evaluation of sample-related quality control results. The data validation was based upon criteria described in EPA's *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2014a) and *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2014b), the referenced analytical methods, and laboratory-established quality control acceptance limits.

The quality assurance and quality control parameters reviewed are listed below. Validation qualifiers were added to the electronic data deliverables.

Findings

Findings of the Stage 2A data validation are as follows:

- **Data Package Completeness**—Data packages contained all information necessary for a Stage 2A review.
- **Chain of Custody (COC) and Sample Receipt**—Samples were collected in laboratory-supplied containers and were stored and transported to analytical laboratories in chilled coolers.
  - **SDG 264706**: Analyses were initially put on hold; then released for PAH, PCB, and fingerprint analyses on March, 20, 2015.
  - **SDGs 264706 and 265405**: The laboratory did not record the receipt temperatures. The samples were received the same day as collection and the laboratory indicated the samples were received on ice. No qualifiers were assigned.
  - **SDG 265405**: There was a discrepancy on the COC form between the number of bottles received for Sample MW-4A-GW and the number of bottles noted. Sufficient volume was provided to complete all analyses.
- **Holding Times**—Samples were analyzed within the holding time for each analytical method.
- **Blanks**—Several analytes were detected in the method or trip blanks. The following qualifiers were assigned based on the evaluation of the method or trip blanks:
  - **SDG 265405:** The GRO and zinc results in Samples MW-5B-GW, MW-5A-GW, MW-4B-GW, DUP-GW-031915, and MW-4A-GW; the DRO results in Sample MW-4A-GW; the carbon disulfide results in Samples DUP-GW-031915, TB-031915, and TB-031915-2; and the arsenic results in Samples MW-5A-GW and DUP-GW-031915 were qualified as not detected (U-LB).

    The acetone results in Samples MW-5B-GW, MW-5A-GW, MW-4B-GW, DUP-GW-031915, and MW-4A-GW were qualified as not detected (U-FB).
- **Surrogates**—Surrogate compounds were added to all samples for organics analysis, and all surrogate recoveries were within laboratory acceptance limits, with the following exceptions:
  - **SDG 264706**: The PAH surrogates for Samples SB-19-GW-PROD and SB-22-GW-PROD were not recovered because of high dilutions and could not be evaluated. No qualifiers were assigned.

- **Laboratory Control Sample and Laboratory Control Sample Duplicates (LCS/LCSD)**—LCS/LCSDs were analyzed at the required frequency of one per batch, except for PCBs in SDG 265405. The laboratory used an incorrect spiking solution.

  All LCS recoveries and relative percent difference (RPD) values were within laboratory acceptance limits.

- **Matrix Spike and Matrix Spike Duplicates (MS/MSD)**—MS/MSDs were analyzed at the required frequency of one MS/MSD pair per batch, except for a number of aqueous batches. All MS/MSD recoveries and RPD values were within laboratory acceptance limits, with the following exceptions:

  – **SDG 265405**: The percent recoveries for phenol in the matrix spike analyses of Sample MW-4A-GW were greater than the laboratory acceptance limits. Phenol was not detected in Sample MW-4A-GW and no qualifiers were applied to the data.

    The percent recoveries for lead in the matrix analyses of Sample MW-4A-GW were less than the laboratory acceptance limits. The lead results in all associated samples were estimated (UJ-MS).

- **Field Duplicates**—One field duplicate pair (SDG 265405: Samples MW-5A-GW and DUP-GW-031915) was collected with this data set. Field duplicate precision was evaluated using default limits of 20 percent RPD for aqueous samples. All field duplicate RPD values were within laboratory acceptance limits.

- **Sample Results:**

  The laboratory J-flagged results with concentrations less than the reporting limit. These results should be considered estimated.

  A few samples in SDGs 264706 and 265405 were analyzed at dilutions because of matrix interference. The method detection limits and reporting limits were raised accordingly.

  For the fingerprint analysis in SDG 264706, the laboratory noted that both samples exhibited chromatographic patterns consistent with some type of lubricating oil such as motor oil.

  – SG-19-GW-PROD is the heavier of the two, with peaks predominantly in the C24–C40 range. Integral finds the pattern resembles a hydraulic fluid as well.

  – SB-22-GW-PROD features peaks from C16–C40 and the presence of a double apex could indicate a mixture of two oils. Integral Consulting Inc. concurs.

SDG 265405: The GRO and DRO results in Sample MW-5B-GW were qualified as estimated (J-Mi) because of potential matrix interference.

Overall Assessment

The data meet the criteria outlined above, with the noted exceptions. A number of detected GRO, DRO, VOC, and metals results were qualified as not detected because of associated method or trip blank contamination. Data were estimated (J or UJ qualified) by Integral Consulting Inc. for matrix spike recoveries and matrix interference. No results were rejected; therefore, completeness was 100 percent. All results are usable for their intended purpose.

REFERENCES

USEPA. 2014a. Contract Laboratory Program national functional guidelines for inorganic Superfund data review. USEPA- 540-R-013-001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.

USEPA. 2014b. Contract Laboratory Program national functional guidelines for Superfund organic methods data review. USEPA-540-R-014-002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology, Washington, DC. August 2014.