

Client : CH2M HILL PTY LTD
 Project : 347496 MACDONALDTOWN GASWORKS

Work Order : ES0610135
 ALS Quote Reference : ----

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260406) - continued				mg/kg	mg/kg	%
ES0610135-017	QC03	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260459)				mg/kg	mg/kg	%
ES0610260-007	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
ES0610260-010	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261189)				mg/kg	mg/kg	%
ES0610135-036	MG07/4.0	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
ES0610135-043	TP14/0.5	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261196)				mg/kg	mg/kg	%
ES0610135-045	TP14/1.5	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
ES0610199-024	Anonymous	C10 - C14 Fraction	50 mg/kg	15400	14000	9.8
		C15 - C28 Fraction	100 mg/kg	2130	1900	11.4
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264139)				mg/kg	mg/kg	%
ES0610564-006	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
ES0610564-014	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264260)				mg/kg	mg/kg	%
ES0610548-002	Anonymous	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
ES0610548-010	Anonymous	C10 - C14 Fraction	50 mg/kg	140	210	37.9
		C15 - C28 Fraction	100 mg/kg	1140	1300	12.6

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EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264260) - continued				mg/kg	mg/kg	%
ES0610548-010	Anonymous	C29 - C36 Fraction	100 mg/kg	<100	210	72.3
EP080: BTEX						
EP080: BTEX - (QC Lot: 259275)				mg/kg	mg/kg	%
ES0610063-007	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
ES0610063-015	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 259316)				mg/kg	mg/kg	%
ES0610064-001	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
ES0610064-011	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 260101)				mg/kg	mg/kg	%
ES0610135-013	MG09C/3.8	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0

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EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 260101) - continued				mg/kg	mg/kg	%
ES0610135-013 ES0610135-023	MG09C/3.8	ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
	MG04/0.5	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 260299)				mg/kg	mg/kg	%
ES0610135-036 ES0610135-037	MG07/4.0	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
	TP12/0.25	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 260459)				mg/kg	mg/kg	%
ES0610260-007 ES0610260-010	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 264139)				mg/kg	mg/kg	%

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 264139) - continued				mg/kg	mg/kg	%
ES0610564-006	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
	Anonymous	ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0

Matrix Type: WATER **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EG020T: Total Metals by ICP-MS						
EG020T: Total Metals by ICP-MS - (QC Lot: 259478)				mg/L	mg/L	%
ES0610097-001	Anonymous	Arsenic	0.001 mg/L	<0.001	<0.001	0.0
		Cadmium	0.0001 mg/L	<0.0001	<0.0001	0.0
		Chromium	0.001 mg/L	<0.001	<0.001	0.0
		Copper	0.001 mg/L	0.004	0.004	0.0
		Lead	0.001 mg/L	<0.001	<0.001	0.0
		Nickel	0.001 mg/L	<0.001	<0.001	0.0
		Zinc	0.005 mg/L	<0.005	<0.005	0.0
ES0610155-006	Anonymous	Arsenic	0.001 mg/L	<0.001	<0.001	0.0
		Cadmium	0.0001 mg/L	<0.0001	<0.0001	0.0
		Chromium	0.001 mg/L	<0.001	<0.001	0.0
		Copper	0.001 mg/L	0.013	0.013	0.0
		Lead	0.001 mg/L	<0.001	<0.001	0.0
		Nickel	0.001 mg/L	<0.001	<0.001	0.0
		Zinc	0.005 mg/L	0.015	0.012	18.6
EG035T: Total Mercury by FIMS						

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Matrix Type: WATER

Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EG035T: Total Mercury by FIMS - continued						
EG035T: Total Mercury by FIMS - (QC Lot: 259844)				mg/L	mg/L	%
ES0610115-010	Anonymous	Mercury	0.0001 mg/L	<0.0001	<0.0001	0.0
ES0610224-003	Anonymous	Mercury	0.0001 mg/L	<0.0001	<0.0001	0.0
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 262274)				µg/L	µg/L	%
ES0610200-022	Anonymous	C6 - C9 Fraction	20 µg/L	<20	<20	0.0
ES0610200-027	Anonymous	C6 - C9 Fraction	20 µg/L	140	100	31.5
EP080: BTEX						
EP080: BTEX - (QC Lot: 262274)				µg/L	µg/L	%
ES0610200-022	Anonymous	Benzene	1 µg/L	<1	<1	0.0
		Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0
	Anonymous	Benzene	1 µg/L	<1	<1	0.0
		Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0

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Quality Control Report - Method Blank (MB) and Laboratory Control Samples (LCS)

The quality control term **Method / Laboratory Blank** refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC type is to monitor potential laboratory contamination. The quality control term **Laboratory Control Sample (LCS)** refers to a known, interference free matrix spiked with target analytes or certified reference material. The purpose of this QC type is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of actual laboratory data. Abbreviations: LOR = Limit of reporting.

Matrix Type: SOIL

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES						
EG005T: Total Metals by ICP-AES - (QC Lot: 260716)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	----	13.1	99.1	86.6	123
	5 mg/kg	<5	----	----	----	----
Cadmium	1 mg/kg	<1	----	----	----	----
	1 mg/kg	----	2.76	98.3	79.9	120
Chromium	2 mg/kg	----	60.9	97.7	87.1	119
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	----	54.7	103	85.2	117
	5 mg/kg	<5	----	----	----	----
Lead	5 mg/kg	----	55.2	91.4	82.1	117
	5 mg/kg	<5	----	----	----	----
Nickel	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	54.8	98.9	88	122
Zinc	5 mg/kg	----	104	94.0	79	116
	5 mg/kg	<5	----	----	----	----
EG005T: Total Metals by ICP-AES - (QC Lot: 260718)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	13.1	102	86.6	123
Cadmium	1 mg/kg	<1	----	----	----	----
	1 mg/kg	----	2.76	97.9	79.9	120
Chromium	2 mg/kg	----	60.9	98.1	87.1	119
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	----	54.7	106	85.2	117
	5 mg/kg	<5	----	----	----	----
Lead	5 mg/kg	----	55.2	93.7	82.1	117
	5 mg/kg	<5	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES - continued						
EG005T: Total Metals by ICP-AES - (QC Lot: 260718) - continued		mg/kg	mg/kg	%	%	%
Nickel	2 mg/kg	----	54.8	98.8	88	122
	2 mg/kg	<2	----	----	----	----
Zinc	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	104	93.4	79	116
EG005T: Total Metals by ICP-AES - (QC Lot: 260843)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	----	13.1	106	86.6	123
	5 mg/kg	<5	----	----	----	----
Cadmium	1 mg/kg	<1	----	----	----	----
	1 mg/kg	----	2.76	99.8	79.9	120
Chromium	2 mg/kg	----	60.9	103	87.1	119
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	54.7	110	85.2	117
Lead	5 mg/kg	----	55.2	108	82.1	117
	5 mg/kg	<5	----	----	----	----
Nickel	2 mg/kg	----	54.8	105	88	122
	2 mg/kg	<2	----	----	----	----
Zinc	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	104	107	79	116
EG005T: Total Metals by ICP-AES - (QC Lot: 264930)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	----	13.1	110	86.6	123
	5 mg/kg	<5	----	----	----	----
Cadmium	1 mg/kg	<1	----	----	----	----
	1 mg/kg	----	2.76	115	79.9	120
Chromium	2 mg/kg	----	60.9	115	87.1	119
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	54.7	114	85.2	117
Lead	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	55.2	108	82.1	117

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES - continued						
EG005T: Total Metals by ICP-AES - (QC Lot: 264930) - continued		mg/kg	mg/kg	%	%	%
Nickel	2 mg/kg	----	54.8	116	88	122
	2 mg/kg	<2	----	----	----	----
Zinc	5 mg/kg	----	104	110	79	116
	5 mg/kg	<5	----	----	----	----
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 260717)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	<0.1	----	----	----	----
	0.1 mg/kg	----	1.4	90.4	73.7	108
EG035T: Total Mercury by FIMS - (QC Lot: 260719)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	----	1.4	92.5	73.7	108
	0.1 mg/kg	<0.1	----	----	----	----
EG035T: Total Mercury by FIMS - (QC Lot: 260842)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	<0.1	----	----	----	----
	0.1 mg/kg	----	1.4	93.4	73.7	108
EG035T: Total Mercury by FIMS - (QC Lot: 264931)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	----	1.4	103	73.7	108
	0.1 mg/kg	<0.1	----	----	----	----
EK025G: Free cyanide by Discrete Analyser						
EK025G: Free cyanide by Discrete Analyser - (QC Lot: 260684)		mg/kg	mg/kg	%	%	%
Total Cyanide	1.0 mg/kg	<1.0	----	----	----	----
	1 mg/kg	----	50	104	70	130
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 260398)		mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	0.10 mg/kg	<0.10	----	----	----	----
	0.1 mg/kg	----	0.5	70.6	57.4	117
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260399)		mg/kg	mg/kg	%	%	%

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260399) - continued		mg/kg	mg/kg	%	%	%
4,4'-DDD	0.05 mg/kg	----	0.25	89.8	65.3	116
	0.05 mg/kg	<0.05	----	----	----	----
4,4'-DDE	0.05 mg/kg	----	0.25	89.2	67.5	114
	0.05 mg/kg	<0.05	----	----	----	----
4,4'-DDT	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	89.2	58.4	127
Aldrin	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	88.0	67	113
alpha-BHC	0.05 mg/kg	----	0.25	106	60.8	116
	0.05 mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	89.6	65.8	116
beta-BHC	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	88.2	59.8	117
beta-Endosulfan	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	89.6	66.1	117
cis-Chlordane	0.05 mg/kg	----	0.25	88.6	57.3	120
	0.05 mg/kg	<0.05	----	----	----	----
delta-BHC	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	95.2	65.8	114
Dieldrin	0.05 mg/kg	----	0.25	90.3	67.4	116
	0.05 mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	89.9	63.6	119
Endrin	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	81.7	63	121
Endrin aldehyde	0.05 mg/kg	----	0.25	84.5	57.3	115
	0.05 mg/kg	<0.05	----	----	----	----
Endrin ketone	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	91.2	63.6	117

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260399) - continued		mg/kg	mg/kg	%	%	%
gamma-BHC	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	87.2	59.8	118
Heptachlor	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	90.0	65.6	115
Heptachlor epoxide	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	89.4	65.6	113
Hexachlorobenzene (HCB)	0.05 mg/kg	----	0.25	91.4	59.4	115
	0.05 mg/kg	<0.05	----	----	----	----
Methoxychlor	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	88.9	50.4	132
trans-Chlordane	0.05 mg/kg	----	0.25	88.4	60.7	113
	0.05 mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 260399)		mg/kg	mg/kg	%	%	%
Methyl Azinphos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	64.9	29.8	137
Bromophos-ethyl	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	89.0	64.3	114
Carbophenothion	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	82.2	59.5	119
Chlorfenvinphos	0.05 mg/kg	----	0.25	101	61.4	123
	0.05 mg/kg	<0.05	----	----	----	----
Chlorpyrifos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	87.2	64.2	111
Chlorpyrifos-methyl	0.05 mg/kg	----	0.25	90.9	65.1	111
	0.05 mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	0.05 mg/kg	----	0.25	77.4	10.1	159
	0.05 mg/kg	<0.05	----	----	----	----
Diazinon	0.05 mg/kg	----	0.25	88.7	64.9	111
	0.05 mg/kg	<0.05	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 260399) - continued		mg/kg	mg/kg	%	%	%
Dichlorvos	0.05 mg/kg	----	0.25	77.4	25.5	124
	0.05 mg/kg	<0.05	----	----	----	----
Dimethoate	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	84.5	48.6	126
Ethion	0.05 mg/kg	----	0.25	87.3	62	116
	0.05 mg/kg	<0.05	----	----	----	----
Fenamiphos	0.05 mg/kg	----	0.25	82.0	45.5	128
	0.05 mg/kg	<0.05	----	----	----	----
Fenthion	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	88.3	64.7	110
Malathion	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	91.8	60.4	127
Monocrotophos	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	61.9	2.88	149
Parathion	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	85.0	60	116
Parathion-methyl	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	82.0	61.4	113
Pirimphos-ethyl	0.05 mg/kg	----	0.25	87.7	64.8	111
	0.05 mg/kg	<0.05	----	----	----	----
Prothiofos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	86.6	65.4	111
EP075(SIM)A: Phenolic Compounds						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 260407)		mg/kg	mg/kg	%	%	%
2,4,5-Trichlorophenol	0.5 mg/kg	----	4	67.5	68.9	112
	0.5 mg/kg	<0.5	----	----	----	----
2,4,6-Trichlorophenol	0.5 mg/kg	----	4	81.3	62.2	115
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dichlorophenol	0.5 mg/kg	----	4	87.2	71.6	113
	0.5 mg/kg	<0.5	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 260407) - continued		mg/kg	mg/kg	%	%	%
2,4-Dimethylphenol	0.5 mg/kg	----	4	97.7	74.5	119
	0.5 mg/kg	<0.5	----	----	----	----
2,6-Dichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.7	74.8	115
2-Chlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	95.3	80.2	115
2-Methylphenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.4	76.8	114
2-Nitrophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	84.6	60.3	117
3- & 4-Methylphenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	97.3	72	119
4-Chloro-3-Methylphenol	0.5 mg/kg	----	4	93.6	76.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pentachlorophenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	27.0	1.23	91.6
Phenol	0.5 mg/kg	----	4	97.8	73.9	115
	0.5 mg/kg	<0.5	----	----	----	----
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261190)		mg/kg	mg/kg	%	%	%
2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	74.6	68.9	112
2,4,6-Trichlorophenol	0.5 mg/kg	----	4	80.6	62.2	115
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dichlorophenol	0.5 mg/kg	----	4	81.2	71.6	113
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dimethylphenol	0.5 mg/kg	----	4	95.2	74.5	119
	0.5 mg/kg	<0.5	----	----	----	----
2,6-Dichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	87.8	74.8	115

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261190) - continued		mg/kg	mg/kg	%	%	%
2-Chlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	95.2	80.2	115
2-Methylphenol	0.5 mg/kg	----	4	94.4	76.8	114
	0.5 mg/kg	<0.5	----	----	----	----
2-Nitrophenol	0.5 mg/kg	----	4	74.5	60.3	117
	0.5 mg/kg	<0.5	----	----	----	----
3- & 4-Methylphenol	1.0 mg/kg	----	8	93.0	72	119
	1.0 mg/kg	<1.0	----	----	----	----
4-Chloro-3-Methylphenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	87.7	76.4	114
Pentachlorophenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	24.4	1.23	91.6
Phenol	0.5 mg/kg	----	4	94.3	73.9	115
	0.5 mg/kg	<0.5	----	----	----	----
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261195)		mg/kg	mg/kg	%	%	%
2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	93.0	68.9	112
2,4,6-Trichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	82.7	62.2	115
2,4-Dichlorophenol	0.5 mg/kg	----	4	74.5	71.6	113
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dimethylphenol	0.5 mg/kg	----	4	85.0	74.5	119
	0.5 mg/kg	<0.5	----	----	----	----
2,6-Dichlorophenol	0.5 mg/kg	----	4	83.7	74.8	115
	0.5 mg/kg	<0.5	----	----	----	----
2-Chlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.8	80.2	115
2-Methylphenol	0.5 mg/kg	----	4	89.4	76.8	114
	0.5 mg/kg	<0.5	----	----	----	----

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261195) - continued		mg/kg	mg/kg	%	%	%
2-Nitrophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	72.9	60.3	117
3- & 4-Methylphenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	85.9	72	119
4-Chloro-3-Methylphenol	0.5 mg/kg	----	4	88.4	76.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pentachlorophenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	87.2	1.23	91.6
Phenol	0.5 mg/kg	----	4	95.0	73.9	115
	0.5 mg/kg	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 260407)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	99.4	81.5	112
Acenaphthylene	0.5 mg/kg	----	4	104	79.6	113
	0.5 mg/kg	<0.5	----	----	----	----
Anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	99.1	81.1	112
Benz(a)anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	103	77.2	112
Benzo(a)pyrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.4	76.4	113
Benzo(b)fluoranthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	106	71.8	118
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	87.0	72.4	114
Benzo(k)fluoranthene	0.5 mg/kg	----	4	103	74.2	117
	0.5 mg/kg	<0.5	----	----	----	----
Chrysene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.8	79.8	114

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 260407) - continued		mg/kg	mg/kg	%	%	%
Dibenz(a,h)anthracene	0.5 mg/kg	----	4	90.0	71.7	113
	0.5 mg/kg	<0.5	----	----	----	----
Fluoranthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	107	78.8	113
Fluorene	0.5 mg/kg	----	4	99.3	79.9	112
	0.5 mg/kg	<0.5	----	----	----	----
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	91.3	71	113
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	----	4	107	81.9	113
	0.5 mg/kg	<0.5	----	----	----	----
Phenanthrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	103	79.4	114
Pyrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	107	78.9	113
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261190)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	97.6	81.5	112
Acenaphthylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	95.4	79.6	113
Anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	93.0	81.1	112
Benz(a)anthracene	0.5 mg/kg	----	4	94.4	77.2	112
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	97.2	76.4	113
Benzo(b)fluoranthene	0.5 mg/kg	----	4	89.5	71.8	118
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	76.0	72.4	114

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261190) - continued		mg/kg	mg/kg	%	%	%
Benzo(k)fluoranthene	0.5 mg/kg	----	4	92.0	74.2	117
	0.5 mg/kg	<0.5	----	----	----	----
Chrysene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.9	79.8	114
Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	78.0	71.7	113
Fluoranthene	0.5 mg/kg	----	4	97.8	78.8	113
	0.5 mg/kg	<0.5	----	----	----	----
Fluorene	0.5 mg/kg	----	4	93.5	79.9	112
	0.5 mg/kg	<0.5	----	----	----	----
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	72.3	71	113
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	96.5	81.9	113
Phenanthrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	97.6	79.4	114
Pyrene	0.5 mg/kg	----	4	100	78.9	113
	0.5 mg/kg	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261195)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	93.5	81.5	112
Acenaphthylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.2	79.6	113
Anthracene	0.5 mg/kg	----	4	91.5	81.1	112
	0.5 mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	0.5 mg/kg	----	4	88.3	77.2	112
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.8	76.4	113

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261195) - continued		mg/kg	mg/kg	%	%	%
Benzo(b)fluoranthene	0.5 mg/kg	----	4	87.8	71.8	118
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	85.0	72.4	114
Benzo(k)fluoranthene	0.5 mg/kg	----	4	85.9	74.2	117
	0.5 mg/kg	<0.5	----	----	----	----
Chrysene	0.5 mg/kg	----	4	91.9	79.8	114
	0.5 mg/kg	<0.5	----	----	----	----
Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	79.6	71.7	113
Fluoranthene	0.5 mg/kg	----	4	87.8	78.8	113
	0.5 mg/kg	<0.5	----	----	----	----
Fluorene	0.5 mg/kg	----	4	88.4	79.9	112
	0.5 mg/kg	<0.5	----	----	----	----
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	82.3	71	113
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	----	4	95.9	81.9	113
	0.5 mg/kg	<0.5	----	----	----	----
Phenanthrene	0.5 mg/kg	----	4	93.5	79.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pyrene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	89.2	78.9	113
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259275)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	----	26	72.3	68.4	128
	2 mg/kg	<2	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259316)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	112	68.4	128

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Matrix Type: SOIL

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery	Dynamic Recovery Limits	
Analyte name	LOR				LCS	Low
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260101)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	89.7	68.4	128
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260299)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	----	26	102	68.4	128
	2 mg/kg	<2	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260406)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	<50	----	----	----	----
	50 mg/kg	----	200	96.0	75.2	116
C15 - C28 Fraction	100 mg/kg	<100	----	----	----	----
	100 mg/kg	----	200	101	75.3	113
C29 - C36 Fraction	100 mg/kg	----	200	86.4	72.6	117
	100 mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260459)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	86.3	68.4	128
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261189)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	----	200	86.0	75.2	116
	50 mg/kg	<50	----	----	----	----
C15 - C28 Fraction	100 mg/kg	----	200	95.0	75.3	113
	100 mg/kg	<100	----	----	----	----
C29 - C36 Fraction	100 mg/kg	<100	----	----	----	----
	100 mg/kg	----	200	106	72.6	117
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261196)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	----	200	83.5	75.2	116
	50 mg/kg	<50	----	----	----	----
C15 - C28 Fraction	100 mg/kg	----	200	93.4	75.3	113
	100 mg/kg	<100	----	----	----	----
C29 - C36 Fraction	100 mg/kg	<100	----	----	----	----
	100 mg/kg	----	200	109	72.6	117

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264139)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	78.1	68.4	128
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264260)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	<50	----	----	----	----
	50 mg/kg	----	200	94.6	75.2	116
C15 - C28 Fraction	100 mg/kg	----	200	98.1	75.3	113
	100 mg/kg	<100	----	----	----	----
C29 - C36 Fraction	100 mg/kg	----	200	109	72.6	117
	100 mg/kg	<100	----	----	----	----
EP080: BTEX						
EP080: BTEX - (QC Lot: 259275)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	81.1	67.5	125
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	----	1	81.9	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	83.8	66.5	124
ortho-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	86.6	66.7	123
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	89.6	69	122
EP080: BTEX - (QC Lot: 259316)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	89.5	67.5	125
Ethylbenzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	97.4	65.3	126
meta- & para-Xylene	0.2 mg/kg	----	2	96.2	66.5	124
	0.2 mg/kg	<0.2	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 259316) - continued		mg/kg	mg/kg	%	%	%
ortho-Xylene	0.2 mg/kg	----	1	96.1	66.7	123
	0.2 mg/kg	<0.2	----	----	----	----
Toluene	0.2 mg/kg	----	1	119	69	122
	0.2 mg/kg	<0.2	----	----	----	----
EP080: BTEX - (QC Lot: 260101)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	86.8	67.5	125
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	----	1	88.6	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	89.4	66.5	124
ortho-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	86.9	66.7	123
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	84.5	69	122
EP080: BTEX - (QC Lot: 260299)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	83.8	67.5	125
Ethylbenzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	82.8	65.3	126
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	87.4	66.5	124
ortho-Xylene	0.2 mg/kg	----	1	83.6	66.7	123
	0.2 mg/kg	<0.2	----	----	----	----
Toluene	0.2 mg/kg	----	1	87.2	69	122
	0.2 mg/kg	<0.2	----	----	----	----
EP080: BTEX - (QC Lot: 260459)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	92.6	67.5	125

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Matrix Type: SOIL **Method Blank (MB) and Laboratory Control Samples (LCS) Report**

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 260459) - continued		mg/kg	mg/kg	%	%	%
Ethylbenzene	0.2 mg/kg	----	1	94.0	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	89.9	66.5	124
ortho-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	92.2	66.7	123
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	87.4	69	122
EP080: BTEX - (QC Lot: 264139)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	85.8	67.5	125
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	84.6	65.3	126
meta- & para-Xylene	0.2 mg/kg	----	2	86.6	66.5	124
	0.2 mg/kg	<0.2	----	----	----	----
ortho-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	84.6	66.7	123
Toluene	0.2 mg/kg	----	1	73.0	69	122
	0.2 mg/kg	<0.2	----	----	----	----

Matrix Type: WATER **Method Blank (MB) and Laboratory Control Samples (LCS) Report**

		Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery	Dynamic Recovery Limits	
Analyte name	LOR			LCS	Low	High
EG020T: Total Metals by ICP-MS						
EG020T: Total Metals by ICP-MS - (QC Lot: 259478)		mg/L	mg/L	%	%	%
Arsenic	0.001 mg/L	----	0.1	94.6	78.7	111
	0.001 mg/L	<0.001	----	----	----	----
Cadmium	0.0001 mg/L	<0.0001	----	----	----	----
	0.0001 mg/L	----	0.1	92.0	79.3	111

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG020T: Total Metals by ICP-MS - continued						
EG020T: Total Metals by ICP-MS - (QC Lot: 259478) - continued		mg/L	mg/L	%	%	%
Chromium	0.001 mg/L	----	0.1	96.5	83.4	114
	0.001 mg/L	<0.001	----	----	----	----
Copper	0.001 mg/L	<0.001	----	----	----	----
	0.001 mg/L	----	0.1	93.9	80.1	118
Lead	0.001 mg/L	<0.001	----	----	----	----
	0.001 mg/L	----	0.1	93.8	83.2	116
Nickel	0.001 mg/L	<0.001	----	----	----	----
	0.001 mg/L	----	0.1	96.6	84.3	115
Zinc	0.005 mg/L	<0.005	----	----	----	----
	0.005 mg/L	----	0.1	89.4	77.2	109
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 259844)		mg/L	mg/L	%	%	%
Mercury	0.0001 mg/L	----	0.010	101	78.6	118
	0.0001 mg/L	<0.0001	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 260335)		µg/L	µg/L	%	%	%
Total Polychlorinated biphenyls	1 µg/L	----	10	88.2	61.6	107
	1 µg/L	<1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260336)		µg/L	µg/L	%	%	%
4,4'-DDD	0.5 µg/L	----	5	86.9	68.2	117
	0.5 µg/L	<0.5	----	----	----	----
4,4'-DDE	0.5 µg/L	----	5	90.2	68.9	114
	0.5 µg/L	<0.5	----	----	----	----
4,4'-DDT	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	101	57.6	123
Aldrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	86.7	68.5	114

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260336) - continued		µg/L	µg/L	%	%	%
alpha-BHC	0.5 µg/L	----	5	85.9	59.5	123
	0.5 µg/L	<0.5	----	----	----	----
alpha-Endosulfan	0.5 µg/L	----	5	88.4	68.5	116
	0.5 µg/L	<0.5	----	----	----	----
beta-BHC	0.5 µg/L	----	5	82.8	59.3	122
	0.5 µg/L	<0.5	----	----	----	----
beta-Endosulfan	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	89.7	68	117
cis-Chlordane	0.5 µg/L	----	5	88.8	66.5	117
	0.5 µg/L	<0.5	----	----	----	----
delta-BHC	0.5 µg/L	----	5	81.5	68	116
	0.5 µg/L	<0.5	----	----	----	----
Dieldrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	88.6	68.8	116
Endosulfan sulfate	0.5 µg/L	----	5	93.8	65.9	119
	0.5 µg/L	<0.5	----	----	----	----
Endrin	0.5 µg/L	----	5	101	66.2	122
	0.5 µg/L	<0.5	----	----	----	----
Endrin aldehyde	0.5 µg/L	----	5	87.4	66.6	117
	0.5 µg/L	<0.5	----	----	----	----
Endrin ketone	0.5 µg/L	----	5	87.4	65	118
	0.5 µg/L	<0.5	----	----	----	----
gamma-BHC	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	83.6	59.1	121
Heptachlor	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	91.4	67.1	116
Heptachlor epoxide	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	87.8	69.8	113
Hexachlorobenzene (HCB)	0.5 µg/L	----	5	84.5	58.4	121
	0.5 µg/L	<0.5	----	----	----	----

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260336) - continued		µg/L	µg/L	%	%	%
Methoxychlor	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	95.1	49.6	134
trans-Chlordane	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	87.3	68.3	112
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 260336)		µg/L	µg/L	%	%	%
Methyl Azinphos	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	89.2	45.6	138
Bromophos-ethyl	0.5 µg/L	----	5	89.4	67.7	114
	0.5 µg/L	<0.5	----	----	----	----
Carbophenothion	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	94.8	65	121
Chlorfenvinphos	0.5 µg/L	----	5	112	64	127
	0.5 µg/L	<0.5	----	----	----	----
Chlorpyrifos	0.5 µg/L	----	5	90.0	70	112
	0.5 µg/L	<0.5	----	----	----	----
Chlorpyrifos-methyl	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	91.4	69.5	112
Demeton-S-methyl	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	93.8	26.8	154
Diazinon	0.5 µg/L	----	5	90.9	66.5	115
	0.5 µg/L	<0.5	----	----	----	----
Dichlorvos	0.5 µg/L	----	5	86.3	56.9	128
	0.5 µg/L	<0.5	----	----	----	----
Dimethoate	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	91.7	48.6	126
Ethion	0.5 µg/L	----	5	93.5	67	116
	0.5 µg/L	<0.5	----	----	----	----
Fenamiphos	0.5 µg/L	----	5	98.5	50.5	129
	0.5 µg/L	<0.5	----	----	----	----

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 260336) - continued		µg/L	µg/L	%	%	%
Fenthion	0.5 µg/L	----	5	90.3	69.8	114
	0.5 µg/L	<0.5	----	----	----	----
Malathion	0.5 µg/L	----	5	94.6	59.8	127
	0.5 µg/L	<0.5	----	----	----	----
Monocrotophos	0.5 µg/L	----	5	24.8	10	89.1
	2 µg/L	<2	----	----	----	----
Parathion	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	94.8	62.5	116
Parathion-methyl	2.0 µg/L	----	5	97.8	63.9	115
	2 µg/L	<2	----	----	----	----
Pirimphos-ethyl	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	89.3	67.1	112
Prothiofos	0.5 µg/L	----	5	91.1	69.2	111
	0.5 µg/L	<0.5	----	----	----	----
EP075(SIM)A: Phenolic Compounds						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 260334)		µg/L	µg/L	%	%	%
2,4,5-Trichlorophenol	0.2 µg/L	----	2	92.0	65.3	121
	0.5 µg/L	<0.5	----	----	----	----
2,4,6-Trichlorophenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	93.2	63.1	122
2,4-Dichlorophenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	94.3	64.4	121
2,4-Dimethylphenol	0.2 µg/L	----	2	97.7	61.7	118
	0.5 µg/L	<0.5	----	----	----	----
2,6-Dichlorophenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	89.7	65.7	120
2-Chlorophenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	89.3	62.3	117
2-Methylphenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	82.8	53.9	110

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 260334) - continued		µg/L	µg/L	%	%	%
2-Nitrophenol	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	100	58.2	127
3- & 4-Methylphenol	0.4 µg/L	----	4	75.2	40.9	103
	1.0 µg/L	<1.0	----	----	----	----
4-Chloro-3-Methylphenol	0.2 µg/L	----	2	85.8	66.4	119
	0.5 µg/L	<0.5	----	----	----	----
Pentachlorophenol	1.0 µg/L	<1.0	----	----	----	----
	0.4 µg/L	----	4	109	10.9	145
Phenol	0.2 µg/L	----	2	34.5	19.5	60.7
	0.5 µg/L	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 260334)		µg/L	µg/L	%	%	%
Acenaphthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	100	62.2	113
Acenaphthylene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	96.0	63.6	114
Anthracene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	98.7	64.3	116
Benz(a)anthracene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	104	64.1	117
Benzo(a)pyrene	0.2 µg/L	----	2	96.3	63.3	117
	0.5 µg/L	<0.5	----	----	----	----
Benzo(b)fluoranthene	0.2 µg/L	----	2	92.2	61.7	119
	0.5 µg/L	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.2 µg/L	----	2	92.6	59.1	118
	0.5 µg/L	<0.5	----	----	----	----
Benzo(k)fluoranthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	98.0	61.7	117
Chrysene	0.2 µg/L	----	2	94.3	62.5	116
	0.5 µg/L	<0.5	----	----	----	----

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		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 260334) - continued		µg/L	µg/L	%	%	%
Dibenz(a,h)anthracene	0.2 µg/L	----	2	99.2	61.2	117
	0.5 µg/L	<0.5	----	----	----	----
Fluoranthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	93.3	63.6	118
Fluorene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	90.7	63.9	115
Indeno(1,2,3,cd)pyrene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	109	59.9	118
Naphthalene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	101	62.4	114
Phenanthrene	0.2 µg/L	----	2	101	62.6	116
	0.5 µg/L	<0.5	----	----	----	----
Pyrene	0.2 µg/L	----	2	95.2	63.1	118
	0.5 µg/L	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260333)		µg/L	µg/L	%	%	%
C10 - C14 Fraction	50 µg/L	<50	----	----	----	----
	50 µg/L	----	200	77.4	58.9	131
C15 - C28 Fraction	100 µg/L	<100	----	----	----	----
	100 µg/L	----	200	97.3	73.9	138
C29 - C36 Fraction	50 µg/L	----	200	107	62.7	131
	50 µg/L	<50	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 262274)		µg/L	µg/L	%	%	%
C6 - C9 Fraction	20 µg/L	<20	----	----	----	----
	20 µg/L	----	260	98.0	75	127
EP080: BTEX						
EP080: BTEX - (QC Lot: 262274)		µg/L	µg/L	%	%	%
Benzene	1 µg/L	----	10	109	76.2	124
	1 µg/L	<1	----	----	----	----

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Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 262274) - continued		µg/L	µg/L	%	%	%
Ethylbenzene	2 µg/L	----	10	101	76.1	122
	2 µg/L	<2	----	----	----	----
meta- & para-Xylene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	10	102	75.7	123
ortho-Xylene	2 µg/L	----	10	97.3	77.9	121
	2 µg/L	<2	----	----	----	----
Toluene	2 µg/L	----	10	105	74.4	124
	2 µg/L	<2	----	----	----	----

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Quality Control Report - Matrix Spikes (MS)

The quality control term **Matrix Spike (MS)** refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC type is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQO's). 'Ideal' recovery ranges stated may be waived in the event of sample matrix interferences. - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations: LOR = Limit of Reporting, RPD = Relative Percent Difference.*

* Indicates failed QC

Matrix Type: SOIL **Matrix Spike (MS) Report**

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration		MS	Low	High
EG005T: Total Metals by ICP-AES								
EG005T: Total Metals by ICP-AES - (QC Lot: 260716)				mg/kg	mg/kg	%	%	%
Arsenic	ES0610134-001	Anonymous	5 mg/kg	50	<5	97.4	70	130
Cadmium			1 mg/kg	50	<1	97.6	70	130
Chromium			2 mg/kg	50	5	100	70	130
Copper			5 mg/kg	250	<5	107	70	130
Lead			5 mg/kg	250	<5	95.1	70	130
Nickel			2 mg/kg	50	2	100	70	130
Zinc			5 mg/kg	250	23	97.4	70	130
EG005T: Total Metals by ICP-AES - (QC Lot: 260718)				mg/kg	mg/kg	%	%	%
Arsenic	ES0610135-023	MG04/0.5	5 mg/kg	50	13	89.7	70	130
Cadmium			1 mg/kg	50	<1	89.6	70	130
Chromium			2 mg/kg	50	11	96.3	70	130
Copper			5 mg/kg	250	195	90.4	70	130
Lead			5 mg/kg	250	2140	* Not Determined	70	130
Nickel			2 mg/kg	50	17	90.6	70	130
Zinc			5 mg/kg	250	342	105	70	130
EG005T: Total Metals by ICP-AES - (QC Lot: 260843)				mg/kg	mg/kg	%	%	%
Arsenic	ES0610135-042	TP14/0.25	5 mg/kg	50	6	93.0	70	130
Cadmium			1 mg/kg	50	<1	88.7	70	130
Chromium			2 mg/kg	50	45	78.1	70	130
Copper			5 mg/kg	250	94	115	70	130
Lead			5 mg/kg	250	209	98.7	70	130
Nickel			2 mg/kg	50	58	79.0	70	130
Zinc			5 mg/kg	250	274	79.5	70	130
EG005T: Total Metals by ICP-AES - (QC Lot: 264930)				mg/kg	mg/kg	%	%	%
Arsenic	ES0610135-044	TP14/1.0	5 mg/kg	50	8	80.2	70	130

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Matrix Type: SOIL

Matrix Spike (MS) Report

					Actual Results		Recovery Limits		
Analyte name		Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
							MS	Low	High
EG005T: Total Metals by ICP-AES - continued									
EG005T: Total Metals by ICP-AES - (QC Lot: 264930) - continued					mg/kg	mg/kg	%	%	%
Cadmium	ES0610135-044	TP14/1.0	1 mg/kg	50	<1	106	70	130	
Chromium			2 mg/kg	50	28	104	70	130	
Copper			5 mg/kg	250	<5	115	70	130	
Lead			5 mg/kg	250	15	100	70	130	
Nickel			2 mg/kg	50	<2	105	70	130	
Zinc			5 mg/kg	250	10	99.4	70	130	
EG035T: Total Mercury by FIMS									
EG035T: Total Mercury by FIMS - (QC Lot: 260717)					mg/kg	mg/kg	%	%	%
Mercury	ES0610134-001	Anonymous	0.1 mg/kg	5	<0.1	98.6	70	130	
EG035T: Total Mercury by FIMS - (QC Lot: 260719)					mg/kg	mg/kg	%	%	%
Mercury	ES0610135-023	MG04/0.5	0.1 mg/kg	5	0.3	94.7	70	130	
EG035T: Total Mercury by FIMS - (QC Lot: 260842)					mg/kg	mg/kg	%	%	%
Mercury	ES0610135-042	TP14/0.25	0.1 mg/kg	5	<0.1	99.7	70	130	
EG035T: Total Mercury by FIMS - (QC Lot: 264931)					mg/kg	mg/kg	%	%	%
Mercury	ES0610135-044	TP14/1.0	0.1 mg/kg	5	<0.1	109	70	130	
EK025G: Free cyanide by Discrete Analyser									
EK025G: Free cyanide by Discrete Analyser - (QC Lot: 260684)					mg/kg	mg/kg	%	%	%
Total Cyanide	ES0610135-010	MG09C/0.3	1 mg/kg	50	<1.0	108	70	130	
EP066: Polychlorinated Biphenyls (PCB)									
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 260398)					mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	ES0610135-019	MG10/0.2	0.1 mg/kg	0.5	<0.10	105	70	130	
EP068A: Organochlorine Pesticides (OC)									
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260399)					mg/kg	mg/kg	%	%	%
gamma-BHC	ES0610135-019	MG10/0.2	0.05 mg/kg	0.25	<0.05	60.4	75.65	110.44	
Heptachlor			0.05 mg/kg	0.25	<0.05	38.4	72.2	106.71	
Aldrin			0.05 mg/kg	0.25	<0.05	46.3	77.54	107.0	
Dieldrin			0.05 mg/kg	0.25	<0.05	56.0	76.37	109.7	

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Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration				
EP068A: Organochlorine Pesticides (OC) - continued								
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 260399) - continued				mg/kg	mg/kg	%	%	%
Endrin	ES0610135-019	MG10/0.2	0.05 mg/kg	1	<0.05	* Not Determined	68.51	119.47
4,4'-DDT			0.2 mg/kg	1	<0.2	22.4	67.12	118.10
EP068B: Organophosphorus Pesticides (OP)								
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 260399)				mg/kg	mg/kg	%	%	%
Diazinon	ES0610135-019	MG10/0.2	0.05 mg/kg	0.25	<0.05	56.5	75.85	107.06
Chlorpyrifos-methyl			0.05 mg/kg	0.25	<0.05	46.6	74.84	107.91
Pirimphos-ethyl			0.05 mg/kg	0.25	<0.05	41.1	67.98	109.42
Bromophos-ethyl			0.05 mg/kg	0.25	<0.05	45.6	74.94	107.37
Prothiofos			0.05 mg/kg	0.25	<0.05	70.1	75.45	106.05
EP075(SIM)A: Phenolic Compounds								
EP075(SIM)A: Phenolic Compounds - (QC Lot: 260407)				mg/kg	mg/kg	%	%	%
Phenol	ES0610135-013	MG09C/3.8	0.5 mg/kg	10	<0.5	91.0	70	130
2-Chlorophenol			0.5 mg/kg	10	<0.5	89.8	70	130
2-Nitrophenol			0.5 mg/kg	10	<0.5	95.4	60	130
4-Chloro-3-Methylphenol			0.5 mg/kg	10	<0.5	93.0	70	130
Pentachlorophenol			2.0 mg/kg	10	<2.0	95.1	20	130
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261190)				mg/kg	mg/kg	%	%	%
Phenol	ES0610135-043	TP14/0.5	0.5 mg/kg	10	<0.5	89.4	70	130
2-Chlorophenol			0.5 mg/kg	10	<0.5	89.3	70	130
2-Nitrophenol			0.5 mg/kg	10	<0.5	79.4	60	130
4-Chloro-3-Methylphenol			0.5 mg/kg	10	<0.5	87.4	70	130
Pentachlorophenol			2.0 mg/kg	10	<2.0	47.2	20	130
EP075(SIM)A: Phenolic Compounds - (QC Lot: 261195)				mg/kg	mg/kg	%	%	%
Phenol	ES0610135-045	TP14/1.5	0.5 mg/kg	10	<0.5	89.3	70	130
2-Chlorophenol			0.5 mg/kg	10	<0.5	86.2	70	130
2-Nitrophenol			0.5 mg/kg	10	<0.5	66.8	60	130
4-Chloro-3-Methylphenol			0.5 mg/kg	10	<0.5	90.4	70	130
Pentachlorophenol			2.0 mg/kg	10	<2.0	101	20	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								

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Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery MS	Static Limits	
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration			Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued								
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 260407)				mg/kg	mg/kg	%	%	%
Acenaphthene	ES0610135-013	MG09C/3.8	0.5 mg/kg	10	<0.5	97.2	70	130
Pyrene			0.5 mg/kg	10	<0.5	106	70	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261190)				mg/kg	mg/kg	%	%	%
Acenaphthene	ES0610135-043	TP14/0.5	0.5 mg/kg	10	<0.5	98.3	70	130
Pyrene			0.5 mg/kg	10	<0.5	104	70	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 261195)				mg/kg	mg/kg	%	%	%
Acenaphthene	ES0610135-045	TP14/1.5	0.5 mg/kg	10	<0.5	93.4	70	130
Pyrene			0.5 mg/kg	10	<0.5	93.0	70	130
EP080/071: Total Petroleum Hydrocarbons								
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259275)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610063-007	Anonymous	2 mg/kg	26	<2	72.1	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259316)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610064-001	Anonymous	2 mg/kg	26	<2	83.4	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260101)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610135-023	MG04/0.5	2 mg/kg	26	<2	72.1	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260299)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610135-036	MG07/4.0	2 mg/kg	26	<2	72.0	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260406)				mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610135-013	MG09C/3.8	50 mg/kg	700	<50	80.1	70	130
C15 - C28 Fraction			100 mg/kg	3400	<100	96.9	70	130
C29 - C36 Fraction			100 mg/kg	3600	<100	89.6	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260459)				mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610260-007	Anonymous	2 mg/kg	26	<2	78.4	70	130
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261189)				mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610135-043	TP14/0.5	50 mg/kg	700	<50	88.2	70	130
C15 - C28 Fraction			100 mg/kg	3400	<100	93.9	70	130
C29 - C36 Fraction			100 mg/kg	3600	<100	80.6	70	130

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Matrix Type: SOIL

Matrix Spike (MS) Report

					Actual Results		Recovery Limits		
Analyte name		Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
							MS	Low	High
EP080/071: Total Petroleum Hydrocarbons - continued									
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 261196)					mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610135-045	TP14/1.5	50 mg/kg	700	<50	74.6	70	130	
C15 - C28 Fraction			100 mg/kg	3400	<100	85.4	70	130	
C29 - C36 Fraction			100 mg/kg	3600	<100	84.3	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264139)					mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610564-006	Anonymous	2 mg/kg	26	<2	75.1	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 264260)					mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610548-002	Anonymous	50 mg/kg	700	<50	72.2	70	130	
C15 - C28 Fraction			100 mg/kg	3400	<100	87.0	70	130	
C29 - C36 Fraction			100 mg/kg	3600	<100	80.4	70	130	
EP080: BTEX									
EP080: BTEX - (QC Lot: 259275)					mg/kg	mg/kg	%	%	%
Benzene	ES0610063-007	Anonymous	0.2 mg/kg	2.5	<0.2	92.1	70	130	
Toluene			0.2 mg/kg	2.5	<0.2	89.2	70	130	
Ethylbenzene			0.2 mg/kg	2.5	<0.2	90.0	70	130	
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	89.0	70	130	
ortho-Xylene			0.2 mg/kg	2.5	<0.2	89.0	70	130	
EP080: BTEX - (QC Lot: 259316)					mg/kg	mg/kg	%	%	%
Benzene	ES0610064-001	Anonymous	0.2 mg/kg	2.5	<0.2	86.6	70	130	
Toluene			0.2 mg/kg	2.5	<0.2	81.1	70	130	
Ethylbenzene			0.2 mg/kg	2.5	<0.2	92.7	70	130	
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	94.9	70	130	
ortho-Xylene			0.2 mg/kg	2.5	<0.2	91.1	70	130	
EP080: BTEX - (QC Lot: 260101)					mg/kg	mg/kg	%	%	%
Benzene	ES0610135-023	MG04/0.5	0.2 mg/kg	2.5	<0.2	88.3	70	130	
Toluene			0.2 mg/kg	2.5	<0.2	75.1	70	130	
Ethylbenzene			0.2 mg/kg	2.5	<0.2	85.9	70	130	
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	86.7	70	130	
ortho-Xylene			0.2 mg/kg	2.5	<0.2	83.9	70	130	

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Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration				
EP080: BTEX - continued								
EP080: BTEX - (QC Lot: 260299)				mg/kg	mg/kg	%	%	%
Benzene	ES0610135-036	MG07/4.0	0.2 mg/kg	2.5	<0.2	80.0	70	130
Toluene			0.2 mg/kg	2.5	<0.2	83.0	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	85.0	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	83.1	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	83.1	70	130
EP080: BTEX - (QC Lot: 260459)				mg/kg	mg/kg	%	%	%
Benzene	ES0610260-007	Anonymous	0.2 mg/kg	2.5	<0.2	84.1	70	130
Toluene			0.2 mg/kg	2.5	<0.2	78.4	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	87.1	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	87.4	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	87.9	70	130
EP080: BTEX - (QC Lot: 264139)				mg/kg	mg/kg	%	%	%
Benzene	ES0610564-006	Anonymous	0.2 mg/kg	2.5	<0.2	88.2	70	130
Toluene			0.2 mg/kg	2.5	<0.2	73.6	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	95.8	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	95.9	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	92.5	70	130

Matrix Type: WATER Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration				
EG020T: Total Metals by ICP-MS								
EG020T: Total Metals by ICP-MS - (QC Lot: 259478)				mg/L	mg/L	%	%	%
Arsenic	ES0610097-002	Anonymous	0.001 mg/L	1	<0.001	82.3	70	130
Cadmium			0.0001 mg/L	0.25	<0.0001	78.6	70	130
Chromium			0.001 mg/L	1	<0.001	74.2	70	130
Copper			0.001 mg/L	1	0.004	75.7	70	130
Lead			0.001 mg/L	1	<0.001	76.6	70	130
Nickel			0.001 mg/L	1	<0.001	77.2	70	130

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Matrix Type: WATER

Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
EG020T: Total Metals by ICP-MS - continued								
EG020T: Total Metals by ICP-MS - (QC Lot: 259478) - continued				mg/L	mg/L	%	%	%
Zinc	ES0610097-002	Anonymous	0.005 mg/L	1	<0.005	76.4	70	130
EG035T: Total Mercury by FIMS								
EG035T: Total Mercury by FIMS - (QC Lot: 259844)				mg/L	mg/L	%	%	%
Mercury	ES0610115-010	Anonymous	0.0001 mg/L	0.010	<0.0001	90.7	70	130
EP080/071: Total Petroleum Hydrocarbons								
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 262274)				µg/L	µg/L	%	%	%
C6 - C9 Fraction	ES0610200-022	Anonymous	20 µg/L	250	<20	109	70	130
EP080: BTEX								
EP080: BTEX - (QC Lot: 262274)				µg/L	µg/L	%	%	%
Benzene	ES0610200-022	Anonymous	1 µg/L	25	<1	115	70	130
Toluene			2 µg/L	25	<2	108	70	130
Ethylbenzene			2 µg/L	25	<2	111	70	130
meta- & para-Xylene			2 µg/L	25	<2	111	70	130
ortho-Xylene			2 µg/L	25	<2	111	70	130

INTERPRETIVE QUALITY CONTROL REPORT

Client	: CH2M HILL PTY LTD	Laboratory	: ALS Environmental Sydney	Page	: 1 of 14
Contact	: MR ADAM SULLIVAN	Contact	: Greg Vogel		
Address	: PO BOX 5392 CHATSWOOD NSW AUSTRALIA 1515	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164	Work order	: ES0610135
				Amendment No.	:
Project	: 347496 MACDONALDTOWN GASWORKS	Quote number	: ----	Date received	: 17 Aug 2006
Order number	: - Not provided -			Date issued	: 30 Aug 2006
C-O-C number	: - Not provided -				
Site	: MACDONALD				
E-mail	: adam.sullivan@ch2m.com.au	E-mail	: Greg.Vogel@alsenviro.com	No. of samples	
Telephone	: 02 9950 0200	Telephone	: +61 (02) 8784 8555	Received	: 55
Facsimile	: 02 9950 0600	Facsimile	: +61 (02) 8784 8500	Analysed	: 46

This Interpretive Quality Control Report was issued on 30 Aug 2006 for the ALS work order reference ES0610135 and supersedes any previous reports with this reference.

This report contains the following information:

- 1 Analysis Holding Time Compliance
- 1 Quality Control Type Frequency Compliance
- 1 Summary of all Quality Control Outliers
- 1 Brief Method Summaries

Client : CH2M HILL PTY LTD
 Project : 347496 MACDONALDTOWN GASWORKS

Work Order : ES0610135
 ALS Quote Reference : ----

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Interpretive Quality Control Report - Analysis Holding Time

The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the sample aliquot was taken. Elapsed time to analysis represents time from sampling where no extraction / digestion is involved or time from extraction / digestion where this is present. For composite samples, sampling date/time is taken as that of the oldest sample contributing to that composite. Sample date/time for laboratory produced leaches are taken from the completion date/time of the leaching process. Outliers for holding time are based on USEPA SW846, APHA, AS and NEPM (1999). Failed outliers, refer to the 'Summary of Outliers'.

Matrix Type: SOIL		Analysis Holding Time and Preservation						
Method		Date Sampled	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
EA055-103: Moisture Content								
Soil Glass Jar - Unpreserved		17 Aug 2006	----	----	----	23 Aug 2006	24 Aug 2006	Pass
MG08/0.3, MG08/2.1, MG09B/0.3, MG09B/2.5, MG09C/0.3, MG09C/3.8, TP15/2.8, QC03, MG10/0.2, MG10A/2.8, MG04/0.5, TRIP BLANK 3, MG05/0.5, MG05/3.4, MG06/1.0, MG06/4.7, MG07/4.0, TP12/0.5, TP13/1.0, TP14/0.25, TP14/1.5, RP/PIPE,								
MG08/1.5, MG08/4.0, MG09B/0.6, MG09B/PIPE, MG09C/1.9, TP15/0.3, TP15/4.1, QC04, MG10A/0.7, MG10A/4.0, MG04/1.5, TRIP SPIKE 3, MG05/1.8, MG05/5.0, MG06/2.0, MG07/1.0, TP12/0.25, TP13/0.25, TP13/1.5, TP14/0.5, RP/2.0, TS CONTROL								
Soil Glass Jar - Unpreserved								
TP14/1.0								
EG005T: Total Metals by ICP-AES								