PROJECT: 423589-090-1

King County Environmental Lab Matrix Report

COMBINED LABS-Liquid

Locator	Sample Depth	Lab ID	Anthracene ug/L	Aroclor 1254 ug/L	Aroclor 1260 ug/L	Benzo(a)anthracene ug/L	Benzo(a)pyrene ug/L	Benzo(b)fluoranthene ug/L	Benzo(g,h,i)perylene ug/L	Benzo(k)fluoranthene ug/L	Benzyl Butyl Phthalate ug/L	Bis(2-Ethylhexyl)Phthalate ug/L	Chrysene ug/L	Di-N-Butyl Phthalate ug/L	Di-N-Octyl Phthalate ug/L	Dibenzo(a,h)anthracene ug/L	Diethyl Phthalate ug/L	Dimethyl Phthalate ug/L	Fluoranthene ug/L	Fluorene ug/L	Indeno(1,2,3-Cd)Pyrene ug/L	Phenanthrene ug/L	Pyrene ug/L
CER		L38799-1									0.0201	0.0844		0.136									
CER		L39161-1									0.384	0.534		0.076									
DZ		L39161-2		0.035	0.04			0.2	0.21	0.17	0.303	2.76	0.238	0.221	2.47				0.289		0.13	0.17	0.304
KCIA		L39161-3	0.14	0.0486		1.13	1.6	2.67	1.69	1.68	0.168	1.77	2.33	0.14		0.453			3.6	0.089	1.47	1.7	3.45
SPCC		L39161-4	0.137			0.069	0.11	0.13	0.12	0.11	0.838	4.14	0.185	0.187				0.091	0.264			0.132	0.264
SPCC		L39161-5						0.11	0.1		0.767	3.18	0.156	0.245			0.12		0.211			0.12	0.211

KCSlip4 58303

SEA424602

PROJECT: 423589-090-1

King County Environmental Lab Matrix Report

COMBINED LABS-Solid

Locator	Sample Depth	Lab ID	Benzo(g,h,i)perylene ug	Benzyl Butyl Phthalate ug	Bis(2-Ethylhexyl)Phthalate ug	Di-N-Butyl Phthalate ug	Di-N-Octyl Phthalate ug	Dibenzo(a,h)anthracene ug	Diethyl Phthalate ug	Fluoranthene ug	Indeno(1,2,3-Cd)Pyrene ug	Phenanthrene ug	Pyrene ug
CER		L38799-2			0.901	0.293							
CER		L39161-6			0.481	0.29							
DZ		L39161-7			0.586	0.345	0.759					0.012	
KCIA		L39161-8		0.309	0.53	0.298			0.068	0.025		0.0239	0.019
SPCC		L39161-9	0.127	0.327	0.739	0.306		0.104	0.099		0.125	0.0206	
SPCC		L39161-10		0.35	0.798	0.329						0.0206	

KCSlip4 58304

SEA424603

King County Environmental Lab Analytical Report

PROJECT: 423589-090-1

Locator:	CER	CER	CER	DZ
Descrip:	DUWAMISH STATION R	DUWAMISH STATION R	DUWAMISH STATION R	GEORGETOWN, 6431 C
Client Loc:	CER-BK-041906-041906	CER-BK-041906-041906	CER-01-042006-052306	DZ-01-042006-052306
Sampled:	Apr 19, 2006	Apr 19, 2006	May 23, 2006	May 23, 2006
Lab ID:	L38799-1	L38799-2	L39161-1	L39161-2
Matrix:	BLANK WTR	OTHR SOLID	STORM WTR	STORM WTR
% Solids:				

Parameters	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
		-Wet Weight Basis					-Wet Weight Basis					-Wet Weight Basis					-Wet Weight Basis			
COMBINED LABS																				
M=OR 8270B																				
2-Methylnaphthalene		<MDL	0.015	0.03	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.1	0.205	ug/L		<MDL	0.13	0.262	ug/L
Acenaphthene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Acenaphthylene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Anthracene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Benzo(a)anthracene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Benzo(a)pyrene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L		<MDL	0.13	0.262	ug/L
Benzo(b)fluoranthene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L	0.2	<RDL	0.13	0.262	ug/L
Benzo(g,h,i)perylene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L	0.21	<RDL	0.13	0.262	ug/L
Benzo(k)fluoranthene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L	0.17	<RDL	0.13	0.262	ug/L
Benzyl Butyl Phthalate	0.0201	B	0.01	0.02	ug/L		<MDL	0.05	0.1	ug	0.384	E	0.068	0.137	ug/L	0.303		0.087	0.175	ug/L
Bis(2-Ethylhexyl)Phthalate	0.0844	B	0.01	0.02	ug/L	0.901	B	0.05	0.1	ug	0.534	E	0.068	0.137	ug/L	2.76		0.087	0.175	ug/L
Chrysene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L	0.238		0.087	0.175	ug/L
Dibenzo(a,h)anthracene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L		<MDL	0.13	0.262	ug/L
Diethyl Phthalate		<MDL	0.015	0.03	ug/L		<MDL	0.05	0.1	ug		<MDL,E	0.1	0.205	ug/L		<MDL	0.13	0.262	ug/L
Dimethyl Phthalate		<MDL	0.01	0.02	ug/L		<MDL	0.05	0.1	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Di-N-Butyl Phthalate	0.136	B	0.01	0.02	ug/L	0.293	B	0.05	0.1	ug	0.076	<RDL,B,E	0.068	0.137	ug/L	0.221	B	0.087	0.175	ug/L
Di-N-Octyl Phthalate		<MDL	0.015	0.03	ug/L		<MDL	0.05	0.1	ug		<MDL,E	0.1	0.205	ug/L	2.47		0.13	0.262	ug/L
Fluoranthene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L	0.289		0.087	0.175	ug/L
Fluorene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L		<MDL	0.087	0.175	ug/L
Indeno(1,2,3-Cd)Pyrene		<MDL	0.015	0.03	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.1	0.205	ug/L	0.13	<RDL	0.13	0.262	ug/L
Naphthalene		<MDL	0.02	0.04	ug/L		<MDL	0.02	0.04	ug		<MDL,E	0.14	0.273	ug/L		<MDL	0.17	0.349	ug/L
Phenanthrene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L	0.17	<RDL	0.087	0.175	ug/L
Pyrene		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug		<MDL,E	0.068	0.137	ug/L	0.304		0.087	0.175	ug/L
M=OR EPA 8081A/8082 (7-3-03-002)																				
Aroclor 1016		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L		<MDL	0.022	0.0437	ug/L
Aroclor 1221		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L		<MDL	0.022	0.0437	ug/L
Aroclor 1232		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L		<MDL	0.022	0.0437	ug/L
Aroclor 1242		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L		<MDL	0.022	0.0437	ug/L
Aroclor 1248		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L		<MDL	0.022	0.0437	ug/L
Aroclor 1254		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L	0.035	<RDL	0.022	0.0437	ug/L
Aroclor 1260		<MDL	0.025	0.05	ug/L		<MDL	50	100	ug		<MDL,E	0.017	0.0341	ug/L	0.04	<RDL	0.022	0.0437	ug/L

KCSlip4 58305

SEA424604

King County Environmental Lab Analytical Report

PROJECT: 423589-090-1

	KCIA	SPCC	SPCC	CER
Locator:	KCIA	SPCC	SPCC	CER
Descrip:	TERMINAL-KING COUN	SOUTH PARK COMMUNI	SOUTH PARK COMMUNI	DUWAMISH STATION R
Client Loc:	KCIAR-01-042006-052306	SPCC-01-042006-052306	SPCC-02-042006-052306	CER-01-042006-052306
Sampled:	May 23, 2006	May 23, 2006	May 23, 2006	May 23, 2006
Lab ID:	L39161-3	L39161-4	L39161-5	L39161-6
Matrix:	STORM WTR	STORM WTR	STORM WTR	OTHR SOLID
% Solids:				

Locator: KCIA — Lab ID: L39161-3 (MDL/RDL: -Wet Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.12	0.244	ug/L
Acenaphthene		<MDL	0.081	0.163	ug/L
Acenaphthylene		<MDL	0.081	0.163	ug/L
Anthracene	0.14	<RDL	0.081	0.163	ug/L
Benzo(a)anthracene	1.13		0.081	0.163	ug/L
Benzo(a)pyrene	1.6		0.12	0.244	ug/L
Benzo(b)fluoranthene	2.67		0.12	0.244	ug/L
Benzo(g,h,i)perylene	1.69		0.12	0.244	ug/L
Benzo(k)fluoranthene	1.68		0.12	0.244	ug/L
Benzyl Butyl Phthalate	0.168		0.081	0.163	ug/L
Bis(2-Ethylhexyl)Phthalate	1.77		0.081	0.163	ug/L
Chrysene	2.33		0.081	0.163	ug/L
Dibenzo(a,h)anthracene	0.453		0.12	0.244	ug/L
Diethyl Phthalate		<MDL	0.12	0.244	ug/L
Dimethyl Phthalate		<MDL	0.081	0.163	ug/L
Di-N-Butyl Phthalate	0.14	<RDL,B	0.081	0.163	ug/L
Di-N-Octyl Phthalate		<MDL	0.12	0.244	ug/L
Fluoranthene	3.6		0.081	0.163	ug/L
Fluorene	0.089	<RDL	0.081	0.163	ug/L
Indeno(1,2,3-Cd)Pyrene	1.47		0.12	0.244	ug/L
Naphthalene		<MDL	0.16	0.325	ug/L
Phenanthrene	1.7		0.081	0.163	ug/L
Pyrene	3.45		0.081	0.163	ug/L
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	0.02	0.0407	ug/L
Aroclor 1221		<MDL	0.02	0.0407	ug/L
Aroclor 1232		<MDL	0.02	0.0407	ug/L
Aroclor 1242		<MDL	0.02	0.0407	ug/L
Aroclor 1248		<MDL	0.02	0.0407	ug/L
Aroclor 1254	0.0486		0.02	0.0407	ug/L
Aroclor 1260		<MDL	0.02	0.0407	ug/L

Locator: SPCC — Lab ID: L39161-4 (MDL/RDL: -Wet Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.099	0.197	ug/L
Acenaphthene		<MDL	0.066	0.132	ug/L
Acenaphthylene		<MDL	0.066	0.132	ug/L
Anthracene	0.137		0.066	0.132	ug/L
Benzo(a)anthracene	0.069	<RDL	0.066	0.132	ug/L
Benzo(a)pyrene	0.11	<RDL	0.099	0.197	ug/L
Benzo(b)fluoranthene	0.13	<RDL	0.099	0.197	ug/L
Benzo(g,h,i)perylene	0.12	<RDL	0.099	0.197	ug/L
Benzo(k)fluoranthene	0.11	<RDL	0.099	0.197	ug/L
Benzyl Butyl Phthalate	0.838		0.066	0.132	ug/L
Bis(2-Ethylhexyl)Phthalate	4.14		0.066	0.132	ug/L
Chrysene	0.185		0.066	0.132	ug/L
Dibenzo(a,h)anthracene		<MDL	0.099	0.197	ug/L
Diethyl Phthalate		<MDL	0.099	0.197	ug/L
Dimethyl Phthalate	0.091	<RDL	0.066	0.132	ug/L
Di-N-Butyl Phthalate	0.187	B	0.066	0.132	ug/L
Di-N-Octyl Phthalate		<MDL	0.099	0.197	ug/L
Fluoranthene	0.264		0.066	0.132	ug/L
Fluorene		<MDL	0.066	0.132	ug/L
Indeno(1,2,3-Cd)Pyrene		<MDL	0.099	0.197	ug/L
Naphthalene		<MDL	0.13	0.263	ug/L
Phenanthrene	0.132		0.066	0.132	ug/L
Pyrene	0.264		0.066	0.132	ug/L
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	0.016	0.0329	ug/L
Aroclor 1221		<MDL	0.016	0.0329	ug/L
Aroclor 1232		<MDL	0.016	0.0329	ug/L
Aroclor 1242		<MDL	0.016	0.0329	ug/L
Aroclor 1248		<MDL	0.016	0.0329	ug/L
Aroclor 1254		<MDL	0.016	0.0329	ug/L
Aroclor 1260		<MDL	0.016	0.0329	ug/L

Locator: SPCC — Lab ID: L39161-5 (MDL/RDL: -Wet Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.1	0.2	ug/L
Acenaphthene		<MDL	0.067	0.133	ug/L
Acenaphthylene		<MDL	0.067	0.133	ug/L
Anthracene		<MDL	0.067	0.133	ug/L
Benzo(a)anthracene		<MDL	0.067	0.133	ug/L
Benzo(a)pyrene		<MDL	0.1	0.2	ug/L
Benzo(b)fluoranthene	0.11	<RDL	0.1	0.2	ug/L
Benzo(g,h,i)perylene	0.1	<RDL	0.1	0.2	ug/L
Benzo(k)fluoranthene		<MDL	0.1	0.2	ug/L
Benzyl Butyl Phthalate	0.767		0.067	0.133	ug/L
Bis(2-Ethylhexyl)Phthalate	3.18		0.067	0.133	ug/L
Chrysene	0.156		0.067	0.133	ug/L
Dibenzo(a,h)anthracene		<MDL	0.1	0.2	ug/L
Diethyl Phthalate	0.12	<RDL	0.1	0.2	ug/L
Dimethyl Phthalate		<MDL	0.067	0.133	ug/L
Di-N-Butyl Phthalate	0.245	B	0.067	0.133	ug/L
Di-N-Octyl Phthalate		<MDL	0.1	0.2	ug/L
Fluoranthene	0.211		0.067	0.133	ug/L
Fluorene		<MDL	0.067	0.133	ug/L
Indeno(1,2,3-Cd)Pyrene		<MDL	0.1	0.2	ug/L
Naphthalene		<MDL	0.13	0.267	ug/L
Phenanthrene	0.12	<RDL	0.067	0.133	ug/L
Pyrene	0.211		0.067	0.133	ug/L
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	0.017	0.0333	ug/L
Aroclor 1221		<MDL	0.017	0.0333	ug/L
Aroclor 1232		<MDL	0.017	0.0333	ug/L
Aroclor 1242		<MDL	0.017	0.0333	ug/L
Aroclor 1248		<MDL	0.017	0.0333	ug/L
Aroclor 1254		<MDL	0.017	0.0333	ug/L
Aroclor 1260		<MDL	0.017	0.0333	ug/L

Locator: CER — Lab ID: L39161-6 (MDL/RDL: -Wet Weight Basis)

Parameters	Value	Qual	MDL	RDL	Units
COMBINED LABS					
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.01	0.02	ug
Acenaphthene		<MDL	0.01	0.02	ug
Acenaphthylene		<MDL	0.01	0.02	ug
Anthracene		<MDL	0.01	0.02	ug
Benzo(a)anthracene		<MDL	0.01	0.02	ug
Benzo(a)pyrene		<MDL	0.02	0.04	ug
Benzo(b)fluoranthene		<MDL	0.02	0.04	ug
Benzo(g,h,i)perylene		<MDL	0.02	0.04	ug
Benzo(k)fluoranthene		<MDL	0.02	0.04	ug
Benzyl Butyl Phthalate		<MDL	0.05	0.1	ug
Bis(2-Ethylhexyl)Phthalate	0.481	B	0.05	0.1	ug
Chrysene		<MDL	0.01	0.02	ug
Dibenzo(a,h)anthracene		<MDL	0.02	0.04	ug
Diethyl Phthalate		<MDL	0.05	0.1	ug
Dimethyl Phthalate		<MDL	0.05	0.1	ug
Di-N-Butyl Phthalate	0.29	B	0.05	0.1	ug
Di-N-Octyl Phthalate		<MDL	0.05	0.1	ug
Fluoranthene		<MDL	0.01	0.02	ug
Fluorene		<MDL	0.01	0.02	ug
Indeno(1,2,3-Cd)Pyrene		<MDL	0.02	0.04	ug
Naphthalene		<MDL	0.02	0.04	ug
Phenanthrene		<MDL	0.01	0.02	ug
Pyrene		<MDL	0.01	0.02	ug
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	50	100	ug
Aroclor 1221		<MDL	50	100	ug
Aroclor 1232		<MDL	50	100	ug
Aroclor 1242		<MDL	50	100	ug
Aroclor 1248		<MDL	50	100	ug
Aroclor 1254		<MDL	50	100	ug
Aroclor 1260		<MDL	50	100	ug

KCSlip4 58306

SEA424605

King County Environmental Lab Analytical Report

PROJECT: 423589-090-1

	DZ	KCIA	SPCC	SPCC
Locator:	DZ	KCIA	SPCC	SPCC
Descrip:	GEORGETOWN, 6431 C	TERMINAL-KING COUN	SOUTH PARK COMMUNI	SOUTH PARK COMMUNI
Client Loc:	DZ-01-042006-052306	KCIA-01-042006-052306	SPCC-01-042006-052306	SPCC-02-042006-052306
Sampled:	May 23, 2006	May 23, 2006	May 23, 2006	May 23, 2006
Lab ID:	L39161-7	L39161-8	L39161-9	L39161-10
Matrix:	OTHR SOLID	OTHR SOLID	OTHR SOLID	OTHR SOLID
% Solids:				

COMBINED LABS

Locator: DZ (Lab ID L39161-7) — Wet Weight Basis

Parameters	Value	Qual	MDL	RDL	Units
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.01	0.02	ug
Acenaphthene		<MDL	0.01	0.02	ug
Acenaphthylene		<MDL	0.01	0.02	ug
Anthracene		<MDL	0.01	0.02	ug
Benzo(a)anthracene		<MDL	0.01	0.02	ug
Benzo(a)pyrene		<MDL	0.02	0.04	ug
Benzo(b)fluoranthene		<MDL	0.02	0.04	ug
Benzo(g,h,i)perylene		<MDL	0.02	0.04	ug
Benzo(k)fluoranthene		<MDL	0.02	0.04	ug
Benzyl Butyl Phthalate		<MDL	0.05	0.1	ug
Bis(2-Ethylhexyl)Phthalate	0.586	B	0.05	0.1	ug
Chrysene		<MDL	0.01	0.02	ug
Dibenzo(a,h)anthracene		<MDL	0.02	0.04	ug
Diethyl Phthalate		<MDL	0.05	0.1	ug
Dimethyl Phthalate		<MDL	0.05	0.1	ug
Di-N-Butyl Phthalate	0.345	B	0.05	0.1	ug
Di-N-Octyl Phthalate	0.759		0.05	0.1	ug
Fluoranthene		<MDL	0.01	0.02	ug
Fluorene		<MDL	0.01	0.02	ug
Indeno(1,2,3-Cd)Pyrene		<MDL	0.02	0.04	ug
Naphthalene		<MDL	0.02	0.04	ug
Phenanthrene	0.012	<RDL	0.01	0.02	ug
Pyrene		<MDL	0.01	0.02	ug
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	50	100	ug
Aroclor 1221		<MDL	50	100	ug
Aroclor 1232		<MDL	50	100	ug
Aroclor 1242		<MDL	50	100	ug
Aroclor 1248		<MDL	50	100	ug
Aroclor 1254		<MDL	50	100	ug
Aroclor 1260		<MDL	50	100	ug

Locator: KCIA (Lab ID L39161-8) — Wet Weight Basis

Parameters	Value	Qual	MDL	RDL	Units
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.01	0.02	ug
Acenaphthene		<MDL	0.01	0.02	ug
Acenaphthylene		<MDL	0.01	0.02	ug
Anthracene		<MDL	0.01	0.02	ug
Benzo(a)anthracene		<MDL	0.01	0.02	ug
Benzo(a)pyrene		<MDL	0.02	0.04	ug
Benzo(b)fluoranthene		<MDL	0.02	0.04	ug
Benzo(g,h,i)perylene		<MDL	0.02	0.04	ug
Benzo(k)fluoranthene		<MDL	0.02	0.04	ug
Benzyl Butyl Phthalate	0.309		0.05	0.1	ug
Bis(2-Ethylhexyl)Phthalate	0.53	B	0.05	0.1	ug
Chrysene		<MDL	0.01	0.02	ug
Dibenzo(a,h)anthracene		<MDL	0.02	0.04	ug
Diethyl Phthalate	0.068	<RDL	0.05	0.1	ug
Dimethyl Phthalate		<MDL	0.05	0.1	ug
Di-N-Butyl Phthalate	0.298	B	0.05	0.1	ug
Di-N-Octyl Phthalate		<MDL	0.05	0.1	ug
Fluoranthene	0.025		0.01	0.02	ug
Fluorene		<MDL	0.01	0.02	ug
Indeno(1,2,3-Cd)Pyrene		<MDL	0.02	0.04	ug
Naphthalene		<MDL	0.02	0.04	ug
Phenanthrene	0.0239		0.01	0.02	ug
Pyrene	0.019	<RDL	0.01	0.02	ug
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	50	100	ug
Aroclor 1221		<MDL	50	100	ug
Aroclor 1232		<MDL	50	100	ug
Aroclor 1242		<MDL	50	100	ug
Aroclor 1248		<MDL	50	100	ug
Aroclor 1254		<MDL	50	100	ug
Aroclor 1260		<MDL	50	100	ug

Locator: SPCC (Lab ID L39161-9) — Wet Weight Basis

Parameters	Value	Qual	MDL	RDL	Units
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.01	0.02	ug
Acenaphthene		<MDL	0.01	0.02	ug
Acenaphthylene		<MDL	0.01	0.02	ug
Anthracene		<MDL	0.01	0.02	ug
Benzo(a)anthracene		<MDL	0.01	0.02	ug
Benzo(a)pyrene		<MDL	0.02	0.04	ug
Benzo(b)fluoranthene		<MDL	0.02	0.04	ug
Benzo(g,h,i)perylene	0.127		0.02	0.04	ug
Benzo(k)fluoranthene		<MDL	0.02	0.04	ug
Benzyl Butyl Phthalate	0.327		0.05	0.1	ug
Bis(2-Ethylhexyl)Phthalate	0.739	B	0.05	0.1	ug
Chrysene		<MDL	0.01	0.02	ug
Dibenzo(a,h)anthracene	0.104		0.02	0.04	ug
Diethyl Phthalate	0.099	<RDL	0.05	0.1	ug
Dimethyl Phthalate		<MDL	0.05	0.1	ug
Di-N-Butyl Phthalate	0.306	B	0.05	0.1	ug
Di-N-Octyl Phthalate		<MDL	0.05	0.1	ug
Fluoranthene		<MDL	0.01	0.02	ug
Fluorene		<MDL	0.01	0.02	ug
Indeno(1,2,3-Cd)Pyrene	0.125		0.02	0.04	ug
Naphthalene		<MDL	0.02	0.04	ug
Phenanthrene	0.0206		0.01	0.02	ug
Pyrene		<MDL	0.01	0.02	ug
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	50	100	ug
Aroclor 1221		<MDL	50	100	ug
Aroclor 1232		<MDL	50	100	ug
Aroclor 1242		<MDL	50	100	ug
Aroclor 1248		<MDL	50	100	ug
Aroclor 1254		<MDL	50	100	ug
Aroclor 1260		<MDL	50	100	ug

Locator: SPCC (Lab ID L39161-10) — Wet Weight Basis

Parameters	Value	Qual	MDL	RDL	Units
M=OR 8270B					
2-Methylnaphthalene		<MDL	0.01	0.02	ug
Acenaphthene		<MDL	0.01	0.02	ug
Acenaphthylene		<MDL	0.01	0.02	ug
Anthracene		<MDL	0.01	0.02	ug
Benzo(a)anthracene		<MDL	0.01	0.02	ug
Benzo(a)pyrene		<MDL	0.02	0.04	ug
Benzo(b)fluoranthene		<MDL	0.02	0.04	ug
Benzo(g,h,i)perylene		<MDL	0.02	0.04	ug
Benzo(k)fluoranthene		<MDL	0.02	0.04	ug
Benzyl Butyl Phthalate	0.35		0.05	0.1	ug
Bis(2-Ethylhexyl)Phthalate	0.798	B	0.05	0.1	ug
Chrysene		<MDL	0.01	0.02	ug
Dibenzo(a,h)anthracene		<MDL	0.02	0.04	ug
Diethyl Phthalate		<MDL	0.05	0.1	ug
Dimethyl Phthalate		<MDL	0.05	0.1	ug
Di-N-Butyl Phthalate	0.329	B	0.05	0.1	ug
Di-N-Octyl Phthalate		<MDL	0.05	0.1	ug
Fluoranthene		<MDL	0.01	0.02	ug
Fluorene		<MDL	0.01	0.02	ug
Indeno(1,2,3-Cd)Pyrene		<MDL	0.02	0.04	ug
Naphthalene		<MDL	0.02	0.04	ug
Phenanthrene	0.0206		0.01	0.02	ug
Pyrene		<MDL	0.01	0.02	ug
M=OR EPA 8081A/8082 (7-3-03-002)					
Aroclor 1016		<MDL	50	100	ug
Aroclor 1221		<MDL	50	100	ug
Aroclor 1232		<MDL	50	100	ug
Aroclor 1242		<MDL	50	100	ug
Aroclor 1248		<MDL	50	100	ug
Aroclor 1254		<MDL	50	100	ug
Aroclor 1260		<MDL	50	100	ug

KCSlip4 58307
SEA424606

IW AIR DEPOSITION STUDY BLANKS - ROUND 9

Project Number: 423589-090-1 Personnel: _____

Sample Number	P38799-1	P38799-2	
Locator	CER	CER	
Short Loc. Desc.	CER	CER	
Locator Desc.	DUWAMISH STATION RELOCATED	DUWAMISH STATION RELOCATED	
Site	METRO	METRO	
Start Date/Time			
End Date/Time			
Sample Depth			
Collect Date			
Comments			
CLIENT LOC	CER-BK-041906-041906 →		
Dept., Matrix, Prod	7 BLANK WTR PCBLL 7 BLANK WTR PHPAHSOURCE	7 OTHR SOLID PCBWIPE 7 OTHR SOLID PHPAHWIPE	

End of Fieldsheet.

IN-HOUSE SAMPLES

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
RECEIVED BY	Date	Time
Sample Number(s) (All)		

	Initial / Date
S. Plan:	
Login #: L	
WKGP #: WG85382	4/25/06
Entser #: R113164	4/25/06
Approved by:	
Moved by:	

Login Number: P39161 Page: 1

IW AIR DEPOSITION STUDY - ROUND 9 SAMPLES

Project Number: 423589-090-1 Personnel: DLH & TH

Sample Number	P39161-1	P39161-2	P39161-3
Locator	CER	D2	KCIA
Short Loc. Desc.	CER	WDOE2	KC_AIRPORT
Locator Desc.	DUWAMISH STATION RELOCATED	GEORGETOWN, 6431 CORSON AVE. S.	TERMINAL-KING COUNTY INTERNATIONAL
Site	METRO	METRO	METRO
Start Date/Time	4/20/06 @ 12:10	4/20/06 @ 0910	4/20/06 @ 0940
End Date/Time	5/23/06 @ 10:45	5/23/06 @ 0845	5/23/06 @ 0910
Sample Depth			
Collect Date			
Comments	carboys	carboys	carboys
CLIENT LOC	CER-01-042006-052306	D2-01-042006-052306	KCIA-01-042006-052306 (DLH)
Dept., Matrix, Prod	7 | STORM WTR | PCBLL 7 | STORM WTR | PHPAHSOURCE	7 | STORM WTR | PCBLL 7 | STORM WTR | PHPAHSOURCE	7 | STORM WTR | PCBLL 7 | STORM WTR | PHPAHSOURCE

continue ...

CHAIN OF CUSTODY

RELINQUISHED BY	Date	Time
[signature]	5/23/06	11:10
RECEIVED BY [signature]	Date 5/23/06	Time 1110
Sample Number(s)		(All)

1-5 6-10

	Initial / Date
S. Plan:	
Login #: L	
WKGP #: WG	85853 TB 5/23/06 85854 TB
Enter #:	R113626 TB 5/23/06 R113627 TB
Approved by:	
Moved by:	

KCSlip4 58309

SEA424608

IW AIR DEPOSITION STUDY - ROUND 9 SAMPLES

Project Number: 423589-090-1 Personnel: DCH + TH

Sample Number	P39161-4	P39161-5	P39161-6	
Locator	SPCC	SPCC	CER	
Short Loc. Desc.	SPCC	SPCC	CER	
Locator Desc.	SOUTH PARK COMMUNITY CENTER 8319 1	SOUTH PARK COMMUNITY CENTER 8319 1	DUWAMISH STATION RELOCATED	
Site	METRO	METRO	METRO	
Start Date/Time	4/20/06 @ 11:15	4/20/06 @ 11:15	4/20/06 @ 12:10	
End Date/Time	5/23/06 @ 10:05	5/23/06 @ 10:05	5/23/06 @ 10:45	
Sample Depth				
Collect Date				
Comments	carboys ORIGINAL	carboys - FREP DUPLICATE	wipes	
CLIENT LOC	SPCC-01-042006-052306	SPCC-02-042006-052306	CER-01-042006-052306	
Dept., Matrix, Prod	7 | STORM WTR | PCBLL 7 | STORM WTR | PHPAHSOURCE	7 | STORM WTR | PCBLL 7 | STORM WTR | PHPAHSOURCE	7 | OTHR SOLID | PCBWIPE 7 | OTHR SOLID | PHPAHWIPE	

continue ...

IW AIR DEPOSITION STUDY - ROUND 9 SAMPLES

Project Number: 423589-090-1 Personnel: DLH & JH

Sample Number	P39161-7	P39161-8	P39161-9
Locator	DZ	KCIA	SPCC
Short Loc. Desc.	WDOE2	KC_AIRPORT	SPCC
Locator Desc.	GEORGETOWN, 6431 CORSON AVE. S.	TERMINAL-KING COUNTY INTERNATIONAL	SOUTH PARK COMMUNITY CENTER 8319 1
Site	METRO	METRO	METRO
Start Date/Time	4/20/06 @ 0910	4/20/06 @ 0940	4/20/06 @ 11:15
End Date/Time	5/23/06 @ 0845	5/23/06 @ 0910	5/23/06 @ 10:05
Sample Depth			
Collect Date			
Comments	wipes	wipes	wipes ORIGINAL
CLIENT LOC	DZ-01-042006-052306	KCIA-01-042006-052306	SPCC-01-042006-052306
Dept., Matrix, Prod	7 OTHR SOLID PCBWIPE 7 OTHR SOLID PHPAHWIPE	7 OTHR SOLID PCBWIPE 7 OTHR SOLID PHPAHWIPE	7 OTHR SOLID PCBWIPE 7 OTHR SOLID PHPAHWIPE

continue ...

IW AIR DEPOSITION STUDY - ROUND 9 SAMPLES

Project Number: 423589-090-1 Personnel: DLH + TH

Sample Number	P39161-10	
Locator	SPCC	
Short Loc. Desc.	SPCC	
Locator Desc.	SOUTH PARK COMMUNITY CENTER 8319 1	
Site	METRO	
Start Date/Time	4/20/06 @ 11:15	
End Date/Time	5/23/06 @ 10:05	
Sample Depth		
Collect Date		
Comments	wipes - FREP DUPLICATE	
CLIENT LOC	SPCC-02-042006-052306	
Dept., Matrix, Prod	7 OTHR SOLID PCBWIPE 7 OTHR SOLID PHPAHWIPE	

End of Fieldsheet.

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jun 21 2006, 06:56 pm

Work Group: WG85968 (BL#650 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 31-MAY-06 PrepDate: 24-MAY-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	G	Product	Matrix	Stat	QA	Workdate	Duedate
L39161-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	06-JUN-06	22-JUN-06
L39161-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	06-JUN-06	22-JUN-06
L39161-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	06-JUN-06	22-JUN-06
L39161-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	06-JUN-06	22-JUN-06
L39161-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	06-JUN-06	22-JUN-06
L39162-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	BLANK WTR	PREP	U	05-JUN-06	21-JUN-06
WG85968-1	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	31-MAY-06	
WG85968-2	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	31-MAY-06	
WG85968-3	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	31-MAY-06	
WG85968-4	SBD			S	PHPAHSOURCE	BLANK WTR	PREP	U	31-MAY-06	

Comments:

L39161-1	carboys
L39161-2	carboys
L39161-3	carboys
L39161-4	carboys
L39161-5	carboys - FREP
L39162-3	blank water
WG85968-1	MB060524
WG85968-2	WG85968-1
WG85968-3	MB060525
WG85968-4	WG85968-2 WG85968-3

KCSlip4 58313

SEA424612

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/11/06 12:52
Run ID: R114465 Workgroup: WG85968 (BL#650 PHPAHSOURCE)

MB:WG85968-1 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug/L	<MDL	
Acenaphthylene	.01	.02	ug/L	<MDL	
Dimethyl Phthalate	.01	.02	ug/L	<MDL	
Acenaphthene	.01	.02	ug/L	<MDL	
Fluorene	.01	.02	ug/L	<MDL	
Diethyl Phthalate	.015	.03	ug/L	<MDL	
Phenanthrene	.01	.02	ug/L	<MDL	
Anthracene	.01	.02	ug/L	<MDL	
Di-N-Butyl Phthalate	.01	.02	ug/L	.133	B
Fluoranthene	.01	.02	ug/L	<MDL	
Pyrene	.01	.02	ug/L	<MDL	
Benzyl Butyl Phthalate	.01	.02	ug/L	.017	B
Benzo(a)anthracene	.01	.02	ug/L	<MDL	
Chrysene	.01	.02	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.205	B
Di-N-Octyl Phthalate	.015	.03	ug/L	<MDL	
Benzo(b)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(k)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(a)pyrene	.015	.03	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.015	.03	ug/L	<MDL	
Dibenzo(a,h)anthracene	.015	.03	ug/L	<MDL	
Benzo(g,h,i)perylene	.015	.03	ug/L	<MDL	
2-Methylnaphthalene	.015	.03	ug/L	<MDL	

SBD:WG85968-4 SB:WG85968-2 MB:WG85968-1 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit	Truevalue	SBD Value	% Rec.	Qual	LabLimit	RPD	Qual	LabLimit
Acenaphthylene	.01	.02	ug/L	<MDL	0.250	.0991	40		10-150	0.250	.104	42		10-150	5		100
Dimethyl Phthalate	.01	.02	ug/L	<MDL	0.250	.175	70		10-150	0.250	.182	73		10-150	4		100
Fluorene	.01	.02	ug/L	<MDL	0.250	.184	74		10-150	0.250	.194	78		10-150	5		100
Diethyl Phthalate	.015	.03	ug/L	<MDL	0.250	.216	86		10-150	0.250	.228	91		10-150	6		100
Phenanthrene	.01	.02	ug/L	<MDL	0.250	.186	74		10-150	0.250	.185	74		10-150	0		100
Anthracene	.01	.02	ug/L	<MDL	0.250	.146	58		10-150	0.250	.157	63		10-150	8		100
Di-N-Butyl Phthalate	.01	.02	ug/L	.133	0.250	.345	85		10-150	0.250	.367	101		10-150	17		100
Pyrene	.01	.02	ug/L	<MDL	0.250	.231	92		10-150	0.250	.239	96		10-150	4		100
Benzyl Butyl Phthalate	.01	.02	ug/L	.017	0.250	.315	119		10-150	0.250	.318	122		10-150	2		100
Benzo(a)anthracene	.01	.02	ug/L	<MDL	0.250	.23	92		10-150	0.250	.228	91		10-150	1		100
Chrysene	.01	.02	ug/L	<MDL	0.250	.237	95		10-150	0.250	.234	93		10-150	2		100
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.205	0.250	.397	77		10-150	0.250	.492	168	*	10-150	74		100
Benzo(b)fluoranthene	.015	.03	ug/L	<MDL	0.250	.309	124		10-150	0.250	.267	107		10-150	15		100
Benzo(k)fluoranthene	.015	.03	ug/L	<MDL	0.250	.286	114		10-150	0.250	.255	102		10-150	11		100
Benzo(a)pyrene	.015	.03	ug/L	<MDL	0.250	.202	81		10-150	0.250	.211	85		10-150	5		100
Indeno(1,2,3-Cd)Pyrene	.015	.03	ug/L	<MDL	0.250	.284	114		10-150	0.250	.258	103		10-150	10		100
Dibenzo(a,h)anthracene	.015	.03	ug/L	<MDL	0.250	.283	113		10-150	0.250	.25	100		10-150	12		100
Benzo(g,h,i)perylene	.015	.03	ug/L	<MDL	0.250	.286	114		10-150	0.250	.253	101		10-150	12		100

KCSlip4 58314
SEA424613

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/11/06 12:52
Run ID: R114465 Workgroup: WG85968 (BL#650 PHPAHSOURCE)

MB:WG85968-3 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug/L	<MDL	
Acenaphthylene	.01	.02	ug/L	<MDL	
Dimethyl Phthalate	.01	.02	ug/L	<MDL	
Acenaphthene	.01	.02	ug/L	<MDL	
Fluorene	.01	.02	ug/L	<MDL	
Diethyl Phthalate	.015	.03	ug/L	<MDL	
Phenanthrene	.01	.02	ug/L	<MDL	
Anthracene	.01	.02	ug/L	<MDL	
Di-N-Butyl Phthalate	.01	.02	ug/L	.114	B
Fluoranthene	.01	.02	ug/L	<MDL	
Pyrene	.01	.02	ug/L	<MDL	
Benzyl Butyl Phthalate	.01	.02	ug/L	.012	B
Benzo(a)anthracene	.01	.02	ug/L	<MDL	
Chrysene	.01	.02	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.0725	B
Di-N-Octyl Phthalate	.015	.03	ug/L	<MDL	
Benzo(b)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(k)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(a)pyrene	.015	.03	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.015	.03	ug/L	<MDL	
Dibenzo(a,h)anthracene	.015	.03	ug/L	<MDL	
Benzo(g,h,i)perylene	.015	.03	ug/L	<MDL	
2-Methylnaphthalene	.015	.03	ug/L	<MDL	

KCSlip4 58315
SEA424614

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/11/06 12:52
Run ID: R114465 Workgroup: WG85968 (BL#650 PHPAHSOURCE)

Sample # (Lab Limits)	d14-Terphenyl 33-141	D6-Dimethyl Phtha-late 0-150	D8-Acenaphthylene 0-150	D10-Fluorene 0-150	D10-Anthracene 0-150	D10-Pyrene 0-150	D12-Benzo(a)pyrene 0-150
L39161-1	31 *	10	1 *	1 *	5 *	10	10
L39161-2	110	14	0 *	3 *	4 *	6 *	20
L39161-3	108	14	1 *	4 *	3 *	7 *	22
L39161-4	110	47	0 *	13	4 *	0 *	42
L39161-5	111	56	1 *	11	4 *	26	40
L39162-3	114	87	72	99	79	82	104
WG85968-1	118	88	56	82	69	79	88
WG85968-2	121	76	45	76	62	77	80
WG85968-3	113	81	48	77	72	85	95
WG85968-4	115	80	49	83	67	81	92

KCSlip4 58316
SEA424615

Acetone Lot # 000467

MeCL2 Lot # CQ376

QC BATCH NO.: BL #650

EPA SW-846 EXTRACTION METHOD:

CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS

TRACE ORGANICS LABORATORY

PHPAHSOURCE/PCBLL vs SPE

Round 9 - Samples
Round 10 - Rinse Blank

WG85968 - PHPAHSOURCE
WORKGROUP NO.: WG85969 - PCBLL

PCB Field Surr = 1217
PCB Lab Surr = 1216
PCB MS LL = 1203

BNA SURROGATE SPIKE: 1273 + 1205 (DMCs)
BNA MATRIX SPIKE: 1246

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments	
JG 05/24/06	WG85968-1 WG85969-1	QC	MB		6	2000	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	06/21/06	10 ml MeOH	6.0
	WG85968-2 WG85969-2	QC	SB		6	2000	1203A-100µl + 1246-50µl	1.0	JG	06/21/06	10 ml MeOH	6.2
	L39162-3	423589-090-001	CER-BK-052206-052206		6	2000	1205-25µl 1273-100µl	↓	↓	06/21/06	10 ml MeOH No PCB analysis for L39162-3.	6.2
	L39161-3	423589-090-001	KCIA-01-042006-052306		6	2460	1205-25µl 1273-100µl 1216-100µl 1217-100µl	↓	↓	06/21/06	11 ml MeOH Surr 1205 & 1217 spiked pre-deployment. High particulate.	19.8
	L39161-4	423589-090-001	SPCC-01-042006-052306		6	3040	↓	1.0	JG	06/21/06	13 ml MeOH High particulate. Surr 1205 & 1217 spiked pre-deployment	25.5
	—	—	Cartridge Blank		—	2000*		1.0	JG	06/21/06	* No water used for Cartridge Blank. Tried to use the same volumes of acetone & MeCl2 as for other samples. L4 VOA vials, ~40 ml acetone 120 ml MeCl2	
JG 05/25/06	WG85968-3 ~~WG85968~~ WG85969-3	QC	MB		6	2000	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	06/21/06	10 ml MeOH JG 05/31/06	6.2
	WG85968-4 WG85969-4	QC	SB		6	2000	1203A-100µl + 1246-50µl	1.0	JG	06/21/06	10 ml MeOH	6.9
	L39161-5	423589-090-001	SPCC-02-042006-052306		6	3000	↓	↓	↓	06/21/06	13 ml MeOH Surr 1205 & 1217 spiked pre-deployment	19.[illegible]
	L39161-1	↓	CER-01-042006-052306		7	2930	↓	↓	↓	06/21/06	13 ml MeOH Surr 1205 & 1217 spiked pre-deployment.	14.8
	L39161-2	↓	DZ-01-042006-052306		6	2290	↓	↓	↓	06/21/06	11 ml MeOH Surr 1205 & 1217 spiked pre-deployment.	15.[illegible]

* All samples - except L39162-3 and Cartridge Blank - brought to 1.0 ml final vol then split with 0.5 ml vial volume for PHPAHSOURCE analysis. 0.5 ml split for PCBLL cleaned via alumina and H2SO4 cleanup. Then reconcentrated to 0.5 ml vial volume. L39162-3 and Cartridge Blank analyzed for PHPAHSOURCE only so final vol = vial vol = 1.0 ml. Splits for PCBLL analysis had solvent exchange to Hexane prior to clean-up.

* For SPCC-01 (L39161-4) large lump (hornet?) observed in sample after surr added.

* For all samples, processed using SPE Lot 40417

** For sample L39161-1, large fraction of sample lost (spilled before transfer to K-D). Estimate loss of 160 ml out of 250 ml total (90 ml remaining out that included Na2SO4). Percent loss likely 65-80%.

KCSlip4 58317

SEA424616

6890n DILUTION LOG

King County Environmental Laboratory

Date & Initials	Sample Name/ Sample Number	Extract Vol Used (ml)	Final Vol	Dil Fac	IS #	Additional IS (ul)	Total IS (ul)
6-22-06 DZ	L39161-1	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
6-22-06 DZ	L39161-2	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
6-22-06 DZ	L39161-3	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
6-22-06 DZ	L39161-4	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
6-22-06 DZ	L39161-5	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl

6890n MAINTENANCE LOG

King County Environmental Laboratory

Date & Initials	Maintenance Description

KCSlip4 58318

SEA424617

Trace Organics Data Anomaly Form

Date(s) Occurred: *06-22-2006*

WG #(s): *85968*

☐ **All samples in WKGP(s) or Sample #(s):** *L39161-1*

Project #(s): *423589-090-1*

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: *PHPAHSOURCE*
☐ 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: *For sample L39161-1, a significant portion of the sample was spilled during preparation. Estimated loss was 65-80%. Sample was homogeneous at time of spillage so loss considered non-selective for target analytes.*

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: *For anomaly due to spillage of sample L39161-1, quantitative impact on the data is definite. Results for all parameters for sample L39161-1 are flagged with an "E" to indicate that results are "Estimated – Outside expected accuracy."*

	Signatures	Signature Dates
Reported By: *Jack Gudeman*	Jack C. Gudeman	07/13/06
Reviewer: *Mike Doubrava*	[illegible]	7/14/06
Supervisor: *Dana Walker*	Dana Walker	7/14/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

Batch: \\Orgizmo\EE\chem\6890n.i\060622.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	BLANK-1	22-JUN-2006 06:45	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.796	283033	PHPAH.m	01-JUN-2006	Dave Fada
2	DFTPP-1	22-JUN-2006 07:27	SDGa2816	SDGa28	421152	SS#1254A DFTPP	NONE	0.000	1.0	12.853	66128	LVI_DFTP.m		Dave Fada
3	CCALI-1	22-JUN-2006 08:09	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.796	308194	PHPAH.m	01-JUN-2006	Dave Fada
4	WG85968-1	22-JUN-2006 09:08	WG85968	BL#650	423589	Method Blank (05-24-2006)	WATER	2000.000	1.0	6.796	286568	phpah.m	01-JUN-2006	Dave Fada
5	WG85968-3	22-JUN-2006 09:49	WG85968	BL#650	423589	Method Blank (05-25-2006)	WATER	2000.000	1.0	6.796	323942	phpah.m	01-JUN-2006	Dave Fada
6	CARTRIDGE-	22-JUN-2006 10:30	WG85968	BL#650	423589	Cartridge Blank (05-24-2006)	WATER	2000.000	1.0	6.796	170838	phpah.m	01-JUN-2006	Dave Fada
7	WG85968-2	22-JUN-2006 11:12	WG85968	BL#650	423589	Spike Blank (05-24-2006)	WATER	2000.000	1.0	6.796	312104	phpah.m	01-JUN-2006	Dave Fada
8	WG85968-4	22-JUN-2006 11:54	WG85968	BL#650	423589	Spike Blank Dup (05-25-2006)	WATER	2000.000	1.0	6.796	319223	phpah.m	01-JUN-2006	Dave Fada
9	L39162-3	22-JUN-2006 12:36	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.796	144900	phpah.m	01-JUN-2006	Dave Fada
10	L39161-1	22-JUN-2006 13:18	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2930.000	10.0	6.796	445402	phpah.m	01-JUN-2006	Dave Fada
11	L39162-3	22-JUN-2006 14:01	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.796	283335	phpah.m	01-JUN-2006	Dave Fada

Samples: 3 QC Samples + Misc.: 6 ContinuingCals: 1 Tunes: 1 Calibrations: 0

Batch: \\Orgizmo\EE\chem\6890n.i\060623.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	BLANK-1	23-JUN-2006 07:09	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.805	399235	PHPAH.m	01-JUN-2006	Dave Fada
2	DFTPP-1	23-JUN-2006 07:49	SDGa2816	SDGa28	421152	SS#1254A DFTPP	NONE	0.000	1.0	12.853	67084	LVI_DFTP.m		Dave Fada
3	CCALI-1	23-JUN-2006 08:30	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.796	403725	PHPAH.m	01-JUN-2006	Dave Fada
4	CARTRIDGE-	23-JUN-2006 09:18	WG85968	BL#650	423589	Cartridge Blank (05-24-2006)	WATER	2000.000	1.0	6.796	289780	PHPAH.m	01-JUN-2006	Dave Fada
5	L39161-1	23-JUN-2006 09:59	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2930.000	10.0	6.796	713250	phpah.m	01-JUN-2006	Dave Fada
6	L39161-2	23-JUN-2006 10:41	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2290.000	10.0	6.796	460603	PHPAH.m	01-JUN-2006	Dave Fada
7	L39161-3	23-JUN-2006 11:22	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	2460.000	10.0	6.796	500780	PHPAH.m	01-JUN-2006	Dave Fada
8	L39161-4	23-JUN-2006 12:04	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	3040.000	10.0	6.796	513562	PHPAH.m	01-JUN-2006	Dave Fada
9	L39161-5	23-JUN-2006 12:46	WG85968	BL#650	423589	Lower Duwamish Phthalate Stu	WATER	3000.000	10.0	6.796	565203	PHPAH.m	01-JUN-2006	Dave Fada

Samples: 5 **QC Samples + Misc.:** 2 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: WG85968-1	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R114465	Col. Date:	
	Locator: MB	Work Group:	WG85968	Rec. Date:	31 MAY-06
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.133	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.017	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.205	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(K)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.737	ug/L		.01	.02	
D6-Dimethyl Phthalate	.22	ug/L		.01	.02	
D8-Acenaphthylene	.139	ug/L		.01	.02	
D10-Fluorene	.204	ug/L		.01	.02	
D10-Anthracene	.173	ug/L		.01	.02	
D10-Pyrene	.197	ug/L		.01	.02	
D12-Benzo(a)pyrene	.22	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG85968-1.rp
Instrument ID						6890n 1
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	118	33-141
D6-Dimethyl Phthalate	88	0-150
D8-Acenaphthylene	56	0-150
D10-Fluorene	82	0-150
D10-Anthracene	69	0-150
D10-Pyrene	79	0-150
D12-Benzo(a)pyrene	88	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: WG85968-2	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R114465	Col. Date:
	Locator:	SB	Work Group:	WG85968	Rec. Date: 31-MAY-06
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene	.0991	ug/L		.01	.02	
Dimethyl Phthalate	.175	ug/L		.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene	.184	ug/L		.01	.02	
Diethyl Phthalate	.216	ug/L		.015	.03	
Phenanthrene	.186	ug/L		.01	.02	
Anthracene	.146	ug/L		.01	.02	
Di-N-Butyl Phthalate	.345	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene	.231	ug/L		.01	.02	
Benzyl Butyl Phthalate	.315	ug/L		.01	.02	
Benzo(a)anthracene	.23	ug/L		.01	.02	
Chrysene	.237	ug/L		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.397	ug/L	B	.01	.02	
Di-N-Octyl Phthalate	.021	ug/L	<RDL	.015	.03	
Benzo(b)fluoranthene	.309	ug/L		.015	.03	
Benzo(k)fluoranthene	.286	ug/L		.015	.03	
Benzo(a)pyrene	.202	ug/L		.015	.03	
Indeno(1,2,3-Cd)Pyrene	.284	ug/L		.015	.03	
Dibenzo(a,h)anthracene	.283	ug/L		.015	.03	
Benzo(g,h,i)perylene	.286	ug/L		.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.755	ug/L		.01	.02	
D6-Dimethyl Phthalate	.189	ug/L		.01	.02	
D8-Acenaphthylene	.112	ug/L		.01	.02	
D10-Fluorene	.191	ug/L		.01	.02	
D10-Anthracene	.156	ug/L		.01	.02	
D10-Pyrene	.192	ug/L		.01	.02	
D12-Benzo(a)pyrene	.201	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG85968-2.rp
Instrument ID						6890r_i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	121	33-141
D6-Dimethyl Phthalate	76	0-150
D8-Acenaphthylene	45	0-150
D10-Fluorene	76	0-150
D10-Anthracene	62	0-150
D10-Pyrene	77	0-150
D12-Benzo(a)pyrene	80	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: WG85968-3	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R114465	Col. Date:	
	Locator: MB	Work Group:	WG85968	Rec. Date:	31-MAY-06
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.114	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.012	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0725	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.707	ug/L		.01	.02	
D6-Dimethyl Phthalate	.201	ug/L		.01	.02	
D8-Acenaphthylene	.12	ug/L		.01	.02	
D10-Fluorene	.192	ug/L		.01	.02	
D10-Anthracene	.181	ug/L		.01	.02	
D10-Pyrene	.213	ug/L		.01	.02	
D12-Benzo(a)pyrene	.237	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file 6/gcms/WG85968 3.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	113	33-141
D6-Dimethyl Phthalate	81	0-150
D8-Acenaphthylene	48	0-150
D10-Fluorene	77	0-150
D10-Anthracene	72	0-150
D10-Pyrene	85	0-150
D12-Benzo(a)pyrene	95	0-150

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SEA424624

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: WG85968-4	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R114465	Col. Date:	
	Locator: SBD	Work Group:	WG85968	Rec. Date:	31-MAY-06
	Site: NONE	QC Type:	SBD	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene	.104	ug/L		.01	.02	
Dimethyl Phthalate	.182	ug/L		.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene	.194	ug/L		.01	.02	
Diethyl Phthalate	.228	ug/L		.015	.03	
Phenanthrene	.185	ug/L		.01	.02	
Anthracene	.157	ug/L		.01	.02	
Di-N-Butyl Phthalate	.367	ug/L		.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene	.239	ug/L		.01	.02	
Benzyl Butyl Phthalate	.318	ug/L		.01	.02	
Benzo(a)anthracene	.228	ug/L		.01	.02	
Chrysene	.234	ug/L		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.492	ug/L		.01	.02	
Di-N-Octyl Phthalate	.02	ug/L	<RDL	.015	.03	
Benzo(b)fluoranthene	.267	ug/L		.015	.03	
Benzo(k)fluoranthene	.255	ug/L		.015	.03	
Benzo(a)pyrene	.211	ug/L		.015	.03	
Indeno(1,2,3-Cd)Pyrene	.258	ug/L		.015	.03	
Dibenzo(a,h)anthracene	.25	ug/L		.015	.03	
Benzo(g,h,i)perylene	.253	ug/L		.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.719	ug/L		.01	.02	
D6 Dimethyl Phthalate	.199	ug/L		.01	.02	
D8-Acenaphthylene	.122	ug/L		.01	.02	
D10-Fluorene	.208	ug/L		.01	.02	
D10-Anthracene	.168	ug/L		.01	.02	
D10-Pyrene	.202	ug/L		.01	.02	
D12-Benzo(a)pyrene	.229	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG85968-4.rp
Instrument ID						6890n.1
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	115	33-141
D6-Dimethyl Phthalate	80	0-150
D8-Acenaphthylene	49	0-150
D10-Fluorene	83	0-150
D10-Anthracene	67	0-150
D10-Pyrene	81	0-150
D12-Benzo(a)pyrene	92	0-150

KCSlip4 58326

SEA424625

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/13/06 01:16 - Data Source: ELD

Sample#: L39161-1	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R114465	Col. Date: 23-MAY-06
	Locator:	CER	Work Group:	WG85968	Rec. Date: 23-MAY-06
	Site:	METRO	QC Type:		Due Date: 22-JUN-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL,E	.14	.273	
Acenaphthylene		ug/L	<MDL,E	.068	.137	
Dimethyl Phthalate		ug/L	<MDL,E	.068	.137	
Acenaphthene		ug/L	<MDL,E	.068	.137	
Fluorene		ug/L	<MDL,E	.068	.137	
Diethyl Phthalate		ug/L	<MDL,E	.1	.205	
Phenanthrene		ug/L	<MDL,E	.068	.137	
Anthracene		ug/L	<MDL,E	.068	.137	
Di-N-Butyl Phthalate	.076	ug/L	<RDL,B,E	.068	.137	
Fluoranthene		ug/L	<MDL,E	.068	.137	
Pyrene		ug/L	<MDL,E	.068	.137	
Benzyl Butyl Phthalate	.384	ug/L	E	.068	.137	
Benzo(a)anthracene		ug/L	<MDL,E	.068	.137	
Chrysene		ug/L	<MDL,E	.068	.137	
Bis(2-Ethylhexyl)Phthalate	.534	ug/L	E	.068	.137	
Di-N-Octyl Phthalate		ug/L	<MDL,E	.1	.205	
Benzo(b)fluoranthene		ug/L	<MDL,E	.1	.205	
Benzo(k)fluoranthene		ug/L	<MDL,E	.1	.205	
Benzo(a)pyrene		ug/L	<MDL,E	.1	.205	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL,E	.1	.205	
Dibenzo(a,h)anthracene		ug/L	<MDL,E	.1	.205	
Benzo(g,h,i)perylene		ug/L	<MDL,E	.1	.205	
2-Methylnaphthalene		ug/L	<MDL,E	.1	.205	
d14-Terphenyl	.13	ug/L	<RDL,E	.068	.137	
D6-Dimethyl Phthalate	.016	ug/L	<RDL,E	.00068	.137	
D8-Acenaphthylene	.0012	ug/L	<RDL,E	.00068	.137	
D10-Fluorene	.0024	ug/L	<RDL,E	.00068	.137	
D10-Anthracene	.008	ug/L	<RDL,E	.00068	.137	
D10-Pyrene	.016	ug/L	<RDL,E	.00068	.137	
D12-Benzo(a)pyrene	.017	ug/L	<RDL,E	.00068	.137	
Amount Analyzed	2930	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-1.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	31	*	33-141
D6-Dimethyl Phthalate	10		0-150
D8-Acenaphthylene	1	*	0-150
D10-Fluorene	1	*	0-150
D10-Anthracene	5	*	0-150
D10-Pyrene	10		0-150
D12-Benzo(a)pyrene	10		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: L39161-2	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R114465	Col. Date: 23-MAY-06
	Locator:	DZ	Work Group:	WG85968	Rec. Date: 23-MAY-06
	Site:	METRO	QC Type:		Due Date: 22-JUN-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.17	.349	
Acenaphthylene		ug/L	<MDL	.087	.175	
Dimethyl Phthalate		ug/L	<MDL	.087	.175	
Acenaphthene		ug/L	<MDL	.087	.175	
Fluorene		ug/L	<MDL	.087	.175	
Diethyl Phthalate		ug/L	<MDL	.13	.262	
Phenanthrene	.17	ug/L	<RDL	.087	.175	
Anthracene		ug/L	<MDL	.087	.175	
Di-N-Butyl Phthalate	.221	ug/L	B	.087	.175	
Fluoranthene	.289	ug/L		.087	.175	
Pyrene	.304	ug/L		.087	.175	
Benzyl Butyl Phthalate	.303	ug/L		.087	.175	
Benzo(a)anthracene		ug/L	<MDL	.087	.175	
Chrysene	.238	ug/L		.087	.175	
Bis(2-Ethylhexyl)Phthalate	2.76	ug/L		.087	.175	
Di-N-Octyl Phthalate	2.47	ug/L		.13	.262	
Benzo(b)fluoranthene	.2	ug/L	<RDL	.13	.262	
Benzo(k)fluoranthene	.17	ug/L	<RDL	.13	.262	
Benzo(a)pyrene		ug/L	<MDL	.13	.262	
Indeno(1,2,3-Cd)Pyrene	.13	ug/L	<RDL	.13	.262	
Dibenzo(a,h)anthracene		ug/L	<MDL	.13	.262	
Benzo(g,h,i)perylene	.21	ug/L	<RDL	.13	.262	
2-Methylnaphthalene		ug/L	<MDL	.13	.262	
d14-Terphenyl	.601	ug/L		.087	.175	
D6-Dimethyl Phthalate	.031	ug/L	<RDL	.00087	.175	
D8-Acenaphthylene	.001	ug/L	<RDL	.00087	.175	
D10-Fluorene	.0071	ug/L	<RDL	.00087	.175	
D10-Anthracene	.0089	ug/L	<RDL	.00087	.175	
D10-Pyrene	.014	ug/L	<RDL	.00087	.175	
D12-Benzo(a)pyrene	.043	ug/L	<RDL	.00087	.175	
Amount Analyzed	2290	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						23-JUN-06
Operator ID						Dave Pada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-2.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	110		33-141
D6-Dimethyl Phthalate	14		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	3	*	0-150
D10-Anthracene	4	*	0-150
D10-Pyrene	6	*	0-150
D12-Benzo(a)pyrene	20		0-150

KCSlip4 58328

SEA424627

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: L39161-3	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R114465	Col. Date:	23-MAY-06	
	Locator: KCIA	Work Group: WG85968	Rec. Date:	23-MAY-06	
	Site: METRO	QC Type:	Due Date:	22-JUN-06	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.16	.325	
Acenaphthylene		ug/L	<MDL	.081	.163	
Dimethyl Phthalate		ug/L	<MDL	.081	.163	
Acenaphthene		ug/L	<MDL	.081	.163	
Fluorene	.089	ug/L	<RDL	.081	.163	
Diethyl Phthalate		ug/L	<MDL	.12	.244	
Phenanthrene	1.7	ug/L		.081	.163	
Anthracene	.14	ug/L	<RDL	.081	.163	
Di-N-Butyl Phthalate	.14	ug/L	<RDL,B	.081	.163	
Fluoranthene	3.6	ug/L		.081	.163	
Pyrene	3.45	ug/L		.081	.163	
Benzyl Butyl Phthalate	.168	ug/L		.081	.163	
Benzo(a)anthracene	1.13	ug/L		.081	.163	
Chrysene	2.33	ug/L		.081	.163	
Bis(2-Ethylhexyl)Phthalate	1.77	ug/L		.081	.163	
Di-N-Octyl Phthalate		ug/L	<MDL	.12	.244	
Benzo(b)fluoranthene	2.67	ug/L		.12	.244	
Benzo(k)fluoranthene	1.68	ug/L		.12	.244	
Benzo(a)pyrene	1.6	ug/L		.12	.244	
Indeno(1,2,3-Cd)Pyrene	1.47	ug/L		.12	.244	
Dibenzo(a,h)anthracene	.453	ug/L		.12	.244	
Benzo(g,h,i)perylene	1.69	ug/L		.12	.244	
2-Methylnaphthalene		ug/L	<MDL	.12	.244	
d14-Terphenyl	.547	ug/L		.081	.163	
D6-Dimethyl Phthalate	.028	ug/L	<RDL	.00081	.163	
D8-Acenaphthylene	.0013	ug/L	<RDL	.00081	.163	
D10-Fluorene	.0073	ug/L	<RDL	.00081	.163	
D10-Anthracene	.0066	ug/L	<RDL	.00081	.163	
D10-Pyrene	.013	ug/L	<RDL	.00081	.163	
D12-Benzo(a)pyrene	.045	ug/L	<RDL	.00081	.163	
Amount Analyzed	2460	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						23-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-3.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	108	33-141
D5-Dimethyl Phthalate	14	0-150
D8-Acenaphthylene	1 *	0-150
D10-Fluorene	4 *	0-150
D10-Anthracene	3 *	0-150
D10-Pyrene	7 *	0-150
D12-Benzo(a)pyrene	22	0-150

KCSlip4 58329

SEA424628

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: L39161-4	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R114465	Col. Date:	23-MAY-06	
	Locator: SPCC	Work Group: WG85968	Rec. Date:	23-MAY-06	
	Site: METRO	QC Type:	Due Date:	22-JUN 06	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.263	
Acenaphthylene		ug/L	<MDL	.066	.132	
Dimethyl Phthalate	.091	ug/L	<RDL	.066	.132	
Acenaphthene		ug/L	<MDL	.066	.132	
Fluorene		ug/L	<MDL	.066	.132	
Diethyl Phthalate		ug/L	<MDL	.099	.197	
Phenanthrene	.132	ug/L		.066	.132	
Anthracene	.137	ug/L		.066	.132	
Di-N-Butyl Phthalate	.187	ug/L	B	.066	.132	
Fluoranthene	.264	ug/L		.066	.132	
Pyrene	.264	ug/L		.066	.132	
Benzyl Butyl Phthalate	.838	ug/L		.066	.132	
Benzo(a)anthracene	.069	ug/L	<RDL	.066	.132	
Chrysene	.185	ug/L		.066	.132	
Bis(2-Ethylhexyl)Phthalate	4.14	ug/L		.066	.132	
Di-N-Octyl Phthalate		ug/L	<MDL	.099	.197	
Benzo(b)fluoranthene	.13	ug/L	<RDL	.099	.197	
Benzo(k)fluoranthene	.11	ug/L	<RDL	.099	.197	
Benzo(a)pyrene	.11	ug/L	<RDL	.099	.197	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.099	.197	
Dibenzo(a,h)anthracene		ug/L	<MDL	.099	.197	
Benzo(g,h,i)perylene	.12	ug/L	<RDL	.099	.197	
2-Methylnaphthalene		ug/L	<MDL	.099	.197	
d14-Terphenyl	.453	ug/L		.066	.132	
D6-Dimethyl Phthalate	.077	ug/L	<RDL	.066	.132	
D8-Acenaphthylene		ug/L	<MDL	.00066	.132	
D10-Fluorene	.021	ug/L	<RDL	.00066	.132	
D10-Anthracene	.0067	ug/L	<RDL	.00066	.132	
D10-Pyrene		ug/L	<MDL	.00066	.132	
D12-Benzo(a)pyrene	.069	ug/L	<RDL	.066	.132	
Amount Analyzed	3040	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						23-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-4.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	110		33-141
D6-Dimethyl Phthalate	47		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	13		0-150
D10-Anthracene	4.	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	42		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: L39161-5	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R114465	Col. Date:	23-MAY-06	
	Locator: SPCC	Work Group: WG85968	Rec. Date:	23-MAY-06	
	Site: METRO	QC Type:	Due Date:	22-JUN-06	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.267	
Acenaphthylene		ug/L	<MDL	.067	.133	
Dimethyl Phthalate		ug/L	<MDL	.067	.133	
Acenaphthene		ug/L	<MDL	.067	.133	
Fluorene		ug/L	<MDL	.067	.133	
Diethyl Phthalate	.12	ug/L	<RDL	.1	2	
Phenanthrene	.12	ug/L	<RDL	.067	.133	
Anthracene		ug/L	<MDL	.067	.133	
Di-N-Butyl Phthalate	.245	ug/L	B	.067	.133	
Fluoranthene	.211	ug/L		.067	.133	
Pyrene	.211	ug/L		.067	.133	
Benzyl Butyl Phthalate	.767	ug/L		.067	.133	
Benzo(a)anthracene		ug/L	<MDL	.067	.133	
Chrysene	.156	ug/L		.067	.133	
Bis(2-Ethylhexyl)Phthalate	3.18	ug/L		.067	.133	
Di-N-Octyl Phthalate		ug/L	<MDL	.1	.2	
Benzo(b)fluoranthene	.11	ug/L	<RDL	.1	.2	
Benzo(k)fluoranthene		ug/L	<MDL	.1	.2	
Benzo(a)pyrene		ug/L	<MDL	.1	.2	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.1	.2	
Dibenzo(a,h)anthracene		ug/L	<MDL	.1	.2	
Benzo(g,h,i)perylene	.1	ug/L	<RDL	.1	.2	
2-Methylnaphthalene		ug/L	<MDL	.1	.2	
d14-Terphenyl	.464	ug/L		.067	.133	
D6-Dimethyl Phthalate	.093	ug/L	<RDL	.067	.133	
D8-Acenaphthylene	.00096	ug/L	<RDL	.00067	.133	
D10-Fluorene	.018	ug/L	<RDL	.00067	.133	
D10-Anthracene	.0064	ug/L	<RDL	.00067	.133	
D10-Pyrene	.044	ug/L	<RDL	.00067	.133	
D12-Benzo(a)pyrene	.067	ug/L	<RDL	.067	.133	
Amount Analyzed	3000	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						23-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39161-5.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	111		33-141
D6-Dimethyl Phthalate	56		0-150
D8-Acenaphthylene	1	*	0-150
D10-Fluorene	11		0-150
D10-Anthracene	4	*	0-150
D10-Pyrene	26		0-150
D12-Benzo(a)pyrene	40		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/11/06 01:50 - Data Source: ELD

Sample#: L39162-3	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R114465	Col. Date: 22-MAY-06
	Locator:	CER	Work Group:	WG85968	Rec. Date: 22-MAY-06
	Site:	METRO	QC Type:		Due Date: 21-JUN-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.128	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.0215	ug/L	B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.116	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.711	ug/L		.01	.02	
D6-Dimethyl Phthalate	.217	ug/L		.01	.02	
D8-Acenaphthylene	.179	ug/L		.01	.02	
D10-Fluorene	.247	ug/L		.01	.02	
D10-Anthracene	.198	ug/L		.01	.02	
D10-Pyrene	.205	ug/L		.01	.02	
D12-Benzo(a)pyrene	.261	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						22-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39162-3.rp
Instrument ID						6890n.i
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	114	33-141
D6-Dimethyl Phthalate	87	0-150
D8-Acenaphthylene	72	0-150
D10-Fluorene	99	0-150
D10-Anthracene	79	0-150
D10-Pyrene	82	0-150
D12-Benzo(a)pyrene	104	0-150

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

May 23 2006, 05:12 pm

Work Group: WG85363 (BL#644 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 24-APR-06 PrepDate: 25-APR-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L38799-1	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHSOURCE	BLANK WTR	PREP	U	03-MAY-06	19-MAY-06
WG85363-1	MB		S		PHPAHSOURCE	BLANK WTR	PREP	U	24-APR-06	
WG85363-2	SB		S		PHPAHSOURCE	BLANK WTR	PREP	U	24-APR-06	
WG85363-3	SBD		S		PHPAHSOURCE	BLANK WTR	PREP	U	24-APR-06	

Comments:

WG85363-1	MB060425
WG85363-2	WG85363-1
WG85363-3	WG85363-2 WG85363-1

KCSlip4 58333

SEA424632

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/19/06 11:12
Run ID: R114091 Workgroup: WG85363 (BL#644 PHPAHSOURCE)

AM
Choke

MB:WG85363-1 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug/L	<MDL	
Acenaphthylene	.01	.02	ug/L	<MDL	
Dimethyl Phthalate	.01	.02	ug/L	<MDL	
Acenaphthene	.01	.02	ug/L	<MDL	
Fluorene	.01	.02	ug/L	<MDL	
Diethyl Phthalate	.015	.03	ug/L	<MDL	
Phenanthrene	.01	.02	ug/L	<MDL	
Anthracene	.01	.02	ug/L	<MDL	
Di-N-Butyl Phthalate	.01	.02	ug/L	.145	B
Fluoranthene	.01	.02	ug/L	<MDL	
Pyrene	.01	.02	ug/L	<MDL	
Benzyl Butyl Phthalate	.01	.02	ug/L	.0274	B
Benzo(a)anthracene	.01	.02	ug/L	<MDL	
Chrysene	.01	.02	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.231	B
Di-N-Octyl Phthalate	.015	.03	ug/L	<MDL	
Benzo(b)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(k)fluoranthene	.015	.03	ug/L	<MDL	
Benzo(a)pyrene	.015	.03	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.015	.03	ug/L	<MDL	
Dibenzo(a,h)anthracene	.015	.03	ug/L	<MDL	
Benzo(g,h,i)perylene	.015	.03	ug/L	<MDL	
2-Methylnaphthalene	.015	.03	ug/L	<MDL	

SBD:WG85363-3 SB:WG85363-2 MB:WG85363-1 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit	Truevalue	SBD Value	% Rec.	Qual	LabLimit	RPD	Qual	LabLimit
Acenaphthylene	.01	.02	ug/L	<MDL	0.250	.11	44		10-150	0.250	.112	45		10-150	2		100
Dimethyl Phthalate	.01	.02	ug/L	<MDL	0.250	.211	84		10-150	0.250	.212	85		10-150	1		100
Fluorene	.01	.02	ug/L	<MDL	0.250	.212	85		10-150	0.250	.214	86		10-150	1		100
Diethyl Phthalate	.015	.03	ug/L	<MDL	0.250	.244	97		10-150	0.250	.242	97		10-150	0		100
Phenanthrene	.01	.02	ug/L	<MDL	0.250	.202	81		10-150	0.250	.204	81		10-150	0		100
Anthracene	.01	.02	ug/L	<MDL	0.250	.176	70		10-150	0.250	.177	71		10-150	1		100
Di-N-Butyl Phthalate	.01	.02	ug/L	.145	0.250	.374	92		10-150	0.250	.376	92		10-150	0		100
Pyrene	.01	.02	ug/L	<MDL	0.250	.248	99		10-150	0.250	.245	98		10-150	1		100
Benzyl Butyl Phthalate	.01	.02	ug/L	.0274	0.250	.312	114		10-150	0.250	.311	113		10-150	1		100
Benzo(a)anthracene	.01	.02	ug/L	<MDL	0.250	.235	94		10-150	0.250	.24	96		10-150	2		100
Chrysene	.01	.02	ug/L	<MDL	0.250	.233	93		10-150	0.250	.235	94		10-150	1		100
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.231	0.250	.398	67		10-150	0.250	.379	59		10-150	13		100
Benzo(b)fluoranthene	.015	.03	ug/L	<MDL	0.250	.269	108		10-150	0.250	.269	108		10-150	0		100
Benzo(k)fluoranthene	.015	.03	ug/L	<MDL	0.250	.244	98		10-150	0.250	.236	94		10-150	4		100
Benzo(a)pyrene	.015	.03	ug/L	<MDL	0.250	.222	89		10-150	0.250	.222	89		10-150	0		100
Indeno(1,2,3-Cd)Pyrene	.015	.03	ug/L	<MDL	0.250	.247	99		10-150	0.250	.252	101		10-150	2		100
Dibenzo(a,h)anthracene	.015	.03	ug/L	<MDL	0.250	.239	96		10-150	0.250	.246	98		10-150	2		100
Benzo(g,h,i)perylene	.015	.03	ug/L	<MDL	0.250	.258	103		10-150	0.250	.258	103		10-150	0		100

KCSlip4 58334
SEA424633

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/19/06 11:12
Run ID: R114091 Workgroup: WG85363 (BL#644 PHPAHSOURCE)

Sample #	d14-Terphenyl	D6-Dimethyl Phtha-late	D8-Acenaphthylene	D10-Fluorene	D10-Anthracene	D10-Pyrene	D12-Benzo(a)pyren-e
(Lab Limits)	33-141	0-150	0-150	0-150	0-150	0-150	0-150
L38799-1	122	80	62	88	77	80	95
WG85363-1	121	76	50	77	69	73	91
WG85363-2	123	89	50	93	73	80	94
WG85363-3	125	92	55	99	78	84	102

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SEA424634

Batch: \\Orgizmo\EE\chem\6890n.i\060602.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	BLANK-1	02-JUN-2006 06:07	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.805	291101	PHPAH.m	01-JUN-2006	Dave Fada
2	DFTPP-1	02-JUN-2006 06:49	SDGa2816	SDGa28	421152	SS#1254A DFTPP	NONE	0.000	1.0	12.862	50880	LVI_DFTP.m		Dave Fada
3	CCALI-1	02-JUN-2006 07:30	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.805	393032	phpah.m	01-JUN-2006	Dave Fada
4	WG85363-1	02-JUN-2006 08:39	WG85363	BL#644	423589	Method Blank (04-25-2006)	WATER	2000.000	1.0	6.796	407770	PHPAH.m	01-JUN-2006	Dave Fada
5	WG85363-2	02-JUN-2006 09:20	WG85363	BL#644	423589	Spike Blank (04-25-2006)	WATER	2000.000	1.0	6.796	272191	PHPAH.m	01-JUN-2006	Dave Fada
6	WG85363-3	02-JUN-2006 10:02	WG85363	BL#644	423589	Spike Blank Dup (04-25-2006)	WATER	2000.000	1.0	6.796	256634	PHPAH.m	01-JUN-2006	Dave Fada
7	L38799-1	02-JUN-2006 10:43	WG85363	BL#644	423589	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.796	270532	PHPAH.m	01-JUN-2006	Dave Fada
8	SOLVENT	02-JUN-2006 11:25	SDGa1658	SDGa16	423589	Solvent Blank Check	WATER	2000.000	1.0	6.796	271225	PHPAH.m	01-JUN-2006	Dave Fada

Samples: 1 **QC Samples + Misc.:** 5 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

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SEA424635

Rinse Blank - Round 89
JG 05/23/06
PCB Field Surr = 1217
PCB House Surr = 1216
PCBLL MS = 1203A

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

MeCL2 Lot # CQ376 PHPAHSOURCE/PCBLL via SPE
QC BATCH NO.: BL # 644
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

WORKGROUP NO.: WG85363 - PHPAHSOURCE
WG85364 - PCBLL
BNA SURROGATE SPIKE: 1273 + 1205 (DMCs)
BNA MATRIX SPIKE: 1246

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments	
JG 04/25/06	WG85363-1 WG85364-1	QC	MB		6	2000	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	05/23/06	* 10ml MeOH	6.2
											~~* 10ml MeOH~~ JG 04/25/06	
	WG85363-2 WG85364-2	QC	SB		6	2000	+ (1203A-100µl 1246-50µl)	1.0	JG	05/23/06	* 10ml MeOH	6.4
	WG85363-3 WG85364-3	QC	SBD		6	2000	+ (1203A-100µl 1246-50µl)	1.0	JG	05/23/06	* 10ml MeOH	6.4
	L38799-1	423589-090-1	Lower Duwamish Phthalate Studies		6	2000		1.0	JG	05/23/06	* 10ml MeOH CER-BK-041906-041906	6.5
											For all samples, SPE Lot # B40417	
JG 05/23/06	~~Solvent Blank~~	—	Solvent Blank		-	—	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	05/23/06	Solvent (40ml acetone, 120ml MeCl2) added to pre-cleaned VOA vials (4 total), processed in same manner as regular samples. Surrogates added into K-D flask midway through concentration step.	

100

KCSlip4 58337

SEA424636

Trace Organics Data Anomaly Form

Date(s) Occurred: *06-02-2006*

WG #(s): *85363*

☒ **All samples in WKGP(s) or Sample #(s):** *1*

Project #(s): *423589-090-1*

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: *PHPAH*
☐ 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: *(7) - Area counts for ISTD1 (1,4-Dichlorobenzene-d4) failed QA/QC acceptance limits in all samples in WG85363.*

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: *NA*

V. Corrective Action Taken

- [ ] Sample(s) re-analyzed
- [ ] Sample(s) re-prepared and re-analyzed
- [x] 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).
- [x] 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: *No parameters are reported based on ISTD1 (1,4-Dichlorobenzene-d4). ISTD1 area counts are only being monitored for informational purpose only.*

	Signatures	Signature Dates
Reported By: *Dave Fada*	Dave Fada	06-19-2006
Reviewer: *Mike Doubrava*	[illegible]	6/19/06
Supervisor: *Dana Walker*	Dana Walker	6/19/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

KCSlip4 58339

SEA424638

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/19/06 11:18 - Data Source: ELD

Sample#: WG85363-1	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R114091	Col. Date:	
	Locator: MB	Work Group:	WG85363	Rec. Date:	24-APR-06
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.145	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.0274	ug/L	B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.231	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.755	ug/L		.01	.02	
D6-Dimethyl Phthalate	.19	ug/L		.01	.02	
D8-Acenaphthylene	.124	ug/L		.01	.02	
D10-Fluorene	.192	ug/L		.01	.02	
D10-Anthracene	.173	ug/L		.01	.02	
D10-Pyrene	.183	ug/L		.01	.02	
D12-Benzo(a)pyrene	.227	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG85363-1.rp
Instrument ID						6890n.i
Prep Date						25-APR-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	121	33-141
D6-Dimethyl Phthalate	76	0-150
D8-Acenaphthylene	50	0-150
D10-Fluorene	77	0-150
D10-Anthracene	69	0-150
D10-Pyrene	73	0-150
D12-Benzo(a)pyrene	91	0-150

KCSlip4 58340

SEA424639

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/19/06 11:18 - Data Source: ELD

Sample#: WG85363-2	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R114091	Col. Date:
	Locator:	SB	Work Group:	WG85363	Rec. Date: 24-APR-06
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene	.11	ug/L		.01	.02	
Dimethyl Phthalate	.211	ug/L		.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene	.212	ug/L		.01	.02	
Diethyl Phthalate	.244	ug/L		.015	.03	
Phenanthrene	.202	ug/L		.01	.02	
Anthracene	.176	ug/L		.01	.02	
Di-N-Butyl Phthalate	.374	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene	.248	ug/L		.01	.02	
Benzyl Butyl Phthalate	.312	ug/L		.01	.02	
Benzo(a)anthracene	.235	ug/L		.01	.02	
Chrysene	.233	ug/L		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.398	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene	.269	ug/L		.015	.03	
Benzo(k)fluoranthene	.244	ug/L		.015	.03	
Benzo(a)pyrene	.222	ug/L		.015	.03	
Indeno(1,2,3-Cd)Pyrene	.247	ug/L		.015	.03	
Dibenzo(a,h)anthracene	.239	ug/L		.015	.03	
Benzo(g,h,i)perylene	.258	ug/L		.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.766	ug/L		.01	.02	
D6-Dimethyl Phthalate	.222	ug/L		.01	.02	
D8-Acenaphthylene	.125	ug/L		.01	.02	
D10-Fluorene	.234	ug/L		.01	.02	
D10-Anthracene	.183	ug/L		.01	.02	
D10-Pyrene	.201	ug/L		.01	.02	
D12-Benzo(a)pyrene	.234	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG85363-2.rp
Instrument ID						6890n.1
Prep Date						25-APR-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	123	33-141
D6-Dimethyl Phthalate	89	0-150
D8-Acenaphthylene	50	0-150
D10-Fluorene	93	0-150
D10-Anthracene	73	0-150
D10-Pyrene	80	0-150
D12-Benzo(a)pyrene	94	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/19/06 11:18 - Data Source: ELD

Sample#: WG85363-3	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R114091	Col. Date:
	Locator:	SBD	Work Group:	WG85363	Rec. Date: 24-APR-06
	Site:	NONE	QC Type:	SBD	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene	.112	ug/L		.01	.02	
Dimethyl Phthalate	.212	ug/L		.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene	.214	ug/L		.01	.02	
Diethyl Phthalate	.242	ug/L		.015	.03	
Phenanthrene	.204	ug/L		.01	.02	
Anthracene	.177	ug/L		.01	.02	
Di-N-Butyl Phthalate	.376	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene	.245	ug/L		.01	.02	
Benzyl Butyl Phthalate	.311	ug/L		.01	.02	
Benzo(a)anthracene	.24	ug/L		.01	.02	
Chrysene	.235	ug/L		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.379	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene	.269	ug/L		.015	.03	
Benzo(k)fluoranthene	.236	ug/L		.015	.03	
Benzo(a)pyrene	.222	ug/L		.015	.03	
Indeno(1,2,3-Cd)Pyrene	.252	ug/L		.015	.03	
Dibenzo(a,h)anthracene	.246	ug/L		.015	.03	
Benzo(g,h,i)perylene	.258	ug/L		.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.784	ug/L		.01	.02	
D6-Dimethyl Phthalate	.229	ug/L		.01	.02	
D8-Acenaphthylene	.137	ug/L		.01	.02	
D10-Fluorene	.247	ug/L		.01	.02	
D10-Anthracene	.195	ug/L		.01	.02	
D10-Pyrene	.211	ug/L		.01	.02	
D12-Benzo(a)pyrene	.255	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG85363-3.rp
Instrument ID						6890n 1
Prep Date						25-APR-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	125	33-141
D6-Dimethyl Phthalate	92	0-150
D8-Acenaphthylene	55	0-150
D10-Fluorene	99	0-150
D10-Anthracene	78	0-150
D10-Pyrene	84	0-150
D12-Benzo(a)pyrene	102	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/19/06 11:18 - Data Source: ELD

Sample#: L38799-1	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R114091	Col. Date: 19-APR-06
	Locator:	CER	Work Group:	WG85363	Rec. Date: 19-APR-06
	Site:	METRO	QC Type:		Due Date: 19-MAY-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.136	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.0201	ug/L	B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0844	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.763	ug/L		.01	.02	
D6-Dimethyl Phthalate	.199	ug/L		.01	.02	
D8-Acenaphthylene	.154	ug/L		.01	.02	
D10-Fluorene	.221	ug/L		.01	.02	
D10-Anthracene	.193	ug/L		.01	.02	
D10-Pyrene	.2	ug/L		.01	.02	
D12-Benzo(a)pyrene	.239	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-JUN-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file8/gcms/L38799-1.rp
Instrument ID						6890n.i
Prep Date						25-APR-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	122	33-141
D6-Dimethyl Phthalate	80	0-150
D8-Acenaphthylene	62	0-150
D10-Fluorene	88	0-150
D10-Anthracene	77	0-150
D10-Pyrene	80	0-150
D12-Benzo(a)pyrene	96	0-150

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SEA424642

A/m
8/2/06

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jul 26 2006, 07:44 am

Work Group: WG86060 (PHPAHWIPE) for Department: 7 - Organics, Trace

Created: 06-JUN-06 PrepDate: 05-JUN-06 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L38799-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	03-MAY-06	19-MAY-06
L39161-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	22-JUN-06
L39161-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	22-JUN-06
L39161-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	22-JUN-06
L39161-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	22-JUN-06
L39161-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	22-JUN-06
L39162-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	05-JUN-06	21-JUN-06
WG86060-1	MB		S		PHPAHWIPE	OTHR SOLID	WKGP	U	06-JUN-06	

Comments:

L39161-10	wipes - FREP
L39161-6	wipes
L39161-7	wipes
L39161-8	wipes
L39161-9	wipes
L39162-6	wipe blank
WG86060-1	FILTER PAPER EXTRACTION BLANK 05-JUN-06

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SOLID AND TISSUE SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

QC BATCH NO.: BS 1:1 Acetone:MeCl2

WORKGROUP NO.: WG86060 - PNPAHWIPE WG86061 - PCBWIPE

EPA SW-846 EXTRACTION METHOD:

SONICATION EPA 3550 SOXHLET EPA 3540

BNA SURROGATE SPIKE I.D.#: 55#1276 Coprostanol:

~~BNA MATRIX SPIKE I.D.#:~~ PCB 55#1260 Caffeine:

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	Init. Amt (g)	Spike Amount (uL)	Vf (mL)	Clean ups (GPC)	Conc. Anal.	Turn Over Date	Comments
6/5/06	WG860601		Filter PAPER			55#1276 100 uL	1mL	AL			5 samples conc
	WG860611		Extraction Blank			55#1260 50 uL					to 1mL split
	L387592		Funnel WIPES								for BNA/PCB
	L39161-6										.5 BNA
	-7										.5 PCB
	-8										
	-9										
	-10										
	L39162-6		PNPAHWIPE only								

(1) Filter paper MeCl2 clean

(2) Funnels wiped X2 with MeCl2 soaked filter paper

(3) BNA/PESTICIDE surrogate spiked / samples extracted X3 with 50mls MeCl2 on sonic bath and conc to 1mL

(4) 0.5 mL BNA analysis / 0.5 mL exchanged to Hex for AL clean-up and conc to 0.5 mL for BNA analysis.

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/26/06 07:35
Run ID: R114790 Workgroup: WG86060 (PHPAHWIPE)

RIM 8/2/06

MB:WG86060-1 Matrix: OTHR SOLID Listtype: ORPHPAHWIPE Method: 8270D-WIPETEST Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug	<MDL	
Acenaphthylene	.01	.02	ug	<MDL	
Dimethyl Phthalate	.05	.1	ug	<MDL	
Acenaphthene	.01	.02	ug	<MDL	
Fluorene	.01	.02	ug	<MDL	
Diethyl Phthalate	.05	.1	ug	<MDL	
Phenanthrene	.01	.02	ug	<MDL	
Anthracene	.01	.02	ug	<MDL	
Di-N-Butyl Phthalate	.05	.1	ug	.305	B
Fluoranthene	.01	.02	ug	<MDL	
Pyrene	.01	.02	ug	<MDL	
Benzyl Butyl Phthalate	.05	.1	ug	<MDL	
Benzo(a)anthracene	.01	.02	ug	<MDL	
Chrysene	.01	.02	ug	<MDL	
Bis(2-Ethylhexyl)Phthalate	.05	.1	ug	.548	B
Di-N-Octyl Phthalate	.05	.1	ug	<MDL	
Benzo(b)fluoranthene	.02	.04	ug	<MDL	
Benzo(k)fluoranthene	.02	.04	ug	<MDL	
Benzo(a)pyrene	.02	.04	ug	<MDL	
Indeno(1,2,3-Cd)Pyrene	.02	.04	ug	<MDL	
Dibenzo(a,h)anthracene	.02	.04	ug	<MDL	
Benzo(g,h,i)perylene	.02	.04	ug	<MDL	
2-Methylnaphthalene	.01	.02	ug	<MDL	

X3 = 0.915

X3 = 1.644

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 07/26/06 07:35
Run ID: R114790 Workgroup: WG86060 (PHPAHWIPE)

Sample #	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	30-115	18-137
L38799-2	115	131
L39161-6	106	136
L39161-7	94	120
L39161-8	107	135
L39161-9	130 *	159 *
L39161-10	119 *	140 *
L39162-6	131 *	150 *
WG86060-1	117 *	150 *

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Comment:
Operator:
Data Path: C:\MSDChem\1\data\060606\

Top	Pre-Seq Cmd:	
Instrument Control	Pre-Seq Cmd:	
Data Analysis	Pre-Seq Cmd:	
Top	Post-Seq Cmd:	
Instrument Control	Post-Seq Cmd:	
Data Analysis	Post-Seq Cmd:	

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Tune	3	DFTPP-1	DFTPP	10 NG/UL DFTPP MIX
2)	Sample	4	CCALI-01	8270B1	SS#1263 D 6.00 PPM BNA STD
3)	Sample	5	CEDC-01	8270BEDC	SS#1190 B 10.0 PPM EDC STD
4)	Inst. Blk	2	BLANK-02	8270B1	MECL2
5)	Sample	6	CALI-01	8270B1	SS#1263 I 0.100 PPM BNA STD
6)	Sample	7	CALI-02	8270B1	SS#1263 H 0.200 PPM BNA STD
7)	Sample	8	CALI-03	8270B1	SS#1263 G 0.500 PPM BNA STD
8)	Sample	9	CALI-04	8270B1	SS#1263 F 1.00 PPM BNA STD
9)	Sample	10	CALI-05	8270B1	SS#1263 E 2.00 PPM BNA STD
10)	Sample	11			
	Datafile		WG86060-1		
	Method		8270B1		
11)	Sample	12	L38799-2	8270B1	L38799-2 FUNNEL WIPES
12)	Sample	13	L39162-6	8270B1	L39162-6 FUNNEL WIPES
13)	Sample	14	L39161-6	8270B1	L39161-6 FUNNEL WIPES
14)	Sample	15	L39161-7	8270B1	L39161-7 FUNNEL WIPES
15)	Sample	16	L39161-8	8270B1	L39161-8 FUNNEL WIPES
16)	Sample	17	L39161-9	8270B1	L39161-9 FUNNEL WIPES
17)	Sample	18			
	Datafile		L39161-10		
	Method		8270B1		
18)	Sample	19			
	Datafile		WG86062-1		
	Method		8270B1		
19)	Sample	20	L38772-1	8270B1	L38772-1 AIR FILTER TEST
20)	Sample	21	L38772-2	8270B1	L38772-2 AIR FILTER TEST
21)	Sample	22	L38772-3	8270B1	L38772-3 AIR FILTER TEST

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SEA424647

Batch: \\orgizmo\EE\chem\6890j.i\060606.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	DFTPP-1	06-JUN-2006 05:09	SDGa0971	SDGa09		1C NG/UL DFTPP MIX	NONE	0.000	1.0	13.185	103552	DFTPP.m		M.Doubrava
2	CCALI-01	06-JUN-2006 05:42	SDGa0282	SDGa02		SS#1263 D 6.00 PPM BNA STD	SOIL	0.000	1.0	8.411	403247	8270b1.m	06-JUN-2006	M.Doubrava
3	CEDC-01	06-JUN-2006 06:22	SDGa0962	SDGa09		SS#1190 B 10.0 PPM EDC STD	WATER	0.000	1.0	8.388	531823	8270BEDC.m	15-DEC-2005	M.Doubrava
4	BLANK-02	06-JUN-2006 06:57	SDGa0282	SDGa02		MECL2	SOIL	0.000	1.0	0.000	0	8270B1.m	06-JUN-2006	M.Doubrava
5	CALI-01	06-JUN-2006 07:37	SDGa0282	SDGa02		SS#1263 I 0.100 PPM BNA STD	SOIL	0.000	1.0	8.411	467399	8270b1.m	06-JUN-2006	M.Doubrava
6	CALI-02	06-JUN-2006 08:17	SDGa0282	SDGa02		SS#1263 H 0.200 PPM BNA STD	SOIL	0.000	1.0	8.411	533689	8270b1.m	06-JUN-2006	M.Doubrava
7	CALI-03	06-JUN-2006 08:57	SDGa0282	SDGa02		SS#1263 G 0.500 PPM BNA STD	SOIL	0.000	1.0	8.411	487500	8270b1.m	06-JUN-2006	M.Doubrava
8	CALI-04	06-JUN-2006 09:38	SDGa0282	SDGa02		SS#1263 F 1.00 PPM BNA STD	SOIL	0.000	1.0	8.411	469421	8270b1.m	06-JUN-2006	M.Doubrava
9	CALI-05	06-JUN-2006 10:18	SDGa0282	SDGa02		SS#1263 E 2.00 PPM BNA STD	SOIL	0.000	1.0	8.402	502105	8270b1.m	06-JUN-2006	M.Doubrava
10	WG86060-1	06-JUN-2006 10:59	WG86060	PHPAHW		WG86060-1 MB FUNNEL WIPES	SOIL	1.000	1.0	8.411	480082	8270b1.m	06-JUN-2006	M.Doubrava
11	L38799-2	06-JUN-2006 11:40	WG86060	PHPAHW		L38799-2 FUNNEL WIPES	SOIL	1.000	1.0	8.411	415731	8270b1.m	06-JUN-2006	M.Doubrava
12	L39162-6	06-JUN-2006 12:21	WG86060	PHPAHW		L39162-6 FUNNEL WIPES	SOIL	1.000	1.0	8.411	503301	8270b1.m	06-JUN-2006	M.Doubrava
13	L39161-6	06-JUN-2006 13:02	WG86060	PHPAHW		L39161-6 FUNNEL WIPES	SOIL	1.000	1.0	8.411	382318	8270b1.m	06-JUN-2006	M.Doubrava
14	L39161-7	06-JUN-2006 13:44	WG86060	PHPAHW		L39161-7 FUNNEL WIPES	SOIL	1.000	1.0	8.411	487223	8270b1.m	06-JUN-2006	M.Doubrava
15	L39161-8	06-JUN-2006 14:26	WG86060	PHPAHW		L39161-8 FUNNEL WIPES	SOIL	1.000	1.0	8.411	608969	8270b1.m	06-JUN-2006	M.Doubrava
16	L39161-9	06-JUN-2006 15:08	WG86060	PHPAHW		L39161-9 FUNNEL WIPES	SOIL	1.000	1.0	8.411	479588	8270b1.m	06-JUN-2006	M.Doubrava
17	L39161-10	06-JUN-2006 15:50	WG86060	PHPAHW		L39161-10 FUNNEL WIPES	SOIL	1.000	1.0	8.402	503130	8270b1.m	06-JUN-2006	M.Doubrava
18	WG86062-1	06-JUN-2006 16:31	SDGa0282	SDGa02		WG86062-1 AIR FILTER TEST	SOIL	1.000	0.5	8.402	443884	8270b1.m	06-JUN-2006	M.Doubrava
19	L38772-1	06-JUN-2006 17:13	SDGa0282	SDGa02		L38772-1 AIR FILTER TEST	SOIL	1.000	0.5	8.402	465362	8270b1.m	06-JUN-2006	M.Doubrava
20	L38772-2	06-JUN-2006 17:55	SDGa0282	SDGa02		L38772-2 AIR FILTER TEST	SOIL	1.000	0.5	8.411	457134	8270b1.m	06-JUN-2006	M.Doubrava
21	L38772-3	06-JUN-2006 18:36	SDGa0282	SDGa02		L38772-3 AIR FILTER TEST	SOIL	1.000	0.5	8.402	520745	8270b1.m	06-JUN-2006	M.Doubrava

Samples: 13 QC Samples + Misc.: 1 ContinuingCals: 0 Tunes: 1 Calibrations: 6

Trace Organics Data Anomaly Form

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

WG #(s): *WG86060*

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

Project #(s): *423589-090-001*

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: *PHPAHWIPE*
☐ 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:

1. The MB (filter paper blank) had detectable amounts of Di-N-Butyl phthalate, and Bis(2EH) Phthalate. For this project, "B" flag values are set at X 3 blank values. Sample were flagged according to this criteria.

July 26, 2006
ORGJ_DAF060606WG86060

8. 2-Fluorobiphenyl and d14-Terphenyl for samples WG86060-1, L39161-9, -10, and L39162-6 failed high for QA/QA recovery limits and are asterisked. The surrogate calculations and calibration curve was doubled checked and passed. Most likely the surrogate solution had concentrated slightly. New surrogate solution has been made and is currently be used with passing QA/QC..

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 <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: *M. Doubrava*		7/26/06
Reviewer:		
Supervisor: *Dana Walker*	Dana Walker	8/10/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM: *F. Grothkopp*		

July 26, 2006
ORGJ_DAF060606WG86060

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: WG86060-1	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:		Run ID:	R114790	Col. Date:
	Locator:	MB	Work Group:	WG86060	Rec. Date: 06-JUN-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.305	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.548	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.93	ug		.02	.04	
d14-Terphenyl	3.76	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG86060-1.rp
Instrument ID						6890j i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	117 *	30-115
d14-Terphenyl	150 *	18-137

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SEA424651

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: L39161-6	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R114790		Col. Date:	23-MAY-06
	Locator: CER	Work Group: WG86060		Rec. Date:	23-MAY-06
	Site: METRO	QC Type:		Due Date:	22-JUN-06
	Method Code: 8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.29	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.481	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.66	ug		.02	.04	
d14-Terphenyl	3.39	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39161-6.rp
Instrument ID						6890j.1
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	106	30-115
d14-Terphenyl	136	18-137

KCSlip4 58353

SEA424652

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: L39161-7	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R114790	Col. Date: 23-MAY-06
	Locator:	DZ	Work Group:	WG86060	Rec. Date: 23-MAY-06
	Site:	METRO	QC Type:		Due Date: 22-JUN-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene	.012	ug	<RDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.345	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.586	ug	B	.05	.1	
Di-N-Octyl Phthalate	.759	ug		.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.35	ug		.02	.04	
d14-Terphenyl	2.99	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06 JUN 06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-7.rp
Instrument ID						6890j i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	94	30-115
d14-Terphenyl	120	18-137

KCSlip4 58354

SEA424653

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: L39161-8	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R114790	Col. Date: 23-MAY-06
	Locator:	KCIA	Work Group:	WG86060	Rec. Date: 23-MAY-06
	Site:	METRO	QC Type:		Due Date: 22-JUN-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.068	ug	<RDL	.05	.1	
Phenanthrene	.0239	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.298	ug	B	.05	.1	
Fluoranthene	.025	ug		.01	.02	
Pyrene	.019	ug	<RDL	.01	.02	
Benzyl Butyl Phthalate	.309	ug		.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.53	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.68	ug		.02	.04	
d14-Terphenyl	3.37	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39161-8 rp
Instrument ID						6890j.i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	107	30-115
d14-Terphenyl	135	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:13 - Data Source: ELD

Sample#: L39161-9	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R114790	Col. Date: 23-MAY-06
	Locator:	SPCC	Work Group:	WG86060	Rec. Date: 23-MAY-06
	Site:	METRO	QC Type:		Due Date: 22 JUN-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.099	ug	<RDL	.05	.1	
Phenanthrene	.0206	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.306	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate	.327	ug		.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.739	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene	.125	ug		.02	.04	
Dibenzo(a,h)anthracene	.104	ug		.02	.04	
Benzo(g,h,i)perylene	.127	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	3.26	ug		.02	.04	
d14-Terphenyl	3.97	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-9.rp
Instrument ID						6890j.i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	130 *	30-115
d14-Terphenyl	159 *	18-137

KCSlip4 58356

SEA424655

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: L39161-10	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R114790		Col. Date:	23-MAY-06
	Locator: SPCC	Work Group: WG86060		Rec. Date:	23-MAY-06
	Site: METRO	QC Type:		Due Date:	22-JUN-06
	Method Code: 8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene	.0206	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.329	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate	.35	ug		.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.798	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.98	ug		.02	.04	
d14-Terphenyl	3.51	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39161-10.rp
Instrument ID						6890j.i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	119 *	30-115
d14-Terphenyl	140 *	18-137

KCSlip4 58357

SEA424656

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:14 - Data Source: ELD

Sample#: L39162-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R114790	Col. Date: 22-MAY-06
	Locator:	CER	Work Group:	WG86060	Rec. Date: 22-MAY-06
	Site:	METRO	QC Type:		Due Date: 21-JUN-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene	.016	ug	<RDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.488	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate	-	ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.55	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	3.28	ug		.02	.04	
d14-Terphenyl	3.75	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						06-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39162-6.rp
Instrument ID						6890j.i
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	131 *	30-115
d14-Terphenyl	150 *	18-137

KCSlip4 58358

SEA424657

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/21/06 01:13 - Data Source: ELD

Sample#: L38799-2	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R114790	Col. Date: 19-APR-06
	Locator:	CER	Work Group:	WG86060	Rec. Date: 19-APR-06
	Site:	METRO	QC Type:		Due Date: 19-MAY-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.293	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.901	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	2.87	ug		.02	.04	
d14-Terphenyl	3.27	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						05-JUN-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/l38799-2.rp
Instrument ID						6890;.1
Prep Date						05-JUN-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	115	30-115
d14-Terphenyl	131	18-137

KCSlip4 58359

SEA424658

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jun 23 2006, 09:49 am

Work Group: WG85969 (BL#650 PCBLL) for Department: 7 - Organics, Trace

Created: 31-MAY-06 PrepDate: 24-MAY-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39161-1	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	30-MAY-06	22-JUN-06
L39161-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	30-MAY-06	22-JUN-06
L39161-3	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	30-MAY-06	22-JUN-06
L39161-4	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	30-MAY-06	22-JUN-06
L39161-5	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	30-MAY-06	22-JUN-06
WG85969-1	MB		S		PCBLL	BLANK WTR	PREP	U	31-MAY-06	
WG85969-2	SB		S		PCBLL	BLANK WTR	PREP	U	31-MAY-06	
WG85969-3	MB		S		PCBLL	BLANK WTR	PREP	U	31-MAY-06	
WG85969-4	SBD		S		PCBLL	BLANK WTR	PREP	U	31-MAY-06	

Comments:

L39161-1	carboys
L39161-2	carboys
L39161-3	carboys
L39161-4	carboys
L39161-5	carboys - FREP
WG85969-1	MB060524
WG85969-2	WG85969-1
WG85969-3	MB060525
WG85969-4	WG85969-2 WG85969-3

KCSlip4 58360

SEA424659

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report 06/28/06 02:30
Run ID: R114270 Workgroup: WG85969 (BL#650 PCBLL)

MB:WG85969-1 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.025	.05	ug/L	<MDL	
Aroclor 1221	.025	.05	ug/L	<MDL	
Aroclor 1232	.025	.05	ug/L	<MDL	
Aroclor 1242	.025	.05	ug/L	<MDL	
Aroclor 1248	.025	.05	ug/L	<MDL	
Aroclor 1254	.025	.05	ug/L	<MDL	
Aroclor 1260	.025	.05	ug/L	<MDL	

SBD:WG85969-4 SB:WG85969-2 MB:WG85969-1 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit	Truevalue	SBD Value	% Rec.	Qual	LabLimit	RPD	Qual	LabLimi
Aroclor 1016	.025	.05	ug/L	<MDL	0.150	.112	75		65-129	0.150	.126	84		43-176	11		
Aroclor 1260	.025	.05	ug/L	<MDL	0.150	.135	90		72-128	0.150	.132	88		13-198	2		

MB:WG85969-3 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.025	.05	ug/L	<MDL	
Aroclor 1221	.025	.05	ug/L	<MDL	
Aroclor 1232	.025	.05	ug/L	<MDL	
Aroclor 1242	.025	.05	ug/L	<MDL	
Aroclor 1248	.025	.05	ug/L	<MDL	
Aroclor 1254	.025	.05	ug/L	<MDL	
Aroclor 1260	.025	.05	ug/L	<MDL	

KCSlip4 58361
SEA424660

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 06/28/06 02:30
Run ID: R114270 Workgroup: WG85969 (BL#650 PCBLL)

Sample #	Decachlorobipheny-l	2,4,5,6-Tetrachloro-m-xylene
(Lab Limits)	12-158	10-118
L39161-1	21	13
L39161-2	82	59
L39161-3	81	52
L39161-4	82	56
L39161-5	78	65
WG85969-1	78	22
WG85969-2	84	18
WG85969-3	78	20
WG85969-4	85	16

KCSlip4 58362
SEA424661

Round 9 - Samples
Round 10 - Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot # 060467
MeCL2 Lot # CQ376
QC BATCH NO.: BL #650
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

PHPAHSOURLE/PCBLL via SPE

WG85968 - PHPAHSOURLE
WORKGROUP NO.: WG85969 - PCBLL
BNA SURROGATE SPIKE: 1273 + 1205 (DMCs)
BNA MATRIX SPIKE: 1246

PCB Field Surr = 121
PCB Lab Surr = 1216
PCB MS LL = 12

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments	
JG 05/24/06	WG85968-1 WG85969-1	QC	MB		6	2000	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	06/21/06 06/23/06	10 ml MeOH	6.
	WG85968-2 WG85969-2	QC	SB		6	2000	+ 1203A-100µl 1246-50µl	1.0	JG	06/21/06 06/23/06	10 ml MeOH	6.
JG 06/23/06	L39162-3	423589-090-001	CER-BK-01-052206-052206		6	2000	1205-25µl 1273-100µl			06/21/06 [redacted]	10 ml MeOH [redacted]	6.
	L39161-3	423589-090-001	KCIA-01-042006-052306		6	2460	1205-25µl 1273-100µl 1216-100µl 1217-100µl			06/21/06 06/23/06	11 ml MeOH Surr 1205 & 1217 spiked pre-deployment High particulate.	19.
	L39161-4	423589-090-001	SPCC-01-042006-052306		6	3040		1.0	JG	06/21/06 06/23/06	13 ml MeOH High particulate. Surr 1205 & 1217 spiked pre-deployment	25.
	—	—	Cartridge Blank		—	2000*		1.0	JG	06/21/06	*No water used for cartridge blank. Tried to use the same volumes of acetone & MeCl2 as for other samples (4 VOA vials, ~40ml acetone 120ml MeCl2)	
JG 05/25/06	WG85968-3 ~~WG85968~~ WG85969-3	QC	MB		6	2000	1205-25µl 1273-100µl 1216-100µl 1217-100µl	1.0	JG	06/21/06 06/23/06	10 ml MeOH JG 05/21/06	6.
	WG85968-4 WG85969-4	QC	SB		6	2000	+ 1203A-100µl 1246-50µl	1.0	JG	06/21/06 06/23/06	10 ml MeOH	6.
	L39161-5	423589-090-001	SPCC-02-042006-052306		6	3000				06/21/06 06/23/06	13 ml MeOH Surr 1205 & 1217 spiked pre-deployment	19.
	L39161-1		CER-01-042006-052306		7	2930				06/21/06 06/23/06	13 ml MeOH Surr 1205 & 1217 spiked pre-deployment.	14.
	L39161-2		DZ-01-042006-052306		6	2290				06/21/06 06/23/06	11 ml MeOH Surr 1205 & 1217 spiked pre-deployment.	15.

*All samples [redacted] brought to 1.0 ml final vol then split with 0.5 ml vial volume for PHPAHSOURLE analysis. 0.5 ml split for PCBLL cleaned via alumina and 1-2 SOX cleanup. Then reconcentrated to 0.5 ml vial volume [redacted] so final vol = vial vol = 1.0 ml. Splits for PCBLL analysis had solvent exchange to Hexane prior to clean-up.

*For SPCC-01 (L39161-4) large lump (harvest?) observed in sample after surr added.

* For all samples, processed using SPE Lot 40417

**For sample L39161-1, large fraction of sample lost (spilled before transfer to K-D). Estimate loss of 160 ml out of 250 ml total (90 ml remaining out that included Na2SO4). Percent loss likely 65-80%.

KCSlip4 58363
SEA424662

Data File Name	Sample Name	Date Acquired	Vial Numb	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptoph (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	6/23/2006 11:15	1	0	1										S:\MSDCHEM\2\DATA\060623\
BLANK-01.D	blank	6/23/2006 11:51	2	0	1										S:\MSDCHEM\2\DATA\060623\
PCB-01.D	1218D 1016/1260 500/50	6/23/2006 12:28	3	0	1	14.301	76954221	22.514	153876139	13.003	241809162	19.437	359929316		S:\MSDCHEM\2\DATA\060623\
PCB-02.D	1209.1 1248 500/50	6/23/2006 13:05	4	0	1	14.301	98165746	22.513	190407316	13.003	301006937	19.436	449147640		S:\MSDCHEM\2\DATA\060623\
PCB-03.D	1210.1 1254 500/50	6/23/2006 13:41	5	0	1	14.301	92274078	22.512	172066026	13.003	279620842	19.435	411369450		S:\MSDCHEM\2\DATA\060623\
PCB-04.D	1209.1 1221 500/50	6/23/2006 14:18	6	0	1	14.301	84066361	22.511	155797190	13.002	241315323	19.430	353848547		S:\MSDCHEM\2\DATA\060623\
PCB-05.D	1207.1 1232 500/50	6/23/2006 14:55	7	0	1	14.301	83387957	22.513	153264935	13.002	241102154	19.435	351272531		S:\MSDCHEM\2\DATA\060623\
PCB-06.D	1208.1 1242 500/50	6/23/2006 15:31	8	0	1	14.300	80644745	22.512	152441198	13.003	252021268	19.437	361537398		S:\MSDCHEM\2\DATA\060623\
WG85989-1.D	MB	6/23/2006 16:08	9	2000	1	14.300	80542576	22.512	154023376	13.002	229911452	19.434	343089319	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
WG85989-2.D	SB	6/23/2006 16:45	10	2000	1	14.300	77198584	22.513	149350207	13.003	224170308	19.438	330261958	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
WG85989-3.D	MB2	6/23/2006 17:22	11	2000	1	14.301	76160738	22.515	151891649	13.004	242296485	19.438	348539712	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
WG85989-4.D	SBD	6/23/2006 17:58	12	2000	1	14.301	76733292	22.513	148916851	13.002	240208446	19.433	346911953	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
L39161-1.D	L39161-1	6/23/2006 18:35	13	2930	1	14.300	75202961	22.513	159448570	13.003	229247116	19.437	352329144	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
L39161-2.D	L39161-2	6/23/2006 19:12	14	2290	1	14.303	56650382	22.520	159064202	13.003	206525797	19.445	336563213	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
L39161-3.D	L39161-3	6/23/2006 19:48	15	2450	1	14.302	85601594	22.516	165065454	13.003	207184054	19.439	348539015	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
L39161-4.D	L39161-4	6/23/2006 20:25	16	3040	1	14.303	87508665	22.517	159322455	13.003	202784690	19.441	338013973	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
L39161-5.D	L39161-5	6/23/2006 21:02	17	3000	1	14.301	89171636	22.516	158785242	13.003	200827972	19.440	328246030	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060623\
PCB-07.D	1218D 1016/1260 500/50	6/23/2006 21:38	3	0	1	14.301	77171150	22.512	159985980	13.002	219742595	19.435	334830117		S:\MSDCHEM\2\DATA\060623\
PCB-08.D	1209.1 1248 500/50	6/23/2006 22:15	4	0	1	14.299	100652475	22.513	202568888	13.002	292860493	19.434	428941853		S:\MSDCHEM\2\DATA\060623\
					Ave.	14.301	79705139	22.514	161533863	13.003	238507594	19.437	360787716		
					Std. Dev.	0.001	10236831	0.002	14510569	0.001	29653549	0.003	35118297		
					%RSD		13%		9%		12%		10%		

KCSlip4 58364
SEA424663

Data File Name	Sample Name	Date Acquired	Vial Numb	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptoph (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	6/27/2006 10:30	1	0	1										S:\MSDCHEM\2\DATA\060627\
BLANK-01.D	blank	6/27/2006 11:07	2	0	1										S:\MSDCHEM\2\DATA\060627\
PCB-01.D	1218D 1016/1260 500/50	6/27/2006 11:44	3	0	1	14.305	87310126	22.518	165785842	13.006	248591792	19.441	358461510		S:\MSDCHEM\2\DATA\060627\
PCB-02.D	1209.1 1248 500/50	6/27/2006 12:20	4	0	1	14.306	115857003	22.519	216534139	13.005	323074187	19.440	479789029		S:\MSDCHEM\2\DATA\060627\
PCB-03.D	1210.1 1254 500/50	6/27/2006 12:59	5	0	1	14.305	98289276	22.518	188037402	13.004	272984943	19.438	394938501		S:\MSDCHEM\2\DATA\060627\
PCB-04.D	1206.1 1221 500/50	6/27/2006 13:36	6	0	1	14.304	92206517	22.516	170422083	13.003	252809130	19.436	364426130		S:\MSDCHEM\2\DATA\060627\
PCB-05.D	1207.1 1232 500/50	6/27/2006 14:13	7	0	1	14.302	90402625	22.516	169945829	13.004	252860688	19.437	361361386		S:\MSDCHEM\2\DATA\060627\
PCB-06.D	1208.1 1242 500/50	6/27/2006 14:50	8	0	1	14.304	91698149	22.518	170263751	13.004	250742819	19.437	363103422		S:\MSDCHEM\2\DATA\060627\
WG85969-1.D	MB	6/27/2006 15:27	9	2000	1	14.304	88909555	22.518	160902228	13.004	236776154	19.436	339470727	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
WG85969-2.D	SB	6/27/2006 16:04	10	2000	1	14.303	88556687	22.516	168609529	13.003	240303045	19.436	353119964	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
WG85969-3.D	MB2	6/27/2006 16:40	11	2000	1	14.304	88415218	22.518	167872189	13.004	242990172	19.438	345548235	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
WG85969-4.D	SBD	6/27/2006 17:17	12	2000	1	14.305	88831207	22.518	171352648	13.005	248204621	19.438	350814858	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
L39161-1.D	L39161-1	6/27/2006 17:54	13	2930	1	14.304	86710057	22.519	177514642	13.004	241663452	19.438	375206311	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
L39161-2.D	L39161-2	6/27/2006 18:30	14	2290	1	14.305	74910609	22.523	178178446	13.005	218571301	19.447	360298253	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
L39161-3.D	L39161-3	6/27/2006 19:07	15	2460	1	14.305	74199108	22.520	178387471	13.005	216325340	19.442	347106705	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
L39161-4.D	L39161-4	6/27/2006 19:44	16	3040	1	14.305	70422552	22.523	164479685	13.005	199633273	19.443	340628061	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
L39161-5.D	L39161-5	6/27/2006 20:21	17	3000	1	14.304	72190822	22.520	162395348	13.004	205316495	19.442	339881532	BL650 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\060627\
BLANK-02.D	blank	6/27/2006 20:58	2	0	1										S:\MSDCHEM\2\DATA\060627\
PCB-07.D	1218D 1016/1260 500/50	6/27/2006 21:35	3	0	1	14.304	88357300	22.519	176405965	13.002	240855621	19.435	343004101		S:\MSDCHEM\2\DATA\060627\
PCB-08.D	1209.1 1248 500/50	6/27/2006 22:11	4	0	1	14.302	115745987	22.514	234461687						S:\MSDCHEM\2\DATA\060627\
					Ave.	14.304	89029988	22.518	177526485	13.004	243868708	19.439	364822414		
					Std. Dev.	0.001	12752602	0.002	19706792	0.001	26926100	0.003	54676570		
					%RSD		14%		11%		12%		10%		

KCSlip4 58365
SEA424664

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#: WG85969-1	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R114270	Col. Date:
	Locator:	MB	Work Group:	WG85969	Rec. Date: 31-MAY-06
	Site:	NONE	QC Type:	MB	Duc Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260		ug/L	<MDL	.025	.05	
Decachlorobiphenyl	.0389	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.0111	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	78	12-158
2,4,5,6-Tetrachloro-m-xylene	22	10-118

KCSlip4 58366

SEA424665

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	WG85969-2	Matrix:	BLANK WTR	List Type:	ORPCBLL		
		Project:		Run ID:	R114270	Col. Date:	
		Locator:	SB	Work Group:	WG85969	Rec. Date:	31-MAY 06
		Site:	NONE	QC Type:	SB	Due Date:	
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016	.112	ug/L		.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260	.135	ug/L		.025	.05	
Decachlorobiphenyl	.0421	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.00896	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/qc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	84	12-158
2,4,5,6-Tetrachloro-m-xylene	18	10-118

KCSlip4 58367

SEA424666

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#: WG85969-3	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R114270	Col. Date:
	Locator:	MB	Work Group:	WG85969	Rec. Date: 31-MAY-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260		ug/L	<MDL	.025	.05	
Decachlorobiphenyl	.0391	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.01	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO53/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	78	12-158
2,4,5,6-Tetrachloro-m-xylene	20	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	WG85969-4	Matrix:	BLANK WTR	List Type:	ORPCBLL		
		Project:		Run ID:	R114270	Col. Date:	
		Locator:	SBD	Work Group:	WG85969	Rec. Date:	31-MAY-06
		Site:	NONE	QC Type:	SBD	Due Date:	
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016	.126	ug/L		.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260	.132	ug/L		.025	.05	
Decachlorobiphenyl	.0425	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.00784	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	85	12-158
2,4,5,6-Tetrachloro-m-xylene	16	10-118

KCSlip4 58369

SEA424668

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	L39161-1	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R114270	Col. Date:	23-MAY-06
		Locator:	CER	Work Group:	WG85969	Rec. Date:	23-MAY-06
		Site:	METRO	QC Type:		Due Date:	22-JUN-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.017	.0341	
Aroclor 1221		ug/L	<MDL	.017	.0341	
Aroclor 1232		ug/L	<MDL	.017	.0341	
Aroclor 1242		ug/L	<MDL	.017	.0341	
Aroclor 1248		ug/L	<MDL	.017	.0341	
Aroclor 1254		ug/L	<MDL	.017	.0341	
Aroclor 1260		ug/L	<MDL	.017	.0341	
Decachlorobiphenyl	.00725	ug/L		.0017	.00341	
2,4,5,6-Tetrachloro-m-xylene	.00449	ug/L		.0017	.00341	
Amount Analyzed	2930	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROE3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	21	12-158
2,4,5,6-Tetrachloro-m-xylene	13	10-118

KCSlip4 58370

SEA424669

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	L39161-2	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R114270	Col. Date:	23-MAY-06
		Locator:	DZ	Work Group:	WG85969	Rec. Date:	23-MAY-06
		Site:	METRO	QC Type:		Due Date:	22-JUN-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.022	.0437	
Aroclor 1221		ug/L	<MDL	.022	.0437	
Aroclor 1232		ug/L	<MDL	.022	.0437	
Aroclor 1242		ug/L	<MDL	.022	.0437	
Aroclor 1248		ug/L	<MDL	.022	.0437	
Aroclor 1254	.035	ug/L	<RDL	.022	.0437	
Aroclor 1260	.04	ug/L	<RDL	.022	.0437	
Decachlorobiphenyl	.0358	ug/L		.0022	.00437	
2,4,5,6-Tetrachloro-m-xylene	.0259	ug/L		.0022	.00437	
Amount Analyzed	2290	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	12-158
2,4,5,6-Tetrachloro-m-xylene	59	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	L39161-3	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R114270	Col. Date:	23-MAY-06
		Locator:	KCIA	Work Group:	WG85969	Rec. Date:	23-MAY-06
		Site:	METRO	QC Type:		Due Date:	22-JUN-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.02	.0407	
Aroclor 1221		ug/L	<MDL	.02	.0407	
Aroclor 1232		ug/L	<MDL	.02	.0407	
Aroclor 1242		ug/L	<MDL	.02	.0407	
Aroclor 1248		ug/L	<MDL	.02	.0407	
Aroclor 1254	.0486	ug/L		.02	.0407	
Aroclor 1260		ug/L	<MDL	.02	.0407	
Decachlorobiphenyl	.0328	ug/L		.002	.00407	
2,4,5,6-Tetrachloro-m-xylene	.0209	ug/L		.002	.00407	
Amount Analyzed	2460	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO53/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	81	12-158
2,4,5,6-Tetrachloro-m-xylene	52	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	L39161-4	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R114270	Col. Date:	23-MAY-06
		Locator:	SPCC	Work Group:	WG85969	Rec. Date:	23-MAY-06
		Site:	METRO	QC Type:		Due Date:	22-JUN-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.016	.0329	
Aroclor 1221		ug/L	<MDL	.016	.0329	
Aroclor 1232		ug/L	<MDL	.016	.0329	
Aroclor 1242		ug/L	<MDL	.016	.0329	
Aroclor 1248		ug/L	<MDL	.016	.0329	
Aroclor 1254		ug/L	<MDL	.016	.0329	
Aroclor 1260		ug/L	<MDL	.016	.0329	
Decachlorobiphenyl	.0271	ug/L		.0016	.00329	
2,4,5,6-Tetrachloro-m-xylene	.0183	ug/L		.0016	.00329	
Amount Analyzed	3040	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	12-158
2,4,5,6-Tetrachloro-m-xylene	56	10-118

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/28/06 02:30 - Data Source: ELD

Sample#:	L39161-5	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090 1	Run ID:	R114270	Col. Date:	23-MAY 06
		Locator:	SPCC	Work Group:	WG85969	Rec. Date:	23-MAY-06
		Site:	METRO	QC Type:		Due Date:	22-JUN-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.017	.0333	
Aroclor 1221		ug/L	<MDL	.017	.0333	
Aroclor 1232		ug/L	<MDL	.017	.0333	
Aroclor 1242		ug/L	<MDL	.017	.0333	
Aroclor 1248		ug/L	<MDL	.017	.0333	
Aroclor 1254		ug/L	<MDL	.017	.0333	
Aroclor 1260		ug/L	<MDL	.017	.0333	
Decachlorobiphenyl	.0259	ug/L		.0017	.00333	
2,4,5,6-Tetrachloro-m-xylene	.0216	ug/L		.0017	.00333	
Amount Analyzed	3000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						27-JUN-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg85969.txt
Instrument ID						HP6890ECD-G
Prep Date						24-MAY-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	78	12-158
2,4,5,6-Tetrachloro-m-xylene	65	10-118

Trace Organics Data Anomaly Form

Date(s) Occurred: *06-22-2006*

WG #(s): *85969*

☐ **All samples in WKGP(s) or Sample #(s):** *L39161-1*

Project #(s): *423589-090-1*

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: *For sample L39161-1, a significant portion of the sample was spilled during preparation. Estimated loss was 65-80%. Sample was homogeneous at time of spillage so loss considered non-selective for target analytes.*

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: *For anomaly due to spillage of sample L39161-1, quantitative impact on the data is definite. Results for all parameters for sample L39161-1 are flagged with an "E" to indicate that results are "Estimated - Outside expected accuracy."*

	Signatures	Signature Dates
Reported By: *Jack Gudeman*	Jack A. Gudeman	07/14/06
Reviewer: ~~*Gretchen Nerlin*~~ Jim Fiscus		7-14-06
Supervisor: *Dana Walker*	Dana Walker	07/14/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		