King County

Water and Land Resources Division
Environmental Laboratory
Department of Natural Resources and Parks
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TTY Relay: 711

Technical Memorandum

DATE: August 31, 2006

TO: Bruce Tiffany, Industrial Waste

FROM: Fritz Grothkopp, Environmental Lab

RE: King County International Airport Catch Basin Sediment Survey

CC:

Enclosed are the results for samples received between June 6 and 8, 2006. The samples were assigned the lab ID numbers as listed in the Sample Table below. Samples L39361-1 to 8 & 10 and L39395-1 were analyzed for PCB and Total Solids, samples L39363-1 to 8 and L39396-1 were analyzed for Semi-volatile Organics, Diesel-range Petroleum Hydrocarbon, Metals (Arsenic, Copper, Mercury, Lead and Zinc), Total Organic Carbon and Total Solids.

All sample analyses passed applicable quality control with the following exceptions. The Diesel Range and Lube Oil Range hydrocarbon results were flagged with an "H" qualifier because the samples were inadvertently frozen prior to analysis. Chromatograms of the hydrocarbon analyses for each sample have been provided for all WTPH-Dx analyses in addition to library comparison chromatograms for diesel, lube oil and hydraulic fluid. Additional information regarding the petroleum hydrocarbon analysis can be found in the "Analytical Text Value Report" attached to this report.

Please feel free to call me at 206-684-2327 should you have questions regarding the results.

IW-KCIA Seds L39363_396a.doc

Sample Table

Sample Locator	Lab Sample Number	Collection Date
KCIA_V_1541	L39361-1	6/8/2006
KCIA_V_1680	L39361-10	6/6/2006
KCIA_V_1640	L39361-2	6/7/2006
KCIA_V_1650	L39361-3	6/7/2006
KCIA_V_1657	L39361-4	6/7/2006
KCIA_V_1670	L39361-5	6/6/2006
KCIA_V_1680	L39361-6	6/6/2006
KCIA_V_1756	L39361-7	6/6/2006
KCIA_V_1757 Middle location	L39361-8	6/6/2006
KCIA_V_1757 Effluent location	L39395-1	6/6/2006
KCIA_V_1541	L39363-1	6/8/2006
KCIA_V_1640	L39363-2	6/7/2006
KCIA_V_1650	L39363-3	6/7/2006
KCIA_V_1657	L39363-4	6/7/2006
KCIA_V_1670	L39363-5	6/6/2006
KCIA_V_1680	L39363-6	6/6/2006
KCIA_V_1756	L39363-7	6/6/2006
KCIA_V_1757 Middle location	L39363-8	6/6/2006
KCIA_V_1757 Effluent location	L39396-1	6/6/2006

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SEA423170

King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1541	KCIA_V_1640	KCIA_V_1650	KCIA_V_1657
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1541-060806	KCIA-1640-060706	KCIA-1650-060706	KCIA-1657-060706
Sampled:	Jun 08, 2006	Jun 07, 2006	Jun 07, 2006	Jun 07, 2006
Lab ID:	L39363-1	L39363-2	L39363-3	L39363-4
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	34.1	25.7	17.2	32.2

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
	Dry Weight Basis					Dry Weight Basis					Dry Weight Basis					Dry Weight Basis				
COMBINED LABS																				
M=CV EPA 9060-PSEP96 (03-04-002-003)																				
Total Organic Carbon	86500		7900	16000	mg/Kg	72000		7400	14600	mg/Kg	69800		7000	14100	mg/Kg	39800		5000	10200	mg/Kg
M=CV SM2540-G (03-01-007-002)																				
Total Solids *	34.1		0.005	0.01	%	25.7		0.005	0.01	%	17.2		0.005	0.01	%	32.2		0.005	0.01	%
M=MT EPA 7471A (06-01-004-003)																				
Mercury, Total, CVAA	0.13	<RDL	0.059	0.578	mg/Kg	0.21	<RDL	0.078	0.782	mg/Kg	0.24	<RDL	0.12	1.16	mg/Kg	0.2	<RDL	0.062	0.624	mg/Kg
M=MT EPA3050A/6010B (06-02-004-002)																				
Arsenic, Total, ICP	9.4	<RDL	4.7	23.8	mg/Kg	23	<RDL	5.1	24.8	mg/Kg	34.4		4.8	24.1	mg/Kg	14	<RDL	5	25.5	mg/Kg
Copper, Total, ICP	1550		0.38	1.91	mg/Kg	233		0.39	1.98	mg/Kg	567		0.38	1.93	mg/Kg	204		0.4	2.04	mg/Kg
Lead, Total, ICP	190		2.8	14.3	mg/Kg	463		3	14.9	mg/Kg	744		2.9	14.5	mg/Kg	263		3.1	15.3	mg/Kg
Zinc, Total, ICP	1880		0.47	2.38	mg/Kg	1250		0.51	2.48	mg/Kg	1810		0.48	2.41	mg/Kg	1620		0.5	2.55	mg/Kg
M=OR EPA 3550B/8270C (7-3-01-004)																				
1,2,4-Trichlorobenzene		<MDL	32	62.2	ug/Kg		<MDL	43	82.5	ug/Kg		<MDL	64	123	ug/Kg		<MDL	34	65.8	ug/Kg
1,2-Dichlorobenzene		<MDL	32	62.2	ug/Kg		<MDL	43	82.5	ug/Kg		<MDL	64	123	ug/Kg		<MDL	34	65.8	ug/Kg
1,2-Diphenylhydrazine		<MDL	1200	2350	ug/Kg		<MDL	1600	3110	ug/Kg		<MDL	2300	4650	ug/Kg		<MDL	1200	2480	ug/Kg
1,3-Dichlorobenzene		<MDL	32	62.2	ug/Kg		<MDL	43	82.5	ug/Kg		<MDL	64	123	ug/Kg		<MDL	34	65.8	ug/Kg
1,4-Dichlorobenzene		<MDL	16	31.1	ug/Kg		<MDL	21	41.2	ug/Kg		<MDL	31	61.6	ug/Kg		<MDL	16	32.9	ug/Kg
2,4,5-Trichlorophenol		<MDL	1400	2820	ug/Kg		<MDL	1900	3740	ug/Kg		<MDL	2800	5580	ug/Kg		<MDL	1500	2980	ug/Kg
2,4,6-Trichlorophenol		<MDL	1500	3050	ug/Kg		<MDL	2000	4050	ug/Kg		<MDL	3000	6050	ug/Kg		<MDL	1600	3230	ug/Kg
2,4-Dichlorophenol		<MDL	1900	3750	ug/Kg		<MDL	2500	4980	ug/Kg		<MDL	3700	7440	ug/Kg		<MDL	2000	3980	ug/Kg
2,4-Dimethylphenol		<MDL	820	1640	ug/Kg		<MDL	1100	2180	ug/Kg		<MDL	1600	3260	ug/Kg		<MDL	870	1740	ug/Kg
2,4-Dinitrotoluene		<MDL	350	704	ug/Kg		<MDL	470	934	ug/Kg		<MDL	700	1400	ug/Kg		<MDL	370	745	ug/Kg
2,6-Dinitrotoluene		<MDL	1200	2350	ug/Kg		<MDL	1600	3110	ug/Kg		<MDL	2300	4650	ug/Kg		<MDL	1200	2480	ug/Kg
2-Chloronaphthalene		<MDL	1900	3750	ug/Kg		<MDL	2500	4980	ug/Kg		<MDL	3700	7440	ug/Kg		<MDL	2000	3980	ug/Kg
2-Chlorophenol		<MDL	940	1880	ug/Kg		<MDL	1200	2490	ug/Kg		<MDL	1900	3720	ug/Kg		<MDL	990	1990	ug/Kg
2-Methylnaphthalene		<MDL	1600	3280	ug/Kg		<MDL	2200	4360	ug/Kg		<MDL	3300	6510	ug/Kg		<MDL	1700	3480	ug/Kg
2-Methylphenol		<MDL	1900	3750	ug/Kg		<MDL	2500	4980	ug/Kg		<MDL	3700	7440	ug/Kg		<MDL	2000	3980	ug/Kg
2-Nitrophenol		<MDL	1800	3520	ug/Kg		<MDL	2300	4670	ug/Kg		<MDL	3500	6980	ug/Kg		<MDL	1900	3730	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	1100	2110	ug/Kg		<MDL	1400	2800	ug/Kg		<MDL	2100	4190	ug/Kg		<MDL	1100	2240	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	1500	3050	ug/Kg		<MDL	2000	4050	ug/Kg		<MDL	3000	6050	ug/Kg		<MDL	1600	3230	ug/Kg
4-Methylphenol		<MDL	1900	3750	ug/Kg	2800	<RDL	2500	4980	ug/Kg		<MDL	3700	7440	ug/Kg		<MDL	2000	3980	ug/Kg
Acenaphthene		<MDL	820	1640	ug/Kg		<MDL	1100	2180	ug/Kg		<MDL	1600	3260	ug/Kg		<MDL	870	1740	ug/Kg
Acenaphthylene		<MDL	1800	3520	ug/Kg		<MDL	2300	4670	ug/Kg		<MDL	3500	6980	ug/Kg		<MDL	1900	3730	ug/Kg
Aniline		<MDL	2200	4460	ug/Kg		<MDL	3000	5910	ug/Kg		<MDL	4400	8840	ug/Kg		<MDL	2400	4720	ug/Kg
Anthracene		<MDL	470	938	ug/Kg	1200	<RDL	620	1250	ug/Kg	990	<RDL	930	1860	ug/Kg	840	<RDL	500	994	ug/Kg
Benzo(a)anthracene	2230		230	469	ug/Kg	7160		310	623	ug/Kg	4530		470	930	ug/Kg	3730		250	497	ug/Kg
Benzo(a)pyrene	2770		350	704	ug/Kg	11500		470	934	ug/Kg	7150		700	1400	ug/Kg	6240		370	745	ug/Kg
Benzo(b)fluoranthene	4520		350	704	ug/Kg	20500		470	934	ug/Kg	10000		700	1400	ug/Kg	10400		370	745	ug/Kg
Benzo(g,h,i)perylene	3140		940	1880	ug/Kg	11900		1200	2490	ug/Kg	7270		1900	3720	ug/Kg	6610		990	1990	ug/Kg
Benzo(k)fluoranthene	3280		350	704	ug/Kg	13900		470	934	ug/Kg	10600		700	1400	ug/Kg	9910		370	745	ug/Kg

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King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1541	KCIA_V_1640	KCIA_V_1650	KCIA_V_1657
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1541-060806	KCIA-1640-060706	KCIA-1650-060706	KCIA-1657-060706
Sampled:	Jun 08, 2006	Jun 07, 2006	Jun 07, 2006	Jun 07, 2006
Lab ID:	L39363-1	L39363-2	L39363-3	L39363-4
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	34.1	25.7	17.2	32.2

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
	- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis				
COMBINED LABS																				
Benzoic Acid		<MDL	1600	7830	ug/Kg		<MDL	2100	10400	ug/Kg		<MDL	3100	15500	ug/Kg		<MDL	1600	8290	ug/Kg
Benzyl Alcohol		<MDL	700	1410	ug/Kg		<MDL	930	1870	ug/Kg		<MDL	1400	2790	ug/Kg		<MDL	750	1490	ug/Kg
Benzyl Butyl Phthalate		<MDL	700	1410	ug/Kg	2040		930	1870	ug/Kg	3130		1400	2790	ug/Kg	1490	<RDL	750	1490	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	2000	3990	ug/Kg		<MDL	2600	5290	ug/Kg		<MDL	4000	7910	ug/Kg		<MDL	2100	4220	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	1800	3520	ug/Kg		<MDL	2300	4670	ug/Kg		<MDL	3500	6980	ug/Kg		<MDL	1900	3730	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	1800	3520	ug/Kg		<MDL	2300	4670	ug/Kg		<MDL	3500	6980	ug/Kg		<MDL	1900	3730	ug/Kg
Bis(2-Ethylhexyl)Phthalate	53100		790	1640	ug/Kg	73200		1100	2180	ug/Kg	31600		1600	3260	ug/Kg	29400		840	1740	ug/Kg
Caffeine		<MDL	700	1410	ug/Kg		<MDL	930	1870	ug/Kg		<MDL	1400	2790	ug/Kg		<MDL	750	1490	ug/Kg
Carbazole		<MDL	820	1640	ug/Kg	3320		1100	2180	ug/Kg	2000	<RDL	1600	3260	ug/Kg	1700	<RDL	870	1740	ug/Kg
Chrysene	4690		470	938	ug/Kg	18900		620	1250	ug/Kg	10800		930	1860	ug/Kg	9970		500	994	ug/Kg
Coprostanol	34000		1600	3280	ug/Kg	25700		2200	4360	ug/Kg		<MDL	3300	6510	ug/Kg		<MDL	1700	3480	ug/Kg
Dibenzo(a,h)anthracene		<MDL	820	1640	ug/Kg	3100		1100	2180	ug/Kg	2300	<RDL	1600	3260	ug/Kg	1600	<RDL	870	1740	ug/Kg
Dibenzofuran		<MDL	1600	3280	ug/Kg		<MDL	2200	4360	ug/Kg		<MDL	3300	6510	ug/Kg		<MDL	1700	3480	ug/Kg
Diethyl Phthalate		<MDL	700	1410	ug/Kg		<MDL	930	1870	ug/Kg		<MDL	1400	2790	ug/Kg		<MDL	750	1490	ug/Kg
Dimethyl Phthalate		<MDL	1300	2580	ug/Kg		<MDL	1700	3420	ug/Kg		<MDL	2600	5120	ug/Kg		<MDL	1400	2730	ug/Kg
Di-N-Butyl Phthalate		<MDL	590	1170	ug/Kg		<MDL	780	1560	ug/Kg	3150		1200	2330	ug/Kg	710	<RDL	620	1240	ug/Kg
Di-N-Octyl Phthalate		<MDL	940	1880	ug/Kg		<MDL	1200	2490	ug/Kg		<MDL	1900	3720	ug/Kg		<MDL	990	1990	ug/Kg
Fluoranthene	7420		940	1880	ug/Kg	33600		1200	2490	ug/Kg	18000		1900	3720	ug/Kg	17100		990	1990	ug/Kg
Fluorene		<MDL	1500	2580	ug/Kg		<MDL	2000	3420	ug/Kg		<MDL	3000	5120	ug/Kg		<MDL	1600	2730	ug/Kg
Hexachlorobenzene		<MDL	79	156	ug/Kg		<MDL	110	207	ug/Kg		<MDL	160	309	ug/Kg		<MDL	84	165	ug/Kg
Hexachlorobutadiene		<MDL	88	176	ug/Kg		<MDL	120	233	ug/Kg		<MDL	170	349	ug/Kg		<MDL	93	186	ug/Kg
Hexachloroethane		<MDL	1800	3520	ug/Kg		<MDL	2300	4670	ug/Kg		<MDL	3500	6980	ug/Kg		<MDL	1900	3730	ug/Kg
Indeno(1,2,3-Cd)Pyrene	2570		1100	2110	ug/Kg	10300		1400	2800	ug/Kg	6570		2100	4190	ug/Kg	5810		1100	2240	ug/Kg
Isophorone		<MDL	2200	4460	ug/Kg		<MDL	3000	5910	ug/Kg		<MDL	4400	8840	ug/Kg		<MDL	2400	4720	ug/Kg
Naphthalene		<MDL	1600	3280	ug/Kg		<MDL	2200	4360	ug/Kg		<MDL	3300	6510	ug/Kg		<MDL	1700	3480	ug/Kg
Nitrobenzene		<MDL	1900	3750	ug/Kg		<MDL	2500	4980	ug/Kg		<MDL	3700	7440	ug/Kg		<MDL	2000	3980	ug/Kg
N-Nitrosodimethylamine		<MDL	2300	4690	ug/Kg		<MDL	3100	6230	ug/Kg		<MDL	4700	9300	ug/Kg		<MDL	2500	4970	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	1100	2110	ug/Kg		<MDL	1400	2800	ug/Kg		<MDL	2100	4190	ug/Kg		<MDL	1100	2240	ug/Kg
N-Nitrosodiphenylamine		<MDL	2300	4690	ug/Kg		<MDL	3100	6230	ug/Kg		<MDL	4700	9300	ug/Kg		<MDL	2500	4970	ug/Kg
Pentachlorophenol		<MDL	790	3140	ug/Kg		<MDL	1100	4160	ug/Kg		<MDL	1600	6220	ug/Kg		<MDL	840	3320	ug/Kg
Phenanthrene	3260		470	938	ug/Kg	13700		620	1250	ug/Kg	6980		930	1860	ug/Kg	6580		500	994	ug/Kg
Phenol		<MDL	1100	2110	ug/Kg		<MDL	1400	2800	ug/Kg		<MDL	2100	4190	ug/Kg		<MDL	1100	2240	ug/Kg
Pyrene	6770		470	938	ug/Kg	26000		620	1250	ug/Kg	14100		930	1860	ug/Kg	12800		500	994	ug/Kg
Pyridine		<MDL	3200	6250	ug/Kg		<MDL	4300	8290	ug/Kg		<MDL	6400	12400	ug/Kg		<MDL	3400	6610	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)																				
Diesel Range (>C12-C24)	11000	H,TA	73	73	mg/Kg	16000	H,TA	97	97	mg/Kg						940	H,TA	78	78	mg/Kg
Lube Oil Range (>C24)	81000	H,TA	73	73	mg/Kg	8800	H,TA	97	97	mg/Kg	10000	H,TA	150	150	mg/Kg	3500	H,TA	78	78	mg/Kg

* Not converted to dry weight basis for this parameter

KCSlip4 56860

SEA423172

King County Environmental Lab Analytical Report

PROJECT 421168-40

Locator:	KCIA_V_1670	KCIA_V_1680	KCIA_V_1756	KCIA_V_1757
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1670-060606	KCIA-1680-060606	KCIA-1756-060606	KCIA-1757-060606M
Sampled:	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006
Lab ID:	L39363-5	L39363-6	L39363-7	L39363-8
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	47.2	18.2	17.1	21.4

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
	- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis				
COMBINED LABS																				
M=CV EPA 9060-PSEP96 (03-04-002-003)																				
Total Organic Carbon	62700		4900	9640	mg/Kg	65900		5400	10800	mg/Kg	52700		6400	12900	mg/Kg	82700		7000	14300	mg/Kg
M=CV SM2540-G (03-01-007-002)																				
Total Solids *	47.2		0.005	0.01	%	18.2		0.005	0.01	%	17.1		0.005	0.01	%	21.4		0.005	0.01	%
M=MT EPA 7471A (06-01-004-003)																				
Mercury, Total, CVAA	0.3	<RDL	0.042	0.428	mg/Kg	0.24	<RDL	0.11	1.12	mg/Kg	0.54	<RDL	0.12	1.19	mg/Kg	0.24	<RDL	0.093	0.925	mg/Kg
M=MT EPA3050A/6010B (06-02-004-002)																				
Arsenic, Total, ICP	9.3	<RDL	3.6	17.6	mg/Kg	29.3		4.6	22.7	mg/Kg	12	<RDL	4.8	24	mg/Kg	16	<RDL	4.7	23.3	mg/Kg
Copper, Total, ICP	227		0.28	1.41	mg/Kg	284		0.36	1.81	mg/Kg	286		0.39	1.92	mg/Kg	301		0.37	1.86	mg/Kg
Lead, Total, ICP	396		2.1	10.6	mg/Kg	420		2.7	13.6	mg/Kg	237		2.9	14.4	mg/Kg	385		2.8	14	mg/Kg
Zinc, Total, ICP	574		0.36	1.76	mg/Kg	1240		0.46	2.27	mg/Kg	1580		0.48	2.4	mg/Kg	813		0.47	2.33	mg/Kg
M=OR EPA 3550B/8270C (7-3-01-004)																				
1,2,4-Trichlorobenzene		<MDL	23	44.9	ug/Kg		<MDL	60	116	ug/Kg		<MDL	64	124	ug/Kg		<MDL	51	99.1	ug/Kg
1,2-Dichlorobenzene		<MDL	23	44.9	ug/Kg		<MDL	60	116	ug/Kg		<MDL	64	124	ug/Kg		<MDL	51	99.1	ug/Kg
1,2-Diphenylhydrazine		<MDL	850	1690	ug/Kg		<MDL	2200	4400	ug/Kg		<MDL	2300	4680	ug/Kg		<MDL	1900	3740	ug/Kg
1,3-Dichlorobenzene		<MDL	23	44.9	ug/Kg		<MDL	60	116	ug/Kg		<MDL	64	124	ug/Kg		<MDL	51	99.1	ug/Kg
1,4-Dichlorobenzene		<MDL	11	22.5	ug/Kg		<MDL	29	58.2	ug/Kg		<MDL	31	62	ug/Kg		<MDL	25	49.5	ug/Kg
2,4,5-Trichlorophenol		<MDL	1000	2030	ug/Kg		<MDL	2600	5270	ug/Kg		<MDL	2800	5610	ug/Kg		<MDL	2200	4490	ug/Kg
2,4,6-Trichlorophenol		<MDL	1100	2200	ug/Kg		<MDL	2900	5710	ug/Kg		<MDL	3000	6080	ug/Kg		<MDL	2400	4860	ug/Kg
2,4-Dichlorophenol		<MDL	1400	2710	ug/Kg		<MDL	3500	7030	ug/Kg		<MDL	3700	7490	ug/Kg		<MDL	3000	5980	ug/Kg
2,4-Dimethylphenol		<MDL	590	1190	ug/Kg		<MDL	1500	3080	ug/Kg		<MDL	1600	3270	ug/Kg		<MDL	1300	2620	ug/Kg
2,4-Dinitrotoluene		<MDL	250	508	ug/Kg		<MDL	660	1320	ug/Kg		<MDL	700	1400	ug/Kg		<MDL	560	1120	ug/Kg
2,6-Dinitrotoluene		<MDL	850	1690	ug/Kg		<MDL	2200	4400	ug/Kg		<MDL	2300	4680	ug/Kg		<MDL	1900	3740	ug/Kg
2-Chloronaphthalene		<MDL	1400	2710	ug/Kg		<MDL	3500	7030	ug/Kg		<MDL	3700	7490	ug/Kg		<MDL	3000	5980	ug/Kg
2-Chlorophenol		<MDL	680	1360	ug/Kg		<MDL	1800	3520	ug/Kg		<MDL	1900	3740	ug/Kg		<MDL	1500	2990	ug/Kg
2-Methylnaphthalene		<MDL	1200	2370	ug/Kg		<MDL	3100	6150	ug/Kg		<MDL	3300	6550	ug/Kg		<MDL	2600	5230	ug/Kg
2-Methylphenol		<MDL	1400	2710	ug/Kg		<MDL	3500	7030	ug/Kg		<MDL	3700	7490	ug/Kg		<MDL	3000	5980	ug/Kg
2-Nitrophenol		<MDL	1300	2540	ug/Kg		<MDL	3300	6590	ug/Kg		<MDL	3500	7020	ug/Kg		<MDL	2800	5610	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	760	1530	ug/Kg		<MDL	2000	3960	ug/Kg		<MDL	2100	4210	ug/Kg		<MDL	1700	3360	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	1100	2200	ug/Kg		<MDL	2900	5710	ug/Kg		<MDL	3000	6080	ug/Kg		<MDL	2400	4860	ug/Kg
4-Methylphenol	1700	<RDL	1400	2710	ug/Kg		<MDL	3500	7030	ug/Kg		<MDL	3700	7490	ug/Kg		<MDL	3000	5980	ug/Kg
Acenaphthene	1000	<RDL	590	1190	ug/Kg		<MDL	1500	3080	ug/Kg		<MDL	1600	3270	ug/Kg		<MDL	1300	2620	ug/Kg
Acenaphthylene		<MDL	1300	2540	ug/Kg		<MDL	3300	6590	ug/Kg		<MDL	3500	7020	ug/Kg		<MDL	2800	5610	ug/Kg
Aniline		<MDL	1600	3220	ug/Kg		<MDL	4200	8350	ug/Kg		<MDL	4400	8890	ug/Kg		<MDL	3600	7100	ug/Kg
Anthracene	4170		340	678	ug/Kg	1910		880	1760	ug/Kg	4390		940	1870	ug/Kg	6360		750	1500	ug/Kg
Benzo(a)anthracene	19600		170	339	ug/Kg	11600		440	879	ug/Kg	30800		470	936	ug/Kg	35500		370	748	ug/Kg
Benzo(a)pyrene	26100		250	508	ug/Kg	19000		660	1320	ug/Kg	42600		700	1400	ug/Kg	50000		560	1120	ug/Kg
Benzo(b)fluoranthene	40700		250	508	ug/Kg	30500		660	1320	ug/Kg	77800		700	1400	ug/Kg	83200		560	1120	ug/Kg
Benzo(g,h,i)perylene	25000		680	1360	ug/Kg	20300		1800	3520	ug/Kg	42600		1900	3740	ug/Kg	44800		1500	2990	ug/Kg
Benzo(k)fluoranthene	26700		250	508	ug/Kg	30400		660	1320	ug/Kg	58200		700	1400	ug/Kg	58900		560	1120	ug/Kg

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SEA423173

King County Environmental Lab Analytical Report

PROJECT: 421168-40

	KCIA_V_1670	KCIA_V_1680	KCIA_V_1756	KCIA_V_1757
Locator:	KCIA_V_1670	KCIA_V_1680	KCIA_V_1756	KCIA_V_1757
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1670-060606	KCIA-1680-060606	KCIA-1756-060606	KCIA-1757-060606M
Sampled:	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006
Lab ID:	L39363-5	L39363-6	L39363-7	L39363-8
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	47.2	18.2	17.1	21.4

Locator KCIA_V_1670 (MDL, RDL - Dry Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
Benzoic Acid		<MDL	1100	5660	ug/Kg
Benzyl Alcohol		<MDL	510	1020	ug/Kg
Benzyl Butyl Phthalate	2610		510	1020	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	1400	2880	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	1300	2540	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	1300	2540	ug/Kg
Bis(2-Ethylhexyl)Phthalate	39000		570	1190	ug/Kg
Caffeine		<MDL	510	1020	ug/Kg
Carbazole	5610		590	1190	ug/Kg
Chrysene	32200		340	678	ug/Kg
Coprostanol		<MDL	1200	2370	ug/Kg
Dibenzo(a,h)anthracene	7480		590	1190	ug/Kg
Dibenzofuran	1400	<RDL	1200	2370	ug/Kg
Diethyl Phthalate		<MDL	510	1020	ug/Kg
Dimethyl Phthalate		<MDL	930	1860	ug/Kg
Di-N-Butyl Phthalate		<MDL	420	847	ug/Kg
Di-N-Octyl Phthalate		<MDL	680	1360	ug/Kg
Fluoranthene	52500		680	1360	ug/Kg
Fluorene	1700	<RDL	1100	1860	ug/Kg
Hexachlorobenzene		<MDL	57	113	ug/Kg
Hexachlorobutadiene		<MDL	64	127	ug/Kg
Hexachloroethane		<MDL	1300	2540	ug/Kg
Indeno(1,2,3-Cd)Pyrene	23300		760	1530	ug/Kg
Isophorone		<MDL	1600	3220	ug/Kg
Naphthalene		<MDL	1200	2370	ug/Kg
Nitrobenzene		<MDL	1400	2710	ug/Kg
N-Nitrosodimethylamine		<MDL	1700	3390	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	760	1530	ug/Kg
N-Nitrosodiphenylamine		<MDL	1700	3390	ug/Kg
Pentachlorophenol		<MDL	570	2270	ug/Kg
Phenanthrene	20900		340	678	ug/Kg
Phenol		<MDL	760	1530	ug/Kg
Pyrene	44500		340	678	ug/Kg
Pyridine		<MDL	2300	4510	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)					
Diesel Range (>C12-C24)	2000	H,TA	53	53	mg/Kg
Lube Oil Range (>C24)	8500	H,TA	53	53	mg/Kg

Locator KCIA_V_1680 (MDL, RDL - Dry Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
Benzoic Acid		<MDL	2900	14700	ug/Kg
Benzyl Alcohol		<MDL	1300	2640	ug/Kg
Benzyl Butyl Phthalate	3040		1300	2640	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	3700	7470	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	3300	6590	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	3300	6590	ug/Kg
Bis(2-Ethylhexyl)Phthalate	64300		1500	3080	ug/Kg
Caffeine		<MDL	1300	2640	ug/Kg
Carbazole	4750		1500	3080	ug/Kg
Chrysene	31300		880	1760	ug/Kg
Coprostanol		<MDL	3100	6150	ug/Kg
Dibenzo(a,h)anthracene	4050		1500	3080	ug/Kg
Dibenzofuran		<MDL	3100	6150	ug/Kg
Diethyl Phthalate		<MDL	1300	2640	ug/Kg
Dimethyl Phthalate		<MDL	2400	4840	ug/Kg
Di-N-Butyl Phthalate	2810		1100	2200	ug/Kg
Di-N-Octyl Phthalate		<MDL	1800	3520	ug/Kg
Fluoranthene	53300		1800	3520	ug/Kg
Fluorene		<MDL	2900	4840	ug/Kg
Hexachlorobenzene		<MDL	150	292	ug/Kg
Hexachlorobutadiene		<MDL	160	330	ug/Kg
Hexachloroethane		<MDL	3300	6590	ug/Kg
Indeno(1,2,3-Cd)Pyrene	18200		2000	3960	ug/Kg
Isophorone		<MDL	4200	8350	ug/Kg
Naphthalene		<MDL	3100	6150	ug/Kg
Nitrobenzene		<MDL	3500	7030	ug/Kg
N-Nitrosodimethylamine		<MDL	4400	8790	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	2000	3960	ug/Kg
N-Nitrosodiphenylamine		<MDL	4400	8790	ug/Kg
Pentachlorophenol		<MDL	1500	5880	ug/Kg
Phenanthrene	19100		880	1760	ug/Kg
Phenol		<MDL	2000	3960	ug/Kg
Pyrene	38500		880	1760	ug/Kg
Pyridine		<MDL	6000	11700	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)					
Diesel Range (>C12-C24)	2100	H,TA	140	140	mg/Kg
Lube Oil Range (>C24)	8200	H,TA	140	140	mg/Kg

Locator KCIA_V_1756 (MDL, RDL - Dry Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
Benzoic Acid		<MDL	3100	15600	ug/Kg
Benzyl Alcohol		<MDL	1400	2810	ug/Kg
Benzyl Butyl Phthalate	3510		1400	2810	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	4000	7950	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	3500	7020	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	3500	7020	ug/Kg
Bis(2-Ethylhexyl)Phthalate	56900		1600	3270	ug/Kg
Caffeine		<MDL	1400	2810	ug/Kg
Carbazole	7950		1600	3270	ug/Kg
Chrysene	67300		940	1870	ug/Kg
Coprostanol		<MDL	3300	6550	ug/Kg
Dibenzo(a,h)anthracene	10400		1600	3270	ug/Kg
Dibenzofuran		<MDL	3300	6550	ug/Kg
Diethyl Phthalate		<MDL	1400	2810	ug/Kg
Dimethyl Phthalate		<MDL	2600	5150	ug/Kg
Di-N-Butyl Phthalate		<MDL	1200	2340	ug/Kg
Di-N-Octyl Phthalate		<MDL	1900	3740	ug/Kg
Fluoranthene	106000		1900	3740	ug/Kg
Fluorene		<MDL	3000	5150	ug/Kg
Hexachlorobenzene		<MDL	160	311	ug/Kg
Hexachlorobutadiene		<MDL	180	351	ug/Kg
Hexachloroethane		<MDL	3500	7020	ug/Kg
Indeno(1,2,3-Cd)Pyrene	40200		2100	4210	ug/Kg
Isophorone		<MDL	4400	8890	ug/Kg
Naphthalene		<MDL	3300	6550	ug/Kg
Nitrobenzene		<MDL	3700	7490	ug/Kg
N-Nitrosodimethylamine		<MDL	4700	9360	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	2100	4210	ug/Kg
N-Nitrosodiphenylamine		<MDL	4700	9360	ug/Kg
Pentachlorophenol		<MDL	1600	6260	ug/Kg
Phenanthrene	33700		940	1870	ug/Kg
Phenol		<MDL	2100	4210	ug/Kg
Pyrene	76600		940	1870	ug/Kg
Pyridine		<MDL	6400	12500	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)					
Diesel Range (>C12-C24)	8100	H,TA	150	150	mg/Kg
Lube Oil Range (>C24)	25000	H,TA	150	150	mg/Kg

Locator KCIA_V_1757 (MDL, RDL - Dry Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
Benzoic Acid		<MDL	2500	12500	ug/Kg
Benzyl Alcohol		<MDL	1100	2240	ug/Kg
Benzyl Butyl Phthalate	4090		1100	2240	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	3200	6360	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	2800	5610	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	2800	5610	ug/Kg
Bis(2-Ethylhexyl)Phthalate	232000		1300	2620	ug/Kg
Caffeine		<MDL	1100	2240	ug/Kg
Carbazole	10500		1300	2620	ug/Kg
Chrysene	70100		750	1500	ug/Kg
Coprostanol		<MDL	2600	5230	ug/Kg
Dibenzo(a,h)anthracene	12900		1300	2620	ug/Kg
Dibenzofuran		<MDL	2600	5230	ug/Kg
Diethyl Phthalate		<MDL	1100	2240	ug/Kg
Dimethyl Phthalate		<MDL	2100	4110	ug/Kg
Di-N-Butyl Phthalate		<MDL	930	1870	ug/Kg
Di-N-Octyl Phthalate		<MDL	1500	2990	ug/Kg
Fluoranthene	132000		1500	2990	ug/Kg
Fluorene		<MDL	2400	4110	ug/Kg
Hexachlorobenzene		<MDL	130	249	ug/Kg
Hexachlorobutadiene		<MDL	140	280	ug/Kg
Hexachloroethane		<MDL	2800	5610	ug/Kg
Indeno(1,2,3-Cd)Pyrene	42500		1700	3360	ug/Kg
Isophorone		<MDL	3600	7100	ug/Kg
Naphthalene		<MDL	2600	5230	ug/Kg
Nitrobenzene		<MDL	3000	5980	ug/Kg
N-Nitrosodimethylamine		<MDL	3700	7480	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	1700	3360	ug/Kg
N-Nitrosodiphenylamine		<MDL	3700	7480	ug/Kg
Pentachlorophenol		<MDL	1300	5000	ug/Kg
Phenanthrene	47200		750	1500	ug/Kg
Phenol		<MDL	1700	3360	ug/Kg
Pyrene	100000		750	1500	ug/Kg
Pyridine		<MDL	5100	9950	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)					
Diesel Range (>C12-C24)	6300	H,TA	120	120	mg/Kg
Lube Oil Range (>C24)	13000	H,TA	120	120	mg/Kg

* Not converted to dry weight basis for this parameter

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SEA423174

King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1757
Descrip:	KC AIRPORT STORM W
Client Loc:	KCIA-1757-060606E
Sampled:	Jun 06, 2006
Lab ID:	L39396-1
Matrix:	IN-LINESED
% Solids:	57.6

Parameters	Value	Qual	MDL	RDL	Units
			- Dry Weight Basis		
COMBINED LABS					
M=CV EPA 9060-PSEP96 (03-04-002-003					
Total Organic Carbon	4510		1000	2080	mg/Kg
M=CV SM2540-G (03-01-007-002)					
Total Solids *	57.6		0.005	0.01	%
M=MT EPA 7471A (06-01-004-003)					
Mercury, Total, CVAA		<MDL	0.035	0.345	mg/Kg
M=MT EPA3050A/6010B (06-02-004-002)					
Arsenic, Total, ICP		<MDL	4.3	21.9	mg/Kg
Copper, Total, ICP	30.6		0.35	1.74	mg/Kg
Lead, Total, ICP	9.5	<RDL	2.6	13.1	mg/Kg
Zinc, Total, ICP	40.3		0.43	2.19	mg/Kg
M=OR EPA 3550B/8270C (7-3-01-004)					
1,2,4-Trichlorobenzene		<MDL	1.9	3.68	ug/Kg
1,2-Dichlorobenzene		<MDL	1.9	3.68	ug/Kg
1,2-Diphenylhydrazine		<MDL	69	139	ug/Kg
1,3-Dichlorobenzene		<MDL	1.9	3.68	ug/Kg
1,4-Dichlorobenzene		<MDL	0.92	1.84	ug/Kg
2,4,5-Trichlorophenol		<MDL	83	167	ug/Kg
2,4,6-Trichlorophenol		<MDL	90	181	ug/Kg
2,4-Dichlorophenol		<MDL	110	222	ug/Kg
2,4-Dimethylphenol		<MDL	49	97.2	ug/Kg
2,4-Dinitrotoluene		<MDL	21	41.7	ug/Kg
2,6-Dinitrotoluene		<MDL	69	139	ug/Kg
2-Chloronaphthalene		<MDL	110	222	ug/Kg
2-Chlorophenol		<MDL	56	111	ug/Kg
2-Methylnaphthalene		<MDL	97	194	ug/Kg
2-Methylphenol		<MDL	110	222	ug/Kg
2-Nitrophenol		<MDL	100	208	ug/Kg
4-Bromophenyl Phenyl Ether		<MDL	63	125	ug/Kg
4-Chlorophenyl Phenyl Ether		<MDL	90	181	ug/Kg
4-Methylphenol		<MDL	110	222	ug/Kg
Acenaphthene		<MDL	49	97.2	ug/Kg
Acenaphthylene		<MDL	100	208	ug/Kg
Aniline		<MDL	130	264	ug/Kg
Anthracene	62.8		28	55.6	ug/Kg
Benzo(a)anthracene	495		14	27.8	ug/Kg
Benzo(a)pyrene	741		21	41.7	ug/Kg
Benzo(b)fluoranthene	1310		21	41.7	ug/Kg
Benzo(g,h,i)perylene	736		56	111	ug/Kg
Benzo(k)fluoranthene	861		21	41.7	ug/Kg

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King County Environmental Lab Analytical Report

PROJECT. 421168-40

Locator:	KCIA_V_1757
Descrip:	KC AIRPORT STORM W
Client Loc:	KCIA-1757-060606E
Sampled:	Jun 06, 2006
Lab ID:	L39396-1
Matrix:	IN-LINESED
% Solids:	57.6

Parameters	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis			
COMBINED LABS					
Benzoic Acid	280	<RDL	92	464	ug/Kg
Benzyl Alcohol		<MDL	42	83.3	ug/Kg
Benzyl Butyl Phthalate	115		42	83.3	ug/Kg
Bis(2-Chloroethoxy)Methane		<MDL	120	236	ug/Kg
Bis(2-Chloroethyl)Ether		<MDL	100	208	ug/Kg
Bis(2-Chloroisopropyl)Ether		<MDL	100	208	ug/Kg
Bis(2-Ethylhexyl)Phthalate	63900		47	97.2	ug/Kg
Caffeine		<MDL	42	83.3	ug/Kg
Carbazole	132		49	97.2	ug/Kg
Chrysene	1010		28	55.6	ug/Kg
Coprostanol	1150		97	194	ug/Kg
Dibenzo(a,h)anthracene	184		49	97.2	ug/Kg
Dibenzofuran		<MDL	97	194	ug/Kg
Diethyl Phthalate		<MDL	42	83.3	ug/Kg
Dimethyl Phthalate		<MDL	76	153	ug/Kg
Di-N-Butyl Phthalate		<MDL	35	69.4	ug/Kg
Di-N-Octyl Phthalate	110	<RDL	56	111	ug/Kg
Fluoranthene	1910		56	111	ug/Kg
Fluorene		<MDL	90	153	ug/Kg
Hexachlorobenzene		<MDL	4.7	9.24	ug/Kg
Hexachlorobutadiene		<MDL	5.2	10.4	ug/Kg
Hexachloroethane		<MDL	100	208	ug/Kg
Indeno(1,2,3-Cd)Pyrene	684		63	125	ug/Kg
Isophorone		<MDL	130	264	ug/Kg
Naphthalene		<MDL	97	194	ug/Kg
Nitrobenzene		<MDL	110	222	ug/Kg
N-Nitrosodimethylamine		<MDL	140	278	ug/Kg
N-Nitrosodi-N-Propylamine		<MDL	63	125	ug/Kg
N-Nitrosodiphenylamine		<MDL	140	278	ug/Kg
Pentachlorophenol		<MDL	47	186	ug/Kg
Phenanthrene	703		28	55.6	ug/Kg
Phenol		<MDL	63	125	ug/Kg
Pyrene	1450		28	55.6	ug/Kg
Pyridine		<MDL	190	370	ug/Kg
M=OR WDOE NWTPH-DX (7-3-06-001)					
Diesel Range (>C12-C24)	1600	H,TA	43	43	mg/Kg
Lube Oil Range (>C24)					

* Not converted to dry weight basis for this parameter

KCSlip4 56864

SEA423176

King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1541	KCIA_V_1640	KCIA_V_1650	KCIA_V_1657
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1541-060806	KCIA-1640-060706	KCIA-1650-060706	KCIA-1657-060706
Sampled:	Jun 08, 2006	Jun 07, 2006	Jun 07, 2006	Jun 07, 2006
Lab ID:	L39361-1	L39361-2	L39361-3	L39361-4
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	32.3	25.4	17.8	32.2

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
			- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis		
COMBINED LABS																				
M=CV SM2540-G (03-01-007-002)																				
Total Solids *	32.3		0.005	0.01	%	25.4		0.005	0.01	%	17.8		0.005	0.01	%	32.2		0.005	0.01	%
M=ES NONE																				
Sample Function																				
M=OR EPA 3550B/8082 (7-3-03-002)																				
Aroclor 1016		<MDL	40	82.7	ug/Kg		<MDL	51	105	ug/Kg		<MDL	73	150	ug/Kg		<MDL	40	82.9	ug/Kg
Aroclor 1221		<MDL	40	82.7	ug/Kg		<MDL	51	105	ug/Kg		<MDL	73	150	ug/Kg		<MDL	40	82.9	ug/Kg
Aroclor 1232		<MDL	40	82.7	ug/Kg		<MDL	51	105	ug/Kg		<MDL	73	150	ug/Kg		<MDL	40	82.9	ug/Kg
Aroclor 1242		<MDL	40	82.7	ug/Kg		<MDL	51	105	ug/Kg		<MDL	73	150	ug/Kg		<MDL	40	82.9	ug/Kg
Aroclor 1248		<MDL	40	82.7	ug/Kg		<MDL	51	105	ug/Kg	248		73	150	ug/Kg	71	<RDL	40	82.9	ug/Kg
Aroclor 1254		<MDL	40	82.7	ug/Kg	152		51	105	ug/Kg	203		73	150	ug/Kg	75	<RDL	40	82.9	ug/Kg
Aroclor 1260		<MDL	40	82.7	ug/Kg	100	<RDL	51	105	ug/Kg	266		73	150	ug/Kg	97.2		40	82.9	ug/Kg

* Not converted to dry weight basis for this parameter

KCSlip4 56865

SEA423177

King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1670	KCIA_V_1680	KCIA_V_1756	KCIA_V_1757
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1670-060606	KCIA-1680-060606	KCIA-1756-060606	KCIA-1757-060606M
Sampled:	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006	Jun 06, 2006
Lab ID:	L39361-5	L39361-6	L39361-7	L39361-8
Matrix:	IN-LINESED	IN-LINESED	IN-LINESED	IN-LINESED
% Solids:	42.2	18.2	16.2	21.6

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
			- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis					- Dry Weight Basis		
COMBINED LABS																				
M=CV SM2540-G (03-01-007-002)																				
Total Solids *	42.2		0.005	0.01	%	18.2		0.005	0.01	%	16.2		0.005	0.01	%	21.6		0.005	0.01	%
M=ES NONE																				
Sample Function																				
M=OR EPA 3550B/8082 (7-3-03-002)																				
Aroclor 1016		<MDL	31	63.3	ug/Kg		<MDL	71	147	ug/Kg		<MDL	80	165	ug/Kg		<MDL	60	124	ug/Kg
Aroclor 1221		<MDL	31	63.3	ug/Kg		<MDL	71	147	ug/Kg		<MDL	80	165	ug/Kg		<MDL	60	124	ug/Kg
Aroclor 1232		<MDL	31	63.3	ug/Kg		<MDL	71	147	ug/Kg		<MDL	80	165	ug/Kg		<MDL	60	124	ug/Kg
Aroclor 1242		<MDL	31	63.3	ug/Kg		<MDL	71	147	ug/Kg		<MDL	80	165	ug/Kg		<MDL	60	124	ug/Kg
Aroclor 1248		<MDL	31	63.3	ug/Kg	725		71	147	ug/Kg		<MDL	80	165	ug/Kg	97	<RDL	60	124	ug/Kg
Aroclor 1254	115		31	63.3	ug/Kg	1040		71	147	ug/Kg	274		80	165	ug/Kg	328		60	124	ug/Kg
Aroclor 1260	172		31	63.3	ug/Kg	157		71	147	ug/Kg	265		80	165	ug/Kg	332		60	124	ug/Kg

* Not converted to dry weight basis for this parameter

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SEA423178

King County Environmental Lab Analytical Report

PROJECT: 421168-40

Locator:	KCIA_V_1680	KCIA_V_1757
Descrip:	KC AIRPORT STORM W	KC AIRPORT STORM W
Client Loc:	KCIA-1680-060606	KCIA-1757-060606E
Sampled:	Jun 06, 2006	Jun 06, 2006
Lab ID:	L39361-10	L39395-1
Matrix:	IN-LINESED	IN-LINESED
% Solids:	18.5	58.6

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		- Dry Weight Basis					- Dry Weight Basis			
COMBINED LABS										
M=CV SM2540-G (03-01-007-002)										
Total Solids *	18.5		0.005	0.01	%	58.6		0.005	0.01	%
M=ES NONE										
Sample Function	FREP@L39371-6				none					
M=OR EPA 3550B/8082 (7-3-03-002)										
Aroclor 1016		<MDL	70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1221		<MDL	70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1232		<MDL	70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1242		<MDL	70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1248	795		70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1254	1150		70	144	ug/Kg		<MDL	22	45.6	ug/Kg
Aroclor 1260	163		70	144	ug/Kg		<MDL	22	45.6	ug/Kg

* Not converted to dry weight basis for this parameter

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SEA423179

PROJECT: 421168-40

King County Environmental Lab Matrix Report

COMBINED LABS-Solid

Locator	Sample Depth	Lab ID	Total Organic Carbon	Total Solids *	Arsenic, Total, ICP	Copper, Total, ICP	Lead, Total, ICP	Mercury, Total, CVAA	Zinc, Total, ICP	4-Methylphenol	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Butyl Phthalate	Bis(2-Ethylhexyl)Phthalate	Carbazole	Chrysene	Coprostanol
			mg/Kg	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
KCIA_V_1541		L39363-1	86500	34.1	9.4	1550	190	0.13	1880				2230	2770	4520	3140	3280			53100		4690	34000
KCIA_V_1640		L39363-2	72000	25.7	23	233	463	0.21	1250	2800		1200	7160	11500	20500	11900	13900		2040	73200	3320	18900	25700
KCIA_V_1650		L39363-3	69800	17.2	34.4	567	744	0.24	1810			990	4530	7150	10000	7270	10600		3130	31600	2000	10800	
KCIA_V_1657		L39363-4	39800	32.2	14	204	263	0.2	1620			840	3730	6240	10400	6610	9910		1490	29400	1700	9970	
KCIA_V_1670		L39363-5	62700	47.2	9.3	227	396	0.3	574	1700	1000	4170	19600	26100	40700	25000	26700		2610	39000	5610	32200	
KCIA_V_1680		L39363-6	65900	18.2	29.3	284	420	0.24	1240			1910	11600	19000	30500	20300	30400		3040	64300	4750	31300	
KCIA_V_1756		L39363-7	52700	17.1	12	286	237	0.54	1580			4390	30800	42600	77800	42600	58200		3510	56900	7950	67300	
KCIA_V_1757		L39363-8	82700	21.4	16	301	385	0.24	813			6360	35500	50000	83200	44800	58900		4090	232000	10500	70100	
KCIA_V_1757		L39396-1	4510	57.6		30.6	9.5		40.3			62.8	495	741	1310	736	861	280	115	63900	132	1010	1150

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SEA423180

PROJECT: 421168-40

King County Environmental Lab Matrix Report

COMBINED LABS-Solid

Locator	Sample Depth	Lab ID	Di-N-Butyl Phthalate ug/Kg	Di-N-Octyl Phthalate ug/Kg	Dibenzo(a,h)anthracene ug/Kg	Dibenzofuran ug/Kg	Diesel Range (>C12-C24) mg/Kg	Fluoranthene ug/Kg	Fluorene ug/Kg	Indeno(1,2,3-Cd)Pyrene ug/Kg	Lube Oil Range (>C24) mg/Kg	Phenanthrene ug/Kg	Pyrene ug/Kg
KCIA_V_1541		L39363-1					11000	7420		2570	81000	3260	6770
KCIA_V_1640		L39363-2			3100		16000	33600		10300	8800	13700	26000
KCIA_V_1650		L39363-3	3150		2300			18000		6570	10000	6980	14100
KCIA_V_1657		L39363-4	710		1600		940	17100		5810	3500	6580	12800
KCIA_V_1670		L39363-5			7480	1400	2000	52500	1700	23300	8500	20900	44500
KCIA_V_1680		L39363-6	2810		4050		2100	53300		18200	8200	19100	38500
KCIA_V_1756		L39363-7			10400		8100	106000		40200	25000	33700	76600
KCIA_V_1757		L39363-8			12900		6300	132000		42500	13000	47200	100000
KCIA_V_1757		L39396-1		110	184		1600	1910		684		703	1450

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SEA423181

King County Environmental Lab Matrix Report

PROJECT: 421168-40

COMBINED LABS-Solid

Locator	Sample Depth	Lab ID	Total Solids *	Aroclor 1248	Aroclor 1254	Aroclor 1260
			%	ug/Kg	ug/Kg	ug/Kg
KCIA_V_1541		L39361-1	32.3			
KCIA_V_1640		L39361-2	25.4		152	100
KCIA_V_1650		L39361-3	17.8	248	203	266
KCIA_V_1657		L39361-4	32.2	71	75	97.2
KCIA_V_1670		L39361-5	42.2		115	172
KCIA_V_1680		L39361-6	18.2	725	1040	157
KCIA_V_1756		L39361-7	16.2		274	265
KCIA_V_1757		L39361-8	21.6	97	328	332
KCIA_V_1680		L39361-10	18.5	795	1150	163
KCIA_V_1757		L39395-1	58.6			

KCSlip4 56870

SEA423182

KING COUNTY ENVIRONMENTAL LABORATORY

Analytical Text Value Report

JUL 25 2006, 11:45

PROJECT:421168-40

SAMPLEN	PARM NAME	TEXT VALUE
L39363-1	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel. ; 20X dilution
L39363-1	Lube Oil Range (>C24)	frozen. ; 20X dilution
L39363-2	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel. ; 10X dilution
L39363-2	Lube Oil Range (>C24)	frozen. ; 10X dilution
L39363-3	Lube Oil Range (>C24)	frozen. ; 2X dilution
L39363-4	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel
L39363-4	Lube Oil Range (>C24)	frozen
L39363-5	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel. ; 4X dilution
L39363-5	Lube Oil Range (>C24)	frozen. ; 4X dilution
L39363-6	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel
L39363-6	Lube Oil Range (>C24)	frozen
L39363-7	Diesel Range (>C12-C24)	frozen. ; Weathered Diesel. ; 4X dilution
L39363-7	Lube Oil Range (>C24)	frozen. ; 4X dilution
L39363-8	Bis(2-Ethylhexyl)Phthalate	value from x 10 dilution
L39363-8	Diesel Range (>C12-C24)	frozen. ; No Diesel Pattern. ; 4X dilution
L39363-8	Lube Oil Range (>C24)	frozen. ; 4X dilution
L39396-1	Bis(2-Ethylhexyl)Phthalate	value from X 10 dilution
L39396-1	Diesel Range (>C12-C24)	frozen. ; calibrated as Hydraulic Fluid. ; 2X dilution

DESCRIPTION OF COMPREHENSIVE REPORT CONTENTS

Locator

Each sampling site is assigned a unique locator code which defines a unique geographic reference for that sampling point. Locators are also used to identify non-geographic samples in LIMS.

Sample Date

The sample date is labeled Sampled. It is the record of the month, day, and year the sample was collected.

Lab ID

Each sample receives a unique Lab sample number, so that all samples can be referenced by their sample numbers.

Matrix.

Matrix is the Lab's designation of the physical nature of the sample and source. There are four groups of matrices: liquids, solids, tissues, and air. The matrices and their codes are as follows.

LIQUID

OTHER WTR	LA
INFLUENT	LB
EFFLUENT	LC
DIG SLUDGE	LD
IW WTR	LE
SEWER WTR	LF
STORM WTR	LG
DRINK WTR	LH
GRND WTR	LJ
FRESH WTR	LK
SALT WTR	LL
FILTER WTR	LM
BLANK WTR	LN
SEPTAGE	LP
TCLP LEACH	LQ
RECON WTR	LR
SEM EXTRACT	LS
NON-WATER	LT

SOLIDS

OTHR SOLID	SA
SOIL	SB
COMPOST	SC
SLUDGE	SD
FRSHWTRSED	SE
SALTWTRSED	SF
IW SLUDGE	SG
IN-LINE SED	SH
SOLIDBLANK	SJ

TISSUES

OTHR TISS	TA
ALGAE	TB
PLANT	TC
SHELLFISH	TD
FISH	TE
CRAYFISH W	TF
CRAYFISH E	TG
ORGANS	TH

AIR

AIR BLANK	AA
AMBIENT AIR	AB
LANDFILL GAS	AC
SEWER GAS	AD

%Solids

The percent of the non-liquid (by weight) portion of the solid sample. All data are calculated and stored on a wet weight basis. The % Solid value is used, if requested, to normalize and report data on a dry weight basis. Each sample will be flagged either **Wet Weight Basis** or **Dry Weight Basis** in the report. Note that the conversion to a dry weight basis is not applicable to all parameters, such as pH and Particle Size Distribution. Parameters not converted to dry weight basis may included in the same column with dry weight results but will be noted with an *.

Parameters

Parameters (analytes tested for) are reported in sub-groups corresponding to the laboratory that tested for them. The sub-groups are: **organics, metals, conventionals, microbiology, field analysis, and toxicology.**

Value and Units

The value is the measurement of the parameter expressed in the appropriate units of measure. The units of measure are stated directly beneath the label ***Units***.

Qual (qualifiers)

See attached table on the reverse side.

MDL and RDL

The Method Detection Limit (MDL) is the minimum concentration of an analyte that can be measured and reported with 99% confidence that the true analyte concentration is greater than zero. The MDL value reported may be adjusted upward to eliminate false positives or meet qualitative requirements of the method.
The Reporting Detection Limit (RDL) is the minimum measured concentration of an analyte that can be reliably quantitated. The RDL is usually a multiple of the reported MDL.

Additional Information:

1. Significant Figures for reported values: As standard practice the Lab reports values above the RDL to 3 figures. Values below the RDL are reported to 2 figures. There are exceptions to the standard convention for microbiological, aquatic toxicology, field and some conventional data.
2. Precautions concerning data: It is possible to inadvertently commit errors in combining data points. **Matrix, Units and Analytical Method** should be consistent when combining or comparing data. Parameter name changes, analytical methods and detection limits have changed over time. Data storage practices have also changed. In the 1970's and 80's measured values that were below the detection limit were not always reported with a <MDL qualifier. The value reported may be the detection limit rather than a quantifiable response. If, in older data (i.e. 1970's) the lowest value in the series is repeated several times, the Lab should be contacted for clarification. Raw data such a instrument printouts and original data sheets may not be available for results generated prior to 1992. Confirmation of data collected prior to 1992 therefore may not be possible.

If you have questions, call the Info Systems and Data Analysis Unit: Kerry Tappel (684-2366) or Tom Georgianna (684-2370).

Revised: Aug. 15, 2002

see reverse side

Login Number: P39361 Page: 1

KC AIRPORT VAULT & CATCHDASIN SEDIMENTS - PCBS

Project Number: 421168-40 Personnel: Dana & Tammy

Sample Number	P39361-1	P39361-2	P39361-3
Locator	KCIA_V_1541	KCIA_V_1640	KCIA_V_1650
Short Loc Desc.	KCIA_1541	KCIA_1640	KCIA_1650
Locator Desc.	KC AIRPORT STORM WATER VAULT 1541	KC AIRPORT STORM WATER VAULT 1640	KC AIRPORT STORM WATER VAULT 1650
Site	METRO	METRO	METRO
Start Date/Time	6/8/06 @ 13:00	6/7/06 @ 14:30	6/7/06 @ 10:50
End Date/Time			
Sample Depth			
Collect Date			
Comments			
CLIENT LOC	KCIA-1541-060806	KCIA-1640-060706	KCIA-1650-060706
Dept., Matrix, Prod	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB

continue ...

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
Dana	6/6/06	16:00
RECEIVED BY	Date	Time
[illegible]	6/6/06	1600

Sam. ...mber(s) L39361-5,-6,-7,-8 (All)

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
RECEIVED BY	Date	Time

Sam. ...mber(s) (All)

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
Dana	6/7/06	1550
RECEIVED BY	Date	Time
[illegible]	6/7/06	1550

Sam. ...mber(s) L39361-2,-3,-4 (All)

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
Tammy	6/8/06	1500
RECEIVED BY	Date	Time
[illegible]	6/8/06	1500

Sam. ...mber(s) L39363-1 (All)

WG86659 7/11/06
R114461 7/11/06
7/12/06

KCSlip4 56873

SEA423185

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS - PCBS

Project Number: 421168-40 Personnel: DLH & TH

Sample Number	P39361-4	P39361-5	P39361-6
Locator	KCIA_V_1657	KCIA_V_1670	KCIA_V_1680
Short Loc. Desc.	KCIA_1657	KCIA_1670	KCIA_1680
Locator Desc.	KC AIRPORT STORM WATER VAULT 1657	KC AIRPORT STORM WATER VAULT 1670	KC AIRPORT STORM WATER VAULT 1680
Site	METRO	METRO	METRO
Start Date/Time	6/7/06 @ 12:10	6/6/06 @ 14:00	6/6/06 @ 12:40
End Date/Time			
Sample Depth			
Collect Date			
Comments			
CLIENT LOC	KCIA-1657-060706	KCIA-1670-060606	KCIA-1680-060606
Dept., Matrix, Prod	3 |IN-LINESED|TOTS 7 |IN-LINESED|PCB	3 |IN-LINESED|TOTS 7 |IN-LINESED|PCB	3 |IN-LINESED|TOTS 7 |IN-LINESED|PCB

continue ...

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS - PCBS

Project Number: 421168-40 Personnel: TH + DLH

Sample Number	P39361-7	P39361-8	P39361-9
Locator	KCIA_V_1756	KCIA_V_1757	KCIA_CB_1741
Short Loc. Desc.	KCIA_1756	KCIA_1757	KCIA_1741
Locator Desc.	KC AIRPORT STORM WATER VAULT 1756	KC AIRPORT STORM WATER VAULT 1757	KC AIRPORT STORM WATER CATCH BASIN
Site	METRO	METRO	METRO
Start Date/Time	6/6/06 @ 10:30	6/6/06 @ 0815	
End Date/Time			
Sample Depth			
Collect Date			
Comments		Middle location	
CLIENT LOC	KCIA-1756-060606	KCIA-1757-060606	
Dept., Matrix, Prod	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB

Login: Please Delete P39361-9 DLH

continue ...

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS - PCBS

Project Number: 421168-40 Personnel: DLH

Sample Number	P39361-10	
Locator	TEMP	
Short Loc Desc.	TEMPLOC	
Locator Desc.	Temporary Locator	
Site	TEMP	
Start Date/Time	6/6/06 @ 12:40	
End Date/Time		
Sample Depth		
Collect Date		
Comments	Field replicate	
CLIENT LOC	KCIA-1680-060606	
SAMP FUNC	FREP@L39361-6	
Dept., Matrix, Prod	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB	

End of Fieldsheet.

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS - PCB

Project Number: 421168.40 Personnel: DLH & TH

Sample Number	P39395-1
Locator	KCIA_V_1757
Short Loc. Desc.	KCIA_1757
Locator Desc.	KC AIRPORT STORM WATER VAULT 1757
Site	METRO
Start Date/Time	6/6/06 @ 0815
End Date/Time	
Sample Depth	
Collect Date	
Comments	Effluent location
CLIENT LOC	KCIA-1757-060606
Dept., Matrix, Prod	3 | IN-LINESED | TOTS 7 | IN-LINESED | PCB

End of Fieldsheet.

WG 82659 7/7/11/06
R114461 7/7/11/06

CHAIN OF CUSTODY

RELINQUISHED BY	Date 6/6/06	Time 15:50
RECEIVED BY	Date 6/6/06	Time 15:50
Sample Number(s) L39395-1 (All)		

KCSlip4 56877

SEA423189

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS

Project Number: 421168-40 Personnel: DLH & TH

Sample Number	P39363-1	P39363-2	P39363-3
Locator	KCIA_V_1541	KCIA_V_1640	KCIA_V_1650
Short Loc. Desc.	KCIA_1541	KCIA_1640	KCIA_1650
Locator Desc.	KC AIRPORT STORM WATER VAULT 1541	KC AIRPORT STORM WATER VAULT 1640	KC AIRPORT STORM WATER VAULT 1650
Site	METRO	METRO	METRO
Start Date/Time	6/8/06 @ 13:00	6/7/06 @ 14:30	6/7/06 @ 10:50
End Date/Time			
Sample Depth			
Collect Date			
Comments			
CLIENT LOC	KCIA-1541-060806	KCIA-1640-060706	KCIA-1650-060706
Dept , Matrix, Prod			
	3 IN-LINESED TOC	3 IN-LINESED TOC	3 IN-LINESED TOC
	3 IN-LINESED TOTS	3 IN-LINESED TOTS	3 IN-LINESED TOTS
	6 IN-LINESED AS-ICP	6 IN-LINESED AS-ICP	6 IN-LINESED AS-ICP
	6 IN-LINESED CU-ICP	6 IN-LINESED CU-ICP	6 IN-LINESED CU-ICP
	6 IN-LINESED HG-CVAA	6 IN-LINESED HG-CVAA	6 IN-LINESED HG-CVAA
	6 IN-LINESED PB-ICP	6 IN-LINESED PB-ICP	6 IN-LINESED PB-ICP
	6 IN-LINESED ZN-ICP	6 IN-LINESED ZN-ICP	6 IN-LINESED ZN-ICP
	7 IN-LINESED BNALL	7 IN-LINESED BNALL	7 IN-LINESED BNALL
	IN-LINESED WTPH-DX	IN-LINESED WTPH-DX	IN-LINESED WTPH-DX

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
[signature]	6/6/06	16:00
RECEIVED BY DLH	6/6/06	1600

Sam... ...mber(s) L39363-5;-6;7,8 (All)

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
RECEIVED BY	Date	Time

Sam... ...mber(s) (All)

continue ...

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
[signature]	6/7/06	1550
RECEIVED BY	Date	Time
[signature]	6/7/06	1550

Sam... ...mber(s) L39363-2,-3,-4 (All)

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
[signature]	6/8/06	1500
RECEIVED BY	Date	Time
[signature]	6/8/06	1500

Sam... ...mber(s) L39363-1 (All)

WG 826661 6/7/06
R114462 6/7/06
6/7/06

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS

Project Number: 421168-40 Personnel: DLH & TH

Sample Number	P39363-4	P39363-5	P39363-6
Locator	KCIA_V_1657	KCIA_V_1670	KCIA_V_1680
Short Loc. Desc.	KCIA_1657	KCIA_1670	KCIA_1680
Locator Desc.	KC AIRPORT STORM WATER VAULT 1657	KC AIRPORT STORM WATER VAULT 1670	KC AIRPORT STORM WATER VAULT 1680
Site	METRO	METRO	METRO
Start Date/Time	6/7/06 @ 12:10	6/6/06 @ 14:00	6/6/06 @ 12:40
End Date/Time			
Sample Depth			
Collect Date			
Comments			
CLIENT LOC	KCIA-1657-060706	KCIA-1670-060606	KCIA-1680-060606
Dept., Matrix, Prod			
	3 | IN-LINESED | TOC	3 | IN-LINESED | TOC	3 | IN-LINESED | TOC
	3 | IN-LINESED | TOTS	3 | IN-LINESED | TOTS	3 | IN-LINESED | TOTS
	6 | IN-LINESED | AS-ICP	6 | IN-LINESED | AS-ICP	6 | IN-LINESED | AS-ICP
	6 | IN-LINESED | CU-ICP	6 | IN-LINESED | CU-ICP	6 | IN-LINESED | CU-ICP
	6 | IN-LINESED | HG-CVAA	6 | IN-LINESED | HG-CVAA	6 | IN-LINESED | HG-CVAA
	6 | IN-LINESED | PB-ICP	6 | IN-LINESED | PB-ICP	6 | IN-LINESED | PB-ICP
	6 | IN-LINESED | ZN-ICP	6 | IN-LINESED | ZN-ICP	6 | IN-LINESED | ZN-ICP
	7 | IN-LINESED | BNALL	7 | IN-LINESED | BNALL	7 | IN-LINESED | BNALL
	7 | IN-LINESED | WTPH-DX	7 | IN-LINESED | WTPH-DX	7 | IN-LINESED | WTPH-DX

continue ...

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS

Project Number: 421168-40 Personnel: DLH & TH

Sample Number	P39363-7	P39363-8	P39363-9
Locator	KCIA_V_1756	KCIA_V_1757	KCIA_CB_1741
Short Loc. Desc.	KCIA_1756	KCIA_1757	KCIA_1741
Locator Desc.	KC AIRPORT STORM WATER VAULT 1756	KC AIRPORT STORM WATER VAULT 1757	KC AIRPORT STORM WATER CATCH BASIN
Site	METRO	METRO	METRO
Start Date/Time	6/6/06 @ 10:30	6/6/06 @ 0815	
End Date/Time			
Sample Depth			
Collect Date			
Comments		KCIA-1757-060606	
CLIENT LOC	KCIA-1756-060606	Middle Location	
Dept., Matrix, Prod			
	3 IN-LINESED TOC	3 IN-LINESED TOC	3 IN-LINESED TOC
	3 IN-LINESED TOTS	3 IN-LINESED TOTS	3 IN-LINESED TOTS
	6 IN-LINESED AS-ICP	6 IN-LINESED AS-ICP	6 IN-LINESED AS-ICP
	6 IN-LINESED CU-ICP	6 IN-LINESED CU-ICP	6 IN-LINESED CU-ICP
	6 IN-LINESED HG-CVAA	6 IN-LINESED HG-CVAA	6 IN-LINESED HG-CVAA
	6 IN-LINESED PB-ICP	6 IN-LINESED PB-ICP	6 IN-LINESED PB-ICP
	6 IN-LINESED ZN-ICP	6 IN-LINESED ZN-ICP	6 IN-LINESED ZN-ICP
	7 IN-LINESED BNALL	7 IN-LINESED BNALL	7 IN-LINESED BNALL
	7 IN-LINESED WTPH-DX	7 IN-LINESED WTPH-DX	7 IN-LINESED WTPH-DX

Login: Please Delete L39363-9 DLH

End of Fieldsheet.

KC AIRPORT VAULT & CATCHBASIN SEDIMENTS

Project Number: 42116B-40 Personnel: DLH & TH

Sample Number	P39396-1	
Locator	KCIA_V_1757	
Short Loc. Desc.	KCIA_1757	
Locator Desc.	KC AIRPORT STORM WATER VAULT 1757	
Site	METRO	
Start Date/Time	6/6/06 @ 0815	
End Date/Time		
Sample Depth		
Collect Date		
Comments	Effluent location	
CLIENT LOC		
Dept , Matrix, Prod		
	3 IN-LINESED TOC	
	3 IN-LINESED TOTS	
	6 IN-LINESED AS-ICP	
	6 IN-LINESED CU-ICP	
	6 IN-LINESED HG-CVAA	
	6 IN-LINESED PB-ICP	
	6 IN-LINESED ZN-ICP	
	7 IN-LINESED BNALL	
	7 IN-LINESED WTPH-DX	

End of Fieldsheet.

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
[signature]	6/6/06	15:50
RECEIVED BY	Date	Time
Sample Number(s)		
39396-1		(All)

WG86661 JB 7/11/06
R114462 JB 7/11/06

KCSlip4 56881

SEA423193

Figure 2

KING COUNTY ENVIRONMENTAL LABORATORY *322 West Ewing Street Seattle, WA 98119*

LABORATORY WORK ORDER

Project Name: KCIA - Sediment Sampling of Stormwater Structures

Project Number: 421168.040

Laboratory Project Manager: Fritz Grothkopp

Samplers: DLH & TH

Sample #	Matrix	Collect Date	Collect Time	PCBs (EPA 8082)	SVOCs (EPA 8270)	Metals-As/Cu/Pb/Hg/Zn (EPA 200.8/245.1)	Total Organic Carbon (EPA 9060)	Total Solids (SM 2540-G)	TPH - Diesel- and Oil-Range (NWTPH-Dx)				No. of Containers	Comments
KCIA-1541-	Stormwater Vault Sediment													
KCIA-1540-	Stormwater Vault Sediment													
KCIA-1650-	Stormwater Vault Sediment													
KCIA-1657-	Stormwater Vault Sediment													
KCIA-1570-060606	Stormwater Vault Sediment	6/6/06	14:00	X	X	X	X	X	X				6	Collection duration 14:00 - 15:00
KCIA-1680-060606	Stormwater Vault Sediment	6/6/06	12:40	X	X	X	X	X	X				6	collection duration 12:40 - 13:45
KCIA-1756-060606	Stormwater Vault Sediment	6/6/06	10:30	X	X	X	X	X	X				6	collection duration 10:30 - 11:45
KCIA-1757-060606	Stormwater Vault Sediment	6/6/06	~~0815~~ 0815 DLH	X	X	X	X	X	X				6	collection duration 8:15 - 10:15 (Middle)
KCIA-1680-060606	Stormwater Vault Sediment	6/6/06	12:40	X				X					2	Field Duplicate
KCIA-1757-060606	"	6/6/06	0815	X	X	X	X	X	X				6	(Effluent) collection Duration 8:15 - 10:15

Total # of containers: ~~26~~ 32 DLH

Additional Comments:

PCB analysis and Total Solids analysis to be conducted on a 1-week turnaround time. All other analyses to be conducted on a normal turnaround time.

RELINQUISHED BY		Date	RECEIVED BY		Date
Signature	Dana Heinz	6/6/06	Signature		6/10/06
Printed Name	DANA HEINZ	Time 15:56	Printed Name	TODD GOWING	Time 1550
Organization	Industrial Waste		Organization	KCEL	

KCSlip4 56882

SEA423194

Figure 2

KING COUNTY ENVIRONMENTAL LABORATORY

322 West Ewing Street Seattle WA 98119

LABORATORY WORK ORDER

Project Name: KCIA - Sediment Sampling of Stormwater Structures

Project Number: 421168.040

Laboratory Project Manager: Fritz Grothkopp

Samplers: DH + TH

Sample #	Matrix	Collect Date	Collect Time	PCBs (EPA 8082)	SVOCs (EPA 8270)	Metals-As/Cu/Pb/Hg/Zn (EPA 200.8/245.1)	Total Organic Carbon (EPA 9060)	Total Solids (SM 2540-G)	TPH - Diesel- and Oil-Range (NWTPH-Dx)	No. of Containers	Comments
KCIA-1541-	Stormwater Vault Sediment									5	
KCIA-1640- 060706	Stormwater Vault Sediment	6/7/06	14:30	X	X	X	X	X	X	6	Collection Duration 14:30 - 15:20
KCIA-1650- 060706	Stormwater Vault Sediment	6/7/06	10:50	X	X	X	X	X	X	6	Collection Duration 10:50 - 11:50
KCIA-1657- 060706	Stormwater Vault Sediment	6/7/06	12:10	X	X	X	X	X	X	6	Collection Duration 12:10 - 13:00
KCIA-1670-	Stormwater Vault Sediment									5	
KCIA-1680-	Stormwater Vault Sediment									5	
KCIA-1756-	Stormwater Vault Sediment									5	
KCIA-1757-	Stormwater Vault Sediment									5	
KCIA-1554-	Stormwater Vault Sediment									5	
KCIA-1575-	Stormwater Vault Sediment									5	
KCIA-1741-	Stormwater Catch Basin Sediment									5	
KCIA-	Stormwater Vault Sediment									2	Field Duplicate
									Total # of containers:	18	

Additional Comments:

PCB analysis and Total Solids analysis to be conducted on a 1-week turnaround time. All other analyses to be conducted on a normal turnaround time.

RELINQUISHED BY		Date	RECEIVED BY		Date
Signature	Dana H	6/7/06	Signature		6/7/06
Printed Name	DANA HEINZ	Time 1550	Printed Name	TODD GOWLING	Time 1550
Organization	Industrial Waste		Organization	KCEL	

KCSlip4 56883

SEA423195

Figure 2

KING COUNTY ENVIRONMENTAL LABORATORY 322 West Ewing Street Seattle, WA 98119

LABORATORY WORK ORDER

Project Name: KCIA - Sediment Sampling of Stormwater Structures

Project Number: 421168.040

Laboratory Project Manager: Fritz Grothkopp

Samplers: DH & TH

Sample #	Matrix	Collect Date	Collect Time	PCBs (EPA 8082)	SVOCs (EPA 8270)	Metals-As/Cu/Pb/Hg/Zn (EPA 200.8/245.1)	Total Organic Carbon (EPA 9060)	Total Solids (SM 2540-G)	TPH - Diesel- and Oil-Range (NWTPH-Dx)	No. of Containers	Comments
KCIA-1541-	Stormwater Vault Sediment	6/8/06	13:00	X	X	X	X	X	X	6	Collection Duration 13:00 - 14:00
KCIA-1640-	Stormwater Vault Sediment										
KCIA-1650-	Stormwater Vault Sediment										
KCIA-1657-	Stormwater Vault Sediment										
KCIA-1670-	Stormwater Vault Sediment										
KCIA-1680-	Stormwater Vault Sediment										
KCIA-1756-	Stormwater Vault Sediment										
KCIA-1757-	Stormwater Vault Sediment										
KCIA-	Stormwater Vault Sediment										Field Duplicate
									Total # of containers:	6	

Additional Comments:

PCB analysis and Total Solids analysis to be conducted on a 1-week turnaround time. All other analyses to be conducted on a normal turnaround time.

RELINQUISHED BY		RECEIVED BY	
Signature	Dana Heinz	Signature	
Printed Name	DANA HEINZ	Printed Name	TODD GOWING
Organization		Organization	
Date	6/8/06	Date	6/8/06
Time	15:00	Time	1500

KCSlip4 56884

SEA423196

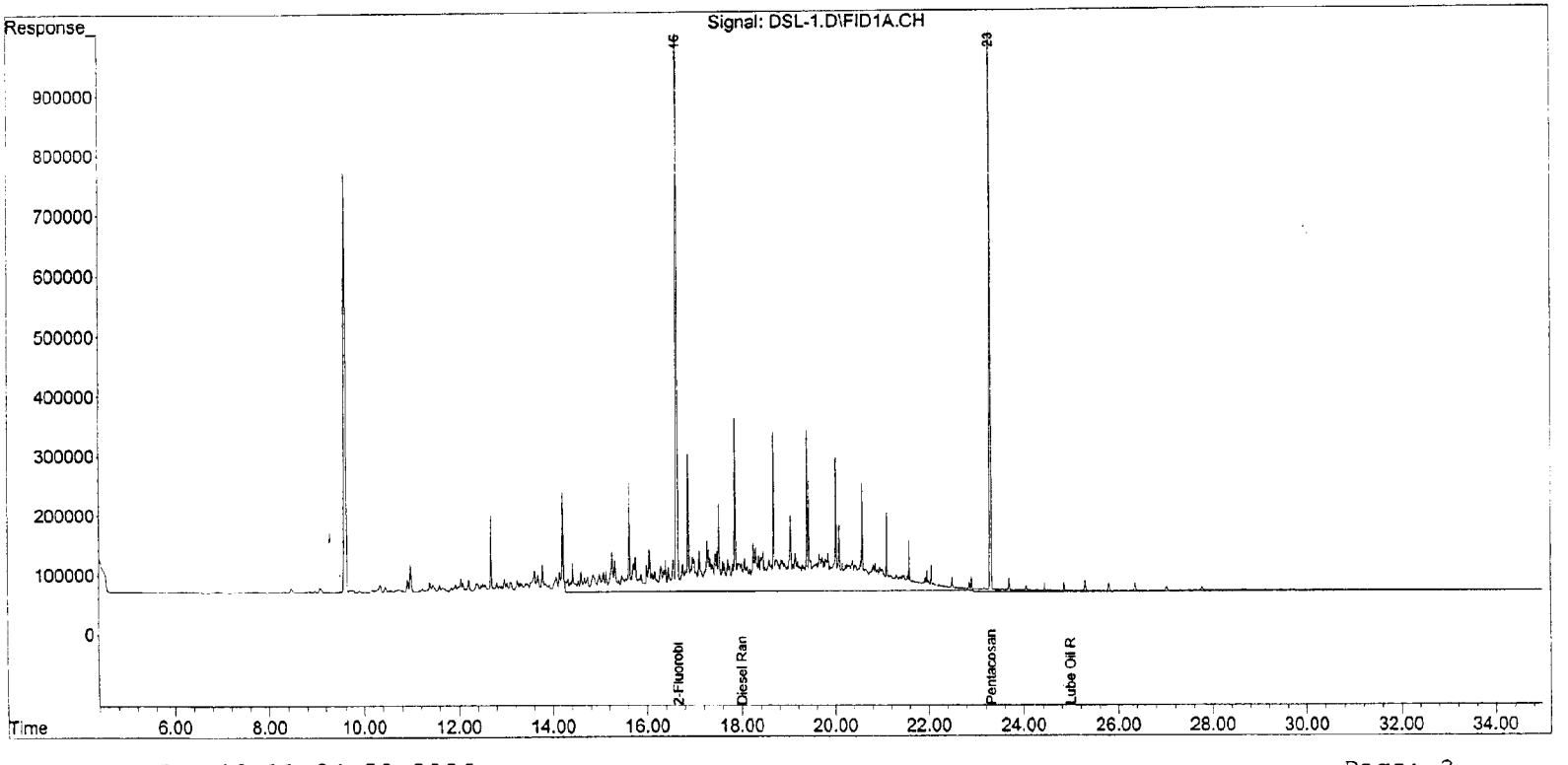
Quantitation Report (QT Reviewed)

Data Path : S:\MSDChem\1\data\060619\
Data File : DSL-1.D
Signal(s) : FID1A.CH
Acq On : 19 Jun 2006 10:35 am
Operator : G. Nerlin
Sample : 1239.1E Dsl 250/50
Misc : mix (x)
ALS Vial : 3 Sample Multiplier: 1

Diesel

Integration File: autoint1.e
Quant Time: Jun 19 11:24:44 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56885
SEA423197

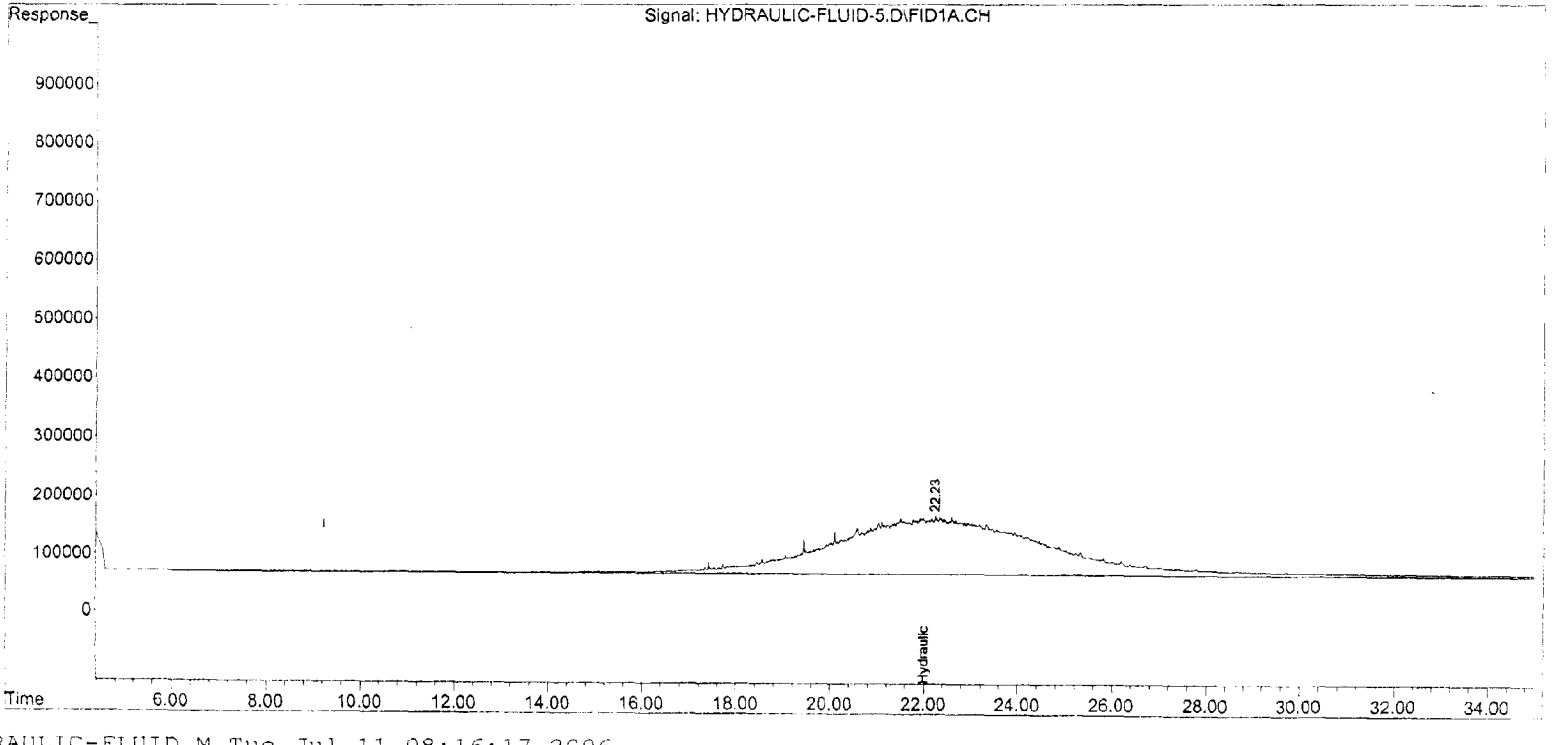
Quantitation Report (Not Reviewed)

Data Path : S:\MSDChem\1\data\060710HYDRAULIC\
Data File : HYDRAULIC-FLUID-5.D
Signal(s) : FID1A.CH
Acq On : 10 Jul 2006 6:30 pm
Operator : G. NERLIN
Sample : #1288C hydraulic fluid; 350 UG/ML
Misc : mix [x]
ALS Vial : 4 Sample Multiplier: 1

Hydrolic Fluid

Integration File: autoint1.e
Quant Time: Jul 11 08:16:16 2006
Quant Method : S:\MSDCHEM\1\DATA\060710HYDRAULIC\HYDRAULIC-FLUID.M
Quant Title : wtph-dx
QLast Update : Mon Jul 10 15:33:31 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56886
SEA423198

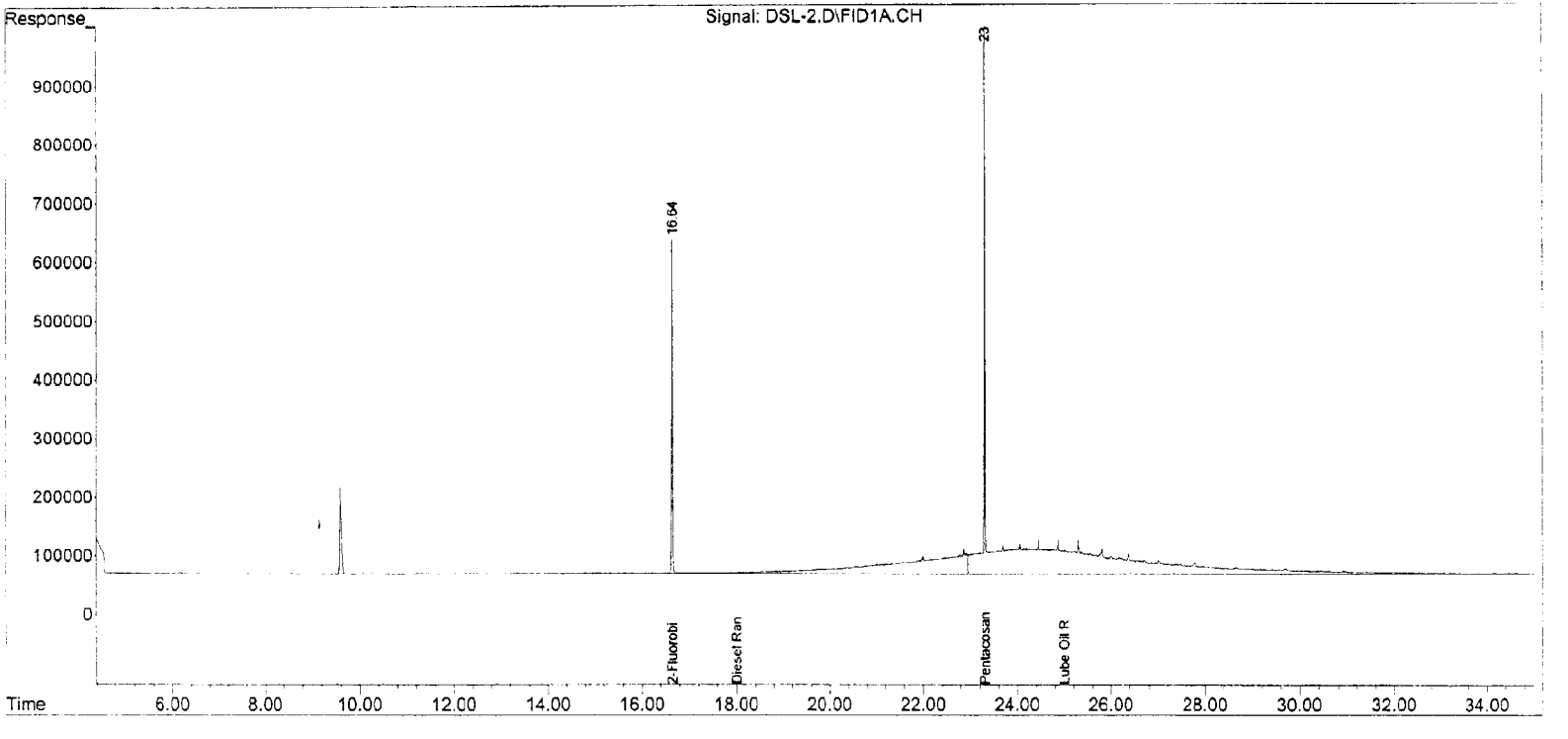
Quantitation Report (QT Reviewed)

Data Path : S:\MSDChem\1\data\060619\
Data File : DSL-2.D
Signal(s) : FID1A.CH
Acq On : 19 Jun 2006 11:20 am
Operator : G. Nerlin
Sample : 1100.2C MO 200/10
Misc : mix (y)
ALS Vial : 4 Sample Multiplier: 1

Lube oil

Integration File: autoint1.e
Quant Time: Jun 19 13:18:07 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56887
SEA423199

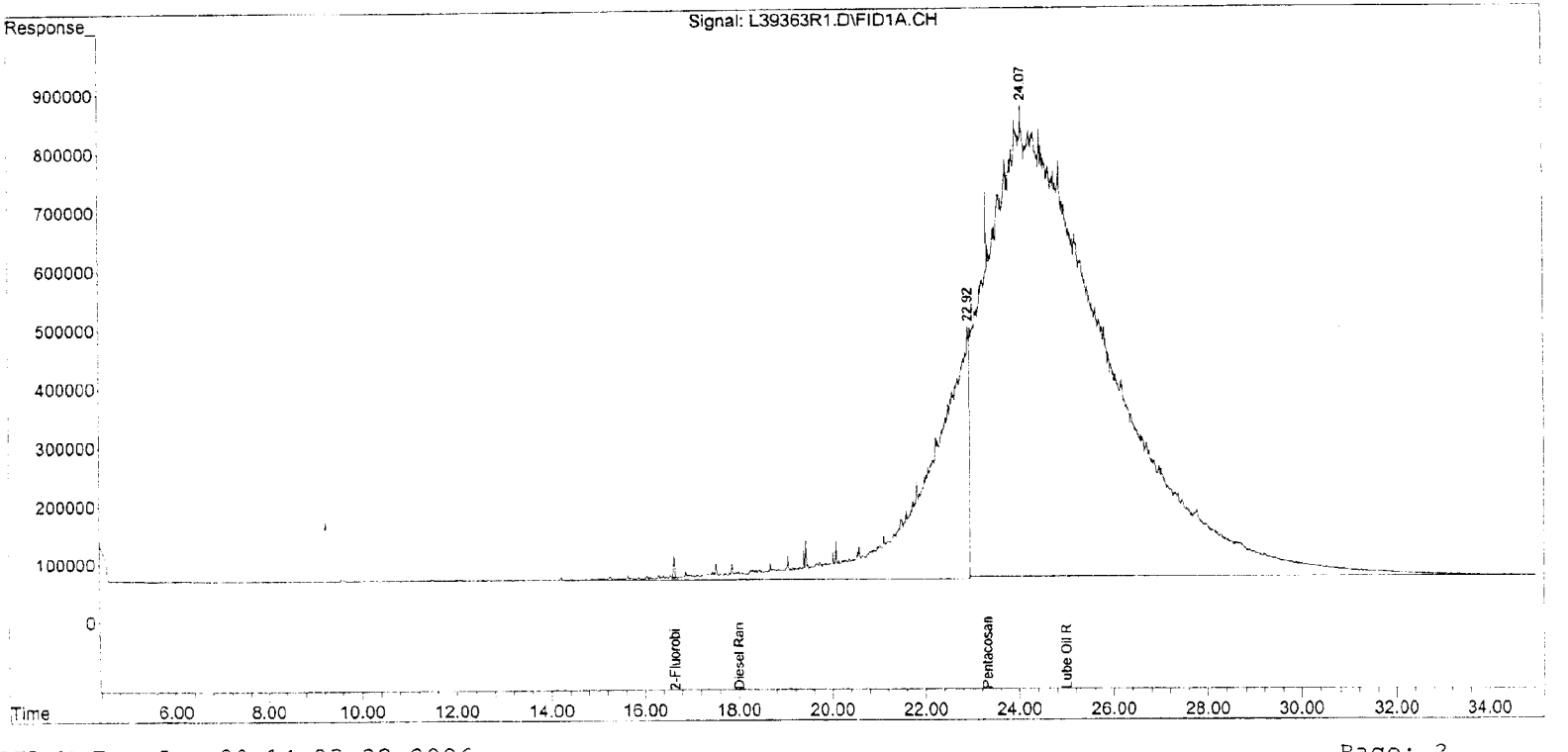
Quantitation Report (QT Reviewed)

L39363-1

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363R1.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 1:36 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP; 20X DIL
Misc : WG86187; WTPH-DS#184; 1275;20X DIL
ALS Vial : 31 Sample Multiplier: 200

Integration File: autoint1.e
Quant Time: Jun 20 14:22:23 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56888
SEA423200

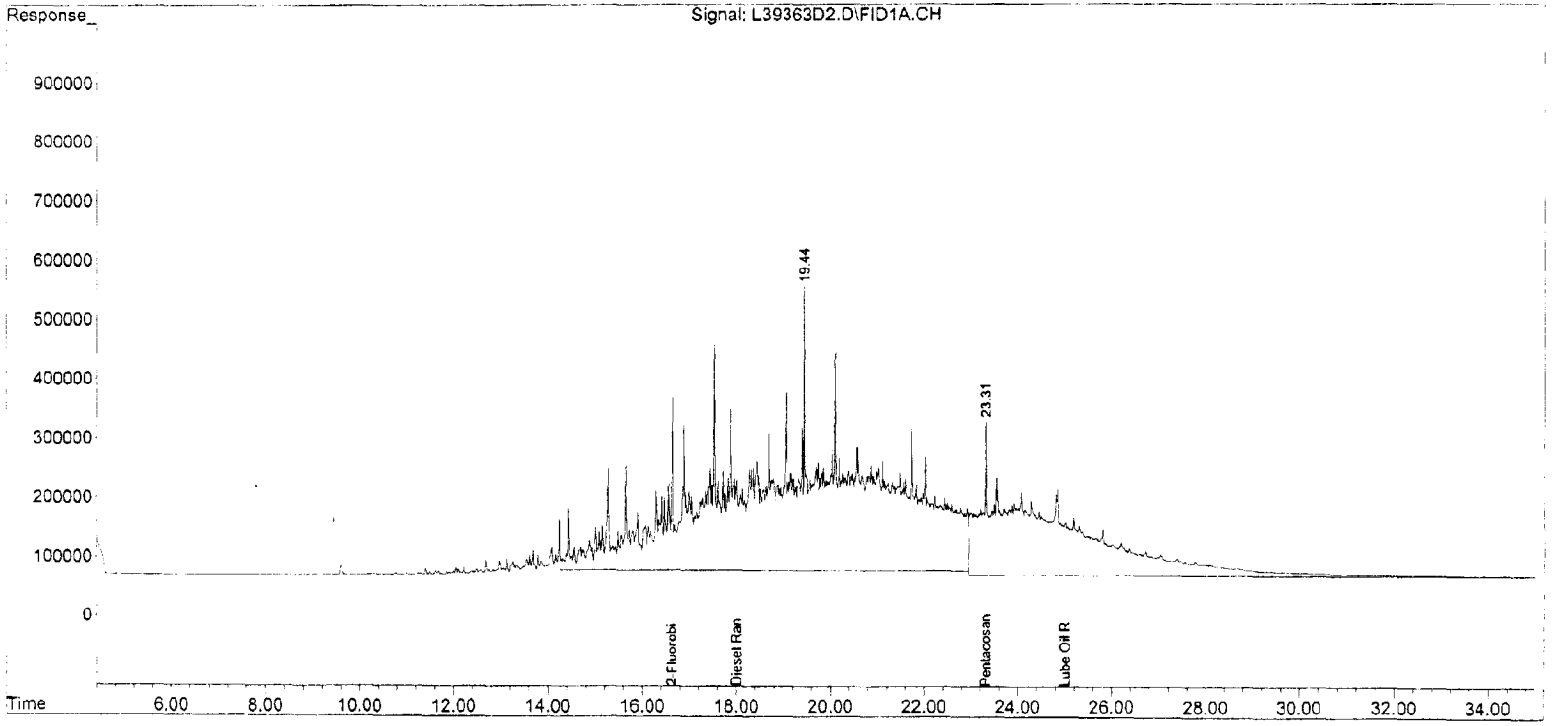
Quantitation Report (QT Reviewed)

L39363-2

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363D2.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 2:21 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP; 10X DIL
Misc : WG86187; WTPH-DS#184; 1275;10X DIL
ALS Vial : 32 Sample Multiplier: 100

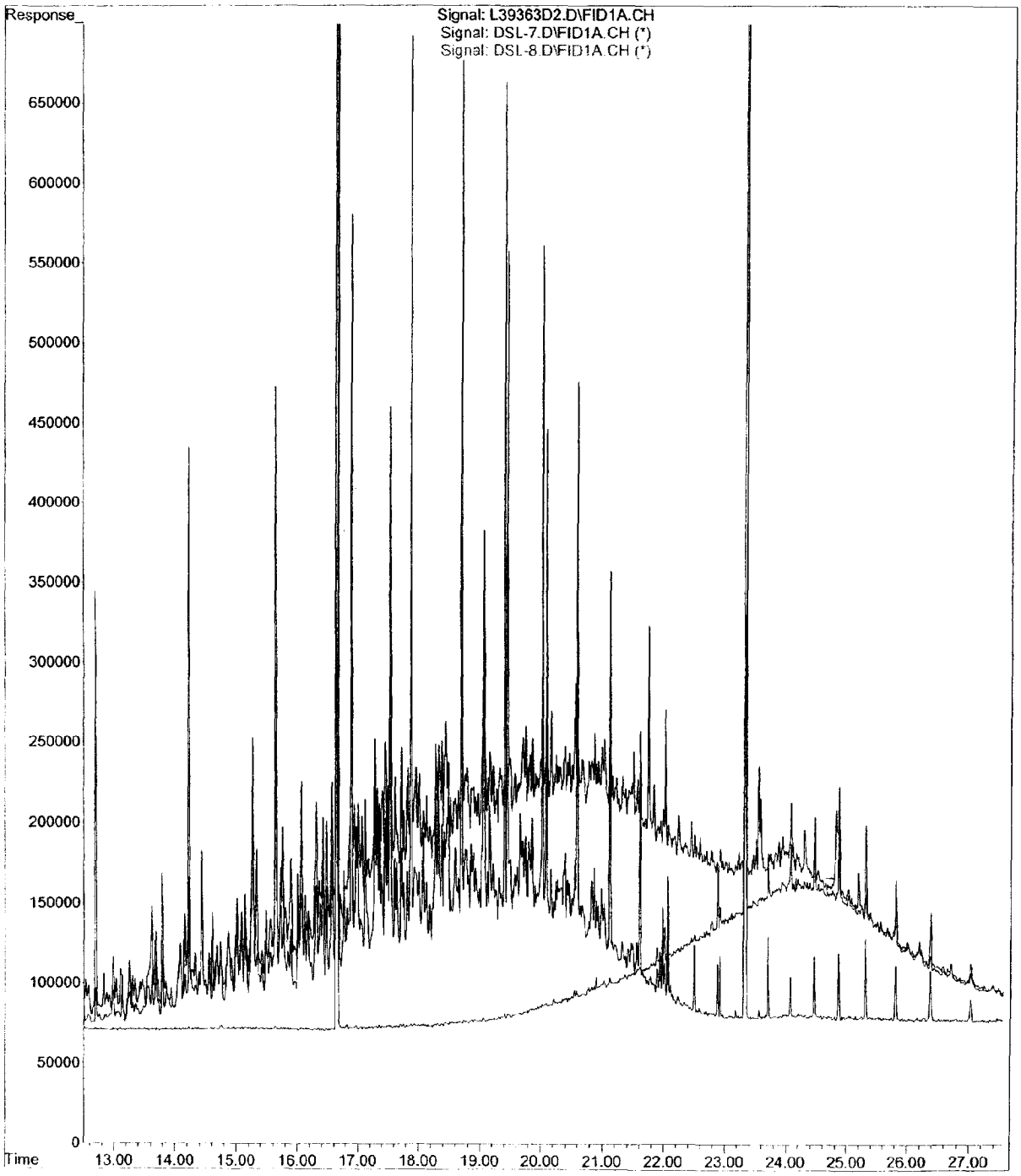
Integration File: autoint1.e
Quant Time: Jun 20 15:06:24 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56889
SEA423201

File : S:\MSDCHEM\1\DATA\060619\L39363D2.D L39363-2
Operator : G. Nerlin
Acquired : 20 Jun 2006 2:21 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP; 10X DIL
Misc Info : WG86187; WTPH-DS#184; 1275;10X DIL
Vial Number: 32



KCSlip4 56890

SEA423202

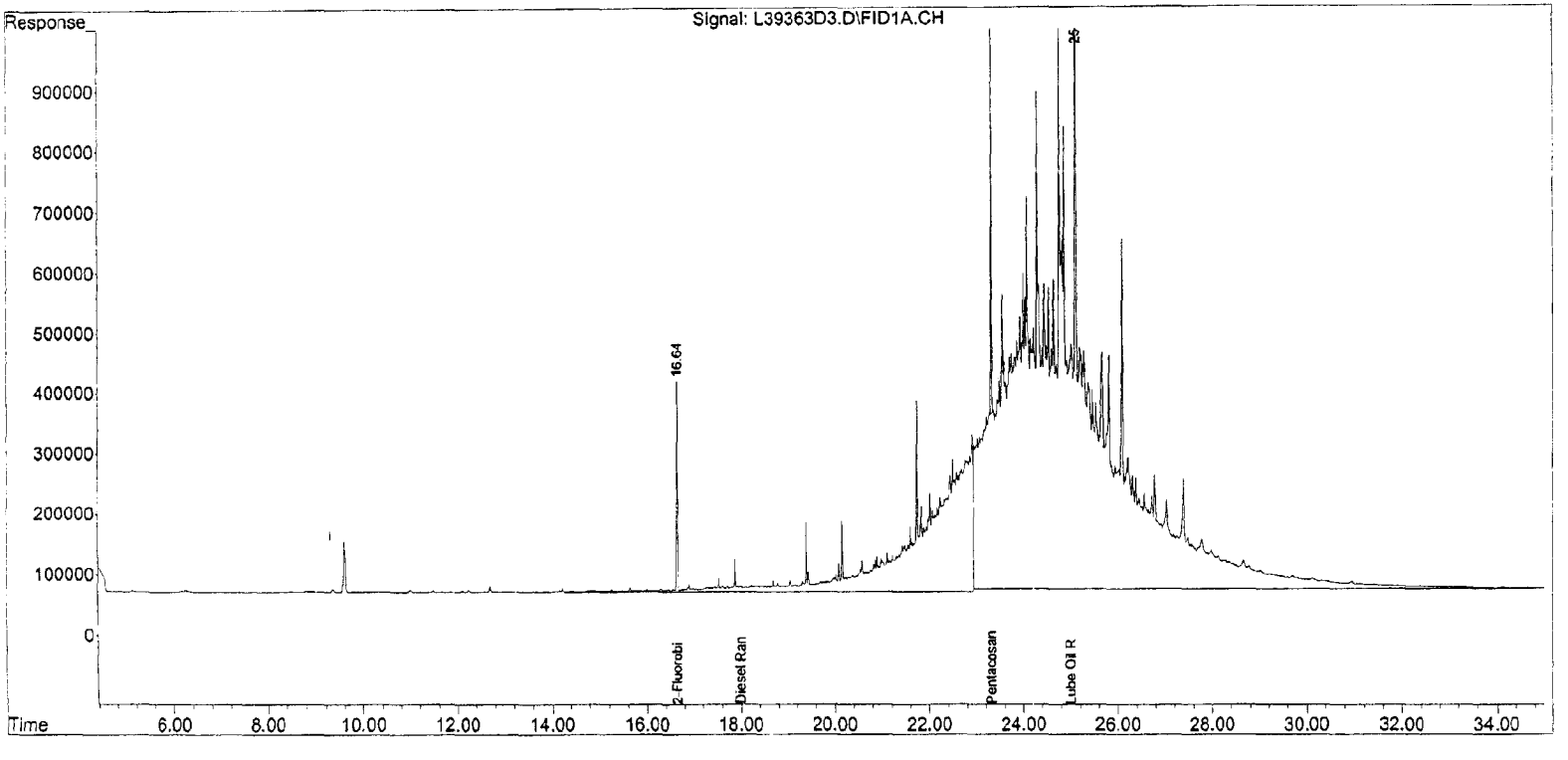
Quantitation Report (QT Reviewed)

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363D3.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 3:07 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP;2X DIL
Misc : WG86187; WTPH-DS#184; 1275;2X DIL
ALS Vial : 34 Sample Multiplier: 20

L39363-3

Integration File: autoint1.e
Quant Time: Jun 20 15:45:02 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

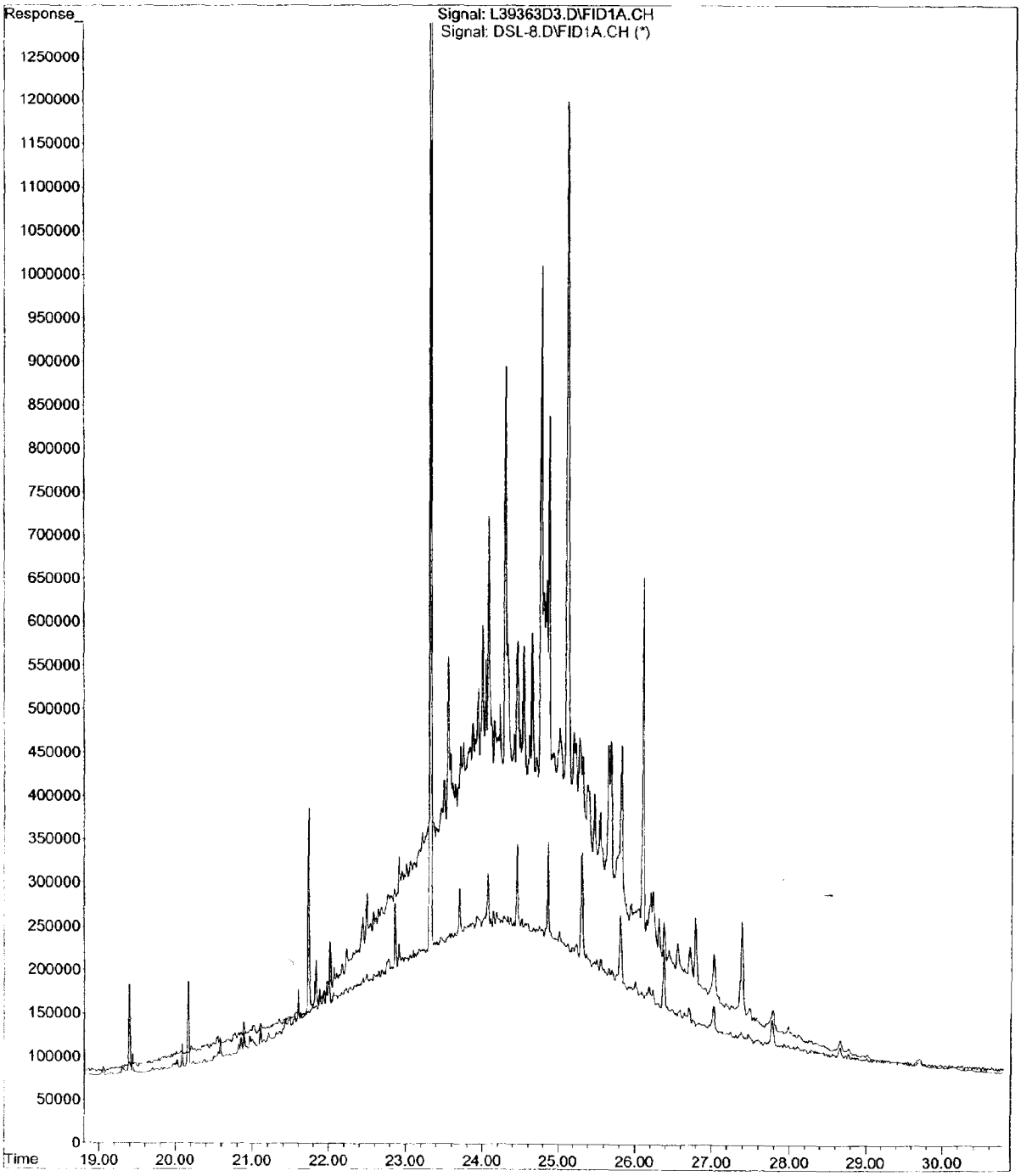
Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56891
SEA423203

L39363-3

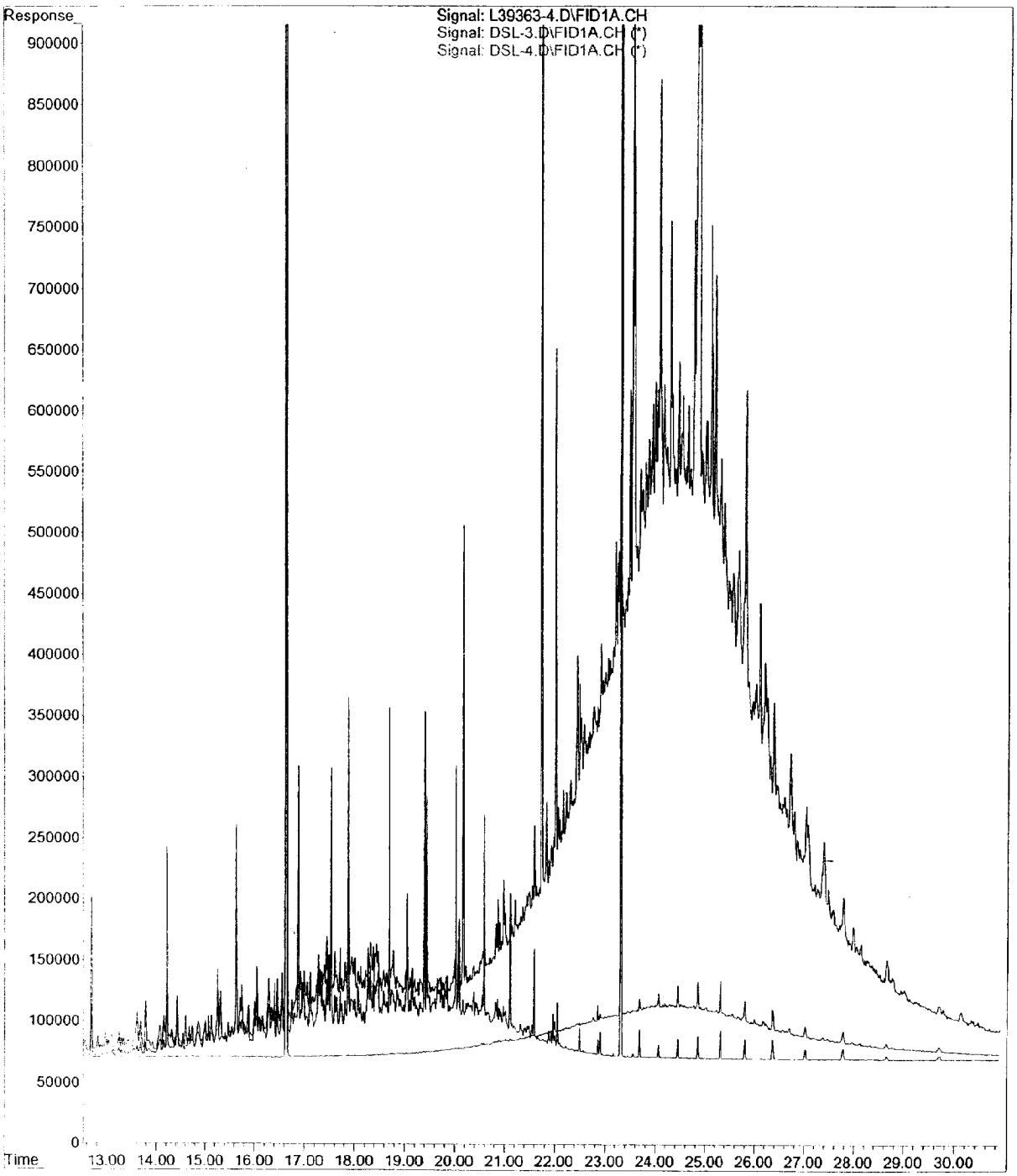
File : S:\MSDCHEM\1\DATA\060619\L39363D3.D
Operator : G. Nerlin
Acquired : 20 Jun 2006 3:07 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP;2X DIL
Misc Info : WG86187; WTPH-DS#184; 1275;2X DIL
Vial Number: 34



KCSlip4 56892

SEA423204

File : S:\MSDChem\1\data\060619\L39363-4.D L39363-4
Operator : G. Nerlin
Acquired : 20 Jun 2006 5:20 am using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP
Misc Info : WG86187; WTPH-DS#184; 1275
Vial Number: 22

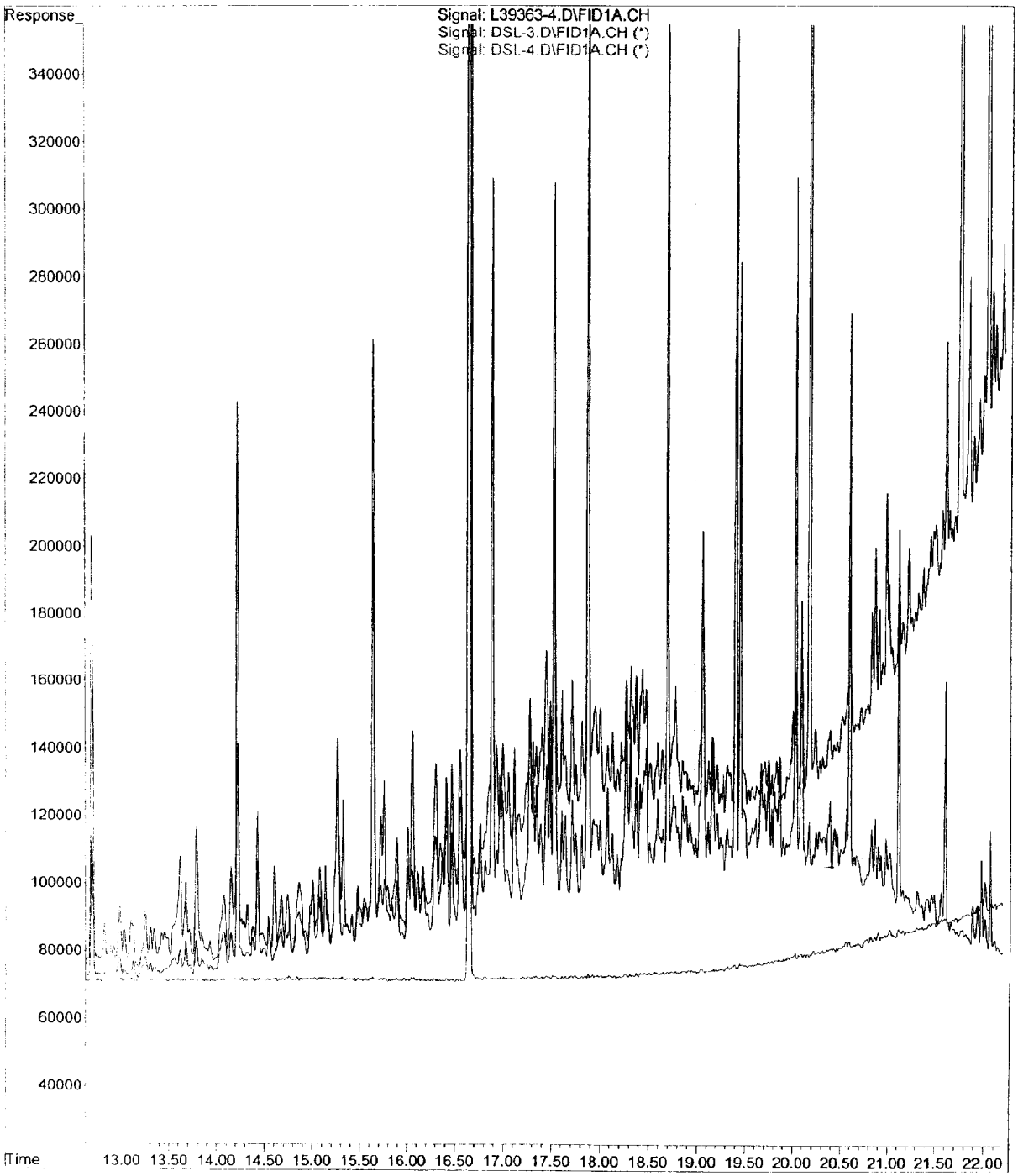


KCSlip4 56893

SEA423205

L39363-4

File : S:\MSDChem\1\data\060619\L39363-4.D
Operator : G. Nerlin
Acquired : 20 Jun 2006 5:20 am using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP
Misc Info : WG86187; WTPH-DS#184; 1275
Vial Number: 22



KCSlip4 56894

SEA423206

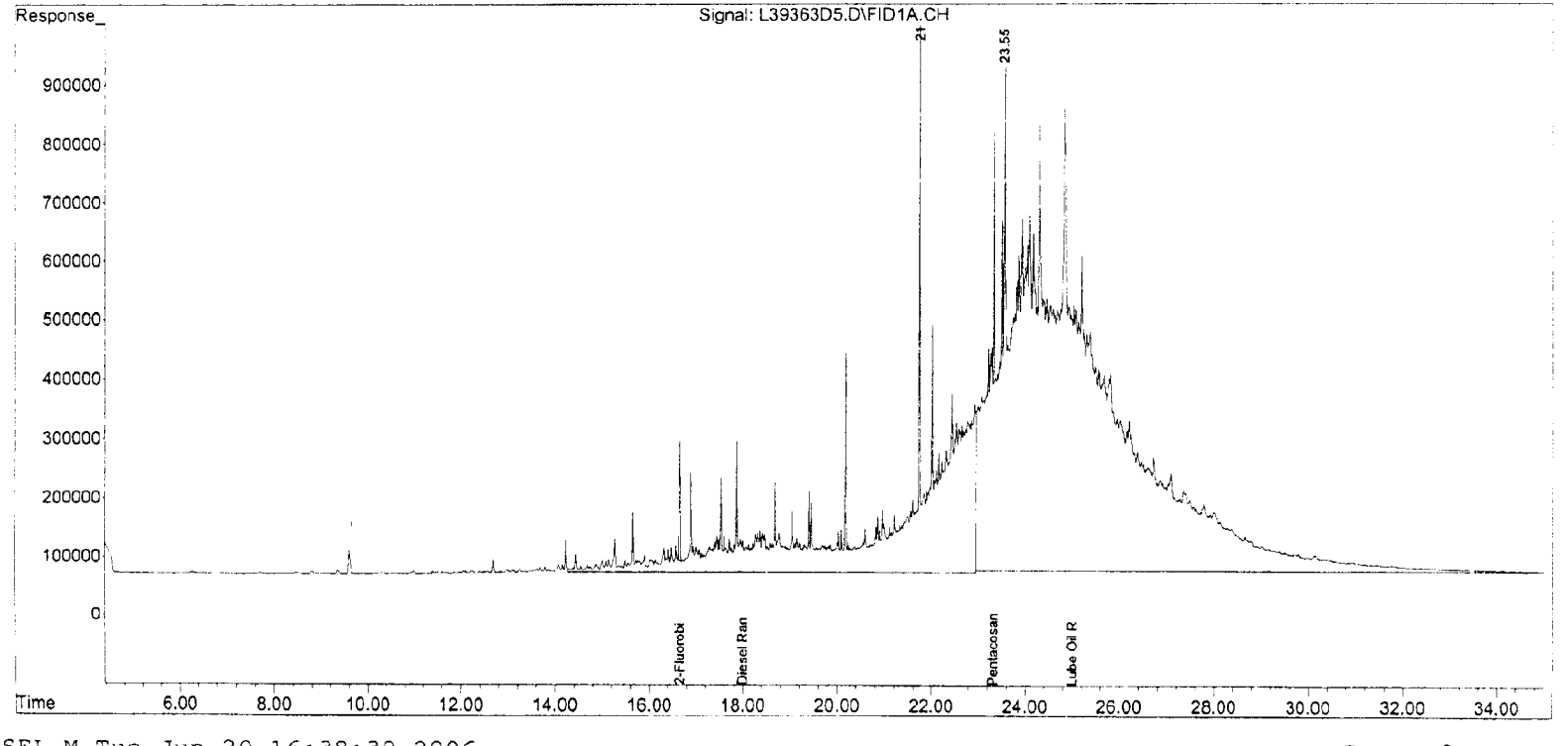
Quantitation Report (QT Reviewed)

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363D5.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 3:52 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP;4X DIL
Misc : WG86187; WTPH-DS#184; 1275;4X DIL
ALS Vial : 35 Sample Multiplier: 40

L39363-5

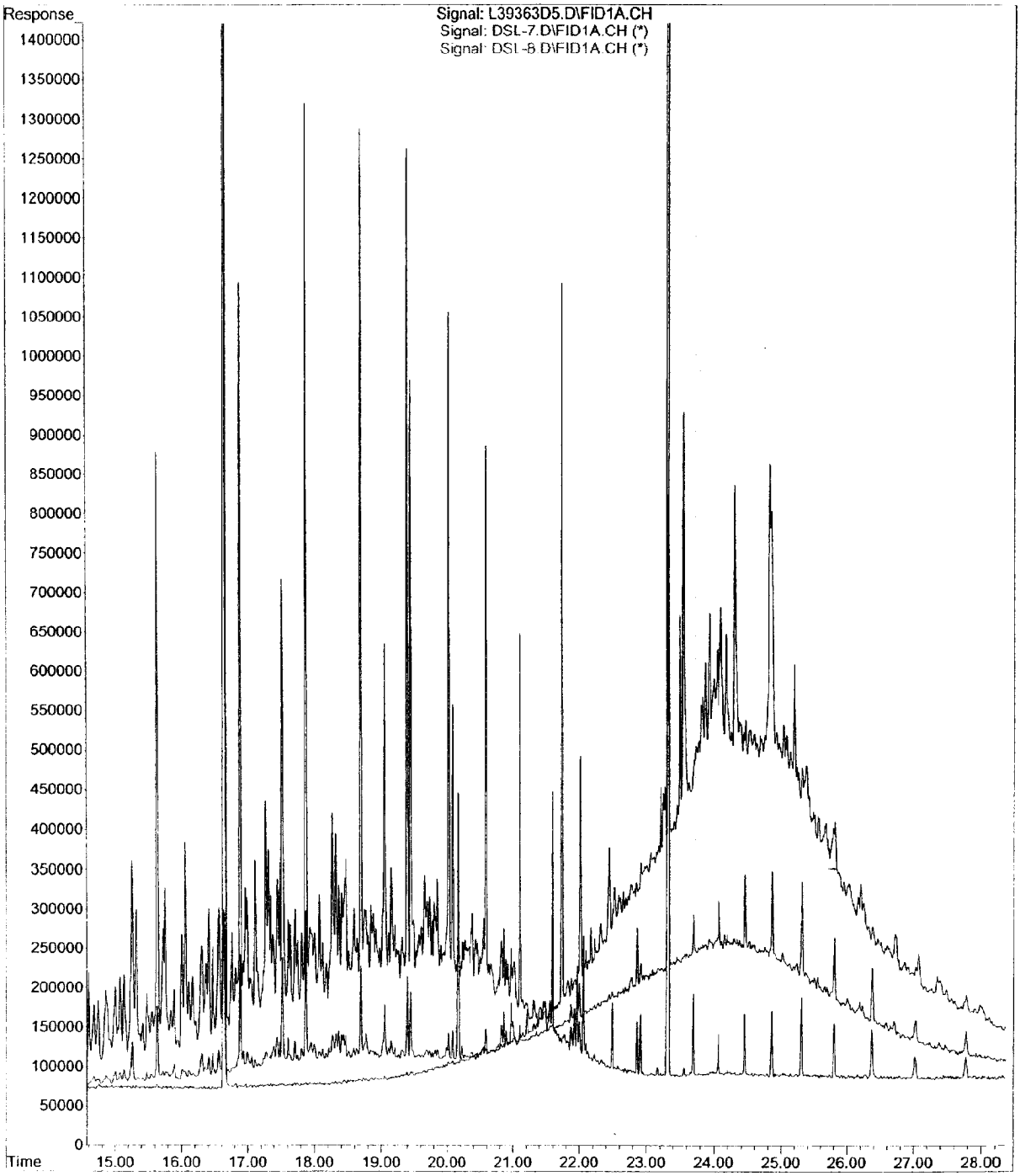
Integration File: autoint1.e
Quant Time: Jun 20 16:38:27 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56895
SEA423207

File :S:\MSDCHEM\1\DATA\060619\L39363D5.D L39363-5
Operator : G. Nerlin
Acquired : 20 Jun 2006 3:52 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP;4X DIL
Misc Info : WG86187; WTPH-DS#184; 1275;4X DIL
Vial Number: 35



KCSlip4 56896

SEA423208

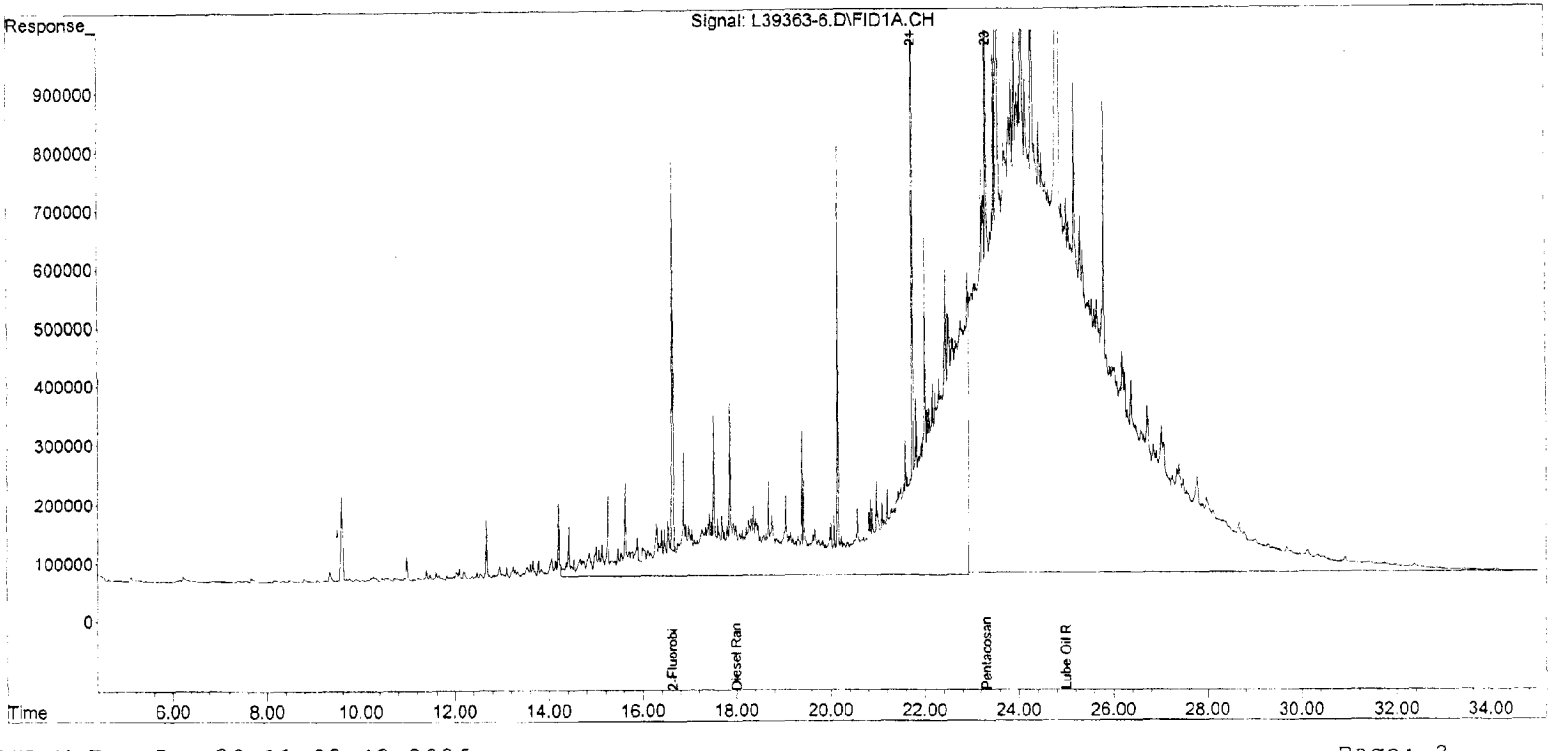
Quantitation Report (QT Reviewed)

L39363-6

Data Path : S:\MSDChem\1\data\060619\
Data File : L39363-6.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 6:50 am
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP
Misc : WG86187; WTPH-DS#184; 1275
ALS Vial : 24 Sample Multiplier: 10

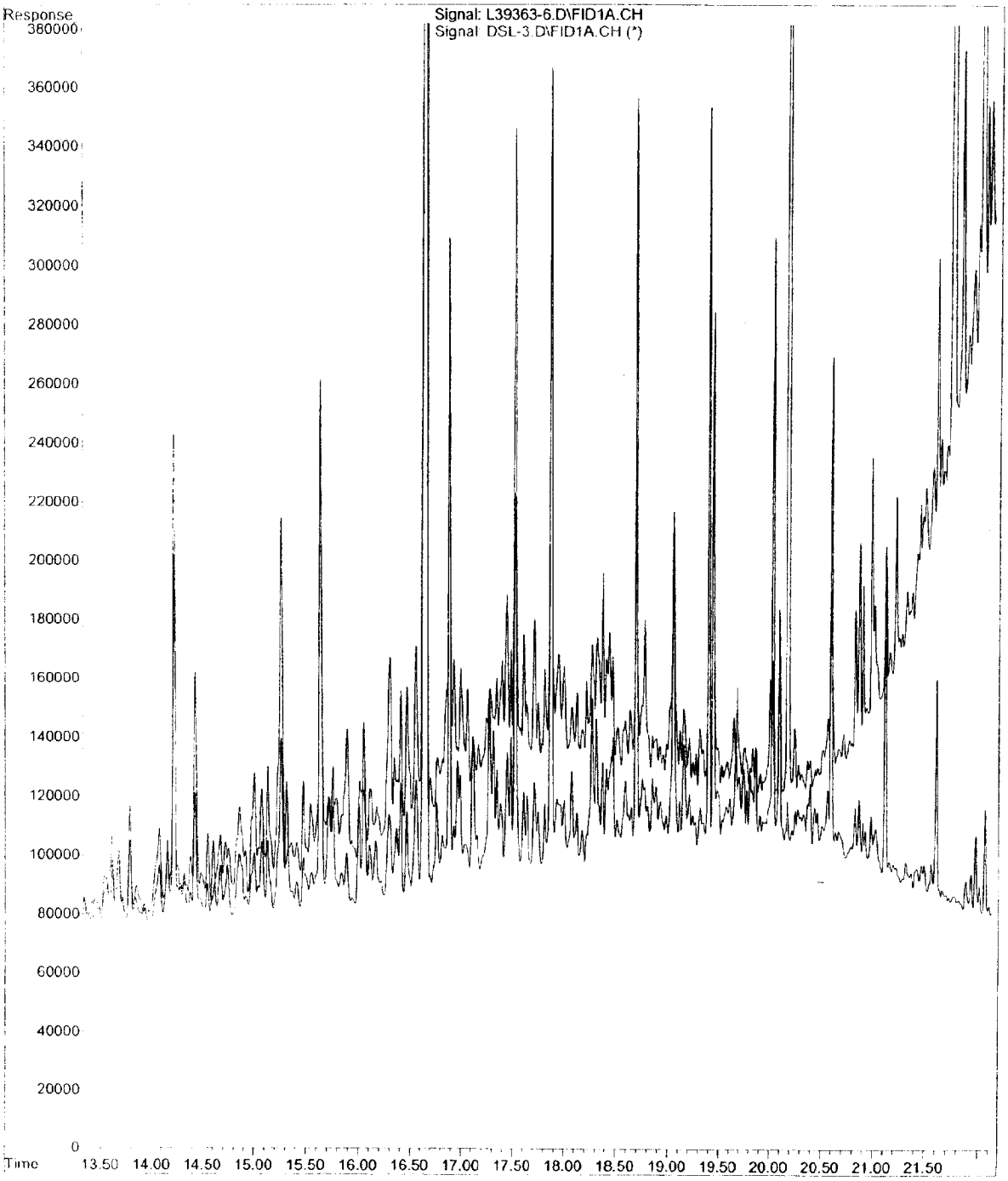
Integration File: autoint1.e
Quant Time: Jun 20 07:29:10 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56897
SEA423209

File : S:\MSDChem\1\data\060619\L39363-6.D L39363-6
Operator : G. Nerlin
Acquired : 20 Jun 2006 6:50 am using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP
Misc Info : WG86187; WTPH-DS#184; 1275
Vial Number: 24



KCSlip4 56898

SEA423210

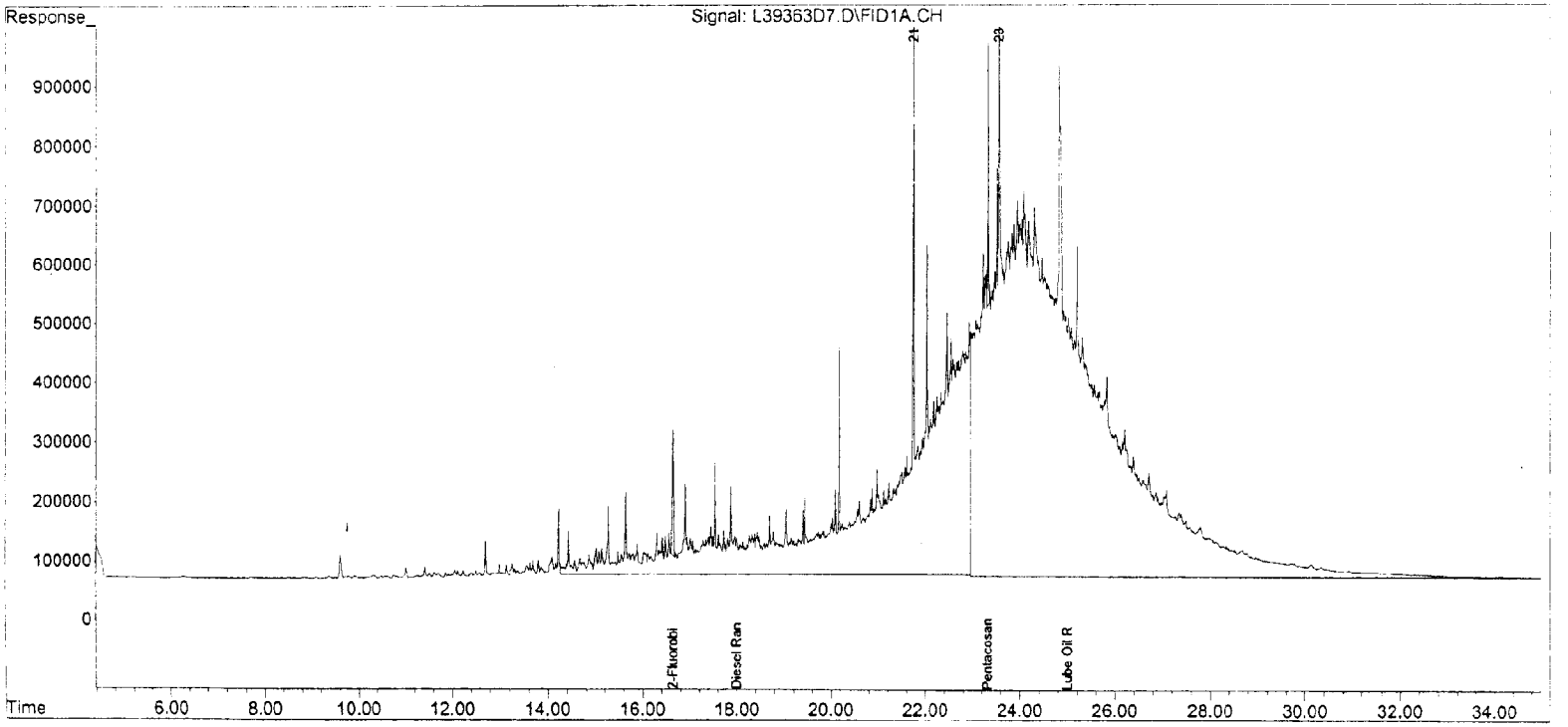
Quantitation Report (QT Reviewed)

L39363-7

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363D7.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 4:37 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP; 4X DIL
Misc : WG86187; WTPH-DS#184; 1275;4X DIL
ALS Vial : 36 Sample Multiplier: 40

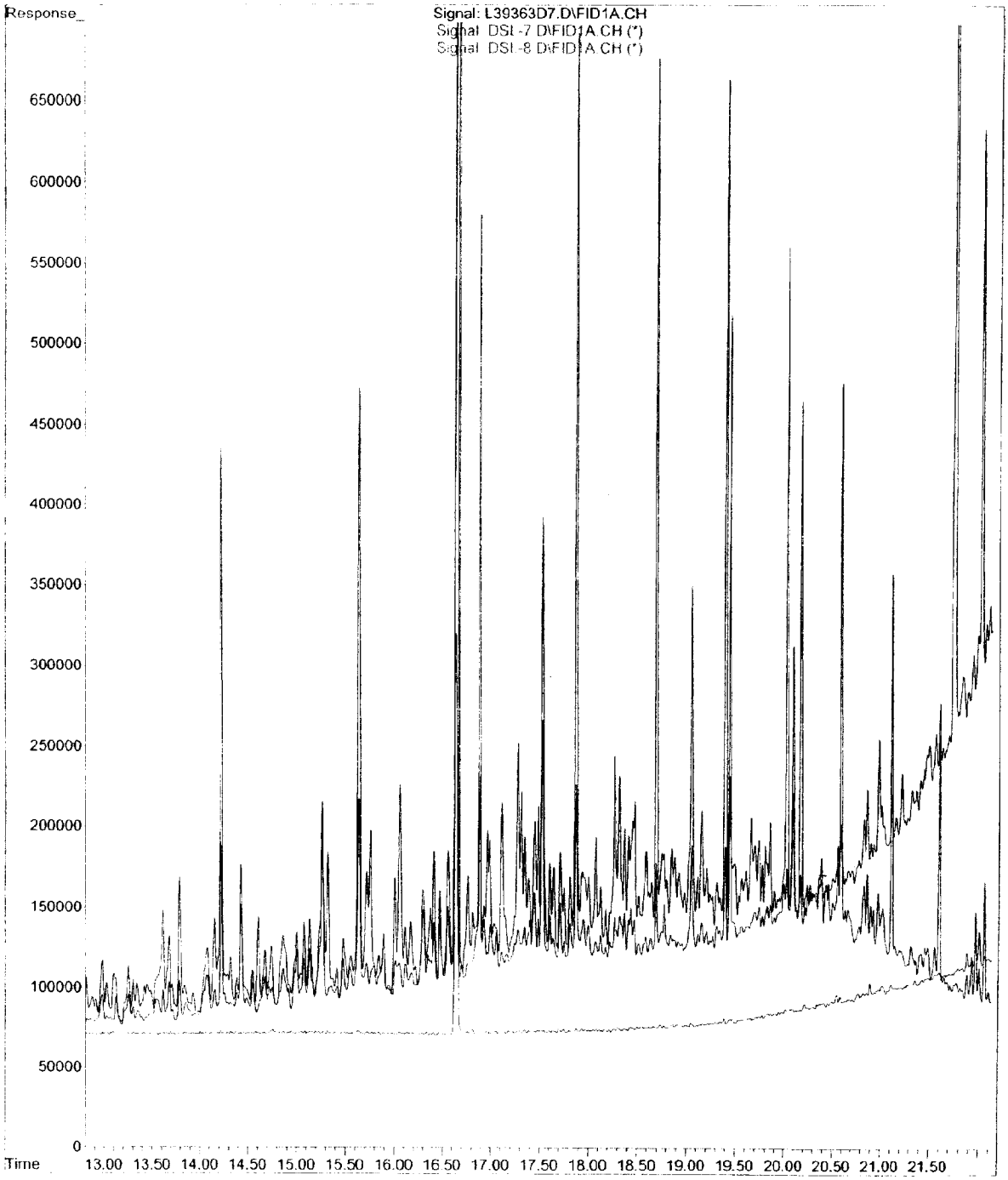
Integration File: autoint1.e
Quant Time: Jun 21 07:09:55 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56899
SEA423211

File :S:\MSDCHEM\1\DATA\060619\L39363D7.D L39363-7
Operator : G. Nerlin
Acquired : 20 Jun 2006 4:37 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP; 4X DIL
Misc Info : WG86187; WTPH-DS#184; 1275;4X DIL
Vial Number: 36



KCSlip4 56900

SEA423212

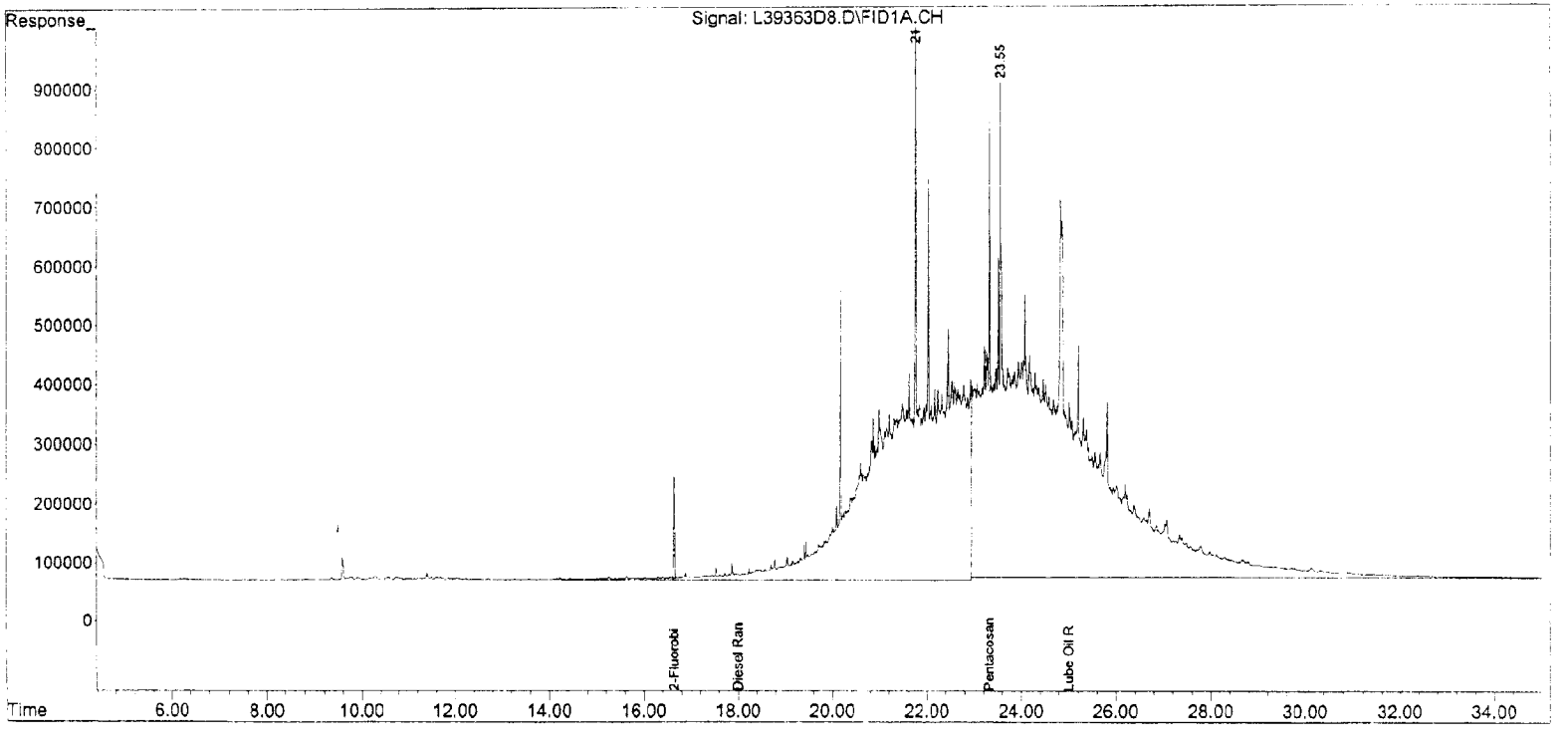
Quantitation Report (QT Reviewed)

L39363-8

Data Path : S:\MSDCHEM\1\DATA\060619\
Data File : L39363D8.D
Signal(s) : FID1A.CH
Acq On : 20 Jun 2006 5:23 pm
Operator : G. Nerlin
Sample : Lander inline seds; CLEANED UP;4X DIL
Misc : WG86187; WTPH-DS#184; 1275;4X DIL
ALS Vial : 37 Sample Multiplier: 40

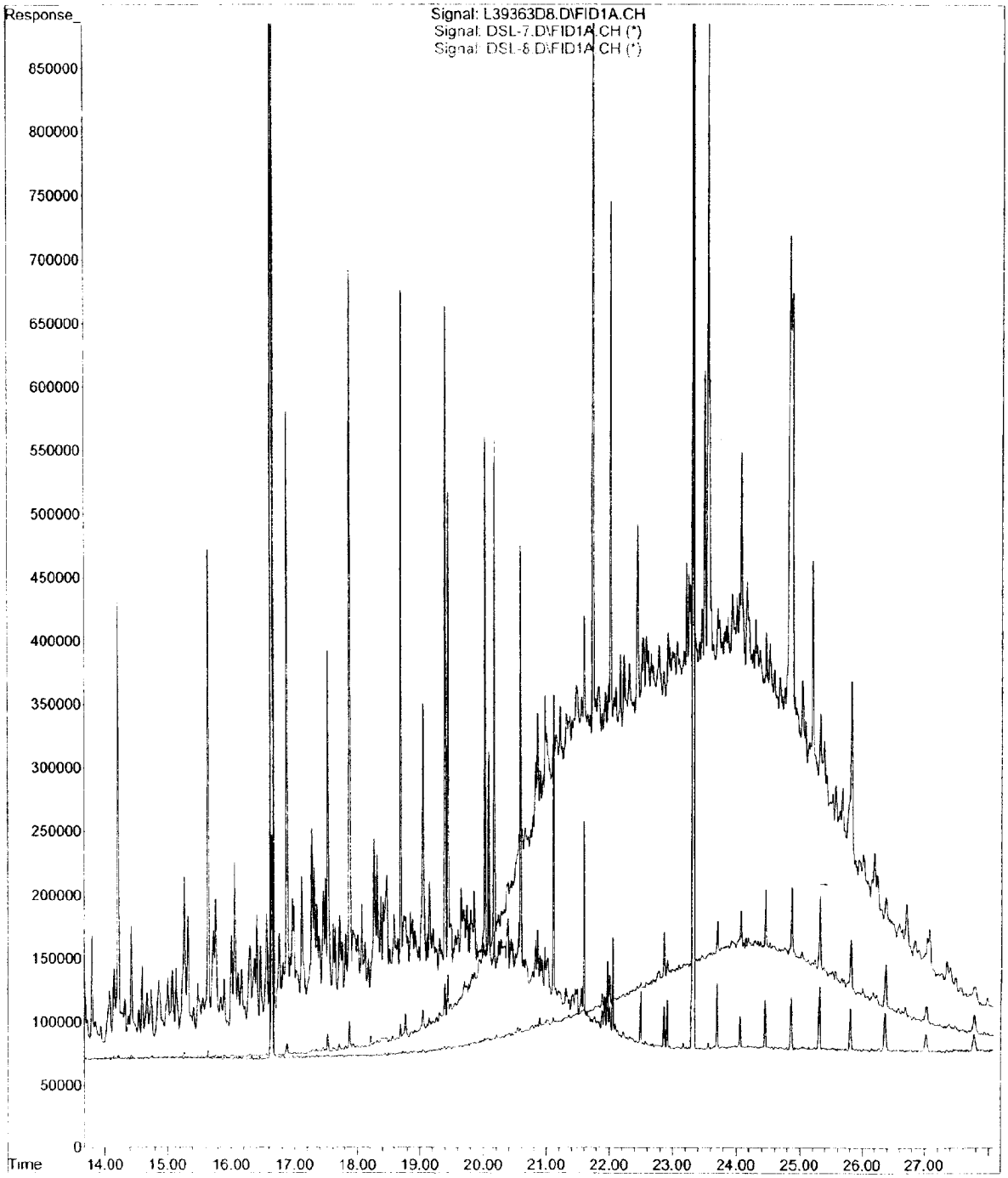
Integration File: autoint1.e
Quant Time: Jun 21 07:10:38 2006
Quant Method : S:\MSDCHEM\1\DATA\060619\DIESEL.M
Quant Title : wtph-dx
QLast Update : Mon Jun 19 10:52:16 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56901
SEA423213

File :S:\MSDCHEM\1\DATA\060619\L39363D8.D L39363-8
Operator : G. Nerlin
Acquired : 20 Jun 2006 5:23 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP;4X DIL
Misc Info : WG86187; WTPH-DS#184; 1275;4X DIL
Vial Number: 37



KCSlip4 56902

SEA423214

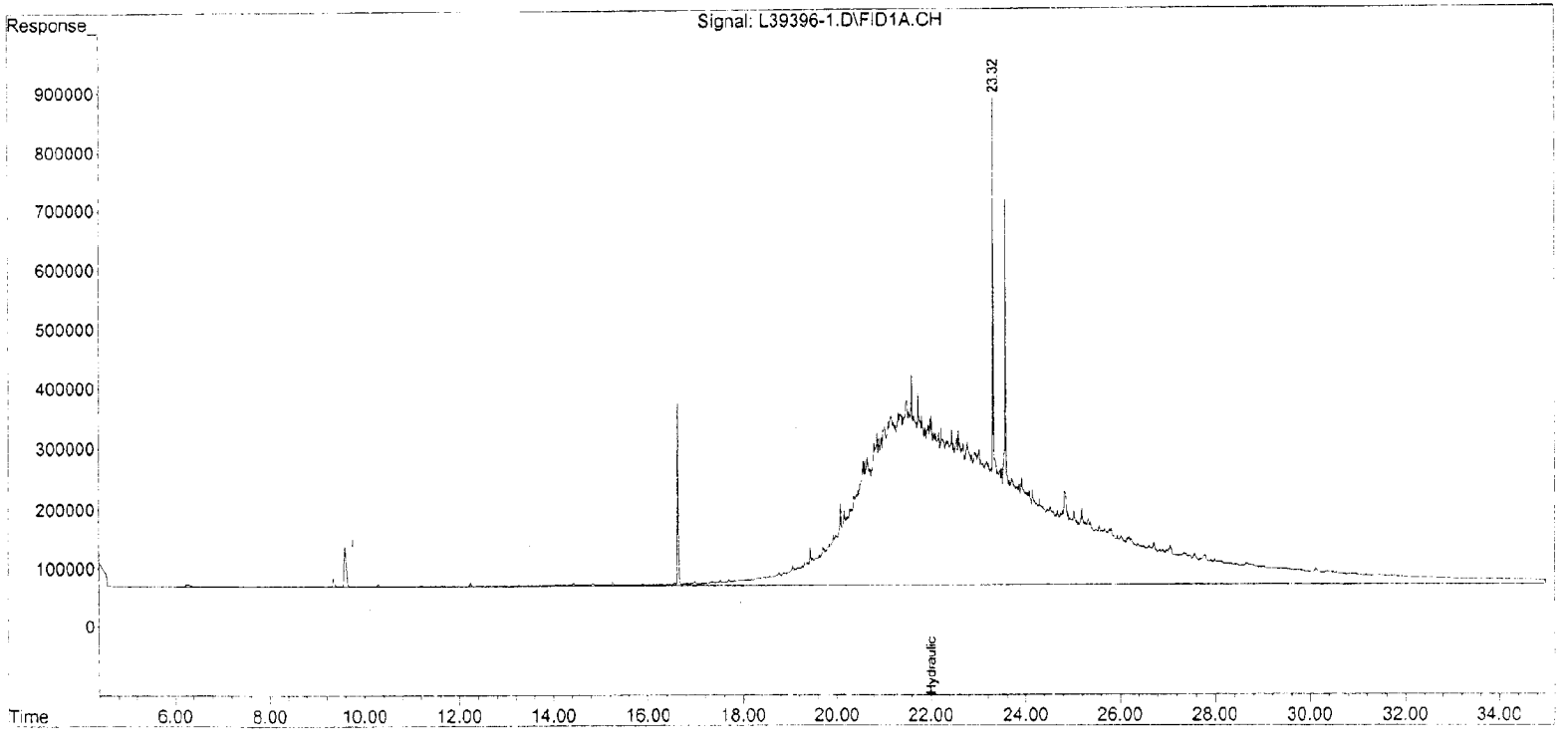
Quantitation Report (Not Reviewed)

Data Path : S:\MSDChem\1\data\060710HYDRAULIC\
Data File : L39396-1.D
Signal(s) : FID1A.CH
Acq On : 10 Jul 2006 5:00 pm
Operator : G. NERLIN
Sample : LANDER INLINE SEDS
Misc : WG86187;wtph-DS#184;#1275;2X DI
ALS Vial : 7 Sample Multiplier: 20

L~~39363~~ 39396-1

Integration File: autointl.e
Quant Time: Jul 11 08:03:52 2006
Quant Method : S:\MSDCHEM\1\DATA\060710HYDRAULIC\HYDRAULIC-FLUID.M
Quant Title : wtph-dx
QLast Update : Mon Jul 10 15:33:31 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

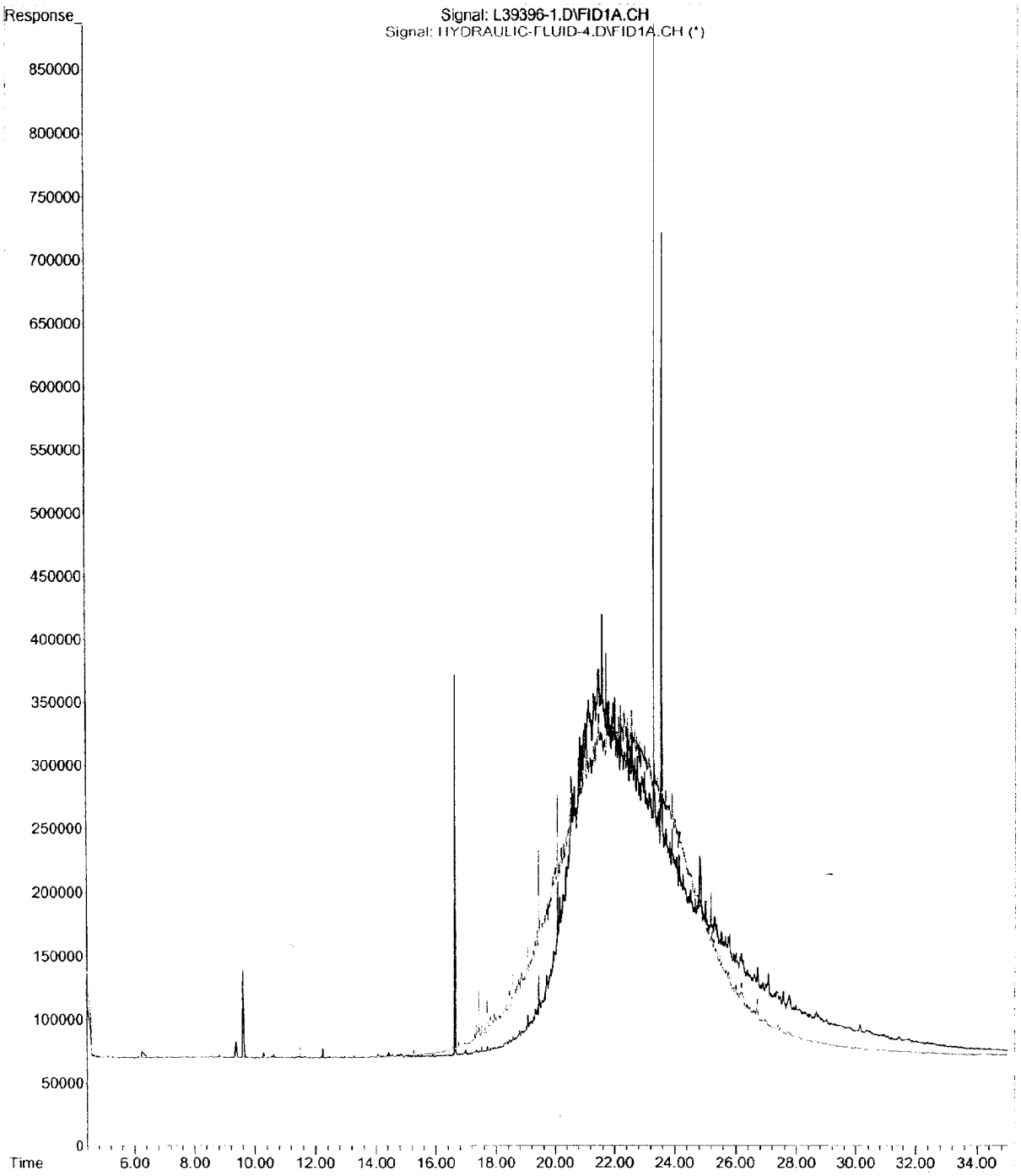
Volume Inj. :
Signal Phase :
Signal Info :



KCSlip4 56903
SEA423215

File :S:\MSDChem\1\data\060710HYDRAULIC\L39396-1.D
Operator : G. NERLIN
Acquired : 10 Jul 2006 5:00 pm using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: LANDER INLINE SEDS
Misc Info : WG86187;wtph-DS#184;#1275;2X DI
Vial Number: 7

L39396-1

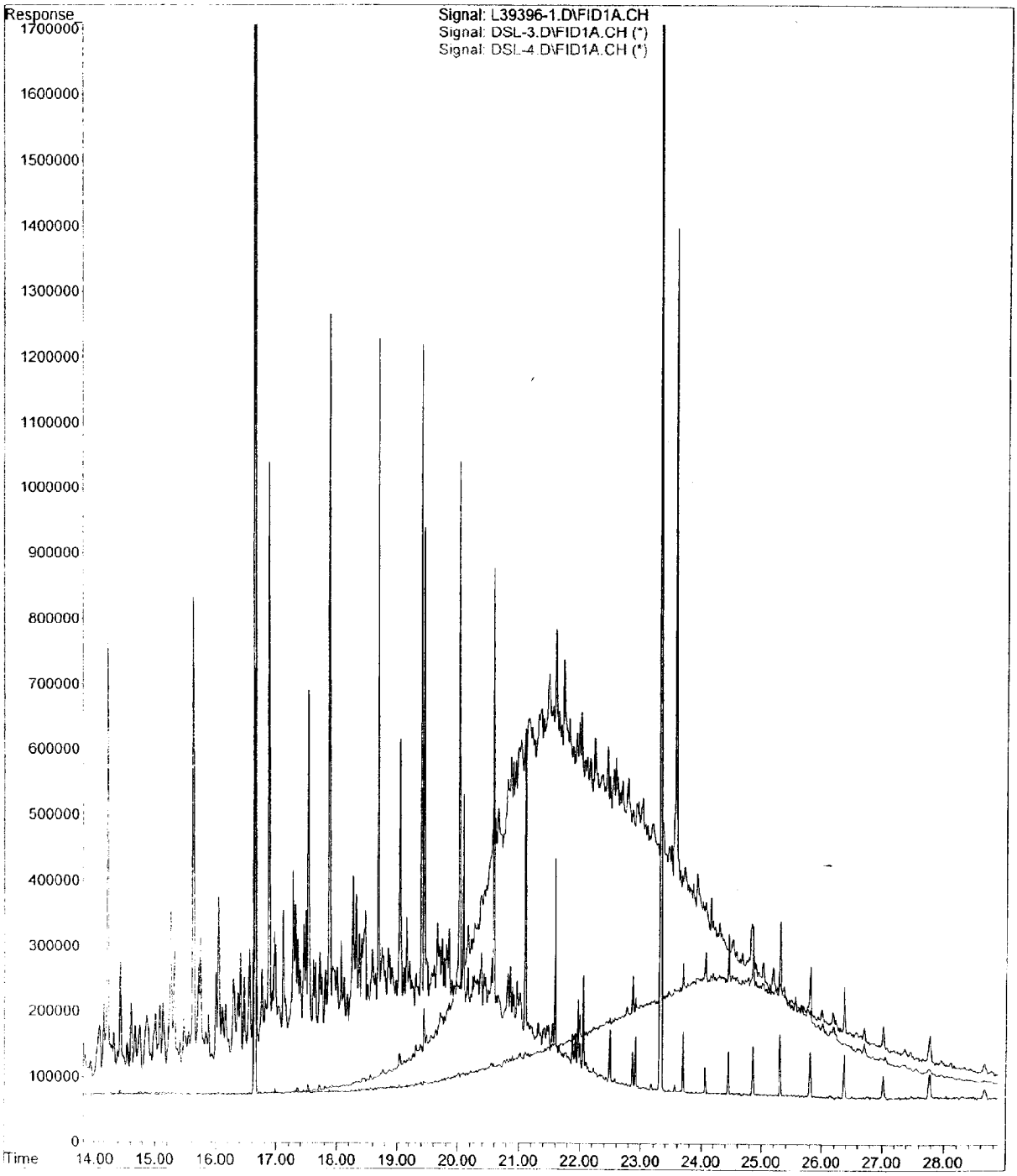


KCSlip4 56904

SEA423216

L39396-1

File : S:\MSDChem\1\data\060619\L39396-1.D
Operator : G. Nerlin
Acquired : 20 Jun 2006 9:05 am using AcqMethod DDSL.M
Instrument : hp6890i-d
Sample Name: Lander inline seds; CLEANED UP
Misc Info : WG86187; WTPH-DS#184; 1275
Vial Number: 27



KCSlip4 56905

SEA423217

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Aug 31 2006, 10:50 am

Work Group: WG86194 (TOTS - Lander/KCR - Jun 2006) for Department: 3 - Conventionals

Created: 13 JUN 06 PrepDate: Due: Operator: CB

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39361-1	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	08-JUN-06	15-JUN-06
L39361-10	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	05-AUG-06
L39361-2	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-3	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-4	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-5	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-6	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-7	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-8	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39363-1	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	08-JUN-06	08-JUL-06
L39363-2	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	08-JUL-06
L39363-3	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	08-JUL-06
L39363-4	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	07-JUN-06	08-JUL-06
L39363-5	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	08-JUL-06
L39363-6	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	08-JUL-06
L39363-7	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	08-JUL-06
L39363-8	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	08-JUL-06
L39395-1	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39396-1	421168 40	Lander sampling, fieldwork & lab		S	TOTS	IN-LINESED	DONE	I	06-JUN-06	06-JUL-06
WG86194-1	MB			S	TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-2	LD			S	TOTS	IN-LINESED	DONE	U	14-JUN-06	
WG86194-3	LT			S	TOTS	IN-LINESED	DONE	U	14-JUN-06	
WG86194-4	MB			S	TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-5	LD			S	TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-6	LT			S	TOTS	OTHR SOLID	DONE	U	14-JUN-06	

Comments:

L39361-10	Field replicate
L39395-1	Effluent location
L39396-1	Effluent location
WG86194-1	MB1 061206
WG86194-2	L39361-8
WG86194-3	WG86194-2 L39361-8
WG86194-4	MB2 061206
WG86194-5	L39401-4
WG86194-6	WG86194-5 L39401-4

KCSlip4 56906

SEA423218

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report 08/31/06 10:51
Run ID: R113998 Workgroup: WG86194 (TCTS - Lander/KCR - Jun 2006)

MB:WG86194-1 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Solids	.005	.01	%	<MDL	

LT:WG86194-3 LD:WG86194-2 L39361-8 Matrix: IN-LINESED Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: 421168-40 Pkey: STD
(Lab Triplicate, Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	LT Value	RSD	Qual	LabLimit
Total Solids	.005	.01	%	21.6	23.2	19.7	8		25

MB:WG86194-4 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Solids	.005	.01	%	<MDL	

LT:WG86194-6 LD:WG86194-5 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: 421196AW Pkey: STD
(Lab Triplicate, Lab Duplicate)

Parameter	Mdl	Rdl	Units	Value	LD Value	LT Value	RSD	Qual	LabLimit
Total Solids	.005	.01	%		79.2	78	1		25

KCSlip4 56907
SEA423219

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 19 2006, 12:05 pm

Work Group: WG86194 (TOTS - Lander/KCR - Jun 2006) for Department: 3 - Conventionals

Created: 13-JUN-06 PrepDate: Due: Operator: CB

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39361-1	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	08-JUN-06	15-JUN-06
L39361-10	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-2	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-3	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-4	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	07-JUN-06	15-JUN-06
L39361-5	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-6	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-7	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39361-8	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39363-1	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	08-JUN-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39395-1	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	I	06-JUN-06	15-JUN-06
L39396-1	421168-40	Lander sampling, fieldwork & lab	S		TOTS	IN-LINESED	DONE	U	06-JUN-06	06-JUL-06
L39401-1	421196AW	DOT-Roads-Street Waste Alternati	S		TOTS	OTHR SOLID	DONE	I	08-JUN-06	22-JUN-06
L39401-2	421196AW	DOT-Roads-Street Waste Alternati	S		TOTS	OTHR SOLID	DONE	I	08-JUN-06	22-JUN-06
L39401-3	421196AW	DOT-Roads-Street Waste Alternati	S		TOTS	OTHR SOLID	DONE	I	08-JUN-06	22-JUN-06
L39401-4	421196AW	DOT-Roads-Street Waste Alternati	S		TOTS	OTHR SOLID	DONE	I	08-JUN-06	22-JUN-06
WG86194-1	MB		S		TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-2	LD		S		TOTS	IN-LINESED	DONE	U	14-JUN-06	
WG86194-3	LT		S		TOTS	IN-LINESED	DONE	U	14-JUN-06	
WG86194-4	MB		S		TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-5	LD		S		TOTS	OTHR SOLID	DONE	U	14-JUN-06	
WG86194-6	LT		S		TOTS	OTHR SOLID	DONE	U	14-JUN-06	

Comments

L39361-10	Field replicate
L39395-1	Effluent location
L39396-1	Effluent location
L39401-1	1A
L39401-2	2A
L39401-3	1A
L39401-4	1B
WG86194-1	MB1 061206
WG86194-2	L39361-8
WG86194-3	WG86194-2 L39361-8
WG86194-4	MB2 061206
WG86194-5	L39401-4
WG86194-6	WG86194-5 L39401-4

KCSlip4 56908

SEA423220

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report 07/19/06 12:06
Run ID: R113998 Workgroup: WG86194 (TOTS Lander/KCR - Jun 2006)

MB:WG86194-1 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Solids	.005	.01	%	<MDL	

LT:WG86194-3 LD:WG86194-2 L39361-8 Matrix: IN-LINESED Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: 421168-40 Pkey: STD
(Lab Triplicate, Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	LT Value	RSD	Qual	LabLimit
Total Solids	.005	.01	%	21.6	23.2	19.7	8		25

MB:WG86194-4 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Solids	.005	.01	%	<MDL	

LT:WG86194-6 LD:WG86194-5 L39401-4 Matrix: OTHR SOLID Listtype: CVTOTS Method: SM2540-G (03-01-007-002) Project: 421196AW Pkey: STD
(Lab Triplicate, Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	LT Value	RSD	Qual	LabLimit
Total Solids	.005	.01	%	78.8	79.2	78	1		25

KCSlip4 56909
SEA423221

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 19 2006, 12:05 pm

Work Group: WG86195 (TOC Solids - Lander - Jun 2006) for Department: 3 - Conventionals

Created: 13 JUN 06 PrepDate: Due: Operator: CB

Sample	Project Number	Project Description	Pkey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39363-1	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	08-JUN-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	07-JUN-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	06-JUN-06	08-JUL 06
L39363-7	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	06-JUN-06	08-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab	S		TOC	IN-LINESED	DONE	U	06-JUN-06	06-JUL-06
WG86195-1	MB		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-2	SRM		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-3	SB		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-4	MB		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-5	SRM		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-6	SB		S		TOC	OTHR SOLID	DONE	U	28-JUN-06	
WG86195-7	LD		S		TOC	IN-LINESED	DONE	U	28-JUN-06	
WG86195-8	LT		S		TOC	IN-LINESED	DONE	U	28-JUN-06	
WG86195-9	MS		S		TOC	IN-LINESED	DONE	U	28-JUN-06	

Comments:

L39396-1	Effluent location
WG86195-1	MB1 062106
WG86195-2	HICONC
WG86195-3	WG86195-1
WG86195-4	MB1 062206
WG86195-5	HICONC
WG86195-6	WG86195-4
WG86195-7	L39363-7
WG86195-8	WG86195-7 L39363-7
WG86195-9	L39363-7

KCSlip4 56910

SEA423222

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/19/06 12:06
Run ID: R114280 Workgroup: WG86195 (TOC Solids - Lander - Jun 2006)

MB:WG86195-1 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Organic Carbon	500	1000	mg/Kg	<MDL	

SRM:WG86195-2 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Std Reference Material)

Parameter	Mdl	Rdl	Units	Truevalue	SRM Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2500	4960	mg/Kg	33480	31800	95		80-120

SB:WG86195-3 MB:WG86195-1 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	500	1000	mg/Kg	<MDL	2500	2550	102		80-120

MB:WG86195-4 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Total Organic Carbon	500	1000	mg/Kg	<MDL	

SRM:WG86195-5 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Std Reference Material)

Parameter	Mdl	Rdl	Units	Truevalue	SRM Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2400	4750	mg/Kg	33480	30300	91		80-120

SB:WG86195-6 MB:WG86195-4 Matrix: OTHR SOLID Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	500	1000	mg/Kg	<MDL	2500	2570	103		80-120

LT:WG86195-8 LD:WG86195-7 L39363-7 Matrix: IN-LINESED Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: 421168-40 Pkey: STD
(Lab Triplicate, Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	LT Value	RSD	Qual	LabLimit
Total Organic Carbon	1100	2290	mg/Kg	9020	10500	8180	13		20

MS:WG86195-9 L39363-7 Matrix: IN-LINESED Listtype: CVTOC Method: EPA 9060-PSEP96 (03-04-002-003 Project: 421168-40 Pkey: STD
(Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	1100	2250	mg/Kg	9020	5381	14400	99		70-130

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SEA423223

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 25 2006, 08:35 am

Work Group: WG86463 (6/28/06 Lander/KC Airport) for Department: 6 - Metals, Trace

Created: 28-JUN-06 PrepDate: 28-JUN-06 Due: Operator: E. Prentice

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	08-JUL-06	08-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	AS-ICP	IN-LINESED	DONE	U	06-JUL-06	06-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	CU-ICP	IN-LINESED	DONE	U	06-JUL-06	06-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	PB-ICP	IN-LINESED	DONE	U	06-JUL-06	06-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	ZN-ICP	IN-LINESED	DONE	U	06-JUL-06	06-JUL-06
WG86463-1	SB			S	ROUTINE ICP	SOLIDBLANK	DONE	U	28-JUN-06	
WG86463-2	MB			S	ROUTINE ICP	SOLIDBLANK	DONE	U	28-JUN-06	
WG86463-3	LCS			S	ROUTINE ICP	SOIL	DONE	U	28-JUN-06	
WG86463-4	LD			S	ROUTINE ICP	IN-LINESED	DONE	U	28-JUN-06	
WG86463-5	MS			S	ROUTINE ICP	IN-LINESED	DONE	U	28-JUN-06	

Comments:

L39396-1	Effluent location
WG86463-1	WG86463-2 ICPH
WG86463-2	METHOD BLANK
WG86463-3	ERASOIL
WG86463-4	L39363-5 RPD-SOL
WG86463-5	L39363-5 ICPH

KCSlip4 56912

SEA423224

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/25/06 08:35
Run ID: R114302 Workgroup: WG86463 (6/28/06 Lander/KC Airport)

SB:WG86463-1 MB:WG86463-2 Matrix: SOLIDBLANK Listtype: MTICP-SED Method: EPA3050A/6010B (06-02-004-002) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP	.82	4.1	mg/Kg	<MDL	16.4	16.6	101		85-115
Copper, Total, ICP	.066	.328	mg/Kg	<MDL	16.4	16.1	98		85-115
Lead, Total, ICP	.49	2.46	mg/Kg	<MDL	16.4	16.1	98		85-115
Zinc, Total, ICP	.082	.41	mg/Kg	<MDL	16.4	16.1	98		85-115

MB:WG86463-2 Matrix: SOLIDBLANK Listtype: MTICP-SED Method: EPA3050A/6010B (06-02-004-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Arsenic, Total, ICP	.82	4.1	mg/Kg	<MDL	
Copper, Total, ICP	.066	.328	mg/Kg	<MDL	
Lead, Total, ICP	.49	2.46	mg/Kg	<MDL	
Zinc, Total, ICP	.082	.41	mg/Kg	<MDL	

LCS:WG86463-3 Matrix: SOIL Listtype: MTICP-SED Method: EPA3050A/6010B (06-02-004-002) Project: Pkey: STD
(Lab Control Sample)

Parameter	Mdl	Rdl	Units	Truevalue	LCS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP	10	50.4	mg/Kg	142	147	104		80-120
Copper, Total, ICP	.81	4.03	mg/Kg	68.6	69.4	101		80-120
Lead, Total, ICP	6	30.2	mg/Kg	93.6	93.7	100		80-120
Zinc, Total, ICP	1	5.04	mg/Kg	296	305	103		80-120

LD:WG86463-4 L39363-5 Matrix: IN-LINESED Listtype: MTICP-SED Method: EPA3050A/6010B (06-02-004-002) Project: 421168-40 Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP	1.6	8.13	mg/Kg	4.4	4.7			20
Copper, Total, ICP	.13	.651	mg/Kg	107	117	9		20
Lead, Total, ICP	.98	4.88	mg/Kg	187	260	32	*	20
Zinc, Total, ICP	.16	.813	mg/Kg	271	314	15		20

MS:WG86463-5 L39363-5 Matrix: IN-LINESED Listtype: MTICP-SED Method: EPA3050A/6010B (06-02-004-002) Project: 421168-40 Pkey: STD
(Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP	1.7	8.37	mg/Kg	4.4	33.5	37.3	98		75-125
Copper, Total, ICP	.13	.67	mg/Kg	107	33.5	138	94		75-125
Lead, Total, ICP	1	5.02	mg/Kg	187	33.5	225	113		75-125
Zinc, Total, ICP	.17	.837	mg/Kg	271	33.5	316	132		75-125

KCSlip4 56913
SEA423225

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 25 2006, 08:35 am

Work Group: WG86337 (LANDER INLINE SEDIMENTS) for Department: 6 - Metals, Trace

Created: 21-JUN-06 PrepDate: 21-JUN-06 Due: Operator: DC

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39363-1	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	06-JUL-06	08-JUL-06
L39363-2	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	05-JUL-06	08-JUL-06
L39363-3	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	05-JUL-06	08-JUL-06
L39363-4	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	05-JUL-06	08-JUL-06
L39363-5	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	04-JUL-06	08-JUL-06
L39363-6	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	04-JUL-06	08-JUL-06
L39363-7	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	04-JUL-06	08-JUL-06
L39363-8	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	04-JUL-06	08-JUL-06
L39396-1	421168 40	Lander sampling, fieldwork & lab	S		HG-CVAA	IN-LINESED	DONE	U	04-JUL-06	06-JUL-06
WG86337-1	SRM		S		HG-CVAA	SOIL	DONE	U	22-JUN-06	
WG86337-2	MB		S		HG-CVAA	SOLIDBLANK	DONE	U	22-JUN-06	
WG86337-3	SB		S		HG-CVAA	SOLIDBLANK	DONE	U	22-JUN-06	
WG86337-4	MS		S		HG-CVAA	IN-LINESED	DONE	U	22-JUN-06	
WG86337-5	MSD		S		HG-CVAA	IN-LINESED	DONE	U	22-JUN-06	
WG86337-6	LD		S		HG-CVAA	IN-LINESED	DONE	U	22-JUN-06	

Comments:

L39396-1	Effluent location
WG86337-1	MOSOIL
WG86337-2	METHOD BLANK
WG86337-3	WG86337-2 HG-SOL
WG86337-4	L39363-4 HG-SOL
WG86337-5	WG86337-4 L39363-4
WG86337-6	L39363-4 RPD-SOL

KCSlip4 56914

SEA423226

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/25/06 08:38
Run ID: R114176 Workgroup: WG86337 (LANDER INLINE SEDIMENTS)

SRM:WG86337-1 Matrix: SOIL Listtype: MTHG-SED Method: EPA 7471A (06-01-004-003) Project: Pkey: STD
(Std Reference Material)

Parameter	Mdl	Rdl	Units	Truevalue	SRM Value	% Rec.	Qual	LabLimit
Mercury, Total, CVAA	.098	.98	mg/Kg	6.25	5.81	93		80-120

MB:WG86337-2 Matrix: SOLIDBLANK Listtype: MTHG-SED Method: EPA 7471A (06-01-004-003) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Mercury, Total, CVAA	.019	.19	mg/Kg	<MDL	

SB:WG86337-3 MB:WG86337-2 Matrix: SOLIDBLANK Listtype: MTHG-SED Method: EPA 7471A (06-01-004-003) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Mercury, Total, CVAA	.019	.19	mg/Kg	<MDL	0.476	.479	101		85-115

MSD:WG86337-5 MS:WG86337-4 L39363-4 Matrix: IN-LINESED Listtype: MTHG-SED Method: EPA 7471A (06-01-004-003) Project: 421168-40 Pkey: STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit	Truevalue	MSD Value	% Rec.	Qual	RPD	Qual	Lablimit
Mercury, Total, CVAA	.02	.204	mg/Kg	.066	0.510	.541	93		75-125	0.512	.542	93		0		20

LD:WG86337-6 L39363-4 Matrix: IN-LINESED Listtype: MTHG-SED Method: EPA 7471A (06-01-004-003) Project: 421168-40 Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
Mercury, Total, CVAA	.02	.199	mg/Kg	.066	.07			20

KCSlip4 56915
SEA423227

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jun 13 2006, 07:42 am

Work Group: WG86155 (PPS#335 PCB) for Department: 7 - Organics, Trace

Created: 08-JUN-06 PrepDate: 09-JUN-06 Due: Operator: KM/JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39361-1	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-10	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-2	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-3	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-4	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-5	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-6	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-7	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39361-8	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	15-JUN-06	15-JUN-06
L39395-1	421168-40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	PREP	U	13-JUN-06	13-JUN-06
WG86155-1	MB		S		PCB	OTHR SOLID	PREP	U	08-JUN-06	
WG86155-2	SB		S		PCB	OTHR SOLID	PREP	U	08-JUN-06	
WG86155-3	MS		S		PCB	IN-LINESED	PREP	U	08-JUN-06	
WG86155-4	MSD		S		PCB	IN-LINESED	PREP	U	08-JUN-06	

Comments:

L39361-10	Field replicate
L39395-1	Effluent location
WG86155-1	MB060609
WG86155-2	WG86155-1
WG86155-3	L39361-5
WG86155-4	WG86155-3 L39361-5

KCSlip4 56916

SEA423228

SOLID AND TISSUE SAMPLE EXTRACTION RECORD FOR PESTICIDE / PCB ANALYSIS
TRACE ORGANICS LABORATORY

1:1 MeCL2:Acetone
QC BATCH NO.: PPS #335 PCB
EPA SW-846 EXTRACTION METHOD:
SONICATION EPA 3550 SOXHLET EPA 3540

WORKGROUP NO.: WG861155
PESTICIDE SURROGATE SPIKE: 1184
PESTICIDE MATRIX SPIKE: 1203

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	Initial Amt. (g)	Spike Amount (ul)	Vf (ml)	Cleanups (GPC,AL, TBA,H+)	Conc. Analyst	Turn Over Date	Comments
KM/JG ~~06/08/06~~ 06/09/06	WG861155-1	QC	MB		15.0	1184-50µl	2.5	All	KM	6/13/06	JG 06/08/06 AL
	-2		SB			+(1203-300µl)					Samples very wet, sil
	-3		MS (L39361-5)								Seds. KM 6/9/06
	-4		MSD (L39361-5)								
	L39361-1	421168-040	Lander Sampling Dr-Line Seds								
	-2										
	-3										
	-4										
	-5										
	-6										
	-7										
	-8										Sample jar cracked transferred to new jar
	-10										
	L39395-1										
											Samples L39361-1 to 10 extracted with 1:1 acetone/mec color; red when exchanged + hexane; black/brown - then orange-red through cleanup Given after final H+ clean up. KM 6/13/06

JG

KCSlip4 56917
SEA423229

Data File Name	Sample Name	Date Acquired	Vial Numbi	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptophi (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	6/14/2006 10:38	1	0	1										S:\MSDCHEM\2\DATA\060614\
BLANK-01.D	blank	6/14/2006 11:15	2	0	1										S:\MSDCHEM\2\DATA\060614\
PCB-01.D	1218D 1016/1260 500/50	6/14/2006 11:52	3	0	1	14.366	74446210	22.586	139072988	13.049	260401200	19.505	390800093		S:\MSDCHEM\2\DATA\060614\
PCB-02.D	1209.1 1248 500/50	6/14/2006 12:28	4	0	1	14.367	77836672	22.586	160505353	13.050	263513161	19.506	377070525		S:\MSDCHEM\2\DATA\060614\
PCB-03.D	1210.1 1254 500/50	6/14/2006 13:05	5	0	1	14.366	70105079	22.586	136554474	13.049	242015744	19.506	368290012		S:\MSDCHEM\2\DATA\060614\
PCB-04.D	1206.1 1221 500/50	6/14/2006 13:42	6	0	1	14.365	68194864	22.586	132948954	13.048	245001587	19.504	365866529		S:\MSDCHEM\2\DATA\060614\
PCB-05.D	1207.1 1232 500/50	6/14/2006 14:18	7	0	1	14.363	67707274	22.583	133101703	13.049	235078996	19.506	348787415		S:\MSDCHEM\2\DATA\060614\
PCB-06.D	1208.1 1242 500/50	6/14/2006 14:55	8	0	1	14.365	72189938	22.584	152007935	13.048	242294411	19.504	351925573		S:\MSDCHEM\2\DATA\060614\
WG86155-1.D	MB	6/14/2006 15:32	9	9.375	2.5	14.365	67161999	22.584	107164286	13.048	240943609	19.506	295624787	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
WG86155-2.D	SB	6/14/2006 16:08	10	9.375	2.5	14.364	73531630	22.585	111968428	13.048	244474175	19.506	265296878	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
WG86155-3.D	MS L39361-5	6/14/2006 16:45	11	9.375	2.5	14.374	59605990	22.613	135336465	13.060	193563370	19.562	379600843	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
WG86155-4.D	MSD L39361-5	6/14/2006 17:22	12	9.375	2.5	14.377	55354461	22.626	143547581	13.062	187470523	19.573	357014944	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-1.D	L39361-1	6/14/2006 17:59	13	9.375	2.5	14.404	51858764	22.667	110705407	13.090	167489290	19.686	248943472	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-2.D	L39361-2	6/14/2006 18:35	14	9.375	2.5	14.403	53888236	22.613	131871780	13.097	152802552	19.556	391738936	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-3.D	L39361-3	6/14/2006 19:12	15	9.375	2.5	14.370	58565105	22.601	120691299	13.054	196841443	19.539	366764474	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-4.D	L39361-4	6/14/2006 19:49	16	9.375	2.5	14.371	65323090	22.567	139026570	13.051	207869321	19.522	385038251	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-5.D	L39361-5	6/14/2006 20:25	17	9.375	2.5	14.376	58556698	22.621	137276095	13.060	188200552	19.567	365568156	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
BLANK-02.D	blank	6/14/2006 21:02	2	0	1										S:\MSDCHEM\2\DATA\060614\
PCB-07.D	1218D 1016/1260 500/50	6/14/2006 21:39	3	0	1	14.365	75498703	22.584	155918500	13.046	250642545	19.502	387451377		S:\MSDCHEM\2\DATA\060614\
PCB-08.D	1209.1 1248 500/50	6/14/2006 22:16	4	0	1	14.364	76390803	22.583	156343126	13.046	257141341	19.501	376053127		S:\MSDCHEM\2\DATA\060614\
L39361-6.D	L39361-6	6/14/2006 22:52	18	9.375	2.5	14.368	69048255	22.596	151583330	13.050	231800410	19.526	420203761	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-7.D	L39361-7	6/14/2006 23:29	19	9.375	2.5	14.380	59313444	22.623	136125123	13.065	187502676	19.575	376306359	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-8.D	L39361-8	6/15/2006 12:06	20	9.375	2.5	14.383	53681621	22.609	119884349	13.072	181887607	19.555	357364502	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39361-10.D	L39361-10	6/15/2006 12:42	21	9.375	2.5	14.370	61791895	22.598	130061276	13.052	200920024	19.530	378799992	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
L39395-1.D	L39395-1	6/15/2006 1:19	22	9.375	2.5	14.375	69279407	22.590	148951213	13.060	216503242	19.513	379303644	PPS335 PCB LANDER SEDS SOIL	S:\MSDCHEM\2\DATA\060614\
BLANK-03.D	blank	6/15/2006 1:56	2	0	1										S:\MSDCHEM\2\DATA\060614\
PCB-09.D	1218D 1016/1260 500/50	6/15/2006 2:33	3	0	1	14.363	81973676	22.582	161441438	13.045	264190950	19.501	403592322		S:\MSDCHEM\2\DATA\060614\
PCB-10.D	1210.1 1254 500/50	6/15/2006 3:09	5	0	1	14.363	76870349	22.582	156027801	13.045	245978347	19.501	357847276		S:\MSDCHEM\2\DATA\060614\
					Ave.	14.372	66599794	22.599	137834399	13.056	221190299	19.531	362418927		
					Std. Dev.	0.011	8695489	0.024	15805506	0.014	33145141	0.042	39848024		
					%RSD		13%		11%		15%		11%		

KCSlip4 56918
SEA423230

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/15/06 12:47
Run ID: R114033 Workgroup: WG86155 (PPS#335 PCB)

MB:WG86155-1 Matrix: OTHR SOLID Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	13	26.7	ug/Kg	<MDL	
Aroclor 1221	13	26.7	ug/Kg	<MDL	
Aroclor 1232	13	26.7	ug/Kg	<MDL	
Aroclor 1242	13	26.7	ug/Kg	<MDL	
Aroclor 1248	13	26.7	ug/Kg	<MDL	
Aroclor 1254	13	26.7	ug/Kg	<MDL	
Aroclor 1260	13	26.7	ug/Kg	<MDL	

SB:WG86155-2 MB:WG86155-1 Matrix: OTHR SOLID Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Aroclor 1016	13	26.7	ug/Kg	<MDL	200.	126	63		39-121
Aroclor 1260	13	26.7	ug/Kg	<MDL	200.	187	93		53-140

MSD:WG86155-4 MS:WG86155-3 L39361-5 Matrix: IN-LINESED Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: 421168-40 Pkey: STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit	Truevalue	MSD Value	% Rec.	Qual	RPD	Qual	Lablimit
Aroclor 1016	13	26.7	ug/Kg	<MDL	200.	210	105		32-164	200.	207	103		2		100
Aroclor 1260	13	26.7	ug/Kg	72.5	200.	231	79		28-144	200.	226	77		3		100

KCSlip4 56919
SEA423231

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/15/06 12:47
Run ID: R114033 Workgroup: WG86155 (PPS#335 PCB)

Sample #	2,4,5,6-Tetrachlo-ro-m-xylene	Decachlorobipheny-l
(Lab Limits)	30-134	15 155
L39361-1	90	35
L39361-2	101	120
L39361-3	110	87
L39361-4	89	79
L39361-5	104	74
L39361-6	77	66
L39361-7	86	67
L39361-8	106	91
L39361-10	92	84
L39395-1	90	80
WG86155-1	32	84
WG86155-2	60	79
WG86155-3	95	71
WG86155-4	100	70

KCSlip4 56920
SEA423232

A/M
7/25/06
pm3

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 12 2006, 01:37 pm

Work Group: WG86219 (bs#220 bnall) for Department: 7 - Organics, Trace

Created: 14-JUN-06 PrepDate: 15-JUN-06 Due: Operator: km

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	22-JUN-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	21-JUN-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	21-JUN-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	21-JUN-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	20-JUN-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	20-JUN-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	20-JUN-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	20-JUN-06	08-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	BNALL	IN-LINESED	WKGP	U	20-JUN-06	06-JUL-06
WG86219-1	MB			S	BNALL	OTHR SOLID	WKGP	U	14-JUN-06	
WG86219-2	SB			S	BNALL	OTHR SOLID	WKGP	U	14-JUN-06	
WG86219-3	MS			S	BNALL	IN-LINESED	WKGP	U	14-JUN-06	
WG86219-4	MSD			S	BNALL	IN-LINESED	WKGP	U	14-JUN-06	
WG86219-5	LD			S	BNALL	IN-LINESED	WKGP	U	14-JUN-06	

Comments:

L39396-1	Effluent location
WG86219-1	MB060615
WG86219-2	WG86219-1
WG86219-3	L39396-1
WG86219-4	WG86219-3 L39396-1
WG86219-5	L39363-2

KCSlip4 56921

SEA423233

A/M
7/25/06
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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/18/06 02:25
Run ID: R114498 Workgroup: WG86219 (bs#220 bnall)

MB:WG86219-1 Matrix: OTHR SOLID Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
N-Nitrosodimethylamine	80	160	ug/Kg	<MDL	
Phenol	36	72	ug/Kg	<MDL	
Bis(2-Chloroethyl)Ether	60	120	ug/Kg	<MDL	
2-Chlorophenol	32	64	ug/Kg	<MDL	
1,3-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	
1,4-Dichlorobenzene	.53	1.06	ug/Kg	<MDL	
1,2-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	
Bis(2-Chloroisopropyl)Ether	60	120	ug/Kg	<MDL	
N-Nitrosodi-N-Propylamine	36	72	ug/Kg	<MDL	
Hexachloroethane	60	120	ug/Kg	<MDL	
Nitrobenzene	64	128	ug/Kg	<MDL	
Isophorone	76	152	ug/Kg	<MDL	
2-Nitrophenol	60	120	ug/Kg	<MDL	
2,4-Dimethylphenol	28	56	ug/Kg	<MDL	
Bis(2-Chloroethoxy)Methane	68	136	ug/Kg	<MDL	
2,4-Dichlorophenol	64	128	ug/Kg	<MDL	
1,2,4-Trichlorobenzene	1.1	2.12	ug/Kg	<MDL	
Naphthalene	56	112	ug/Kg	<MDL	
Hexachlorobutadiene	3	6	ug/Kg	<MDL	
2,4,6-Trichlorophenol	52	104	ug/Kg	<MDL	
2-Chloronaphthalene	64	128	ug/Kg	<MDL	
Acenaphthylene	60	120	ug/Kg	<MDL	
Dimethyl Phthalate	44	88	ug/Kg	<MDL	
2,6-Dinitrotoluene	40	80	ug/Kg	<MDL	
Acenaphthene	28	56	ug/Kg	<MDL	
2,4-Dinitrotoluene	12	24	ug/Kg	<MDL	
Fluorene	52	88	ug/Kg	<MDL	
Diethyl Phthalate	24	48	ug/Kg	<MDL	
4-Chlorophenyl Phenyl Ether	52	104	ug/Kg	<MDL	
N-Nitrosodiphenylamine	80	160	ug/Kg	<MDL	
1,2-Diphenylhydrazine	40	80	ug/Kg	<MDL	
4-Bromophenyl Phenyl Ether	36	72	ug/Kg	<MDL	
Hexachlorobenzene	2.7	5.32	ug/Kg	<MDL	
Pentachlorophenol	27	107	ug/Kg	<MDL	
Phenanthrene	16	32	ug/Kg	<MDL	
Anthracene	16	32	ug/Kg	<MDL	
Di-N-Butyl Phthalate	20	40	ug/Kg	<MDL	
Fluoranthene	32	64	ug/Kg	<MDL	
Pyrene	16	32	ug/Kg	<MDL	
Benzyl Butyl Phthalate	24	48	ug/Kg	<MDL	
Benzo(a)anthracene	8	16	ug/Kg	<MDL	
Chrysene	16	32	ug/Kg	<MDL	
Bis(2-Ethylhexyl)Phthalate	27	56	ug/Kg	<MDL	
Di-N-Octyl Phthalate	32	64	ug/Kg	<MDL	
Benzo(b)fluoranthene	12	24	ug/Kg	<MDL	
Benzo(k)fluoranthene	12	24	ug/Kg	<MDL	
Benzo(a)pyrene	12	24	ug/Kg	<MDL	
Indeno(1,2,3-Cd)Pyrene	36	72	ug/Kg	<MDL	
Dibenzo(a,h)anthracene	28	56	ug/Kg	<MDL	
Benzo(g,h,i)perylene	32	64	ug/Kg	<MDL	
Aniline	76	152	ug/Kg	<MDL	

KCSlip4 56922
SEA423234

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/18/06 02:25
Run ID: R114498 Workgroup: WG86219 (bs#220 bnall)

MB:WG86219-1 Matrix: OTHR SOLID Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Benzyl Alcohol	24	48	ug/Kg	<MDL	
2-Methylphenol	64	128	ug/Kg	<MDL	
4-Methylphenol	64	128	ug/Kg	<MDL	
Benzoic Acid	53	267	ug/Kg	<MDL	
2-Methylnaphthalene	56	112	ug/Kg	<MDL	
2,4,5-Trichlorophenol	48	96	ug/Kg	<MDL	
Dibenzofuran	56	112	ug/Kg	<MDL	
Carbazole	28	56	ug/Kg	<MDL	
Coprostanol	56	112	ug/Kg	<MDL	
Caffeine	24	48	ug/Kg	<MDL	
Pyridine	110	213	ug/Kg	<MDL	

SB:WG86219-2 MB:WG86219-1 Matrix: OTHR SOLID Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
N-Nitrosodimethylamine	80	160	ug/Kg	<MDL	800.	327	41		14-101
Phenol	36	72	ug/Kg	<MDL	800.	377	47		10-107
Bis(2-Chloroethyl)Ether	60	120	ug/Kg	<MDL	800.	285	36		18-82
2-Chlorophenol	32	64	ug/Kg	<MDL	800.	322	40		10-102
1,3-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	297	37		18-95
1,4-Dichlorobenzene	.53	1.06	ug/Kg	<MDL	800.	315	39		21-99
1,2-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	314	39		10-116
Bis(2-Chloroisopropyl)Ether	60	120	ug/Kg	<MDL	800.	339	42		10-104
N-Nitrosodi-N-Propylamine	36	72	ug/Kg	<MDL	800.	384	48		10-146
Hexachloroethane	60	120	ug/Kg	<MDL	800.	304	38		17-92
Nitrobenzene	64	128	ug/Kg	<MDL	800.	371	46		10-112
Isophorone	76	152	ug/Kg	<MDL	800.	455	57		10-131
2-Nitrophenol	60	120	ug/Kg	<MDL	800.	342	43		21-98
2,4-Dimethylphenol	28	56	ug/Kg	<MDL	800.	36	4	*	10-81
Bis(2-Chloroethoxy)Methane	68	136	ug/Kg	<MDL	800.	380	48		19-103
2,4-Dichlorophenol	64	128	ug/Kg	<MDL	800.	368	46		24-103
1,2,4-Trichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	330	41		30-110
Naphthalene	56	112	ug/Kg	<MDL	800.	330	41		17-94
Hexachlorobutadiene	3	6	ug/Kg	<MDL	800.	306	38		10-97
2,4,6-Trichlorophenol	52	104	ug/Kg	<MDL	800.	396	49		27-98
2-Chloronaphthalene	64	128	ug/Kg	<MDL	800.	465	58		25-96
Acenaphthylene	60	120	ug/Kg	<MDL	800.	506	63		31-101
Dimethyl Phthalate	44	88	ug/Kg	<MDL	800.	646	81		38-114
2,6-Dinitrotoluene	40	80	ug/Kg	<MDL	800.	580	72		46-110
Acenaphthene	28	56	ug/Kg	<MDL	800.	457	57		29-102
2,4-Dinitrotoluene	12	24	ug/Kg	<MDL	800.	667	83		35-148
Fluorene	52	88	ug/Kg	<MDL	800.	593	74		39-106
Diethyl Phthalate	24	48	ug/Kg	<MDL	800.	758	95		51-118
4-Chlorophenyl Phenyl Ether	52	104	ug/Kg	<MDL	800.	611	76		39-101
N-Nitrosodiphenylamine	80	160	ug/Kg	<MDL	800.	477	60		11-148
1,2-Diphenylhydrazine	40	80	ug/Kg	<MDL	800.	533	67		32-125
4-Bromophenyl Phenyl Ether	36	72	ug/Kg	<MDL	800.	673	84		47-113
Hexachlorobenzene	2.7	5.32	ug/Kg	<MDL	800.	638	80		40-111
Pentachlorophenol	27	107	ug/Kg	<MDL	800.	351	44		38-124

KCSlip4 56923
SEA423235

SB:WG86219-2 MB:WG86219-1 Matrix: OTHR SOLID Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Phenanthrene	16	32	ug/Kg	<MDL	800.	712	89		57-104
Anthracene	16	32	ug/Kg	<MDL	800.	653	82		45-114
Di-N-Butyl Phthalate	20	40	ug/Kg	<MDL	800.	795	99		17-180
Fluoranthene	32	64	ug/Kg	<MDL	800.	813	102		55-132
Pyrene	16	32	ug/Kg	<MDL	800.	819	102		48-132
Benzyl Butyl Phthalate	24	48	ug/Kg	<MDL	800.	811	101		15-183
Benzo(a)anthracene	8	16	ug/Kg	<MDL	800.	804	101		69-117
Chrysene	16	32	ug/Kg	<MDL	800.	723	90		69-111
Bis(2-Ethylhexyl)Phthalate	27	56	ug/Kg	<MDL	800.	781	98		10-182
Di-N-Octyl Phthalate	32	64	ug/Kg	<MDL	800.	801	100		10-200
Benzo(b)fluoranthene	12	24	ug/Kg	<MDL	800.	710	89		50-121
Benzo(k)fluoranthene	12	24	ug/Kg	<MDL	800.	861	108		58-128
Benzo(a)pyrene	12	24	ug/Kg	<MDL	800.	687	86		15-137
Indeno(1,2,3-Cd)Pyrene	36	72	ug/Kg	<MDL	800.	587	73		51-132
Dibenzo(a,h)anthracene	28	56	ug/Kg	<MDL	800.	719	90		53-129
Benzo(g,h,i)perylene	32	64	ug/Kg	<MDL	800.	692	86		46-126
Aniline	21	152	ug/Kg	<MDL	800.	22	3	*	10-102
Benzyl Alcohol	24	48	ug/Kg	<MDL	800.	335	42		10-119
2-Methylphenol	64	128	ug/Kg	<MDL	800.	151	19		16-91
4-Methylphenol	64	128	ug/Kg	<MDL	800.	173	22		10-125
Benzoic Acid	53	267	ug/Kg	<MDL	800.	230	28		10-170
2-Methylnaphthalene	56	112	ug/Kg	<MDL	800.	388	48		22-99
2,4,5-Trichlorophenol	48	96	ug/Kg	<MDL	800.	507	63		33-113
Dibenzofuran	56	112	ug/Kg	<MDL	800.	529	66		37-97
Carbazole	28	56	ug/Kg	<MDL	800.	729	91		44-179
Coprostanol	56	112	ug/Kg	<MDL	8000	4010	50		10-159
Caffeine	24	48	ug/Kg	<MDL	800.	811	101		45-159
Pyridine	110	213	ug/Kg	<MDL	800.	190	23		10-100

MSD:WG86219-4 MS:WG86219-3 L39396-1 Matrix: IN-LINESED Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec	Qual	LabLimit	Truevalue	MSD Value	% Rec	Qual	RPD	Qual	Lablimit
N-Nitrosodimethylamine	80	160	ug/Kg	<MDL	800.	319	40		10-119	800.	298	37		8		100
Phenol	36	72	ug/Kg	<MDL	800.	541	68		10-127	800.	420	52		27		100
Bis(2-Chloroethyl)Ether	60	120	ug/Kg	<MDL	800.	312	39		10-80	800.	280	35		11		100
2-Chlorophenol	32	64	ug/Kg	<MDL	800.	433	54		10-112	800.	374	47		14		100
1,3-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	302	38		10-103	800.	291	36		5		100
1,4-Dichlorobenzene	.53	1.06	ug/Kg	<MDL	800.	323	40		10-104	800.	305	38		5		100
1,2-Dichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	330	41		10-105	800.	321	40		2		100
Bis(2-Chloroisopropyl)Ether	60	120	ug/Kg	<MDL	800.	481	60		10-142	800.	397	50		18		100
N-Nitrosodi-N-Propylamine	36	72	ug/Kg	<MDL	800.	528	66		10-176	800.	413	52		24		100
Hexachloroethane	60	120	ug/Kg	<MDL	800.	338	42		10-89	800.	313	39		7		100
Nitrobenzene	64	128	ug/Kg	<MDL	800.	446	56		10-105	800.	364	45		22		100
Isophorone	76	152	ug/Kg	<MDL	800.	614	77		16-130	800.	482	60		25		100
2-Nitrophenol	60	120	ug/Kg	<MDL	800.	459	57		20-107	800.	385	48		17		100
2,4-Dimethylphenol	28	56	ug/Kg	<MDL	800.	269	34		10-150	800.	148	18		62		100
Bis(2-Chloroethoxy)Methane	68	136	ug/Kg	<MDL	800.	519	65		23-103	800.	405	51		24		100
2,4-Dichlorophenol	64	128	ug/Kg	<MDL	800.	614	77		24-142	800.	482	60		25		100
1,2,4-Trichlorobenzene	1.1	2.12	ug/Kg	<MDL	800.	464	58		10-115	800.	387	48		19		100

KCSlip4 56924
SEA423236

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/18/06 02:25
Run ID: R114498 Workgroup: WG86219 (bs#220 bnall)

MSD:WG86219-4 MS:WG86219-3 L39396-1 Matrix: IN-LINESED Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit	Truevalue	MSD Value	% Rec.	Qual	RPD	Qual	Lablimit
Naphthalene	56	112	ug/Kg	<MDL	800.	464	58		12-97	800.	378	47		21		100
Hexachlorobutadiene	3	6	ug/Kg	<MDL	800.	440	55		10-97	800.	372	46		18		100
2,4,6-Trichlorophenol	52	104	ug/Kg	<MDL	800.	638	80		26-153	800.	573	72		11		100
2-Chloronaphthalene	64	128	ug/Kg	<MDL	800.	682	85		26-111	800.	563	70		19		100
Acenaphthylene	60	120	ug/Kg	<MDL	800.	678	85		27-132	800.	585	73		15		100
Dimethyl Phthalate	44	88	ug/Kg	<MDL	800.	739	92		13-162	800.	674	84		9		100
2,6-Dinitrotoluene	40	80	ug/Kg	<MDL	800.	676	85		10-183	800.	630	79		7		100
Acenaphthene	28	56	ug/Kg	<MDL	800.	627	78		25-130	800.	570	71		9		100
2,4-Dinitrotoluene	12	24	ug/Kg	<MDL	800.	670	84		27-166	800.	641	80		5		100
Fluorene	52	88	ug/Kg	<MDL	800.	752	94		22-147	800.	700	87		8		100
Diethyl Phthalate	24	48	ug/Kg	<MDL	800.	750	94		31-150	800.	719	90		4		100
4-Chlorophenyl Phenyl Ether	52	104	ug/Kg	<MDL	800.	713	89		25-139	800.	686	86		3		100
N-Nitrosodiphenylamine	80	160	ug/Kg	<MDL	800.	700	87		10-169	800.	626	78		11		100
1,2-Diphenylhydrazine	40	80	ug/Kg	<MDL	800.	663	83		16-162	800.	573	72		14		100
4-Bromophenyl Phenyl Ether	36	72	ug/Kg	<MDL	800.	712	89		30-146	800.	666	83		7		100
Hexachlorobenzene	2.7	5.32	ug/Kg	<MDL	800.	694	87		18-151	800.	630	79		10		100
Pentachlorophenol	27	107	ug/Kg	<MDL	800.	475	59		17-170	800.	447	56		5		100
Phenanthrene	16	32	ug/Kg	405	800.	1110	88		10-200	800.	974	71		21		100
Anthracene	16	32	ug/Kg	36.2	800.	694	82		10-181	800.	609	72		13		100
Di-N-Butyl Phthalate	20	40	ug/Kg	<MDL	800.	793	99		10-194	800.	723	90		10		100
Fluoranthene	32	64	ug/Kg	1100	800.	1810	88		12-188	800.	1560	58		41		100
Pyrene	16	32	ug/Kg	835	800.	1560	91		20-174	800.	1430	74		21		100
Benzyl Butyl Phthalate	24	48	ug/Kg	66	800.	864	100		41-145	800.	848	98		2		100
Benzo(a)anthracene	8	16	ug/Kg	285	800.	1060	97		32-168	800.	942	82		17		100
Chrysene	16	32	ug/Kg	584	800.	1230	81		14-184	800.	1130	68		17		100
Bis(2-Ethylhexyl)Phthalate	27	56	ug/Kg	36800	800.	41600	609	*	10-189	800.	32800	-494	*			100
Di-N-Octyl Phthalate	32	64	ug/Kg	63	800.	858	99		52-151	800.	819	95		4		100
Benzo(b)fluoranthene	12	24	ug/Kg	753	800.	1220	59		10-199	800.	1130	47		23		100
Benzo(k)fluoranthene	12	24	ug/Kg	496	800.	1430	116		10-192	800.	1210	90		25		100
Benzo(a)pyrene	12	24	ug/Kg	427	800.	1040	76		10-200	800.	893	58		27		100
Indeno(1,2,3-Cd)Pyrene	36	72	ug/Kg	394	800.	893	62		10-177	800.	787	49		23		100
Dibenzo(a,h)anthracene	28	56	ug/Kg	106	800.	795	86		10-166	800.	728	78		10		100
Benzo(g,h,i)perylene	32	64	ug/Kg	424	800.	1050	78		10-173	800.	928	63		21		100
Aniline	21	152	ug/Kg	<MDL	800.	23	3	*	10-67	800.	17	2	*	40		100
Benzyl Alcohol	24	48	ug/Kg	<MDL	800.	431	54		10-138	800.	357	45		18		100
2-Methylphenol	64	128	ug/Kg	<MDL	800.	471	59		16-142	800.	355	44		29		100
4-Methylphenol	64	128	ug/Kg	<MDL	800.	526	65		10-163	800.	399	50		28		100
Benzoic Acid	53	267	ug/Kg	160	800.	575	52		10-158	800.	515	45		14		100
2-Methylnaphthalene	56	112	ug/Kg	<MDL	800.	596	75		22-112	800.	477	60		22		100
2,4,5-Trichlorophenol	48	96	ug/Kg	<MDL	800.	633	79		23-166	800.	629	79		0		100
Dibenzofuran	56	112	ug/Kg	<MDL	800.	706	88		21-134	800.	656	82		7		100
Carbazole	28	56	ug/Kg	76.2	800.	744	84		16-200	800.	695	77		9		100
Coprostanol	56	112	ug/Kg	660	8000	3520	36		10-183	8000	3230	32		12		100
Caffeine	24	48	ug/Kg	<MDL	800.	667	83		17-195	800.	621	78		6		100
Pyridine	110	213	ug/Kg	<MDL	800.	160	20		10-100	800.	150	19		5		100

KCSlip4 56925
SEA423237

LD:WG86219-5 L39363-2 Matrix: IN-LINESED Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
N-Nitrosodimethylamine	800	1600	ug/Kg	<MDL	<MDL			100
Phenol	360	720	ug/Kg	<MDL	<MDL			100
Bis(2-Chloroethyl)Ether	600	1200	ug/Kg	<MDL	<MDL			100
2-Chlorophenol	320	640	ug/Kg	<MDL	<MDL			100
1,3-Dichlorobenzene	11	21.2	ug/Kg	<MDL	<MDL			100
1,4-Dichlorobenzene	5.3	10.6	ug/Kg	<MDL	<MDL			100
1,2-Dichlorobenzene	11	21.2	ug/Kg	<MDL	<MDL			100
Bis(2-Chloroisopropyl)Ether	600	1200	ug/Kg	<MDL	<MDL			100
N-Nitrosodi-N-Propylamine	360	720	ug/Kg	<MDL	<MDL			100
Hexachloroethane	600	1200	ug/Kg	<MDL	<MDL			100
Nitrobenzene	640	1280	ug/Kg	<MDL	<MDL			100
Isophorone	760	1520	ug/Kg	<MDL	<MDL			100
2-Nitrophenol	600	1200	ug/Kg	<MDL	<MDL			100
2,4-Dimethylphenol	280	560	ug/Kg	<MDL	<MDL			100
Bis(2-Chloroethoxy)Methane	680	1360	ug/Kg	<MDL	<MDL			100
2,4-Dichlorophenol	640	1280	ug/Kg	<MDL	<MDL			100
1,2,4-Trichlorobenzene	11	21.2	ug/Kg	<MDL	<MDL			100
Naphthalene	560	1120	ug/Kg	<MDL	<MDL			100
Hexachlorobutadiene	30	60	ug/Kg	<MDL	<MDL			100
2,4,6-Trichlorophenol	520	1040	ug/Kg	<MDL	<MDL			100
2-Chloronaphthalene	640	1280	ug/Kg	<MDL	<MDL			100
Acenaphthylene	600	1200	ug/Kg	<MDL	<MDL			100
Dimethyl Phthalate	440	880	ug/Kg	<MDL	<MDL			100
2,6-Dinitrotoluene	400	800	ug/Kg	<MDL	<MDL			100
Acenaphthene	280	560	ug/Kg	<MDL	<MDL			100
2,4-Dinitrotoluene	120	240	ug/Kg	<MDL	<MDL			100
Fluorene	520	880	ug/Kg	<MDL	<MDL			100
Diethyl Phthalate	240	480	ug/Kg	<MDL	<MDL			100
4-Chlorophenyl Phenyl Ether	520	1040	ug/Kg	<MDL	<MDL			100
N-Nitrosodiphenylamine	800	1600	ug/Kg	<MDL	<MDL			100
1,2-Diphenylhydrazine	400	800	ug/Kg	<MDL	<MDL			100
4-Bromophenyl Phenyl Ether	360	720	ug/Kg	<MDL	<MDL			100
Hexachlorobenzene	27	53.2	ug/Kg	<MDL	<MDL			100
Pentachlorophenol	270	1070	ug/Kg	<MDL	<MDL			100
Phenanthrene	160	320	ug/Kg	3530	3360	5		100
Anthracene	160	320	ug/Kg	320	320			100
Di-N-Butyl Phthalate	200	400	ug/Kg	<MDL	<MDL			100
Fluoranthene	320	640	ug/Kg	8630	8500	1		100
Pyrene	160	320	ug/Kg	6690	6570	2		100
Benzyl Butyl Phthalate	240	480	ug/Kg	524	548	4		100
Benzo(a)anthracene	80	160	ug/Kg	1840	1820	1		100
Chrysene	160	320	ug/Kg	4870	4810	1		100
Bis(2-Ethylhexyl)Phthalate	270	560	ug/Kg	18800	20000	6		100
Di-N-Octyl Phthalate	320	640	ug/Kg	<MDL	<MDL			100
Benzo(b)fluoranthene	120	240	ug/Kg	5280	5420	3		100
Benzo(k)fluoranthene	120	240	ug/Kg	3580	3510	2		100
Benzo(a)pyrene	120	240	ug/Kg	2960	2960	0		100
Indeno(1,2,3-Cd)Pyrene	360	720	ug/Kg	2640	2580	2		100
Dibenzo(a,h)anthracene	280	560	ug/Kg	797	753	6		100
Benzo(g,h,i)perylene	320	640	ug/Kg	3070	3040	1		100
Aniline	760	1520	ug/Kg	<MDL	<MDL			100

KCSlip4 56926
SEA423238

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report 07/18/06 02:25
Run ID: R114498 Workgroup: WG86219 (bs#220 bmall)

LD:WG86219-5 L39363-2 Matrix: IN-LINESED Listtype: ORBNALL Method: EPA 3550B/8270C (7-3-01-004) Project: 421168-40 Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
Benzyl Alcohol	240	480	ug/Kg	<MDL	<MDL			100
2-Methylphenol	640	1280	ug/Kg	<MDL	<MDL			100
4-Methylphenol	640	1280	ug/Kg	720	660			100
Benzoic Acid	530	2670	ug/Kg	<MDL	<MDL			100
2-Methylnaphthalene	560	1120	ug/Kg	<MDL	<MDL			100
2,4,5-Trichlorophenol	480	960	ug/Kg	<MDL	<MDL			100
Dibenzofuran	560	1120	ug/Kg	<MDL	<MDL			100
Carbazole	280	560	ug/Kg	852	826	3		100
Coprostanol	560	1120	ug/Kg	6600	9020	31		100
Caffeine	240	480	ug/Kg	<MDL	<MDL			100
Pyridine	1100	2130	ug/Kg	<MDL	<MDL			100

KCSlip4 56927
SEA423239

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/18/06 02:25
Run ID: R114498 Workgroup: WG86219 (bs#220 bnall)

Sample #	2-Fluorophenol	d5-Phenol	d5-Nitrobenzene	d4-2-Chlorophenol	d4-1,2-Dichlorobenzene	2-Fluorobiphenyl	2,4,6-Tribromophenol	d14-Terphenyl
(Lab Limits)	10-122	10-106	28-94	11-105	24-91	31-101	29-112	51-130
L39363-1	52	79	87	78	49	114 *	185 *	131 *
L39363-2	76	97	99 *	86	64	108 *	167 *	121
L39363-3	51	69	95 *	66	44	95	173 *	119
L39363-4	53	79	75	72	45	84	172 *	122
L39363-5	63	85	88	81	51	105 *	163 *	117
L39363-6	63	82	69	82	52	105 *	176 *	117
L39363-7	62	83	88	80	51	99	172 *	119
L39363-8	73	88	98 *	79	66	100	162 *	132 *
L39396-1	46	65	59	60	42	93	108	128
WG86219-1	42	54	55	52	35	68	66	130
WG86219-2	37	48	46	42	40	53	55	102
WG86219-3	49	67	57	56	41	78	74	97
WG86219-4	44	52	47	48	40	67	72	92
WG86219-5	64	85	78	86	59	118 *	166 *	134 *

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SEA423240

Trace Organics Data Anomaly Form

Date(s) Occurred: *06/06/19*

WG #(s): *WG86219*

☒ **All samples in WKGP(s) or Sample #(s):**

Project #(s): *421168-40*

Matrix: ☐ **Liquid** ☒ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA ☒ BNALL ☐ EDC ☐ EDC-LVI
☐ CLPESTPCB ☐ PEST ☐ PCB ☐ OPPEST
☐ VOA-GCMS ☐ NWTPH-GX ☐ NWTPH-DX ☐ NWTPH-HCID
☐ BUTYL TIN ☐ AIRTOX ☐ AIR-SULFUR
☐ Other:
☐ Subcontracted:

II. Instrument

GC/ICP/MS: ☐ P
GC/MS: ☐ D ☐ E ☒ J ☐ K ☐ L ☐ M ☐ N
GC: ☐ F ECD ☐ G ECD ☐ H FID ☐ H OI4450PID/FID
☐ I FID
Extraction/Cleanup: ☐ PFE ☐ GPC
☐ Other:

III. Type of Sample/Analytical Anomaly

☐ Values Outside of Control Limits:

1 ☐ Blank Contamination
2 ☐ SB/SBD Spike Recoveries
3 ☐ MS/MSD Spike Recoveries
4 ☐ LCS/SRM Recoveries
5 ☐ Initial Calibration
6 ☐ Performance Checks
7 ☐ ISTD % Differences
8 ☒ Surrogate Spike Recoveries
9 ☐ SB/SBD RPD
10 ☒ MS/MSD RPD
11 ☐ Sample/LD RPD
12 ☐ Continuing Calibration Checks
13 ☐ Tuning Criteria

14 ☐ Holding time exceeded by:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☒ Other

Anomaly Description:

8. Samples L39363-1 to L39363-8 and WG86219-5 LD had surrogates exceed the upper lab limit recoveries for d5-nitrobenzene, 2-fluorophenol, 2,4,6-tribromophenol, and d14-terphenyl. All samples were analyzed at X 10 dilution due to sample color and viscosity. The surrogate MDLs were lowered to

generated recoveries which may be biased slightly high due to the concentrations of the surrogates on the calibration curve. The MB, SB, MS, MSD and L39396-1 were analyzed at 1 ml final volume and all were within lab limits.

10. The MS/MSD and RPD recoveries for bis(2EH) phthalate exceeded QA/QC limits due to extremely high native concentration. The samples were spiked with the "high" concentration solution (15 ppm) however, the native concentration was approximately 15 times higher.

17 All samples were analyzed at X 10 dilution due to sample color and viscosity with exception of WG86219-1, -2, -3, -4 and L39396-1 which were initially analyzed at 1 ml final volume. WG86219-3, 4 and L39396-1 were re-analyzed at X 10 dilution due to bis(2EH) phthalate concentration exceeding the calibration curve.

IV. Type of Project Anomaly

- ☐ SAP/Work Plan specified MDLs not met.
- ☐ SAP/Work Plan specified QC frequency or QC type not met.
- ☐ SAP/Work Plan specified methodology not used.
- ☐ Sample exceeds regulatory and/or hazardous waste limits.
- ☐ Sample data results are unusual or inconsistent with expected results.
- ☐ Other

Anomaly Description:

V. Corrective Action Taken

- ☒ Sample(s) re-analyzed
- ☐ Sample(s) re-prepared and re-analyzed
- ☒ Sample(s) reported "AS IS"
- ☐ Data qualified with the following flags:
- ☐ Other

Corrective Action Description:

VI. Potential Effects on Data Quality

Based upon the expected performance of this method:

- ☐ It is likely the observed anomaly influenced the reported value(s).
- ☒ It is unlikely the observed anomaly influenced the reported value(s).
- ☐ The observed anomaly may have influenced the reported value(s).
- ☐ It is unknown whether or not the observed anomaly affected the reported value(s).

Explanation:

	Signatures	Signature Dates
Reported By: *M. Doubrava*		7/19/06
Reviewer:		
Supervisor: *Dana Walker*	Dana M. Walker	7/24/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM: *F. Grothkopp*		

July 19, 2006
ORGJ_DAF060619WG86219

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Aug 29 2006, 04:47 pm

Work Group: WG86187 (WTPH-DS#184) for Department: 7 - Organics, Trace

Created: 12-JUN-06 PrepDate: 13-JUN-06 Due: Operator: KM/JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39133-1	421196AB	KCRM Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39133-2	421196AB	KCRM - Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39133-4	421196AB	KCRM - Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39133-6	421196AB	KCRM - Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39133-7	421196AB	KCRM - Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39133-8	421196AB	KCRM - Ditches		S	WTPH-DX	SOIL	DONE	I	20-JUN-06	21-JUL-06
L39363-1	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	22-JUN-06	08-JUL-06
L39363-2	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	21-JUN-06	08-JUL-06
L39363-3	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	21-JUN-06	08-JUL-06
L39363-4	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	21-JUN-06	08-JUL-06
L39363-5	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	20-JUN-06	08-JUL-06
L39363-6	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	20-JUN-06	08-JUL-06
L39363-7	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	20-JUN-06	08-JUL-06
L39363-8	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	20-JUN-06	08-JUL-06
L39396-1	421168-40	Lander sampling, fieldwork & lab		S	WTPH-DX	IN-LINESED	DONE	I	20-JUN-06	06-JUL-06
WG86187-1	MB			S	WTPH-DX	OTHR SOLID	DONE	U	12-JUN-06	
WG86187-2	SB			S	WTPH-DX	OTHR SOLID	DONE	U	12-JUN-06	
WG86187-3	SB			S	WTPH-DX	OTHR SOLID	DONE	U	12-JUN-06	
WG86187-4	LD			S	WTPH-DX	SOIL	DONE	U	12-JUN-06	
WG86187-5	LD			S	WTPH-DX	IN-LINESED	DONE	U	12-JUN-06	

Comments

L39396-1	Effluent location
WG86187-1	MB060613
WG86187-2	WG86187-1 SB-MO
WG86187-3	WG86187-1 SB-DSL
WG86187-4	L39133-8
WG86187-5	L39363-1

KCSlip4 56932

SEA423244

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/21/06 12:22
Run ID: R114128 Workgroup: WG86187 (WTPH-DS#184)

MB:WG86187-1 Matrix: OTHR SOLID Listtype: ORWTPH-DX Method: WDOE NWTPH-DX (7-3-06-001) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Diesel Range (>C12-C24)	25	25	mg/Kg	<MDL	
Lube Oil Range (>C24)	25	25	mg/Kg	<MDL	

SB:WG86187-2 MB:WG86187-1 Matrix: OTHR SOLID Listtype: ORWTPH-DX Method: WDOE NWTPH-DX (7-3-06-001) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Lube Oil Range (>C24)	25	25	mg/Kg	<MDL	150.	140	93		50-150

SB:WG86187-3 MB:WG86187-1 Matrix: OTHR SOLID Listtype: ORWTPH-DX Method: WDOE NWTPH-DX (7-3-06-001) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Diesel Range (>C12-C24)	25	25	mg/Kg	<MDL	150.	132	88		50-150

LD:WG86187-4 L39133-8 Matrix: SOIL Listtype: ORWTPH-DX Method: WDOE NWTPH-DX (7-3-06-001) Project: Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
Lube Oil Range (>C24)	25	25	mg/Kg	152	143	6		100

LD:WG86187-5 L39363-1 Matrix: IN-LINESED Listtype: ORWTPH-DX Method: WDOE NWTPH-DX (7-3-06-001) Project: Pkey: STD
(Lab Duplicate)

Parameter	Mdl	Rdl	Units	SampValue	LD Value	RPD	Qual	LabLimit
Diesel Range (>C12-C24)	25	25	mg/Kg	3770	3960	5		100
Lube Oil Range (>C24)	25	25	mg/Kg	27500	28400	3		100

KCSlip4 56933
SEA423245

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/21/06 12:22
Run ID: R114128 Workgroup: WG86187 (WTPH-DS#184)

Sample #	2-Fluorobiphenyl	Pentacosane
(Lab Limits)	50-150	50-150
L39133-1	125	141
L39133-2	124	139
L39133-4	127	143
L39133-6	120	135
L39133-7	118	129
L39133-8	120	135
L39363-1	182 *	269 *
L39363-2	525 *	183 *
L39363-3	129	180 *
L39363-4	144	167 *
L39363-5	204 *	188 *
L39363-6	148	179 *
L39363-7	223 *	203 *
L39363-8	134	214 *
L39396-1	125	149
WG86187-1	109	118
WG86187-2	112	125
WG86187-3	130	127
WG86187-4	117	135
WG86187-5	178 *	231 *

KCSlip4 56934
SEA423246

July 10th; as the lump came out in the same range as our library source and this is not unexpected from these samples. These ~~two~~ samples had values for hydraulic fluid reported in the diesel range with text added "calibrated as hydraulic fluid"

IV. Type of Project Anomaly

- ☐ SAP/Work Plan specified MDLs not met.
- ☐ SAP/Work Plan specified QC frequency or QC type not met.
- ☐ SAP/Work Plan specified methodology not used.
- ☐ Sample exceeds regulatory and/or hazardous waste limits.
- ☐ Sample data results are unusual or inconsistent with expected results.
- ☐ Other

Anomaly Description:

V. Corrective Action Taken

- ☒ Sample(s) re-analyzed
- ☐ Sample(s) re-prepared and re-analyzed
- ☒ Sample(s) reported "AS IS"
- ☒ Data qualified with the following flags: *H & TA*
- ☐ Other

Corrective Action Description: *See above description*

VI. Potential Effects on Data Quality

Based upon the expected performance of this method:

- ☐ It is <u>likely</u> the observed anomaly influenced the reported value(s).
- ☒ It is <u>unlikely</u> the observed anomaly influenced the reported value(s).
- ☐ The observed anomaly <u>may have</u> influenced the reported value(s).
- ☐ It is <u>unknown</u> whether or not the observed anomaly affected the reported value(s).

Explanation:

	Signatures	Signature Dates
Reported By: *Gretchen Nerlin*	[signature]	7/11/06
Reviewer: *Jim Fiscus*	[signature]	7-11-06
Supervisor: *Dana Walker*	Dana M. Walker	7/11/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM: *Katherine Bourbonais*		

Trace Organics Data Anomaly Form

Date(s) Occurred: *6/19/06 & 7/10/06*

WG #(s): *WG86187*

☐ **All samples in WKGP(s) or Sample #(s):** *L39363-1-->-8, L39396-1*

Project #(s): *421168-040*

Matrix: ☐ **Liquid** ☒ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA	☐ BNALL	☐ EDC	☐ EDC-LVI
☐ CLPESTPCB	☐ PEST	☐ PCB	☐ OPPEST
☐ VOA-GCMS	☐ NWTPH-GX	☒ NWTPH-DX	☐ NWTPH-HCID
☐ BUTYL TIN	☐ AIRTOX	☐ AIR-SULFUR	
☐ Other:			
☐ Subcontracted:			

II. Instrument

GC/ICP/MS:	☐ P
GC/MS:	☐ D ☐ E ☐ J ☐ K ☐ L ☐ M ☐ N
GC:	☐ F ECD ☐ G ECD ☐ H FID ☐ H OI4450PID/FID
	☒ I FID
Extraction/Cleanup:	☐ PFE ☐ GPC
	☐ Other:

III. Type of Sample/Analytical Anomaly

☒ Values Outside of Control Limits:

- [1] ☐ Blank Contamination
- [2] ☐ SB/SBD Spike Recoveries
- [3] ☐ MS/MSD Spike Recoveries
- [4] ☐ LCS/SRM Recoveries
- [5] ☐ Initial Calibration
- [6] ☐ Performance Checks
- [7] ☐ ISTD % Differences
- [8] ☒ Surrogate Spike Recoveries
- [9] ☐ SB/SBD RPD
- [10] ☐ MS/MSD RPD
- [11] ☐ Sample/LD RPD
- [12] ☐ Continuing Calibration Checks
- [13] ☐ Tuning Criteria

[14] ☐ Holding time exceeded by:
[15] ☐ Insufficient sample amount.
[16] ☒ Inappropriate storage, container or preservation.
[17] ☒ Other

Anomaly Description: *16. All samples were frozen prior to extraction; all samples are "H" qualified with text. 8. All samples had high surrogate recoveries, this is due to overlapping peaks in the same range (125-525% recovery). 17. Most the samples diesel and lube oil values are reported from a dilution; the dilution amount is stated in the text value field. Several samples had text added of "weathered diesel". Samples ~~L39363-8 and~~ L39396-1 were reanalyzed with a hydraulic fluid curve on*

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Aug 29 2006, 04:46 pm

Work Group: WG86155 (PPS#335 PCB) for Department: 7 - Organics, Trace

Created: 08-JUN-06 PrepDate: 09-JUN-06 Due: Operator: KM/JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39361-1	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-10	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	20-JUN-06	05-AUG-06
L39361-2	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-3	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-4	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-5	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-6	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-7	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN LINESED	DONE	I	15-JUN-06	15-JUN-06
L39361-8	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
L39395-1	421168 40	Lander sampling, fieldwork & lab	S		PCB	IN-LINESED	DONE	I	15-JUN-06	15-JUN-06
WG86155-1	MB		S		PCB	OTHR SOLID	DONE	U	08-JUN-06	
WG86155-2	SB		S		PCB	OTHR SOLID	DONE	U	08-JUN-06	
WG86155-3	MS		S		PCB	IN-LINESED	DONE	U	08-JUN-06	
WG86155-4	MSD		S		PCB	IN-LINESED	DONE	U	08-JUN-06	

Comments:

L39361-10	Field replicate
L39395-1	Effluent location
WG86155-1	MB060609
WG86155-2	WG86155-1
WG86155-3	L39361 5
WG86155-4	WG86155 3 L39361 5

KCSlip4 56937

SEA423249

PPS 335

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/15/06 12:57
Run ID: R114033 Workgroup: WG86155 (PPS#335 PCB)

MB:WG86155-1 Matrix: OTHR SOLID Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	13	26.7	ug/Kg	<MDL	
Aroclor 1221	13	26.7	ug/Kg	<MDL	
Aroclor 1232	13	26.7	ug/Kg	<MDL	
Aroclor 1242	13	26.7	ug/Kg	<MDL	
Aroclor 1248	13	26.7	ug/Kg	<MDL	
Aroclor 1254	13	26.7	ug/Kg	<MDL	
Aroclor 1260	13	26.7	ug/Kg	<MDL	

SB:WG86155-2 MB:WG86155-1 Matrix: OTHR SOLID Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Aroclor 1016	13	26.7	ug/Kg	<MDL	200.	126	63		39-121
Aroclor 1260	13	26.7	ug/Kg	<MDL	200.	187	93		53-140

MSD:WG86155-4 MS:WG86155-3 L39361-5 Matrix: IN-LINESED Listtype: ORPCB Method: EPA 3550B/8082 (7-3-03-002) Project: 421158-40 Pkey: STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	LabLimit	Truevalue	MSD Value	% Rec.	Qual	RPD	Qual	Lablimit
Aroclor 1016	13	26.7	ug/Kg	<MDL	200.	210	105		32-164	200.	207	103		2		100
Aroclor 1260	13	26.7	ug/Kg	72.5	200.	231	79		28-144	200.	226	77		3		100

PCB

KCSlip4 56938
SEA423250

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/15/06 12:57
Run ID: R114033 Workgroup: WG86155 (PPS#335 PCB)

Sample #	2,4,5,6-Tetrachlo-ro-m-xylene	Decachlorobipheny-l
(Lab Limits)	30-134	15-155
L39361-1	90	35
L39361-2	101	120
L39361-3	110	87
L39361-4	89	79
L39361-5	104	74
L39361-6	77	66
L39361-7	86	67
L39361-8	106	91
L39361-10	92	84
L39395-1	90	80
WG86155-1	32	84
WG86155-2	60	79
WG86155-3	95	71
WG86155-4	100	70

KCSlip4 56939
SEA423251

Trace Organics Data Anomaly Form

Date(s) Occurred: *06/14/2006*

WG #(s): *86155*

☒ **All samples in WKGP(s) or Sample #(s):**

Project #(s): *421168*

Matrix: ☐ **Liquid** ☒ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA	☐ BNALL	☐ EDC	☐ EDC-LVI
☐ CLPESTPCB	☐ PEST	☒ PCB	☐ OPPEST
☐ VOA-GCMS	☐ NWTPH-GX	☐ NWTPH-DX	☐ NWTPH-HCID
☐ BUTYL TIN	☐ AIRTOX	☐ AIR-SULFUR	
☐ Other:			
☐ Subcontracted:			

II. Instrument

GC/ICP/MS:	☐ P
GC/MS:	☐ D ☐ E ☐ J ☐ K ☐ L ☐ M ☐ N
GC:	☐ F ECD ☒ G ECD ☐ H FID ☐ H OI4450PID/FID
	☐ I FID
Extraction/Cleanup:	☐ PFE ☐ GPC
	☐ Other:

III. Type of Sample/Analytical Anomaly

☐ Values Outside of Control Limits:

1 ☐ Blank Contamination	8 ☒ Surrogate Spike Recoveries
2 ☐ SB/SBD Spike Recoveries	9 ☐ SB/SBD RPD
3 ☐ MS/MSD Spike Recoveries	10 ☐ MS/MSD RPD
4 ☐ LCS/SRM Recoveries	11 ☐ Sample/LD RPD
5 ☐ Initial Calibration	12 ☒ Continuing Calibration Checks
6 ☐ Performance Checks	13 ☐ Tuning Criteria
7 ☐ ISTD % Differences	

14 ☐ Holding time exceeded by:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☐ Other

Anomaly Description: *8. Surrogate recoveries on the front column for samples WG86155-3,4 (MS and MSD using L39361-5), and L39361-(5,7,8) were enhanced by some unknown peak overlaying DCB. This would have resulted in recoveries averaging about 220% for DCB. All surrogates are reported from the rear column. 12. Surrogate recoveries for PCB-02,04,07,08,09 reflect the last 2 days of*

running these samples. While all have at least one surrogate within range (85-115%), the last 3 have low DCB recovery following the samples.

. **Type of Project Anomaly**

☐ SAP/Work Plan specified MDLs not met.
☐ SAP/Work Plan specified QC frequency or QC type not met.
☐ SAP/Work Plan specified methodology not used.
☐ Sample exceeds regulatory and/or hazardous waste limits.
☐ Sample data results are unusual or inconsistent with expected results.
☐ Other

Anomaly Description:

V. **Corrective Action Taken**

☒ Sample(s) re-analyzed
☒ Sample(s) reported "AS IS"
☐ Data qualified with the following flags:
☐ Other
☐ Sample(s) re-prepared and re-analyzed

Corrective Action Description: *Samples were initially run on 6-13-06 with mixed results (a lot like the 6-14-06 run). All surrogates are reported from the rear column. All sample surrogates are in range. Normal maintenance should bring values for CCALs back into range.*

. **Potential Effects on Data Quality**

Based upon the expected performance of this method:

☐ It is likely the observed anomaly influenced the reported value(s).
☒ It is unlikely the observed anomaly influenced the reported value(s).
☐ The observed anomaly may have influenced the reported value(s).
☐ It is unknown whether or not the observed anomaly affected the reported value(s).

Explanation: *All other QC, spikes, and surrogates are in range and may be used without qualifcation.*

	Signatures	Signature Dates
Reported By: *JSF*		6-14-06
Reviewer: *Gretchen Nerlin*		6/15/06
Supervisor: *Dana Walker*	Dana Walker	6/15/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		