King County Environmental Laboratory

WORK GROUP REPORT [wk02]

Aug 09 2006, 03:44 pm

Work Group: WG87302 (BL#659 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 09-AUG-06 PrepDate: 04-AUG-06 Due: Operator: JG

Sample	Project Number	Project Description	Key	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39910-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	15-AUG-06	31-AUG-06
L39910-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	15-AUG-06	31-AUG-06
L39910-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	15-AUG-06	31-AUG-06
L39910-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	15-AUG-06	31-AUG-06
L39910-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	15-AUG-06	31-AUG-06
L39911-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	BLANK WTR	PREP	U	14-AUG-06	30-AUG-06
WG87302-1	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	
WG87302-2	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	
WG87302-3	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	
WG87302-4	SBD			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	
WG87302-5	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	
WG87302-6	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	09-AUG-06	

Comments:

L39910-1	carboys
L39910-2	carboys
L39910-3	carboys
L39910-4	carboys
L39910-5	carboys
L39911-1	blank water
WG87302-1	WG87302-2
WG87302-2	MB060804 0.5L
WG87302-3	MB060804 2L
WG87302-4	WG87302-1 WG87302-5
WG87302-5	MB060805 0.5L
WG87302-6	MB060805 2L

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SEA424812

Round 11 - Samples
Round 12 - Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot # 0604467

MeCL2 Lot # CR093

QC BATCH NO.: BL # 659

PHPAHSOURCE via SPE

EPA SW-846 EXTRACTION METHOD:

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

WORKGROUP NO.: WG87302

BNA SURROGATE SPIKE: 1273 + 1205 (DUCs)

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 08/04/06	WG87302-1	QC	SB		6	500	(1205-25µl) (1273-100µl) (1246-50µl)	1.0	JG	08/09/06	2.5 ml MeOH	2.
	WG87302-2	QC	MB (A)		6	500	(1205-25µl) (1273-100µl)	1.0	JG	08/09/06	2.5 ml MeOH	2.
	L39911-1	423589-090-001	CLER-BK-073106-073106		6	2000					10 ml MeOH	7
	WG87302-3	QC	MB (B)		6	2000					10 ml MeOH	6
	L39910-2	423589-090-001	DZ-01-061406-080106		6	500*	*				2.5 ml MeOH * std 1205 spiked pre-deployment	2
	L39910-5	423589-090-001	SPCC-02-061406		7	500	*				2.5 ml MeOH * std 1205 spiked pre-deployment.	2
											* For sample L39910-2, sample had no significant rain water (some wetness of solids). 500 ml RO water added. Sample processed in same manner as other samples.	
JG 08/05/06	WG87302-4	QC	SB1		6	500	(1205-25µl) (1273-100µl) (1246-50µl)	1.0	JG	08/09/06	2.5 ml MeOH KD down to ~3.0ml. SSD-	2
	WG87302-5	QC	MB (A)		6	500	(1205-25µl) (1273-100µl)	1.0	JG	08/09/06	2.5 ml MeOH	2
	WG87302-6	QC	MB (B)		6	2000					10 ml MeOH * rand glass shard in conc. tube.	7
	L39910-4	423589-090-001	SPCC-01-061406-080106		7	520	*				3 ml MeOH * std 1205 spiked pre-deployment.	2.
	L39910-1		CGR-01-061406-080106		8	450	*				3 ml MeOH * std 1205 spiked pre-deployment.	1
	L39910-3		KCIA-01-061406-080106		7	250	*				2 ml MeOH * std 1205 spiked pre-deployment.	1.
											*All samples processed using SPE Lot# 040417	
											* High particulates in all sample carboys.	

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SEA424813

A/m
9/18/06

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/18/06 09:21
Run ID: R116181 Workgroup: WG87302 (BL#659 PHPAHSOURCE)

SBD:WG87302-4 SB:WG87302-1 MB:WG87302-2 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	LabLim
Acenaphthylene	.04	.08	ug/L	<MDL	1.00	.328	33		10-150	1.00	.286	29		10-150	13		10
Dimethyl Phthalate	.04	.08	ug/L	<MDL	1.00	.575	58		10-150	1.00	.593	59		10-150	2		10
Fluorene	.04	.08	ug/L	<MDL	1.00	.473	47		10-150	1.00	.479	48		10-150	2		10
Diethyl Phthalate	.06	.12	ug/L	<MDL	1.00	.785	78		10-150	1.00	.84	84		10-150	7		10
Phenanthrene	.04	.08	ug/L	<MDL	1.00	.64	64		10-150	1.00	.669	67		10-150	5		10
Anthracene	.04	.08	ug/L	<MDL	1.00	.564	56		10-150	1.00	.586	59		10-150	5		10
Di-N-Butyl Phthalate	.04	.08	ug/L	.175	1.00	1.35	117		10-150	1.00	1.34	115		10-150	2		10
Pyrene	.04	.08	ug/L	<MDL	1.00	.974	97		10-150	1.00	.972	97		10-150	0		10
Benzyl Butyl Phthalate	.04	.08	ug/L	.068	1.00	1.26	120		10-150	1.00	1.28	123		10-150	2		10
Benzo(a)anthracene	.04	.08	ug/L	<MDL	1.00	.922	92		10-150	1.00	.923	92		10-150	0		10
Chrysene	.04	.08	ug/L	<MDL	1.00	.885	89		10-150	1.00	.896	90		10-150	1		10
Bis(2-Ethylhexyl)Phthalate	.04	.08	ug/L	.217	1.00	1.1	88		10-150	1.00	1.37	118		10-150	29		10
Benzo(b)fluoranthene	.06	.12	ug/L	<MDL	1.00	.981	98		10-150	1.00	.99	99		10-150	1		10
Benzo(k)fluoranthene	.06	.12	ug/L	<MDL	1.00	.827	83		10-150	1.00	.884	88		10-150	6		10
Benzo(a)pyrene	.06	.12	ug/L	<MDL	1.00	.79	79		10-150	1.00	.819	82		10-150	4		10
Indeno(1,2,3-Cd)Pyrene	.06	.12	ug/L	<MDL	1.00	.79	79		10-150	1.00	.946	95		10-150	18		10
Dibenzo(a,h)anthracene	.06	.12	ug/L	<MDL	1.00	.627	63		10-150	1.00	.936	94		10-150	39		10
Benzo(g,h,i)perylene	.06	.12	ug/L	<MDL	1.00	.791	79		10-150	1.00	.937	94		10-150	17		10

MB:WG87302-2 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.08	.16	ug/L	<MDL	
Acenaphthylene	.04	.08	ug/L	<MDL	
Dimethyl Phthalate	.04	.08	ug/L	<MDL	
Acenaphthene	.04	.08	ug/L	<MDL	
Fluorene	.04	.08	ug/L	<MDL	
Diethyl Phthalate	.06	.12	ug/L	<MDL	
Phenanthrene	.04	.08	ug/L	<MDL	
Anthracene	.04	.08	ug/L	<MDL	
Di-N-Butyl Phthalate	.04	.08	ug/L	.175	B
Fluoranthene	.04	.08	ug/L	<MDL	
Pyrene	.04	.08	ug/L	<MDL	
Benzyl Butyl Phthalate	.04	.08	ug/L	.068	B
Benzo(a)anthracene	.04	.08	ug/L	<MDL	
Chrysene	.04	.08	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.04	.08	ug/L	.217	B
Di-N-Octyl Phthalate	.06	.12	ug/L	<MDL	
Benzo(b)fluoranthene	.06	.12	ug/L	<MDL	
Benzo(k)fluoranthene	.06	.12	ug/L	<MDL	
Benzo(a)pyrene	.06	.12	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.06	.12	ug/L	<MDL	
Dibenzo(a,h)anthracene	.06	.12	ug/L	<MDL	
Benzo(g,h,i)perylene	.06	.12	ug/L	<MDL	
2-Methylnaphthalene	.06	.12	ug/L	<MDL	

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/18/06 09:21
Run ID: R116181 Workgroup: WG87302 (BL#659 PHPAHSOURCE)

MB:WG87302-3 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	.0516	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	.0713	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	

MB:WG87302-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.08	.16	ug/L	<MDL	
Acenaphthylene	.04	.08	ug/L	<MDL	
Dimethyl Phthalate	.04	.08	ug/L	<MDL	
Acenaphthene	.04	.08	ug/L	<MDL	
Fluorene	.04	.08	ug/L	<MDL	
Diethyl Phthalate	.06	.12	ug/L	<MDL	
Phenanthrene	.04	.08	ug/L	<MDL	
Anthracene	.04	.08	ug/L	<MDL	
Di-N-Butyl Phthalate	.04	.08	ug/L	.189	B
Fluoranthene	.04	.08	ug/L	<MDL	
Pyrene	.04	.08	ug/L	<MDL	
Benzyl Butyl Phthalate	.04	.08	ug/L	.05	B
Benzo(a)anthracene	.04	.08	ug/L	<MDL	
Chrysene	.04	.08	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.04	.08	ug/L	.19	B
Di-N-Octyl Phthalate	.06	.12	ug/L	<MDL	
Benzo(b)fluoranthene	.06	.12	ug/L	<MDL	
Benzo(k)fluoranthene	.06	.12	ug/L	<MDL	
Benzo(a)pyrene	.06	.12	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.06	.12	ug/L	<MDL	
Dibenzo(a,h)anthracene	.06	.12	ug/L	<MDL	
Benzo(g,h,i)perylene	.06	.12	ug/L	<MDL	

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MB:WG87302-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
2-Methylnaphthalene	.06	.12	ug/L	<MDL	

MB:WG87302-6 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	.046	B
Fluoranthene	.01	.02	ug/L	<MDL	
Pyrene	.01	.02	ug/L	<MDL	
Benzyl Butyl Phthalate	.01	.02	ug/L	.014	B
Benzo(a)anthracene	.01	.02	ug/L	<MDL	
Chrysene	.01	.02	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.01	.02	ug/L	.0466	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	

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/18/06 09:21
Run ID: R116181 Workgroup: WG87302 (BL#659 PHPAHSOURCE)

Sample #	d14-Terphenyl	D6-Dimethyl Phthalate	D8-Acenaphthylene	D10-Fluorene	D10-Anthracene	D10-Pyrene	D12-Benzo(a)pyrene
(Lab Limits)	33-141	0-150	0-150	0-150	0-150	0-150	0-150
L39910-1	115	0 *	0 *	0 *	5 *	0 *	23
L39910-2	112	0 *	0 *	0 *	3 *	0 *	0 *
L39910-3	115	0 *	0 *	0 *	4 *	0 *	25
L39910-4	112	0 *	0 *	0 *	3 *	0 *	19
L39910-5	110	0 *	0 *	0 *	3 *	0 *	27
L39911-1	98	63	35	46	68	109	96
WG87302-1	95	64	42	54	62	101	96
WG87302-2	101	69	44	45	70	106	101
WG87302-3	103	87	58	65	78	104	99
WG87302-4	107	66	37	57	67	104	101
WG87302-5	95	65	37	47	69	103	101
WG87302-6	99	65	39	47	67	102	104

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Batch: \\Orgizmo\EE\chem\6890n.i\060831.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	31-AUG-2006 06:08	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.741	414514	PHPAH.m	30-AUG-2006	Dave Fada
2	DFTPP-1	31-AUG-2006 06:50	SDGa2816	SDGa28	421152	SS#1254A DFTPP	NONE	0.000	1.0	12.807	88896	LVI_DFTP.m		Dave Fada
3	CCALI-1	31-AUG-2006 07:33	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.741	500085	PHPAH.m	30-AUG-2006	Dave Fada
4	WG87302-2	31-AUG-2006 08:21	WG87302	BL#659	423589	Method Blank A (08-04-2006)	WATER	500.000	1.0	6.741	429477	PHPAH.m	30-AUG-2006	Dave Fada
5	WG87302-3	31-AUG-2006 09:03	WG87302	BL#659	423589	Method Blank B (08-04-2006)	WATER	2000.000	1.0	6.741	420409	PHPAH.m	30-AUG-2006	Dave Fada
6	WG87302-5	31-AUG-2006 09:45	WG87302	BL#659	423589	Method Blank (08-05-2006)	WATER	500.000	1.0	6.741	448036	PHPAH.m	30-AUG-2006	Dave Fada
7	WG87302-6	31-AUG-2006 10:28	WG87302	BL#659	423589	Method Blank (08-05-2006)	WATER	2000.000	1.0	6.741	449192	PHPAH.m	30-AUG-2006	Dave Fada
8	WG87302-1	31-AUG-2006 11:11	WG87302	BL#659	423589	Spike Blank (08-04-2006)	WATER	500.000	1.0	6.741	433822	PHPAH.m	30-AUG-2006	Dave Fada
9	WG87302-4	31-AUG-2006 11:53	WG87302	BL#659	423589	Spike Blank Dup (08-05-2006)	WATER	500.000	1.0	6.741	435722	PHPAH.m	30-AUG-2006	Dave Fada
10	L39911-1	31-AUG-2006 12:36	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.741	457092	PHPAH.m	30-AUG-2006	Dave Fada
11	L39910-1	31-AUG-2006 13:19	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	450.000	10.0	6.741	534478	PHPAH.m	30-AUG-2006	Dave Fada
12	L39910-2	31-AUG-2006 14:01	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	500.000	10.0	6.741	530834	PHPAH.m	30-AUG-2006	Dave Fada
13	L39910-3	31-AUG-2006 14:44	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	250.000	10.0	6.741	686177	PHPAH.m	30-AUG-2006	Dave Fada
14	L39910-4	31-AUG-2006 15:26	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	520.000	10.0	6.741	663229	PHPAH.m	30-AUG-2006	Dave Fada
15	L39910-5	31-AUG-2006 16:09	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	500.000	10.0	6.741	623257	PHPAH.m	30-AUG-2006	Dave Fada

Samples: 6 **QC Samples + Misc.:** 7 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

Batch: \\Orgizmo\EE\chem\6890n.i\060901.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	01-SEP-2006 06:59	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.741	560080	PHPAH.m	30-AUG-2006	Dave Fada
2	DFTPP-1	01-SEP-2006 07:42	SDGa2816	SDGa28	421152	SS#1254A DFTPP	NONE	0.000	1.0	12.807	150528	LVI_DFTP.m		Dave Fada
3	CCALI-1	01-SEP-2006 08:24	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.741	655901	PHPAH.m	30-AUG-2006	Dave Fada
4	L39910-3	01-SEP-2006 09:50	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	250.000	10.0	6.741	707863	PHPAH.m	30-AUG-2006	Dave Fada
5	L39910-4	01-SEP-2006 10:33	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	520.000	10.0	6.741	728458	PHPAH.m	30-AUG-2006	Dave Fada
6	L39910-3X	01-SEP-2006 13:16	WG87302	BL#659	423589	Lower Duwamish Phthalate Stu	WATER	250.000	20.0	6.741	568339	PHPAH.m	30-AUG-2006	Dave Fada

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

```
Sequence Name: C:\MSDCHEM\1\SEQUENCE\060831.S
      Comment:
     Operator: Dave Fada
    Data Path: C:\MSDCHEM\1\DATA\060831\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

  Method Sections To Run      On A Barcode Mismatch
   (X) Full Method              (X) Inject Anyway
   ( ) Reprocessing Only        ( ) Don't Inject

  ---------------------------------------------------------------------
  Line                  Sample Name/Misc Info
  ---------------------------------------------------------------------
  1   Type: Blank       Solvent Blank + ISTD's
      Vial: 1           Solvent Blank + ISTD's
      Method  : PHPAH.M
      Datafile: BLANK-1.D
      Bar Code: 421152          Samp Amt: 1000       Multiplr: 1
      Matrix          :Method Default   Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  2   Type: Tune        SS#1254A DFTPP
      Vial: 2           DFTPP 0.5 ug/ml 20 ul injection
      Method  : LVI_DFTP.M
      Datafile: DFTPP-1.D
      Bar Code: 421152          Samp Amt: 1          Multiplr: 1
      Matrix          :Method Default   Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  3   Type: Cont.Cal    SS#1120E 250 ppb
      Vial: 3           Phthalate/PAH 250 ppb 20 ul injection
      Method  : PHPAH.M
      Datafile: CCALI-1.D
      Bar Code: 421152          Samp Amt: 1          Multiplr: 1
      Matrix          :Method Default   Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  4   Type: Blank       Method Blank A (08-04-2006)
      Vial: 4           WG87302;BL#659;SS#969x200;SS#1273/1205
      Method  : PHPAH.M
      Datafile: WG87302-2.D
      Bar Code: 423589          Samp Amt: 500        Multiplr: 1
      Matrix          :Liquid           Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  5   Type: Blank       Method Blank B (08-04-2006)
      Vial: 5           WG87302;BL#659;SS#969x200;SS#1273/1205
      Method  : PHPAH.M
      Datafile: WG87302-3.D
      Bar Code: 423589          Samp Amt: 2000       Multiplr: 1
      Matrix          :Liquid           Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  6   Type: Blank       Method Blank (08-05-2006)
      Vial: 6           WG87302;BL#659;SS#969x200;SS#1273/1205
      Method  : PHPAH.M
      Datafile: WG87302-5.D
      Bar Code: 423589          Samp Amt: 500        Multiplr: 1
      Matrix          :Liquid           Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  7   Type: Blank       Method Blank (08-05-2006)
      Vial: 7           WG87302;BL#659;SS#969x200;SS#1273/1205
      Method  : PHPAH.M
      Datafile: WG87302-6.D
      Bar Code: 423589          Samp Amt: 2000       Multiplr: 1
      Matrix          :Liquid           Sublist         :Method Default
      Spikelist       :Method Default   Re-inject       :No
  ---------------------------------------------------------------------
  8   Type: SB          Spike Blank (08-04-2006)

 Sequence Last Modified  Thu Aug 31 06:00:40 2006        Page: 1
```

```
     Method   : PHPAH.M
     Datafile: WG87302-1.D
     Bar Code: 423589            Samp Amt: 500         Multiplr: 1
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
9    Type: SBD          Spike Blank Dup (08-05-2006)
     Vial: 9            WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: WG87302-4.D
     Bar Code: 423589            Samp Amt: 500         Multiplr: 1
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
10   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 10           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39911-1.D
     Bar Code: 423589            Samp Amt: 2000        Multiplr: 1
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
11   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 11           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39910-1.D
     Bar Code: 423589            Samp Amt: 450         Multiplr: 10
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
12   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 12           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39910-2.D
     Bar Code: 423589            Samp Amt: 500         Multiplr: 10
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
13   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 13           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39910-3.D
     Bar Code: 423589            Samp Amt: 250         Multiplr: 10
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
14   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 14           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39910-4.D
     Bar Code: 423589            Samp Amt: 520         Multiplr: 10
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
15   Type: Sample       Lower Duwamish Phthalate Studies
     Vial: 15           WG87302;BL#659;SS#969x200;SS#1273/1205
     Method   : PHPAH.M
     Datafile: L39910-5.D
     Bar Code: 423589            Samp Amt: 500         Multiplr: 10
     Matrix           :Liquid            Sublist          :Method Default
     Spikelist        :Method Default    Re-inject        :No
-----------------------------------------------------------------------
```


KCSlip4 58521

SEA424820

Sequence Name: C:\MSDCHEM\1\SEQUENCE\060901.D
Comment:
Operator: Dave Fada
Data Path: C:\MSDCHEM\1\DATA\060901\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-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	Type: Blank	Solvent Blank + ISTD's		
	Vial: 1	Solvent Blank + ISTD's		
	Method : PHPAH.M			
	Datafile: BLANK-1.D			
	Bar Code: 421152	Samp Amt: 1000		Multiplr: 1
	Matrix	:Method Default	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No
2	Type: Tune	SS#1254A DFTPP		
	Vial: 2	DFTPP 0.5 ug/ml 20 ul injection		
	Method : LVI_DFTP.M			
	Datafile: DFTPP-1.D			
	Bar Code: 421152	Samp Amt: 1		Multiplr: 1
	Matrix	:Method Default	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No
3	Type: Cont.Cal	SS#1120E 250 ppb		
	Vial: 3	Phthalate/PAH 250 ppb 20 ul injection		
	Method : PHPAH.M			
	Datafile: CCALI-1.D			
	Bar Code: 421152	Samp Amt: 1		Multiplr: 1
	Matrix	:Method Default	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No
4	Type: Sample	Lower Duwamish Phthalate Studies		
	Vial: 4	WG87302;BL#659;SS#969x200;SS#1273/1205		
	Method : PHPAH.M			
	Datafile: L39910-3.D			
	Bar Code: 423589	Samp Amt: 250		Multiplr: 10
	Matrix	:Liquid	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No
5	Type: Sample	Lower Duwamish Phthalate Studies		
	Vial: 5	WG87302;BL#659;SS#969x200;SS#1273/1205		
	Method : PHPAH.M			
	Datafile: L39910-4.D			
	Bar Code: 423589	Samp Amt: 520		Multiplr: 10
	Matrix	:Liquid	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No
6	Type: Sample	Lower Duwamish Phthalate Studies		
	Vial: 6	WG87302;BL#659;SS#969x200;SS#1273/1205		
	Method : PHPAH.M			
	Datafile: L39910-3X.D			
	Bar Code: 423589	Samp Amt: 250		Multiplr: 20
	Matrix	:Liquid	Sublist	:Method Default
	Spikelist	:Method Default	Re-inject	:No

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SEA424821

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)
8-23-06 DZ	L39910-1	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
8-23-06 DZ	L39910-2	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
8-23-06 DZ	L39910-3	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
8-23-06 DZ	L39910-4	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl
8-23-06 DZ	L39910-5	0.1ml	1.0ml	10x	SS#969x200	20µl	20µl

6890n MAINTENANCE LOG

King County Environmental Laboratory

Date & Initials	Maintenance Description

KCSlip4 58523

SEA424822

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-1	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R116181	Col. Date:
	Locator:	SB	Work Group:	WG87302	Rec. Date: 09-AUG-06
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.08	.16	
Acenaphthylene	.328	ug/L		.04	.08	
Dimethyl Phthalate	.575	ug/L		.04	.08	
Acenaphthene		ug/L	<MDL	.04	.08	
Fluorene	.473	ug/L		.04	.08	
Diethyl Phthalate	.785	ug/L		.06	.12	
Phenanthrene	.64	ug/L		.04	.08	
Anthracene	.564	ug/L		.04	.08	
Di-N-Butyl Phthalate	1.35	ug/L		.04	.08	
Fluoranthene		ug/L	<MDL	.04	.08	
Pyrene	.974	ug/L		.04	.08	
Benzyl Butyl Phthalate	1.26	ug/L		.04	.08	
Benzo(a)anthracene	.922	ug/L		.04	.08	
Chrysene	.885	ug/L		.04	.08	
Bis(2-Ethylhexyl)Phthalate	1.1	ug/L		.04	.08	
Di-N-Octyl Phthalate		ug/L	<MDL	.06	.12	
Benzo(b)fluoranthene	.981	ug/L		.06	.12	
Benzo(k)fluoranthene	.827	ug/L		.06	.12	
Benzo(a)pyrene	.79	ug/L		.06	.12	
Indeno(1,2,3-Cd)Pyrene	.79	ug/L		.06	.12	
Dibenzo(a,h)anthracene	.627	ug/L		.06	.12	
Benzo(g,h,i)perylene	.791	ug/L		.06	.12	
2-Methylnaphthalene		ug/L	<MDL	.06	.12	
d14-Terphenyl	2.37	ug/L		.04	.08	
D6-Dimethyl Phthalate	.644	ug/L		.04	.08	
D8-Acenaphthylene	.417	ug/L		.04	.08	
D10-Fluorene	.542	ug/L		.04	.08	
D10-Anthracene	.622	ug/L		.04	.08	
D10-Pyrene	1.01	ug/L		.04	.08	
D12-Benzo(a)pyrene	.963	ug/L		.04	.08	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG87302-1.rp
Instrument ID						6890n.1
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	95	33-141
D6-Dimethyl Phthalate	64	0-150
D8-Acenaphthylene	42	0-150
D10-Fluorene	54	0-150
D10-Anthracene	62	0-150
D10-Pyrene	101	0-150
D12-Benzo(a)pyrene	96	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-2	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R116181	Col. Date:
	Locator:	MB	Work Group:	WG87302	Rec. Date: 09-AUG-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.08	.16	
Acenaphthylene		ug/L	<MDL	.04	.08	
Dimethyl Phthalate		ug/L	<MDL	.04	.08	
Acenaphthene		ug/L	<MDL	.04	.08	
Fluorene		ug/L	<MDL	.04	.08	
Diethyl Phthalate		ug/L	<MDL	.06	.12	
Phenanthrene		ug/L	<MDL	.04	.08	
Anthracene		ug/L	<MDL	.04	.08	
Di-N-Butyl Phthalate	.175	ug/L	B	.04	.08	
Fluoranthene		ug/L	<MDL	.04	.08	
Pyrene		ug/L	<MDL	.04	.08	
Benzyl Butyl Phthalate	.068	ug/L	<RDL,B	.04	.08	
Benzo(a)anthracene		ug/L	<MDL	.04	.08	
Chrysene		ug/L	<MDL	.04	.08	
Bis(2-Ethylhexyl)Phthalate	.217	ug/L	B	.04	.08	
Di-N-Octyl Phthalate		ug/L	<MDL	.06	.12	
Benzo(b)fluoranthene		ug/L	<MDL	.06	.12	
Benzo(k)fluoranthene		ug/L	<MDL	.06	.12	
Benzo(a)pyrene		ug/L	<MDL	.06	.12	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.06	.12	
Dibenzo(a,h)anthracene		ug/L	<MDL	.06	.12	
Benzo(g,h,i)perylene		ug/L	<MDL	.06	.12	
2-Methylnaphthalene		ug/L	<MDL	.06	.12	
d14-Terphenyl	2.52	ug/L		.04	.08	
D6-Dimethyl Phthalate	.686	ug/L		.04	.08	
D8-Acenaphthylene	.44	ug/L		.04	.08	
D10-Fluorene	.451	ug/L		.04	.08	
D10-Anthracene	.697	ug/L		.04	.08	
D10-Pyrene	1.06	ug/L		.04	.08	
D12-Benzo(a)pyrene	1.01	ug/L		.04	.08	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG87302-2.rp
Instrument ID						6890n i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	101	33-141
D6-Dimethyl Phthalate	69	0-150
D8-Acenaphthylene	44	0-150
D10-Fluorene	45	0-150
D10-Anthracene	70	0-150
D10-Pyrene	106	0-150
D12-Benzo(a)pyrene	101	0-150

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SEA424824

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-3	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R116181	Col. Date:
	Locator:	MB	Work Group:	WG87302	Rec. Date: 09-AUG-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	.0516	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	.0713	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	.642	ug/L		.01	.02	
D6-Dimethyl Phthalate	.218	ug/L		.01	.02	
D8-Acenaphthylene	.146	ug/L		.01	.02	
D10-Fluorene	.163	ug/L		.01	.02	
D10-Anthracene	.195	ug/L		.01	.02	
D10-Pyrene	.26	ug/L		.01	.02	
D12-Benzo(a)pyrene	.248	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG87302-3.rp
Instrument ID						6890n 1
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	103	33-141
D6-Dimethyl Phthalate	87	0-150
D8-Acenaphthylene	58	0-150
D10-Fluorene	65	0-150
D10-Anthracene	78	0-150
D10-Pyrene	104	0-150
D12-Benzo(a)pyrene	99	0-150

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SEA424825

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-4	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project:	Run ID: R116181	Col. Date:		
	Locator: SBD	Work Group: WG87302	Rec. Date:	09-AUG-06	
	Site: NONE	QC Type: SBD	Due Date:		
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.08	.16	
Acenaphthylene	.286	ug/L		.04	.08	
Dimethyl Phthalate	.593	ug/L		.04	.08	
Acenaphthene		ug/L	<MDL	.04	.08	
Fluorene	.479	ug/L		.04	.08	
Diethyl Phthalate	.84	ug/L		.06	.12	
Phenanthrene	.669	ug/L		.04	.08	
Anthracene	.586	ug/L		.04	.08	
Di-N-Butyl Phthalate	1.34	ug/L		.04	.08	
Fluoranthene		ug/L	<MDL	.04	.08	
Pyrene	.972	ug/L		.04	.08	
Benzyl Butyl Phthalate	1.28	ug/L		.04	.08	
Benzo(a)anthracene	.923	ug/L		.04	.08	
Chrysene	.896	ug/L		.04	.08	
Bis(2-Ethylhexyl)Phthalate	1.37	ug/L		.04	.08	
Di-N-Octyl Phthalate		ug/L	<MDL	.06	.12	
Benzo(b)fluoranthene	.99	ug/L		.06	.12	
Benzo(k)fluoranthene	.884	ug/L		.06	.12	
Benzo(a)pyrene	.819	ug/L		.06	.12	
Indeno(1,2,3-Cd)Pyrene	.946	ug/L		.06	.12	
Dibenzo(a,h)anthracene	.936	ug/L		.06	.12	
Benzo(g,h,i)perylene	.937	ug/L		.06	.12	
2-Methylnaphthalene		ug/L	<MDL	.06	.12	
d14-Terphenyl	2.68	ug/L		.04	.08	
D6-Dimethyl Phthalate	.658	ug/L		.04	.08	
D8-Acenaphthylene	.366	ug/L		.04	.08	
D10-Fluorene	.571	ug/L		.04	.08	
D10-Anthracene	.666	ug/L		.04	.08	
D10-Pyrene	1.04	ug/L		.04	.08	
D12-Benzo(a)pyrene	1.01	ug/L		.04	.08	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG87302-4.rp
Instrument ID						6890n 1
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	107	33-141
D6-Dimethyl Phthalate	66	0-150
D8-Acenaphthylene	37	0-150
D10-Fluorene	57	0-150
D10-Anthracene	67	0-150
D10-Pyrene	104	0-150
D12-Benzo(a)pyrene	101	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-5	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project:	Run ID: R116181	Col. Date:		
	Locator: MB	Work Group: WG87302	Rec. Date:	09-AUG-06	
	Site: NONE	QC Type: MB	Due Date:		
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.08	.16	
Acenaphthylene		ug/L	<MDL	.04	.08	
Dimethyl Phthalate		ug/L	<MDL	.04	.08	
Acenaphthene		ug/L	<MDL	.04	.08	
Fluorene		ug/L	<MDL	.04	.08	
Diethyl Phthalate		ug/L	<MDL	.06	.12	
Phenanthrene		ug/L	<MDL	.04	.08	
Anthracene		ug/L	<MDL	.04	.08	
Di-N-Butyl Phthalate	.189	ug/L	B	.04	.08	
Fluoranthene		ug/L	<MDL	.04	.08	
Pyrene		ug/L	<MDL	.04	.08	
Benzyl Butyl Phthalate	.05	ug/L	<RDL,B	.04	.08	
Benzo(a)anthracene		ug/L	<MDL	.04	.08	
Chrysene		ug/L	<MDL	.04	.08	
Bis(2-Ethylhexyl)Phthalate	.19	ug/L	B	.04	.08	
Di-N-Octyl Phthalate		ug/L	<MDL	.06	.12	
Benzo(b)fluoranthene		ug/L	<MDL	.06	.12	
Benzo(k)fluoranthene		ug/L	<MDL	.06	.12	
Benzo(a)pyrene		ug/L	<MDL	.06	.12	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.06	.12	
Dibenzo(a,h)anthracene		ug/L	<MDL	.06	.12	
Benzo(g,h,i)perylene		ug/L	<MDL	.06	.12	
2-Methylnaphthalene		ug/L	<MDL	.06	.12	
d14-Terphenyl	2.37	ug/L		.04	.08	
D6-Dimethyl Phthalate	.654	ug/L		.04	.08	
D8-Acenaphthylene	.37	ug/L		.04	.08	
D10-Fluorene	.465	ug/L		.04	.08	
D10-Anthracene	.691	ug/L		.04	.08	
D10-Pyrene	1.03	ug/L		.04	.08	
D12-Benzo(a)pyrene	1.01	ug/L		.04	.08	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Forthandler File						/usr/users/seed2/METROS3/file s/gcms/WG87302-5.rp
Instrument ID						6890n.1
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	95	33-141
D6-Dimethyl Phthalate	65	0-150
D8-Acenaphthylene	37	0-150
D10-Fluorene	47	0-150
D10-Anthracene	69	0-150
D10-Pyrene	103	0-150
D12-Benzo(a)pyrene	101	0-150

KCSlip4 58528

SEA424827

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: WG87302-6	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R116181	Col. Date:	
	Locator: MB	Work Group:	WG87302	Rec. Date:	09-AUG-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	.046	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.014	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0466	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	.622	ug/L		.01	.02	
D6-Dimethyl Phthalate	.162	ug/L		.01	.02	
D8-Acenaphthylene	.0983	ug/L		.01	.02	
D10-Fluorene	.117	ug/L		.01	.02	
D10-Anthracene	.167	ug/L		.01	.02	
D10-Pyrene	.255	ug/L		.01	.02	
D12-Benzo(a)pyrene	.26	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG87302-6.rp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	99	33-141
D6-Dimethyl Phthalate	65	0-150
D8-Acenaphthylene	39	0-150
D10-Fluorene	47	0-150
D10-Anthracene	67	0-150
D10-Pyrene	102	0-150
D12-Benzo(a)pyrene	104	0-150

KCSlip4 58529

SEA424828

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39910-1	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R116181		Col. Date:	01-AUG-06
	Locator: CER	Work Group: WG87302		Rec. Date:	01-AUG-06
	Site: METRO	QC Type:		Due Date:	31-AUG-06
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.89	1.78	
Acenaphthylene		ug/L	<MDL	.44	.889	
Dimethyl Phthalate		ug/L	<MDL	.44	.889	
Acenaphthene		ug/L	<MDL	.44	.889	
Fluorene		ug/L	<MDL	.44	.889	
Diethyl Phthalate		ug/L	<MDL	.67	1.33	
Phenanthrene	.78	ug/L	<RDL	.44	.889	
Anthracene		ug/L	<MDL	.44	.889	
Di-N-Butyl Phthalate	.893	ug/L		.44	.889	
Fluoranthene	1.14	ug/L		.44	.889	
Pyrene	1.04	ug/L		.44	.889	
Benzyl Butyl Phthalate	5.53	ug/L		.44	.889	
Benzo(a)anthracene		ug/L	<MDL	.44	.889	
Chrysene	.95	ug/L		.44	.889	
Bis(2-Ethylhexyl)Phthalate	12.7	ug/L		.44	.889	
Di-N-Octyl Phthalate		ug/L	<MDL	.67	1.33	
Benzo(b)fluoranthene	.79	ug/L	<RDL	.67	1.33	
Benzo(k)fluoranthene		ug/L	<MDL	.67	1.33	
Benzo(a)pyrene		ug/L	<MDL	.67	1.33	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.67	1.33	
Dibenzo(a,h)anthracene		ug/L	<MDL	.67	1.33	
Benzo(g,h,i)perylene	.88	ug/L	<RDL	.67	1.33	
2-Methylnaphthalene		ug/L	<MDL	.67	1.33	
d14-Terphenyl	3.2	ug/L		.44	.889	
D6-Dimethyl Phthalate		ug/L	<MDL	.0044	.889	
D8-Acenaphthylene		ug/L	<MDL	.0044	.889	
D10-Fluorene		ug/L	<MDL	.0044	.889	
D10-Anthracene	.055	ug/L	<RDL	.0044	.889	
D10-Pyrene		ug/L	<MDL	.0044	.889	
D12-Benzo(a)pyrene	.26	ug/L	<RDL	.0044	.889	
Amount Analyzed	450	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39910-1.rp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	115		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	5	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	23		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39910-2	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R116181	Col. Date: 01-AUG-06
	Locator:	DZ	Work Group:	WG87302	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.8	1.6	
Acenaphthylene		ug/L	<MDL	.4	.8	
Dimethyl Phthalate		ug/L	<MDL	.4	.8	
Acenaphthene		ug/L	<MDL	.4	.8	
Fluorene		ug/L	<MDL	.4	.8	
Diethyl Phthalate		ug/L	<MDL	.6	1.2	
Phenanthrene	.5	ug/L	<RDL	.4	.8	
Anthracene		ug/L	<MDL	.4	.8	
Di-N-Butyl Phthalate	.72	ug/L	<RDL	.4	.8	
Fluoranthene	.885	ug/L		.4	.8	
Pyrene	.78	ug/L	<RDL	.4	.8	
Benzyl Butyl Phthalate	1.6	ug/L		.4	.8	
Benzo(a)anthracene		ug/L	<MDL	.4	.8	
Chrysene	.62	ug/L	<RDL	.4	.8	
Bis(2-Ethylhexyl)Phthalate	9.78	ug/L		.4	.8	
Di-N-Octyl Phthalate	20.6	ug/L		.6	1.2	
Benzo(b)fluoranthene		ug/L	<MDL	.6	1.2	
Benzo(k)fluoranthene		ug/L	<MDL	.6	1.2	
Benzo(a)pyrene		ug/L	<MDL	.6	1.2	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.6	1.2	
Dibenzo(a,h)anthracene		ug/L	<MDL	.6	1.2	
Benzo(g,h,i)perylene		ug/L	<MDL	.6	1.2	
2-Methylnaphthalene		ug/L	<MDL	.6	1.2	
d14-Terphenyl	2.79	ug/L		.4	.8	
D6-Dimethyl Phthalate		ug/L	<MDL	.004	.8	
D8-Acenaphthylene		ug/L	<MDL	.004	.8	
D10-Fluorene		ug/L	<MDL	.004	.8	
D10-Anthracene	.029	ug/L	<RDL	.004	.8	
D10-Pyrene		ug/L	<MDL	.004	.8	
D12-Benzo(a)pyrene		ug/L	<MDL	.004	.8	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39910-2.xp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	112		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	3	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	0	*	0-150

KCSlip4 58531

SEA424830

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39910-3	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R116181		Col. Date:	01-AUG-06
	Locator: KCIA	Work Group: WG87302		Rec. Date:	01-AUG-06
	Site: METRO	QC Type:		Due Date:	31-AUG-06
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	1.6	3.2	
Acenaphthylene		ug/L	<MDL	.8	1.6	
Dimethyl Phthalate		ug/L	<MDL	.8	1.6	
Acenaphthene		ug/L	<MDL	.8	1.6	
Fluorene		ug/L	<MDL	.8	1.6	
Diethyl Phthalate		ug/L	<MDL	1.2	2.4	
Phenanthrene	17	ug/L		.8	1.6	
Anthracene	1.7	ug/L		.8	1.6	
Di-N-Butyl Phthalate		ug/L	<MDL	.8	1.6	
Fluoranthene	47.5	ug/L		.8	1.6	
Pyrene	38.7	ug/L		.8	1.6	
Benzyl Butyl Phthalate	3.05	ug/L		.8	1.6	
Benzo(a)anthracene	14.5	ug/L		.8	1.6	
Chrysene	29.3	ug/L		.8	1.6	
Bis(2-Ethylhexyl)Phthalate	17.2	ug/L		.8	1.6	
Di-N-Octyl Phthalate		ug/L	<MDL	1.2	2.4	
Benzo(b)fluoranthene	31.6	ug/L		1.2	2.4	
Benzo(k)fluoranthene	25.1	ug/L		1.2	2.4	
Benzo(a)pyrene	20.4	ug/L		1.2	2.4	
Indeno(1,2,3-Cd)Pyrene	19.4	ug/L		1.2	2.4	
Dibenzo(a,h)anthracene	6.25	ug/L		1.2	2.4	
Benzo(g,h,i)perylene	21.9	ug/L		1.2	2.4	
2-Methylnaphthalene		ug/L	<MDL	1.2	2.4	
d14-Terphenyl	5.73	ug/L		.8	1.6	
D6-Dimethyl Phthalate		ug/L	<MDL	.008	1.6	
D8-Acenaphthylene		ug/L	<MDL	.008	1.6	
D10-Fluorene		ug/L	<MDL	.008	1.6	
D10-Anthracene	.073	ug/L	<RDL	.008	1.6	
D10-Pyrene		ug/L	<MDL	.008	1.6	
D12-Benzo(a)pyrene	.5	ug/L	<RDL	.008	1.6	
Amount Analyzed	250	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						01-SEP-06
Operator ID						Dave Rada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39910-3 rp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	115		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	4	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	25		0-150

KCSlip4 58532

SEA424831

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39910-4	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R116181	Col. Date: 01-AUG-06		
	Locator: SPCC	Work Group: WG87302	Rec. Date: 01-AUG-06		
	Site: METRO	QC Type:	Due Date: 31-AUG-06		
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.77	1.54	
Acenaphthylene		ug/L	<MDL	.38	.769	
Dimethyl Phthalate		ug/L	<MDL	.38	.769	
Acenaphthene		ug/L	<MDL	.38	.769	
Fluorene		ug/L	<MDL	.38	.769	
Diethyl Phthalate		ug/L	<MDL	.58	1.15	
Phenanthrene	.53	ug/L	<RDL	.38	.769	
Anthracene		ug/L	<MDL	.38	.769	
Di-N-Butyl Phthalate	.48	ug/L	<RDL,B	.38	.769	
Fluoranthene	1.09	ug/L		.38	.769	
Pyrene	.954	ug/L		.38	.769	
Benzyl Butyl Phthalate	2.26	ug/L		.38	.769	
Benzo(a)anthracene		ug/L	<MDL	.38	.769	
Chrysene	.68	ug/L	<RDL	.38	.769	
Bis(2-Ethylhexyl)Phthalate	18	ug/L		.38	.769	
Di-N-Octyl Phthalate		ug/L	<MDL	.58	1.15	
Benzo(b)fluoranthene	.64	ug/L	<RDL	.58	1.15	
Benzo(k)fluoranthene		ug/L	<MDL	.58	1.15	
Benzo(a)pyrene		ug/L	<MDL	.58	1.15	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.58	1.15	
Dibenzo(a,h)anthracene		ug/L	<MDL	.58	1.15	
Benzo(g,h,i)perylene	.65	ug/L	<RDL	.58	1.15	
2-Methylnaphthalene		ug/L	<MDL	.58	1.15	
d14-Terphenyl	2.7	ug/L		.38	.769	
D6-Dimethyl Phthalate		ug/L	<MDL	.0038	.769	
D8-Acenaphthylene		ug/L	<MDL	.0038	.769	
D10-Fluorene		ug/L	<MDL	.0038	.769	
D10-Anthracene	.025	ug/L	<RDL	.0038	.769	
D10-Pyrene		ug/L	<MDL	.0038	.769	
D12-Benzo(a)pyrene	.19	ug/L	<RDL	.0038	.769	
Amount Analyzed	520	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						01-SEP-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39910-4.rp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	112		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	3	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	19		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39910-5	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R116181	Col. Date: 01-AUG-06
	Locator:	SPCC	Work Group:	WGB7302	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.8	1.6	
Acenaphthylene		ug/L	<MDL	.4	.8	
Dimethyl Phthalate		ug/L	<MDL	.4	.8	
Acenaphthene		ug/L	<MDL	.4	.8	
Fluorene		ug/L	<MDL	.4	.8	
Diethyl Phthalate		ug/L	<MDL	.6	1.2	
Phenanthrene	.47	ug/L	<RDL	.4	.8	
Anthracene		ug/L	<MDL	.4	.8	
Di-N-Butyl Phthalate	.44	ug/L	<RDL,B	.4	.8	
Fluoranthene	.828	ug/L		.4	.8	
Pyrene	.75	ug/L	<RDL	.4	.8	
Benzyl Butyl Phthalate	2.44	ug/L		.4	.8	
Benzo(a)anthracene		ug/L	<MDL	.4	.8	
Chrysene	.64	ug/L	<RDL	.4	.8	
Bis(2-Ethylhexyl)Phthalate	19.2	ug/L		.4	.8	
Di-N-Octyl Phthalate		ug/L	<MDL	.6	1.2	
Benzo(b)fluoranthene		ug/L	<MDL	.6	1.2	
Benzo(k)fluoranthene		ug/L	<MDL	.6	1.2	
Benzo(a)pyrene		ug/L	<MDL	.6	1.2	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.6	1.2	
Dibenzo(a,h)anthracene		ug/L	<MDL	.6	1.2	
Benzo(g,h,i)perylene		ug/L	<MDL	.6	1.2	
2-Methylnaphthalene		ug/L	<MDL	.6	1.2	
d14-Terphenyl	2.76	ug/L		.4	.8	
D6-Dimethyl Phthalate		ug/L	<MDL	.004	.8	
D8-Acenaphthylene		ug/L	<MDL	.004	.8	
D10-Fluorene		ug/L	<MDL	.004	.8	
D10-Anthracene	.026	ug/L	<RDL	.004	.8	
D10-Pyrene		ug/L	<MDL	.004	.8	
D12-Benzo(a)pyrene	.27	ug/L	<RDL	.004	.8	
Amount Analyzed	500	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file 8/gcms/L39910-5.rp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	110		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	3	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	27		0-150

KCSlip4 58534

SEA424833

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 09/18/06 09:39 - Data Source: ELD

Sample#: L39911-1	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R116181		Col. Date:	31-JUL-06
	Locator: CER	Work Group: WG87302		Rec. Date:	31-JUL-06
	Site: METRO	QC Type:		Due Date:	30-AUG-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	.074	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.018	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0452	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	.612	ug/L		.01	.02	
D6-Dimethyl Phthalate	.158	ug/L		.01	.02	
D8-Acenaphthylene	.0864	ug/L		.01	.02	
D10-Fluorene	.114	ug/L		.01	.02	
D10-Anthracene	.171	ug/L		.01	.02	
D10-Pyrene	.273	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						31-AUG-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39911-1.xp
Instrument ID						6890n.i
Prep Date						04-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	98	33-141
D6-Dimethyl Phthalate	63	0-150
D8-Acenaphthylene	35	0-150
D10-Fluorene	46	0-150
D10-Anthracene	68	0-150
D10-Pyrene	109	0-150
D12-Benzo(a)pyrene	96	0-150

KCSlip4 58535

SEA424834

Trace Organics Data Anomaly Form

Date(s) Occurred: *08-04-2006*

WG #(s): *87302*

☐ **All samples in WKGP(s) or Sample #(s):** *L39910-1,2,3,4,5*

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: *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: *(8) It has been determined that the Internal Standard spiking solution is contaminated with ~3-5 ppb on column of d10-Anthracene which is used as a surrogate compound. (15) Sample L39910-2 carboy contained no measurable rain water but the deposited particulates were damp.*

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
☐ Sample(s) reported "AS IS"
☐ Data qualified with the following flags:
☒ Other

Corrective Action Description: *(8) No corrective action taken. (15) 500ml of RO water was added to sample L39910-2 carboy and the sample was processed in the same manner as the other samples.*

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: *(8) The on column amounts for surrogate d10-Anthracene in samples L39910-1,2,3,4,5 were attributable to the contamination of d10-Anthracene found in the Internal Standard spiking solution. (15) Field surrogate d12-Benzo(a)pyrene was detected in all samples but L39910-2 which indicates the potential loss of target analytes.*

	Signatures	Signature Dates
Reported By: *Dave Fada*	Dave Fada	9-19-2006
Reviewer: *Mike Doubrava*	[illegible]	9/19/06
Supervisor: *Dana Walker*	Dana Walker	9/19/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

AIM
8/22/06
m

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Aug 12 2006, 05:54 am

Work Group: WG87348 (PHPAHWIPES) for Department: 7 - Organics, Trace

Created: 12-AUG-06 PrepDate: 12-AUG-06 Due: Operator: MCD

Sample	Project Number	Project Description	Prty	C	Product	Matrix	Stat	UA	Workdate	Duedate
L39910-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	15-AUG-06	31-AUG-06
L39910-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	15-AUG-06	31-AUG-06
L39910-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	15-AUG-06	31-AUG-06
L39910-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	15-AUG-06	31-AUG-06
L39910-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	15-AUG-06	31-AUG-06
L39911-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	14-AUG-06	30-AUG-06
WG87348-1	MB		S		PHPAHWIPE	OTHR SOLID	WKGP	U	12-AUG-06	

Comments:

L39910-10	wipes
L39910-6	wipes
L39910-7	wipes
L39910-8	wipes
L39910-9	wipes
L39911-2	wipe blank
WG87348-1	FILTER BLANK 12-AUG-06

KCSlip4 58538

SEA424837

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

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

EPA SW-846 EXTRACTION METHOD:

SONICATION EPA 3550 SOXHLET EPA 3540

WORKGROUP NO.:

BNA SURROGATE SPIKE I.D.#: SS#1276

BNA MATRIX SPIKE I.D.#:

Coprostanol:

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
8/12/06	WG87348-1		Filter BLANK		1g	50	.5		no	8/12/06	
no	L39910-6		FUNNEL WIPES								
	-7										
	-8										
	-9										
	-10										
	L39911-2		FUNNEL BLANK								

(1) Filter paper extracted $MeCl_2$ for cleaning

(2) Funnels wipe X2 with $MeCl_2$ soaked filter paper

(3) samples extracted X3 with 50mLs $MeCl_2$ sonic bath and K-D to 0.5mL for analysis.

KCSlip4 58539

SEA424838

A/M
8/22/06

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 08/16/06 07:36
Run ID: R115268 Workgroup: WG87348 (PHPAHWIPES)

MB:WG87348-1 Matrix: OTHR SOLID Listtype: ORPHPAHWIPE Method: 8270D-WIPETEST Project: 423589-090-1 Pkey: BTD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.01	.02	ug	<MDL	
Acenaphthylene	.005	.01	ug	<MDL	
Dimethyl Phthalate	.025	.05	ug	<MDL	
Acenaphthene	.005	.01	ug	<MDL	
Fluorene	.005	.01	ug	<MDL	
Diethyl Phthalate	.025	.05	ug	<MDL	
Phenanthrene	.005	.01	ug	<MDL	
Anthracene	.005	.01	ug	<MDL	
Di-N-Butyl Phthalate	.025	.05	ug	<MDL	
Fluoranthene	.005	.01	ug	<MDL	
Pyrene	.005	.01	ug	<MDL	
Benzyl Butyl Phthalate	.025	.05	ug	<MDL	
Benzo(a)anthracene	.005	.01	ug	<MDL	
Chrysene	.005	.01	ug	<MDL	
Bis(2-Ethylhexyl)Phthalate	.025	.05	ug	.108	#
Di-N-Octyl Phthalate	.025	.05	ug	<MDL	
Benzo(b)fluoranthene	.01	.02	ug	<MDL	
Benzo(k)fluoranthene	.01	.02	ug	<MDL	
Benzo(a)pyrene	.01	.02	ug	<MDL	
Indeno(1,2,3-Cd)Pyrene	.01	.02	ug	<MDL	
Dibenzo(a,h)anthracene	.01	.02	ug	<MDL	
Benzo(g,h,i)perylene	.01	.02	ug	<MDL	
2-Methylnaphthalene	.005	.01	ug	<MDL	

X3 = 0.324

KCSlip4 58540
SEA424839

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 08/16/06 07:36
Run ID: R115268 Workgroup: WG87348 (PHPAHWIPES)

Sample #	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	30-115	18-137
L39910-6	58	98
L39910-7	68	102
L39910-8	67	109
L39910-9	63	99
L39910-10	59	111
L39911-2	71	107
WG87348-1	52	110

KCSlip4 58541
SEA424840

Batch: \\orgizmo\EE\chem\6890j.i\060812.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	12-AUG-2006 05:19	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.284	58773	DFTPP.m		M.Doubrava
2	CCALI-01	12-AUG-2006 05:52	SDGa0282	SDGa02		SS#1263 D 6.00 PPM BNA STD	SOIL	0.000	1.0	8.493	764196	8270b1.m	07-AUG-2006	M.Doubrava
3	CEDC-01	12-AUG-2006 06:37	SDGa0962	SDGa09		SS#1190 B 10.0 PPM EDC STD	WATER	0.000	1.0	8.473	1093198	8270BEDC.m	15-DEC-2005	M.Doubrava
4	BLANK-02	12-AUG-2006 07:12	SDGa0282	SDGa02		MECL2	SOIL	0.000	1.0	0.000	0	8270B1.m	07-AUG-2006	M.Doubrava
5	WG87348-1	12-AUG-2006 08:50	WG87348	WIPE		WG87348-1 FILTER BLANK	SOIL	1.000	0.5	8.493	814361	8270b1.m	07-AUG-2006	M.Doubrava
6	L39911-2	12-AUG-2006 09:35	WG87348	WIPE		L39911-2 FUNNEL BLANK	SOIL	1.000	0.5	8.493	868048	8270b1.m	07-AUG-2006	M.Doubrava
7	L39910-6	12-AUG-2006 10:21	WG87348	WIPE		L39910-6 FUNNEL WIPE	SOIL	1.000	0.5	8.493	699891	8270b1.m	07-AUG-2006	M.Doubrava
8	L39910-7	12-AUG-2006 11:07	WG87348	WIPE		L39910-7 FUNNEL WIPE	SOIL	1.000	0.5	8.493	858678	8270b1.m	07-AUG-2006	M.Doubrava
9	L39910-8	12-AUG-2006 11:54	WG87348	WIPE		L39910-8 FUNNEL WIPE	SOIL	1.000	0.5	8.493	810854	8270b1.m	07-AUG-2006	M.Doubrava
10	L39910-9	12-AUG-2006 12:40	WG87348	WIPE		L39910-9 FUNNEL WIPE	SOIL	1.000	0.5	8.493	706318	8270b1.m	07-AUG-2006	M.Doubrava
11	L39910-10	12-AUG-2006 13:28	WG87348	WIPE		L39910-10 FUNNEL WIPE	SOIL	1.000	0.5	8.493	441302	8270b1.m	07-AUG-2006	M.Doubrava
12	BIOTEST-01	12-AUG-2006 14:15	SDGa0282	SDGa02		BIOSOLIDS TEST-01	SOIL	15.000	1.0	8.493	783413	8270bEDC.m	15-DEC-2005	M.Doubrava
13	BIOTEST-02	12-AUG-2006 15:02	SDGa0282	SDGa02		BIOSOLIDS TEST-02	SOIL	15.000	1.0	8.493	376254	8270bEDC.m	15-DEC-2005	M.Doubrava
14	BIOTEST-03	12-AUG-2006 15:50	SDGa0282	SDGa02		BIOSOLIDS TEST-03	SOIL	15.000	1.0	8.493	920325	8270bEDC.m	15-DEC-2005	M.Doubrava
15	BIOTEST-04	12-AUG-2006 16:37	SDGa0282	SDGa02		BIOSOLIDS TEST-04	SOIL	15.000	1.0	8.493	578063	8270bEDC.m	15-DEC-2005	M.Doubrava
16	BIOTEST-05	12-AUG-2006 17:24	SDGa0282	SDGa02		BIOSOLIDS TEST-05	SOIL	15.000	1.0	8.493	645167	8270bEDC.m	15-DEC-2005	M.Doubrava
17	BIOTEST-06	12-AUG-2006 18:11	SDGa0282	SDGa02		BIOSOLIDS TEST-06	SOIL	15.000	1.0	8.493	388888	8270bEDC.m	15-DEC-2005	M.Doubrava
18	BIOTEST-07	12-AUG-2006 18:59	SDGa0282	SDGa02		BIOSOLIDS TEST-07	SOIL	15.000	1.0	8.493	632011	8270bEDC.m	15-DEC-2005	M.Doubrava
19	BIOTEST-08	12-AUG-2006 19:46	SDGa0282	SDGa02		BIOSOLIDS TEST-08	SOIL	15.000	1.0	8.493	469543	8270bEDC.m	15-DEC-2005	M.Doubrava
20	BIOTEST-09	12-AUG-2006 20:33	SDGa0282	SDGa02		BIOSOLIDS TEST-09	SOIL	15.000	1.0	8.493	886388	8270bEDC.m	15-DEC-2005	M.Doubrava
21	BIOTEST-10	12-AUG-2006 21:20	SDGa0282	SDGa02		BIOSOLIDS TEST-10	SOIL	15.000	1.0	8.493	628563	8270bEDC.m	15-DEC-2005	M.Doubrava
22	BIOTEST-11	12-AUG-2006 22:07	SDGa0282	SDGa02		BIOSOLIDS TEST-11	SOIL	15.000	1.0	8.493	882871	8270bEDC.m	15-DEC-2005	M.Doubrava
23	BIOTEST-12	12-AUG-2006 22:54	SDGa0282	SDGa02		BIOSOLIDS TEST-12	SOIL	15.000	1.0	8.493	514902	8270bEDC.m	15-DEC-2005	M.Doubrava
24	BIOTEST-13	12-AUG-2006 23:40	SDGa0282	SDGa02		BIOSOLIDS TEST-13	SOIL	15.000	1.0	8.493	771297	8270bEDC.m	15-DEC-2005	M.Doubrava
25	BIOTEST-14	13-AUG-2006 00:26	SDGa0282	SDGa02		BIOSOLIDS TEST-14	SOIL	15.000	1.0	8.493	707507	8270bEDC.m	15-DEC-2005	M.Doubrava
26	BIOTEST-15	13-AUG-2006 01:11	SDGa0282	SDGa02		BIOSOLIDS TEST-15	SOIL	15.000	1.0	8.493	670602	8270bEDC.m	15-DEC-2005	M.Doubrava
27	BIOTEST-16	13-AUG-2006 01:57	SDGa0282	SDGa02		BIOSOLIDS TEST-16	SOIL	15.000	1.0	8.493	574665	8270bEDC.m	15-DEC-2005	M.Doubrava
28	BIOTEST-17	13-AUG-2006 02:42	SDGa0282	SDGa02		BIOSOLIDS TEST-17	SOIL	15.000	1.0	8.493	427723	8270bEDC.m	15-DEC-2005	M.Doubrava
29	BIOTEST-18	13-AUG-2006 03:27	SDGa0282	SDGa02		BIOSOLIDS TEST-18	SOIL	15.000	1.0	8.493	594574	8270bEDC.m	15-DEC-2005	M.Doubrava
30	BIOTEST-19	13-AUG-2006 04:13	SDGa0282	SDGa02		BIOSOLIDS TEST-19	SOIL	15.000	1.0	8.493	598457	8270bEDC.m	15-DEC-2005	M.Doubrava
31	BIOTEST-20	13-AUG-2006 04:58	SDGa0282	SDGa02		BIOSOLIDS TEST-20	SOIL	15.000	1.0	8.493	515917	8270bEDC.m	15-DEC-2005	M.Doubrava
32	BIOTEST-21	13-AUG-2006 05:43	SDGa0282	SDGa02		BIOSOLIDS TEST-21	SOIL	15.000	1.0	8.493	387059	8270bEDC.m	15-DEC-2005	M.Doubrava
33	BIOTEST-22	13-AUG-2006 06:29	SDGa0282	SDGa02		BIOSOLIDS TEST-22	SOIL	15.000	1.0	8.493	387461	8270bEDC.m	15-DEC-2005	M.Doubrava
34	BIOTEST-23	13-AUG-2006 07:14	SDGa0282	SDGa02		BIOSOLIDS TEST-23	SOIL	15.000	1.0	8.493	580370	8270bEDC.m	15-DEC-2005	M.Doubrava
35	BIOTEST-24	13-AUG-2006 07:59	SDGa0282	SDGa02		BIOSOLIDS TEST-24	SOIL	15.000	1.0	8.493	525105	8270bEDC.m	15-DEC-2005	M.Doubrava
36	BIOTEST-25	14-AUG-2006 07:28	SDGa0282	SDGa02		BIOSOLIDS TEST-25	SOIL	15.000	1.0	8.493	391162	8270bEDC.m	15-DEC-2005	M.Doubrava
37	BIOTEST-26	14-AUG-2006 08:14	SDGa0282	SDGa02		BIOSOLIDS TEST-26	SOIL	15.000	1.0	8.493	531511	8270bEDC.m	15-DEC-2005	M.Doubrava
38	BIOTEST-27	14-AUG-2006 08:59	SDGa0282	SDGa02		BIOSOLIDS TEST-27	SOIL	15.000	1.0	8.493	545768	8270bEDC.m	15-DEC-2005	M.Doubrava
39	BIOTEST-28	14-AUG-2006 09:46	SDGa0282	SDGa02		BIOSOLIDS TEST-28	SOIL	15.000	1.0	8.493	593014	8270bEDC.m	15-DEC-2005	M.Doubrava
40	BIOTEST-29	14-AUG-2006 10:33	SDGa0282	SDGa02		BIOSOLIDS TEST-29	SOIL	15.000	1.0	8.493	451304	8270bEDC.m	15-DEC-2005	M.Doubrava
41	BIOTEST-30	14-AUG-2006 11:20	SDGa0282	SDGa02		BIOSOLIDS TEST-30	SOIL	15.000	1.0	8.493	353232	8270bEDC.m	15-DEC-2005	M.Doubrava
42	BIOTEST-31	14-AUG-2006 12:07	SDGa0282	SDGa02		BIOSOLIDS TEST-31	SOIL	15.000	1.0	8.493	422942	8270bEDC.m	15-DEC-2005	M.Doubrava
43	BIOTEST-32	14-AUG-2006 12:54	SDGa0282	SDGa02		BIOSOLIDS TEST-32	SOIL	15.000	1.0	8.493	658266	8270bEDC.m	15-DEC-2005	M.Doubrava
44	BIOTEST-33	14-AUG-2006 13:41	SDGa0282	SDGa02		BIOSOLIDS TEST-33	SOIL	15.000	1.0	8.484	368627	8270bEDC.m	15-DEC-2005	M.Doubrava
45	BIOTEST-34	14-AUG-2006 14:29	SDGa0282	SDGa02		BIOSOLIDS TEST-34	SOIL	15.000	1.0	8.484	370688	8270bEDC.m	15-DEC-2005	M.Doubrava
46	BIOTEST-35	14-AUG-2006 15:16	SDGa0282	SDGa02		BIOSOLIDS TEST-35	SOIL	15.000	1.0	8.484	379420	8270bEDC.m	15-DEC-2005	M.Doubrava
47	BIOTEST-36	14-AUG-2006 16:04	SDGa0282	SDGa02		BIOSOLIDS TEST-36	SOIL	15.000	1.0	8.493	275739	8270bEDC.m	15-DEC-2005	M.Doubrava

Samples: 41 QC Samples + Misc.: 3 ContinuingCals: 2 Tunes: 1 Calibrations: 0

KCSlip4 58542

SEA424841

Trace Organics Data Anomaly Form

Date(s) Occurred: *06/87/12*

WG #(s): *WG87348*

☒ 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 Bis(2EH) Phthalate. For this project, "B" flag values are set at X 3 blank values. Sample were flagged according to this criteria.

IV. Type of Project Anomaly

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

Anomaly Description:

V. Corrective Action Taken

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

Corrective Action Description:

VI. Potential Effects on Data Quality

Based upon the expected performance of this method:

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

Explanation:

	Signatures	Signature Dates
Reported By: *M. Doubrava*		8/16/06
Reviewer:		
Supervisor: *Dana Walker*	Dana Walker	8/21/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM: *F. Grothkopp*		

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: WG87348-1	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:		Run ID:	R115268	Col. Date:
	Locator:	MB	Work Group:	WG87348	Rec. Date: 12-AUG-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate		ug	<MDL	.025	.05	
Phenanthrene		ug	<MDL	.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate		ug	<MDL	.025	.05	
Fluoranthene		ug	<MDL	.005	.01	
Pyrene		ug	<MDL	.005	.01	
Benzyl Butyl Phthalate		ug	<MDL	.025	.05	
Benzo(a)anthracene		ug	<MDL	.005	.01	
Chrysene		ug	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.108	ug	B	.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene		ug	<MDL	.01	.02	
Benzo(k)fluoranthene		ug	<MDL	.01	.02	
Benzo(a)pyrene		ug	<MDL	.01	.02	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene		ug	<MDL	.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2 Fluorobiphenyl	.652	ug		.01	.02	
d14-Terphenyl	1.37	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG87348-1.rp
Instrument ID						68907 1
Prep Date						12-AUG-06
SURROGATE RECOVERY INFORMATION	.					

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	52	30-115
d14-Terphenyl	110	18-137

KCSlip4 58545

SEA424844

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39910-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 01-AUG-06
	Locator:	CER	Work Group:	WG87348	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate	.032	ug	<RDL	.025	.05	
Phenanthrene	.0275	ug		.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate	.201	ug		.025	.05	
Fluoranthene	.0217	ug		.005	.01	
Pyrene	.017	ug		.005	.01	
Benzyl Butyl Phthalate	.189	ug		.025	.05	
Benzo(a)anthracene	.0101	ug		.005	.01	
Chrysene	.0109	ug		.005	.01	
Bis(2-Ethylhexyl)Phthalate	.566	ug		.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene		ug	<MDL	.01	.02	
Benzo(k)fluoranthene		ug	<MDL	.01	.02	
Benzo(a)pyrene		ug	<MDL	.01	.02	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene	.012	ug	<RDL	.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.723	ug		.01	.02	
d14-Terphenyl	1.22	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39910-6.rp
Instrument ID						6890j.1
Prep Date						12-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	58	30-115
d14-Terphenyl	98	18-137

KCSlip4 58546

SEA424845

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39910-7	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 01-AUG-06
	Locator:	DZ	Work Group:	WG87348	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate	.028	ug	<RDL	.025	.05	
Phenanthrene	.045	ug		.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate	.131	ug		.025	.05	
Fluoranthene	.0691	ug		.005	.01	
Pyrene	.0583	ug		.005	.01	
Benzyl Butyl Phthalate	.216	ug		.025	.05	
Benzo(a)anthracene	.0197	ug		.005	.01	
Chrysene	.0433	ug		.005	.01	
Bis(2-Ethylhexyl)Phthalate	.948	ug		.025	.05	
Di-N-Octyl Phthalate	.806	ug		.025	.05	
Benzo(b)fluoranthene	.0392	ug		.01	.02	
Benzo(k)fluoranthene	.0342	ug		.01	.02	
Benzo(a)pyrene	.0307	ug		.01	.02	
Indeno(1,2,3-Cd)Pyrene	.0236	ug		.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene	.0402	ug		.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.854	ug		.01	.02	
d14-Terphenyl	1.28	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/geed2/METRO93/files/gcms/L39910-7.rp
Instrument ID						6890j 1
Prep Date						12 AUG 06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	68	30-115
d14-Terphenyl	102	18-137

KCSlip4 58547

SEA424846

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39910-8	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 01-AUG-06
	Locator:	KCIA	Work Group:	WG87348	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.014	ug	<RDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate		ug	<MDL	.025	.05	
Phenanthrene	.209	ug		.005	.01	
Anthracene	.017	ug		.005	.01	
Di-N-Butyl Phthalate	.126	ug		.025	.05	
Fluoranthene	.557	ug		.005	.01	
Pyrene	.391	ug		.005	.01	
Benzyl Butyl Phthalate	.225	ug		.025	.05	
Benzo(a)anthracene	.11	ug		.005	.01	
Chrysene	.304	ug		.005	.01	
Bis(2-Ethylhexyl)Phthalate	.623	ug		.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene	.33	ug		.01	.02	
Benzo(k)fluoranthene	.276	ug		.01	.02	
Benzo(a)pyrene	.224	ug		.01	.02	
Indeno(1,2,3-Cd)Pyrene	.202	ug		.01	.02	
Dibenzo(a,h)anthracene	.0485	ug		.01	.02	
Benzo(g,h,i)perylene	.225	ug		.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.842	ug		.01	.02	
d14-Terphenyl	1.36	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						N.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L39910-8.rp
Instrument ID						6890j.i
Prep Date						12-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	67	30-115
d14-Terphenyl	109	18-137

KCSlip4 58548

SEA424847

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39910-9	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 01-AUG-06
	Locator:	SPCC	Work Group:	WG87348	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate	.029	ug	<RDL	.025	.05	
Phenanthrene	.0194	ug		.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate	.0845	ug		.025	.05	
Fluoranthene	.0168	ug		.005	.01	
Pyrene	.0125	ug		.005	.01	
Benzyl Butyl Phthalate	.145	ug		.025	.05	
Benzo(a)anthracene		ug	<MDL	.005	.01	
Chrysene		ug	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.566	ug		.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene		ug	<MDL	.01	.02	
Benzo(k)fluoranthene		ug	<MDL	.01	.02	
Benzo(a)pyrene		ug	<MDL	.01	.02	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene		ug	<MDL	.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.789	ug		.01	.02	
d14-Terphenyl	1.23	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39910-9.rp
Instrument ID						6890j.i
Prep Date						12-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	63	30-115
d14-Terphenyl	99	18-137

KCSlip4 58549

SEA424848

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39910-10	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 01-AUG-06
	Locator:	SPCC	Work Group:	WG87348	Rec. Date: 01-AUG-06
	Site:	METRO	QC Type:		Due Date: 31-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate		ug	<MDL	.025	.05	
Phenanthrene	.0167	ug		.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate	.0969	ug		.025	.05	
Fluoranthene	.013	ug		.005	.01	
Pyrene	.0088	ug	<RDL	.005	.01	
Benzyl Butyl Phthalate	.162	ug		.025	.05	
Benzo(a)anthracene		ug	<MDL	.005	.01	
Chrysene		ug	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.591	ug		.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene		ug	<MDL	.01	.02	
Benzo(k)fluoranthene		ug	<MDL	.01	.02	
Benzo(a)pyrene		ug	<MDL	.01	.02	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene		ug	<MDL	.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.743	ug		.01	.02	
d14-Terphenyl	1.38	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39910-10.rp
Instrument ID						6890j.i
Prep Date						12-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	59	30-115
d14-Terphenyl	111	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 08/22/06 06:55 - Data Source: ELD

Sample#: L39911-2	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R115268	Col. Date: 31-JUL-06
	Locator:	CER	Work Group:	WG87348	Rec. Date: 31-JUL-06
	Site:	METRO	QC Type:		Due Date: 30-AUG-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.01	.02	
Acenaphthylene		ug	<MDL	.005	.01	
Dimethyl Phthalate		ug	<MDL	.025	.05	
Acenaphthene		ug	<MDL	.005	.01	
Fluorene		ug	<MDL	.005	.01	
Diethyl Phthalate		ug	<MDL	.025	.05	
Phenanthrene	.0081	ug	<RDL	.005	.01	
Anthracene		ug	<MDL	.005	.01	
Di-N-Butyl Phthalate	.0901	ug		.025	.05	
Fluoranthene		ug	<MDL	.005	.01	
Pyrene		ug	<MDL	.005	.01	
Benzyl Butyl Phthalate	.121	ug		.025	.05	
Benzo(a)anthracene		ug	<MDL	.005	.01	
Chrysene		ug	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.192	ug	B	.025	.05	
Di-N-Octyl Phthalate		ug	<MDL	.025	.05	
Benzo(b)fluoranthene		ug	<MDL	.01	.02	
Benzo(k)fluoranthene		ug	<MDL	.01	.02	
Benzo(a)pyrene		ug	<MDL	.01	.02	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.01	.02	
Dibenzo(a,h)anthracene		ug	<MDL	.01	.02	
Benzo(g,h,i)perylene		ug	<MDL	.01	.02	
2-Methylnaphthalene		ug	<MDL	.005	.01	
2-Fluorobiphenyl	.883	ug		.01	.02	
d14-Terphenyl	1.34	ug		.01	.02	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	.5	none				
Date Analyzed						12-AUG-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L39911-2.rp
Instrument ID						6890j_1
Prep Date						12-AUG-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	71	30-115
d14-Terphenyl	107	18-137

KCSlip4 58551

SEA424850

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Oct 23 2006, 10:10 am

Work Group: WG88422 (BL#670 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 06-OCT-06 PrepDate: 04-OCT-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L40468-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	12-OCT-06	28-OCT-06
L40468-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	12-OCT-06	28-OCT-06
L40468-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	12-OCT-06	28-OCT-06
L40468-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	12-OCT-06	28-OCT-06
L40468-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	12-OCT-06	28-OCT-06
L40479-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	BLANK WTR	PREP	U	11-OCT-06	27-OCT-06
WG88422-1	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	
WG88422-2	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	
WG88422-3	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	
WG88422-4	SBD			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	
WG88422-5	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	
WG88422-6	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	06-OCT-06	

Comments:

L40468-1	carboys
L40468-2	carboys
L40468-3	carboys
L40468-4	carboys
L40468-5	carboys
L40479-1	blank water
WG88422-1	WG88422-2
WG88422-2	MB061004 4L
WG88422-3	MB061004 2L
WG88422-4	WG88422-1 WG88422-5
WG88422-5	MB061005 4L
WG88422-6	MB061006 2L

KCSlip4 58552

SEA424851

Trace Organics Data Anomaly Form

Date(s) Occurred: *10-05-2006, 10-20-2006*

WG #(s): *88422, 88423*

☐ **All samples in WKGP(s) or Sample #(s):** *WG88422-2, L40468-(1, 4, 5)*

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, PCBLL*
☐ 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) For the method blank sample, WG88422-2, observed surrogate recoveries were approximately double that observed for all other QC samples, including other method blanks. The observed surrogate recoveries were also approximately double the historical surrogate recoveries for all QC samples.*

Anomaly Description:

V. Corrective Action Taken

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

Corrective Action Description: *(1) The method blank sample WG88422-2 was most likely double spiked. Although the analyst did not note on the bench sheet a potential problem with double-spiking the sample, double-spiking of the surrogate is the most likely explanation (especially in consideration of the fact that the surrogate recoveries for both analyses - PCBLL and PHPAHSOURCE - were doubled). The surrogate spike amounts will be adjusted to double those noted on the bench sheet. No significant impact on the data is anticipated, particularly since surrogate recoveries for all other method blanks in the workgroup had surrogate recoveries in the normal range.*

*(2) For sample L40468-1, the total volume for sample was measured at 3700 ml. Following the disard of 500 ml after clogging, the effective volume was 3200 ml. The adjustment factor to determine effective surrogate levels for the DMC surrogates, PCB field and in-house surrogates and BNA-LVI surrogates, is then (3200/3700) * 100% = 86.5%. The surrogate levels for sample L40468-1 were adjusted accordingly prior to calculation of surrogate recoveries. No significant impact on data is anticipated.*

(3) For sample L40468-1, a significant portion of the sample split for PHPAHSOURCE analysis was spilled during preparation of dilutions. Estimated loss was 50% of the PHPAHSOURCE fraction. The sample concentrate was homogeneous at time of spillage and sufficient volume remained to prepare 1:10 dilution. Based on sample appearance and previous experience with similar samples, only the 1:10 dilution is likely to be analyzed so no significant impact on data is expected.

(4) For sample L40468-5, observed surrogate recoveries were consistent with those observed for other samples in the same workgroup. No significant quantitative impact on data is anticipated for sample L40468-5.

(5) Quantitative impact of observed differences between samples L40468-4 and L40468-5 is unknown.

(6) Documentation only. No quantitative impact on data.

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:

A/m
12/4/06

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/27/06 11:52
Run ID: R117428 Workgroup: WG88422 (BL#670 PHPAHSOURCE)

SBD:WG88422-4 SB:WG88422-1 MB:WG88422-2 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	.005	.01	ug/L	<MDL	0.125	.0504	40		10-150	0.125	.047	38		10-150	5		100
Dimethyl Phthalate	.005	.01	ug/L	<MDL	0.125	.0331	26		10-150	0.125	.0318	25		10-150	4		100
Fluorene	.005	.01	ug/L	<MDL	0.125	.0614	49		10-150	0.125	.0563	45		10-150	9		100
Diethyl Phthalate	.0075	.015	ug/L	<MDL	0.125	.0541	43		10-150	0.125	.0539	43		10-150	0		100
Phenanthrene	.005	.01	ug/L	<MDL	0.125	.0907	73		10-150	0.125	.0948	76		10-150	4		100
Anthracene	.005	.01	ug/L	<MDL	0.125	.0796	64		10-150	0.125	.0844	68		10-150	6		100
Di-N-Butyl Phthalate	.005	.01	ug/L	.0131	0.125	.139	101		10-150	0.125	.145	98		10-150	3		100
Pyrene	.005	.01	ug/L	<MDL	0.125	.131	105		10-150	0.125	.136	109		10-150	4		100
Benzyl Butyl Phthalate	.005	.01	ug/L	.0075	0.125	.163	125		10-150	0.125	.17	126		10-150	1		100
Benzo(a)anthracene	.005	.01	ug/L	<MDL	0.125	.127	102		10-150	0.125	.128	103		10-150	1		100
Chrysene	.005	.01	ug/L	<MDL	0.125	.125	100		10-150	0.125	.127	102		10-150	2		100
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0378	0.125	.16	98		10-150	0.125	.162	89		10-150	10		100
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	0.125	.119	95		10-150	0.125	.12	96		10-150	1		100
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	0.125	.121	97		10-150	0.125	.117	94		10-150	3		100
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	0.125	.105	84		10-150	0.125	.108	86		10-150	2		100
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	0.125	.0897	72		10-150	0.125	.0872	70		10-150	3		100
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	0.125	.0909	73		10-150	0.125	.088	70		10-150	4		100
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	0.125	.0864	69		10-150	0.125	.083	66		10-150	4		100

MB:WG88422-2 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.01	.02	ug/L	<MDL	
Acenaphthylene	.005	.01	ug/L	<MDL	
Dimethyl Phthalate	.005	.01	ug/L	<MDL	
Acenaphthene	.005	.01	ug/L	<MDL	
Fluorene	.005	.01	ug/L	<MDL	
Diethyl Phthalate	.0075	.015	ug/L	<MDL	
Phenanthrene	.005	.01	ug/L	<MDL	
Anthracene	.005	.01	ug/L	<MDL	
Di-N-Butyl Phthalate	.005	.01	ug/L	.0131	B
Fluoranthene	.005	.01	ug/L	<MDL	
Pyrene	.005	.01	ug/L	<MDL	
Benzyl Butyl Phthalate	.005	.01	ug/L	.0075	B
Benzo(a)anthracene	.005	.01	ug/L	<MDL	
Chrysene	.005	.01	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0378	B
Di-N-Octyl Phthalate	.0075	.015	ug/L	<MDL	
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	
2-Methylnaphthalene	.0075	.015	ug/L	<MDL	

KCSlip4 58555
SEA424854

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/27/06 11:52
Run ID: R117428 Workgroup: WG88422 (BL#670 PHPAHSOURCE)

MB:WG88422-3 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.01	.02	ug/L	<MDL	
Acenaphthylene	.005	.01	ug/L	<MDL	
Dimethyl Phthalate	.005	.01	ug/L	<MDL	
Acenaphthene	.005	.01	ug/L	<MDL	
Fluorene	.005	.01	ug/L	<MDL	
Diethyl Phthalate	.0075	.015	ug/L	<MDL	
Phenanthrene	.005	.01	ug/L	<MDL	
Anthracene	.005	.01	ug/L	<MDL	
Di-N-Butyl Phthalate	.005	.01	ug/L	.0261	B
Fluoranthene	.005	.01	ug/L	<MDL	
Pyrene	.005	.01	ug/L	<MDL	
Benzyl Butyl Phthalate	.005	.01	ug/L	.017	B
Benzo(a)anthracene	.005	.01	ug/L	<MDL	
Chrysene	.005	.01	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0592	B
Di-N-Octyl Phthalate	.0075	.015	ug/L	<MDL	
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	
2-Methylnaphthalene	.0075	.015	ug/L	<MDL	

MB:WG88422-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.01	.02	ug/L	<MDL	
Acenaphthylene	.005	.01	ug/L	<MDL	
Dimethyl Phthalate	.005	.01	ug/L	<MDL	
Acenaphthene	.005	.01	ug/L	<MDL	
Fluorene	.005	.01	ug/L	<MDL	
Diethyl Phthalate	.0075	.015	ug/L	<MDL	
Phenanthrene	.005	.01	ug/L	<MDL	
Anthracene	.005	.01	ug/L	<MDL	
Di-N-Butyl Phthalate	.005	.01	ug/L	.0223	B
Fluoranthene	.005	.01	ug/L	<MDL	
Pyrene	.005	.01	ug/L	<MDL	
Benzyl Butyl Phthalate	.005	.01	ug/L	.0129	B
Benzo(a)anthracene	.005	.01	ug/L	<MDL	
Chrysene	.005	.01	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0505	B
Di-N-Octyl Phthalate	.0075	.015	ug/L	<MDL	
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	

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MB:WG88422-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
2-Methylnaphthalene	.0075	.015	ug/L	<MDL	

MB:WG88422-6 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.01	.02	ug/L	<MDL	
Acenaphthylene	.005	.01	ug/L	<MDL	
Dimethyl Phthalate	.005	.01	ug/L	<MDL	
Acenaphthene	.005	.01	ug/L	<MDL	
Fluorene	.005	.01	ug/L	<MDL	
Diethyl Phthalate	.0075	.015	ug/L	<MDL	
Phenanthrene	.005	.01	ug/L	<MDL	
Anthracene	.005	.01	ug/L	<MDL	
Di-N-Butyl Phthalate	.005	.01	ug/L	.0266	B
Fluoranthene	.005	.01	ug/L	<MDL	
Pyrene	.005	.01	ug/L	<MDL	
Benzyl Butyl Phthalate	.005	.01	ug/L	.016	B
Benzo(a)anthracene	.005	.01	ug/L	<MDL	
Chrysene	.005	.01	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0467	B
Di-N-Octyl Phthalate	.0075	.015	ug/L	<MDL	
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	
2-Methylnaphthalene	.0075	.015	ug/L	<MDL	

KCSlip4 58557
SEA424856

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/27/06 11:52
Run ID: R117428 Workgroup: WG88422 (BL#670 PHPAHSOURCE)

Sample #	d14-Terphenyl	D6-Dimethyl Phtha-late	D8-Acenaphthylene	D10-Fluorene	D10-Anthracene	D10-Pyrene	D12-Benzo(a)pyrene
(Lab Limits)	33-141	0-150	0-150	0-150	0-150	0-150	0-150
L40468-1	105	0 *	0 *	0 *	0 *	0 *	0 *
L40468-2	116	0 *	0 *	0 *	0 *	0 *	0 *
L40468-3	108	0 *	0 *	0 *	0 *	0 *	0 *
L40468-4	114	0 *	0 *	0 *	0 *	0 *	51
L40468-5	113	0 *	0 *	0 *	0 *	0 *	0 *
L40479-1	93	59	84	53	98	99	114
WG88422-1	93	29	52	36	74	96	99
WG88422-2	94	30	69	48	82	97	108
WG88422-3	94	56	70	47	90	99	114
WG88422-4	96	28	50	35	78	98	104
WG88422-5	101	36	55	41	90	104	118
WG88422-6	98	40	51	36	75	100	111

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If the following parameters are reported, values in the RPD column are their Absolute Differences:

pH
pH, Field
Salinity
Salinity, Field
Sample Depth
Sample Temperature, Field

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SEA424857

Acetone Lot #064335

$MeCl_2$ Lot #332

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS

TRACE ORGANICS LABORATORY

1106 MeCL2 Lot # ~~670~~ PH PAH SOURCE / PCBLL vs SPE

QC BATCH NO.: BL # 670

EPA SW-846 EXTRACTION METHOD:

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

(PH PAH SOURCE = WG88422 PCB Field Surr = 1217

WORKGROUP NO: PCBLL = WG88423) PCB House Surr = 1216

BNA SURROGATE SPIKE: 1315 + 1205 (DUCs)

BNA MATRIX SPIKE: 1246 PCB MS LL = 1261

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 10/04/06	WG88422-1 WG88423-1	QC	SB	6	4000	1205-25 1315-100 1216-100 1217-100 1261-100 1246-50	1.0	JG	10/23/06	20 ml MeOH SPE Lot B40417	11.8
	WG88422-2 WG88423-2	QC	MB	6	4000	1205-25 1315-100 1216-100 1217-100	1.0	JG	JG 10/23/06	20 ml MeOH SPE Lot B40417	14.9*
	WG88422-3 WG88423-3	QC	MB	6	2000		1.0	JG	10/23/06	10 ml MeOH SPE Lot B40417	6.0
	L40479-1	423589-090-001	BLOR-BK-092706-092706	6	2000		1.0	JG	10/23/06	10 ml MeOH SPE Lot B40417	—
	L40468-2		CER-01-080106-092806	6	2770	1205-25 1315-100 1216-100	1.0	JG	10/23/06	* 15 ml MeOH * JG 10/04/06 * Std 1205 spiked pre-deployment	10.8
06/06	L40468-1		DZ-01-080106-092806	6	3200 ~~3700~~	1205-25 1315-100 1216-100	1.0	JG	10/23/06	* 500 ml sample discarded after spiking * Std 1205 spiked pre-deployment	37.6
										Samples L40468-(1,2) processed with SPE Lot B40417	
										L40468-1 20 ml MeOH	
JG 10/05/06	WG88422-4 WG88423-4	QC	SB	6	4000	1205-25 1315-100 1216-100 1217-100 1261-100 1246-50	1.0	JG	10/23/06	20 ml MeOH SPE Lot ~~40417~~ B40417 (JG 10/06/06)	12.8
	WG88422-5 WG88423-5	QC	MB	6	4000	1205-25 1315-100 1216-100 1217-100	1.0	JG	10/23/06	20 ml MeOH SPE Lot B40417	18.9
	L40468-4	423589-090-001	SPCC-01-080106-092806	6	2990	1205-25 1315-100 1216-100	1.0	JG	10/23/06	15 ml MeOH SPE Lot B40417 * Std 1205 spiked pre-deployment	13.9
	L40468-3		KCTA-01-080106-092806	6	3100		1.0	JG	10/23/06	15 ml MeOH SPE Lot B40417 * Std 1205 spiked pre-deployment	13.3
	L40468-5		SPCC-02-080106-092806	8	1650		1.0	JG	10/23/06	15 ml MeOH to total sample (3080 ml) * Std 1205 spiked pre-deployment	50.0
										Total vol for L40468-5 = 3080 ml SPE Lot B40417 for vol = 1650 ml fraction.	
JG 10/06/06	L40468-5	423589-090-001	SPCC-02-080106-092806	6	1430	1205-25 1315-100 1216-100 *	1.0*	JG	10/23/06	Initial pH = 8. pH adjusted to 6 via ~1.0 ml conc. HCl. See total F	17.1
	WG88422-6 WG88423-6	QC	MB	6	2000	1205-25 1315-100 1216-100 1217-100	1.0	JG	10/23/06	volume listed above (3080 ml) * 10 ml MeOH SPE Lot C03K14	8.7

* Sample L40468-5 vol = 1430 ml fraction processed with SPE Lot C03K14

KCSlip4 58559

SEA424858

6890n DILUTION LOG

ing County Environmental Laboratory

Date & Initials	Sample Name/ Sample Number	Extract Vol Used (ml)	Final Vol	Dil Fac	IS #	Additional IS (ul)	Total IS (ul)
10-31-06 D7	L40468-1	0.1 ml	1.0 ml	10X	SS#969 x 200	20 µl	20 µl
10-31-06 D7	L40468-2	0.1 ml	1.0 ml	10X	SS#969 x 200	20 µl	20 µl
10-31-06 D7	L40468-3	0.1 ml	1.0 ml	10X	SS#969 x 200	20 µl	20 µl
10-31-06 D7	L40468-4	0.1 ml	1.0 µl	10X	SS#969 x 200	20 µl	20 µl
10-31-06 D7	L40468-5	0.1 ml	1.0 µl	10X	SS#969 x 200	20 µl	20 µl

6890n MAINTENANCE LOG

ing County Environmental Laboratory

Date & Initials	Maintenance Description

KCSlip4 58560

SEA424859

Batch: \\Orgizmo\EE\chem\6890n.i\061102.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-NOV-2006 06:12	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.695	373626	PHPAH.m	27-OCT-2006	Dave Fada
2	DFTPP-1	02-NOV-2006 06:53	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.743	161536	LVI_DFTP.m		Dave Fada
3	CCALI-1	02-NOV-2006 07:34	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.695	374095	PHPAH.m	27-OCT-2006	Dave Fada
4	WG88422-3	02-NOV-2006 10:08	WG88422	BL#670	423589-09	Method Blank (10-04-2006)	WATER	2000.000	1.0	6.695	396392	PHPAH.m	27-OCT-2006	Dave Fada
5	WG88422-5	02-NOV-2006 10:48	WG88422	BL#670	423589-09	Method Blank (10-05-2006)	WATER	4000.000	1.0	6.695	398135	PHPAH.m	27-OCT-2006	Dave Fada
6	WG88422-6	02-NOV-2006 11:29	WG88422	BL#670	423589-09	Method Blank (10-06-2006)	WATER	2000.000	1.0	6.695	424866	PHPAH.m	27-OCT-2006	Dave Fada
7	L40479-1	02-NOV-2006 12:10	WG88422	BL#670	423589-09	Blank Water	WATER	2000.000	1.0	6.695	435007	PHPAH.m	27-OCT-2006	Dave Fada
8	WG88422-1	02-NOV-2006 12:51	WG88422	BL#670	423589-09	Spike Blank (10-04-2006)	WATER	4000.000	1.0	6.695	433500	PHPAH.m	27-OCT-2006	Dave Fada
9	WG88422-4	02-NOV-2006 13:32	WG88422	BL#670	423589-09	Spike Blank Dup (10-05-2006)	WATER	4000.000	1.0	6.695	441346	PHPAH.m	27-OCT-2006	Dave Fada
0	L40468-1	02-NOV-2006 14:13	WG88422	BL#670	423589-09	Lower Duwamish Phthalate Stu	WATER	3200.000	10.0	6.695	430527	PHPAH.m	27-OCT-2006	Dave Fada
1	L40468-2	02-NOV-2006 14:54	WG88422	BL#670	423589-09	Lower Duwamish Phthalate Stu	WATER	2770.000	10.0	6.695	415345	PHPAH.m	27-OCT-2006	Dave Fada

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

Batch: \\Orgizmo\EE\chem\6890n.i\061103.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	03-NOV-2006 06:54	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.695	339547	PHPAH.m	27-OCT-2006	Dave Fada
2	DFTPP-1	03-NOV-2006 07:35	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.742	137024	LVI_DFTP.m		Dave Fada
3	CCALI-1	03-NOV-2006 08:16	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.695	383407	PHPAH.m	27-OCT-2006	Dave Fada
4	L40468-3	03-NOV-2006 09:03	WG88422	BL#670	423589-09	Lower Duwamish Phthalate Stu	WATER	3100.000	10.0	6.695	428983	PHPAH.m	27-OCT-2006	Dave Fada
5	L40468-4	03-NOV-2006 09:44	WG88422	BL#670	423589-09	Lower Duwamish Phthalate Stu	WATER	2990.000	10.0	6.695	427363	PHPAH.m	27-OCT-2006	Dave Fada
6	L40468-5	03-NOV-2006 10:26	WG88422	BL#670	423589-09	Lower Duwamish Phthalate Stu	WATER	1430.000	10.0	6.695	433923	PHPAH.m	27-OCT-2006	Dave Fada
7	CHECK-1	03-NOV-2006 11:41	SDGa1658	SDGa16	423589-09	Spike Check SS#1315/1246/120	WATER	1000.000	1.0	6.695	503714	PHPAH.m	27-OCT-2006	Dave Fada

amples: 3 QC Samples + Misc.: 2 ContinuingCals: 1 Tunes: 1 Calibrations: 0

Batch: \\Orgizmo\EE\chem\6890n.i\061114.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	14-NOV-2006 08:51	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.695	350546	PHPAH.m	27-OCT-2006	Dave Fada
2	DFTPP-1	14-NOV-2006 09:31	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.733	139328	LVI_DFTP.m		Dave Fada
3	CCALI-1	14-NOV-2006 10:12	SDGa1658	SDGa16	421152	SS#1120E 250 ppb	WATER	1.000	1.0	6.695	429415	PHPAH.m	27-OCT-2006	Dave Fada
4	WG88422-2	14-NOV-2006 11:10	WG88422	BL#670	423589-09	Method Blank (10-04-2006)	WATER	4000.000	1.0	6.695	456898	PHPAH.m	27-OCT-2006	Dave Fada

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

```
   Sequence Name: C:\msdchem\1\sequence\061102.S
         Comment:
        Operator: Dave Fada
       Data Path: C:\MSDCHEM\1\DATA\061102\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank         Solvent Blank + ISTD's
       Vial: 1             Solvent Blank + ISTD's
       Method  : PHPAH.M
       Datafile: BLANK-1.D
       Bar Code: 421152            Samp Amt: 1000        Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   2   Type: Tune          SS#1254x50 DFTPP
       Vial: 2             DFTPP 1.0 ug/ml 20 ul injection
       Method  : LVI_DFTP.M
       Datafile: DFTPP-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   3   Type: Cont.Cal      SS#1120E 250 ppb
       Vial: 3             Phthalate/PAH 250 ppb 20 ul injection
       Method  : PHPAH.M
       Datafile: CCALI-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   4   Type: Blank         Method Blank (10-04-2006)
       Vial: 5             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: WG88422-3.D
       Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   5   Type: Blank         Method Blank (10-05-2006)
       Vial: 6             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: WG88422-5.D
       Bar Code: 423589-090-1      Samp Amt: 4000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   6   Type: Blank         Method Blank (10-06-2006)
       Vial: 7             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: WG88422-6.D
       Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   7   Type: Sample        Blank Water
       Vial: 8             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: L40479-1.D
       Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   8   Type: SB            Spike Blank (10-04-2006)

   Sequence Last Modified  Thu Nov 02 06:07:28 2006        Page: 1
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```
    Vial: 9           WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: WG88422-1.D
    Bar Code: 423589-090-1     Samp Amt: 4000       Multiplr: 1
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
9   Type: SBD         Spike Blank Dup (10-05-2006)
    Vial: 10          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: WG88422-4.D
    Bar Code: 423589-090-1     Samp Amt: 4000       Multiplr: 1
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
10  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 11          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: L40468-1.D
    Bar Code: 423589-090-1     Samp Amt: 3200       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
11  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 12          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: L40468-2.D
    Bar Code: 423589-090-1     Samp Amt: 2770       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
12  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 13          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: L40468-3.D
    Bar Code: 423589-090-1     Samp Amt: 3100       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
13  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 14          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: L40468-4.D
    Bar Code: 423589-090-1     Samp Amt: 2990       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
14  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 15          WG88422;BL#670;SS#969x200;SS#1205/1315
    Method  : PHPAH.M
    Datafile: L40468-5.D
    Bar Code: 423589-090-1     Samp Amt: 1430       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
```

```
   Sequence Name: C:\msdchem\1\sequence\061103.S
         Comment:
        Operator: Dave Fada
       Data Path: C:\MSDCHEM\1\DATA\061103\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank         Solvent Blank + ISTD's
       Vial: 1             Solvent Blank + ISTD's
       Method  : PHPAH.M
       Datafile: BLANK-1.D
       Bar Code: 421152            Samp Amt: 1000        Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   2   Type: Tune          SS#1254x50 DFTPP
       Vial: 2             DFTPP 1.0 ug/ml 20 ul injection
       Method  : LVI_DFTP.M
       Datafile: DFTPP-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   3   Type: Cont.Cal      SS#1120E 250 ppb
       Vial: 3             Phthalate/PAH 250 ppb 20 ul injection
       Method  : PHPAH.M
       Datafile: CCALI-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   4   Type: Sample        Lower Duwamish Phthalate Studies
       Vial: 4             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: L40468-3.D
       Bar Code: 423589-090-1      Samp Amt: 3100        Multiplr: 10
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   5   Type: Sample        Lower Duwamish Phthalate Studies
       Vial: 5             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: L40468-4.D
       Bar Code: 423589-090-1      Samp Amt: 2990        Multiplr: 10
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   6   Type: Sample        Lower Duwamish Phthalate Studies
       Vial: 6             WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: L40468-5.D
       Bar Code: 423589-090-1      Samp Amt: 1430        Multiplr: 10
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   7   Type: SB            Spike Check SS#1315/1246/1205
       Vial: 7             None
       Method  : PHPAH.M
       Datafile: CHECK-1.D
       Bar Code: 423589-090-1      Samp Amt: 1000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------

   Sequence Last Modified  Fri Nov 03 11:34:30 2006        Page: 1
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```
    Vial: 8            WG88422;BL#670;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L40479-1.D
    Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
9   Type: SB           Spike Blank (10-04-2006)
    Vial: 9            WG88422;BL#670;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: WG88422-1.D
    Bar Code: 423589-090-1      Samp Amt: 4000        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
10  Type: SBD          Spike Blank Dup (10-05-2006)
    Vial: 10           WG88422;BL#670;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: WG88422-4.D
    Bar Code: 423589-090-1      Samp Amt: 4000        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
11  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 11           WG88422;BL#670;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L40468-1.D
    Bar Code: 423589-090-1      Samp Amt: 3200        Multiplr: 10
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
12  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 12           WG88422;BL#670;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L40468-2.D
    Bar Code: 423589-090-1      Samp Amt: 2770        Multiplr: 10
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
```

```
   Sequence Name: C:\msdchem\1\sequence\061114.S
         Comment:
        Operator: Dave Fada
       Data Path: C:\MSDCHEM\1\DATA\061114\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

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

   Method Sections To Run     On A Barcode Mismatch
    (X) Full Method             (X) Inject Anyway
    ( ) Reprocessing Only       ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                  Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank       Solvent Blank + ISTD's
       Vial: 1           Solvent Blank + ISTD's
       Method  : PHPAH.M
       Datafile: BLANK-1.D
       Bar Code: 421152           Samp Amt: 1000       Multiplr: 1
       Matrix          :Method Default   Sublist         :Method Default
       Spikelist       :Method Default   Re-inject       :No
   ---------------------------------------------------------------------
   2   Type: Tune        SS#1254x50 DFTPP
       Vial: 2           DFTPP 1.0 ug/ml 20 ul injection
       Method  : LVI_DFTP.M
       Datafile: DFTPP-1.D
       Bar Code: 421152           Samp Amt: 1          Multiplr: 1
       Matrix          :Method Default   Sublist         :Method Default
       Spikelist       :Method Default   Re-inject       :No
   ---------------------------------------------------------------------
   3   Type: Cont.Cal    SS#1120E 250 ppb
       Vial: 3           Phthalate/PAH 250 ppb 20 ul injection
       Method  : PHPAH.M
       Datafile: CCALI-1.D
       Bar Code: 421152           Samp Amt: 1          Multiplr: 1
       Matrix          :Method Default   Sublist         :Method Default
       Spikelist       :Method Default   Re-inject       :No
   ---------------------------------------------------------------------
   4   Type: Blank       Method Blank (10-04-2006)
       Vial: 4           WG88422;BL#670;SS#969x200;SS#1205/1315
       Method  : PHPAH.M
       Datafile: WG88422-2.D
       Bar Code: 423589-090-1     Samp Amt: 4000       Multiplr: 1
       Matrix          :Liquid           Sublist         :Method Default
       Spikelist       :Method Default   Re-inject       :No
   ---------------------------------------------------------------------
```


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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-1	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R117428	Col. Date:	
	Locator: SB	Work Group:	WG88422	Rec. Date:	06-OCT-06
	Site: NONE	QC Type:	SB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.01	.02	
Acenaphthylene	.0504	ug/L		.005	.01	
Dimethyl Phthalate	.0331	ug/L		.005	.01	
Acenaphthene		ug/L	<MDL	.005	.01	
Fluorene	.0614	ug/L		.005	.01	
Diethyl Phthalate	.0541	ug/L		.0075	.015	
Phenanthrene	.0907	ug/L		.005	.01	
Anthracene	.0796	ug/L		.005	.01	
Di-N-Butyl Phthalate	.139	ug/L		.005	.01	
Fluoranthene		ug/L	<MDL	.005	.01	
Pyrene	.131	ug/L		.005	.01	
Benzyl Butyl Phthalate	.163	ug/L		.005	.01	
Benzo(a)anthracene	.127	ug/L		.005	.01	
Chrysene	.125	ug/L		.005	.01	
Bis(2-Ethylhexyl)Phthalate	.16	ug/L		.005	.01	
Di-N-Octyl Phthalate		ug/L	<MDL	.0075	.015	
Benzo(b)fluoranthene	.119	ug/L		.0075	.015	
Benzo(k)fluoranthene	.121	ug/L		.0075	.015	
Benzo(a)pyrene	.105	ug/L		.0075	.015	
Indeno(1,2,3-Cd)Pyrene	.0897	ug/L		.0075	.015	
Dibenzo(a,h)anthracene	.0909	ug/L		.0075	.015	
Benzo(g,h,i)perylene	.0864	ug/L		.0075	.015	
2-Methylnaphthalene		ug/L	<MDL	.0075	.015	
d14-Terphenyl	.292	ug/L		.005	.01	
D6-Dimethyl Phthalate	.0365	ug/L		.005	.01	
D8-Acenaphthylene	.0653	ug/L		.005	.01	
D10-Fluorene	.0456	ug/L		.005	.01	
D10-Anthracene	.0921	ug/L		.005	.01	
D10-Pyrene	.12	ug/L		.005	.01	
D12-Benzo(a)pyrene	.124	ug/L		.005	.01	
Amount Analyzed	4000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG88422-1.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	93	33-141
D6-Dimethyl Phthalate	29	0-150
D8-Acenaphthylene	52	0-150
D10-Fluorene	36	0-150
D10-Anthracene	74	0-150
D10-Pyrene	96	0-150
D12-Benzo(a)pyrene	99	0-150

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-2	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R117428	Col. Date:	
	Locator: MB	Work Group:	WG88422	Rec. Date:	06-OCT-06
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.01	.02	
Acenaphthylene		ug/L	<MDL	.005	.01	
Dimethyl Phthalate		ug/L	<MDL	.005	.01	
Acenaphthene		ug/L	<MDL	.005	.01	
Fluorene		ug/L	<MDL	.005	.01	
Diethyl Phthalate		ug/L	<MDL	.0075	.015	
Phenanthrene		ug/L	<MDL	.005	.01	
Anthracene		ug/L	<MDL	.005	.01	
Di-N-Butyl Phthalate	.0131	ug/L	B	.005	.01	
Fluoranthene		ug/L	<MDL	.005	.01	
Pyrene		ug/L	<MDL	.005	.01	
Benzyl Butyl Phthalate	.0075	ug/L	<RDL,B	.005	.01	
Benzo(a)anthracene		ug/L	<MDL	.005	.01	
Chrysene		ug/L	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.0378	ug/L	B	.005	.01	
Di-N-Octyl Phthalate		ug/L	<MDL	.0075	.015	
Benzo(b)fluoranthene		ug/L	<MDL	.0075	.015	
Benzo(k)fluoranthene		ug/L	<MDL	.0075	.015	
Benzo(a)pyrene		ug/L	<MDL	.0075	.015	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0075	.015	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0075	.015	
Benzo(g,h,i)perylene		ug/L	<MDL	.0075	.015	
2-Methylnaphthalene		ug/L	<MDL	.0075	.015	
d14-Terphenyl	.587	ug/L		.005	.01	
D6-Dimethyl Phthalate	.0755	ug/L		.005	.01	
D8-Acenaphthylene	.174	ug/L		.005	.01	
D10-Fluorene	.121	ug/L		.005	.01	
D10-Anthracene	.205	ug/L		.005	.01	
D10-Pyrene	.242	ug/L		.005	.01	
D12-Benzo(a)pyrene	.27	ug/L		.005	.01	
Amount Analyzed	4000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						14-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88422-2.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	94	33-141
D6-Dimethyl Phthalate	30	0-150
D8-Acenaphthylene	69	0-150
D10-Fluorene	48	0-150
D10-Anthracene	82	0-150
D10-Pyrene	97	0-150
D12-Benzo(a)pyrene	108	0-150

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SEA424867

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-3	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R117428	Col. Date:	
	Locator: MB	Work Group:	WG88422	Rec. Date:	06-OCT-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	.0261	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	.0592	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	.588	ug/L		.01	.02	
D6-Dimethyl Phthalate	.14	ug/L		.01	.02	
D8-Acenaphthylene	.175	ug/L		.01	.02	
D10-Fluorene	.118	ug/L		.01	.02	
D10-Anthracene	.224	ug/L		.01	.02	
D10-Pyrene	.247	ug/L		.01	.02	
D12-Benzo(a)pyrene	.285	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88422-3.rp
Instrument ID						6890n-1
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	94	33-141
D6-Dimethyl Phthalate	56	0-150
D8-Acenaphthylene	70	0-150
D10-Fluorene	47	0-150
D10-Anthracene	90	0-150
D10-Pyrene	99	0-150
D12-Benzo(a)pyrene	114	0-150

KCSlip4 58569

SEA424868

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-4	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R117428	Col. Date:	
	Locator: SBD	Work Group:	WG88422	Rec. Date:	06-OCT-06
	Site: NONE	QC Type:	SBD	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.01	.02	
Acenaphthylene	.047	ug/L		.005	.01	
Dimethyl Phthalate	.0318	ug/L		.005	.01	
Acenaphthene		ug/L	<MDL	.005	.01	
Fluorene	.0563	ug/L		.005	.01	
Diethyl Phthalate	.0539	ug/L		.0075	.015	
Phenanthrene	.0948	ug/L		.005	.01	
Anthracene	.0844	ug/L		.005	.01	
Di-N-Butyl Phthalate	.145	ug/L		.005	.01	
Fluoranthene		ug/L	<MDL	.005	.01	
Pyrene	.136	ug/L		.005	.01	
Benzyl Butyl Phthalate	.17	ug/L		.005	.01	
Benzo(a)anthracene	.128	ug/L		.005	.01	
Chrysene	.127	ug/L		.005	.01	
Bis(2-Ethylhexyl)Phthalate	.162	ug/L		.005	.01	
Di-N-Octyl Phthalate		ug/L	<MDL	.0075	.015	
Benzo(b)fluoranthene	.12	ug/L		.0075	.015	
Benzo(k)fluoranthene	.117	ug/L		.0075	.015	
Benzo(a)pyrene	.108	ug/L		.0075	.015	
Indeno(1,2,3-Cd)Pyrene	.0872	ug/L		.0075	.015	
Dibenzo(a,h)anthracene	.088	ug/L		.0075	.015	
Benzo(g,h,i)perylene	.083	ug/L		.0075	.015	
2-Methylnaphthalene		ug/L	<MDL	.0075	.015	
d14-Terphenyl	.3	ug/L		.005	.01	
D6-Dimethyl Phthalate	.0345	ug/L		.005	.01	
D8-Acenaphthylene	.062	ug/L		.005	.01	
D10-Fluorene	.0433	ug/L		.005	.01	
D10-Anthracene	.097	ug/L		.005	.01	
D10-Pyrene	.123	ug/L		.005	.01	
D12-Benzo(a)pyrene	.13	ug/L		.005	.01	
Amount Analyzed	4000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88422 4.rp
Instrument ID						6890n 1
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	96	33-141
D6-Dimethyl Phthalate	28	0-150
D8-Acenaphthylene	50	0-150
D10-Fluorene	35	0-150
D10-Anthracene	78	0-150
D10-Pyrene	98	0-150
D12-Benzo(a)pyrene	104	0-150

KCSlip4 58570

SEA424869

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-5	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R117428	Col. Date:
	Locator:	MB	Work Group:	WG88422	Rec. Date: 06-OCT-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.01	.02	
Acenaphthylene		ug/L	<MDL	.005	.01	
Dimethyl Phthalate		ug/L	<MDL	.005	.01	
Acenaphthene		ug/L	<MDL	.005	.01	
Fluorene		ug/L	<MDL	.005	.01	
Diethyl Phthalate		ug/L	<MDL	.0075	.015	
Phenanthrene		ug/L	<MDL	.005	.01	
Anthracene		ug/L	<MDL	.005	.01	
Di-N-Butyl Phthalate	.0223	ug/L	B	.005	.01	
Fluoranthene		ug/L	<MDL	.005	.01	
Pyrene		ug/L	<MDL	.005	.01	
Benzyl Butyl Phthalate	.0129	ug/L	B	.005	.01	
Benzo(a)anthracene		ug/L	<MDL	.005	.01	
Chrysene		ug/L	<MDL	.005	.01	
Bis(2-Ethylhexyl)Phthalate	.0505	ug/L	B	.005	.01	
Di-N-Octyl Phthalate		ug/L	<MDL	.0075	.015	
Benzo(b)fluoranthene		ug/L	<MDL	.0075	.015	
Benzo(k)fluoranthene		ug/L	<MDL	.0075	.015	
Benzo(a)pyrene		ug/L	<MDL	.0075	.015	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0075	.015	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0075	.015	
Benzo(g,h,i)perylene		ug/L	<MDL	.0075	.015	
2-Methylnaphthalene		ug/L	<MDL	.0075	.015	
d14-Terphenyl	.315	ug/L		.005	.01	
D6-Dimethyl Phthalate	.0456	ug/L		.005	.01	
D8-Acenaphthylene	.0692	ug/L		.005	.01	
D10-Fluorene	.0511	ug/L		.005	.01	
D10-Anthracene	.112	ug/L		.005	.01	
D10-Pyrene	.13	ug/L		.005	.01	
D12-Benzo(a)pyrene	.148	ug/L		.005	.01	

Amount Analyzed	4000	ml	
Standard Amount	1000	ml	
Dilution Factor	1	none	
Date Analyzed			02-NOV-06
Operator ID			Dave Fada
Porthandler File			/usr/users/seed2/METROS3/files/gcms/WG88422-5.rp
Instrument ID			6890n.i
Prep Date			04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	101	33-141
D6-Dimethyl Phthalate	36	0-150
D8-Acenaphthylene	55	0-150
D10-Fluorene	41	0-150
D10-Anthracene	90	0-150
D10-Pyrene	104	0-150
D12-Benzo(a)pyrene	118	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:59 - Data Source: ELD

Sample#: WG88422-6	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R117428	Col. Date:	
	Locator: MB	Work Group:	WG88422	Rec. Date:	06-OCT-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	.0266	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.016	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0467	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	.611	ug/L		.01	.02	
D6-Dimethyl Phthalate	.0996	ug/L		.01	.02	
D8-Acenaphthylene	.127	ug/L		.01	.02	
D10-Fluorene	.0893	ug/L		.01	.02	
D10-Anthracene	.186	ug/L		.01	.02	
D10-Pyrene	.251	ug/L		.01	.02	
D12-Benzo(a)pyrene	.277	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88422-6.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	98	33-141
D6-Dimethyl Phthalate	40	0-150
D8-Acenaphthylene	51	0-150
D10-Fluorene	36	0-150
D10-Anthracene	75	0-150
D10-Pyrene	100	0-150
D12-Benzo(a)pyrene	111	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:58 - Data Source: ELD

Sample#: L40468-1	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R117428		Col. Date:	28-SEP-06
	Locator: DZ	Work Group: WG88422		Rec. Date:	28-SEP-06
	Site: METRO	QC Type:		Due Date:	28-OCT-06
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.25	
Acenaphthylene		ug/L	<MDL	.063	.125	
Dimethyl Phthalate		ug/L	<MDL	.063	.125	
Acenaphthene		ug/L	<MDL	.063	.125	
Fluorene		ug/L	<MDL	.063	.125	
Diethyl Phthalate		ug/L	<MDL	.094	.188	
Phenanthrene	.153	ug/L		.063	.125	
Anthracene		ug/L	<MDL	.063	.125	
Di-N-Butyl Phthalate	.1	ug/L	<RDL	.063	.125	
Fluoranthene	.186	ug/L		.063	.125	
Pyrene	.209	ug/L		.063	.125	
Benzyl Butyl Phthalate	.289	ug/L		.063	.125	
Benzo(a)anthracene		ug/L	<MDL	.063	.125	
Chrysene	.193	ug/L		.063	.125	
Bis(2-Ethylhexyl)Phthalate	2.13	ug/L		.063	.125	
Di-N-Octyl Phthalate	3.18	ug/L		.094	.188	
Benzo(b)fluoranthene	.15	ug/L	<RDL	.094	.188	
Benzo(k)fluoranthene	.13	ug/L	<RDL	.094	.188	
Benzo(a)pyrene		ug/L	<MDL	.094	.188	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.094	.188	
Dibenzo(a,h)anthracene		ug/L	<MDL	.094	.188	
Benzo(g,h,i)perylene	.15	ug/L	<RDL	.094	.188	
2-Methylnaphthalene		ug/L	<MDL	.094	.188	
d14-Terphenyl	.355	ug/L		.063	.125	
D6-Dimethyl Phthalate		ug/L	<MDL	.063	.125	
D8-Acenaphthylene		ug/L	<MDL	.063	.125	
D10-Fluorene		ug/L	<MDL	.063	.125	
D10-Anthracene		ug/L	<MDL	.063	.125	
D10-Pyrene		ug/L	<MDL	.063	.125	
D12-Benzo(a)pyrene		ug/L	<MDL	.063	.125	
Amount Analyzed	3200	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-1.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	105		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	0	*	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:58 - Data Source: ELD

Sample#: L40468 2	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R117428	Col. Date: 28-SEP-06
	Locator:	CER	Work Group:	WG88422	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.14	.289	
Acenaphthylene		ug/L	<MDL	.072	.144	
Dimethyl Phthalate		ug/L	<MDL	.072	.144	
Acenaphthene		ug/L	<MDL	.072	.144	
Fluorene		ug/L	<MDL	.072	.144	
Diethyl Phthalate		ug/L	<MDL	.11	.217	
Phenanthrene	.15	ug/L		.072	.144	
Anthracene		ug/L	<MDL	.072	.144	
Di-N-Butyl Phthalate	.099	ug/L	<RDL	.072	.144	
Fluoranthene	.196	ug/L		.072	.144	
Pyrene	.235	ug/L		.072	.144	
Benzyl Butyl Phthalate	.519	ug/L		.072	.144	
Benzo(a)anthracene		ug/L	<MDL	.072	.144	
Chrysene	.177	ug/L		.072	.144	
Bis(2-Ethylhexyl)Phthalate	2.39	ug/L		.072	.144	
Di-N-Octyl Phthalate		ug/L	<MDL	.11	.217	
Benzo(b)fluoranthene	.15	ug/L	<RDL	.11	.217	
Benzo(k)fluoranthene	.12	ug/L	<RDL	.11	.217	
Benzo(a)pyrene		ug/L	<MDL	.11	.217	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.11	.217	
Dibenzo(a,h)anthracene		ug/L	<MDL	.11	.217	
Benzo(g,h,i)perylene	.17	ug/L	<RDL	.11	.217	
2-Methylnaphthalene		ug/L	<MDL	.11	.217	
d14-Terphenyl	.522	ug/L		.072	.144	
D6-Dimethyl Phthalate		ug/L	<MDL	.072	.144	
D8-Acenaphthylene		ug/L	<MDL	.072	.144	
D10-Fluorene		ug/L	<MDL	.072	.144	
D10-Anthracene		ug/L	<MDL	.072	.144	
D10-Pyrene		ug/L	<MDL	.072	.144	
D12-Benzo(a)pyrene		ug/L	<MDL	.072	.144	
Amount Analyzed	2770	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						02-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-2.rp
Instrument ID						6890n.1
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	116		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	0	*	0-150

KCSlip4 58574

SEA424873

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:58 - Data Source: ELD

Sample#: L40468-3	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R117428	Col. Date: 28-SEP-06
	Locator:	KCIA	Work Group:	WG88422	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.258	
Acenaphthylene		ug/L	<MDL	.065	.129	
Dimethyl Phthalate		ug/L	<MDL	.065	.129	
Acenaphthene		ug/L	<MDL	.065	.129	
Fluorene		ug/L	<MDL	.065	.129	
Diethyl Phthalate		ug/L	<MDL	.097	.194	
Phenanthrene	1.63	ug/L		.065	.129	
Anthracene	.151	ug/L		.065	.129	
Di-N-Butyl Phthalate	.096	ug/L	<RDL	.065	.129	
Fluoranthene	3.88	ug/L		.065	.129	
Pyrene	3.57	ug/L		.065	.129	
Benzyl Butyl Phthalate	.535	ug/L		.065	.129	
Benzo(a)anthracene	1.22	ug/L		.065	.129	
Chrysene	2.73	ug/L		.065	.129	
Bis(2-Ethylhexyl)Phthalate	1.94	ug/L		.065	.129	
Di-N-Octyl Phthalate		ug/L	<MDL	.097	.194	
Benzo(b)fluoranthene	2.84	ug/L		.097	.194	
Benzo(k)fluoranthene	2.29	ug/L		.097	.194	
Benzo(a)pyrene	1.95	ug/L		.097	.194	
Indeno(1,2,3-Cd)Pyrene	1.68	ug/L		.097	.194	
Dibenzo(a,h)anthracene	.522	ug/L		.097	.194	
Benzo(g,h,i)perylene	1.9	ug/L		.097	.194	
2-Methylnaphthalene		ug/L	<MDL	.097	.194	
d14-Terphenyl	.434	ug/L		.065	.129	
D6-Dimethyl Phthalate		ug/L	<MDL	.065	.129	
D8-Acenaphthylene		ug/L	<MDL	.065	.129	
D10-Fluorene		ug/L	<MDL	.065	.129	
D10-Anthracene		ug/L	<MDL	.065	.129	
D10-Pyrene		ug/L	<MDL	.065	.129	
D12-Benzo(a)pyrene		ug/L	<MDL	.065	.129	
Amount Analyzed	3100	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						03-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-3.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	108		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	0	*	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report 11/27/06 01:58 - Data Source: ELD

Sample#: L40468-4	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R117428	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88422	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.268	
Acenaphthylene		ug/L	<MDL	.067	.134	
Dimethyl Phthalate		ug/L	<MDL	.067	.134	
Acenaphthene		ug/L	<MDL	.067	.134	
Fluorene		ug/L	<MDL	.067	.134	
Diethyl Phthalate		ug/L	<MDL	.1	.201	
Phenanthrene	.155	ug/L		.067	.134	
Anthracene		ug/L	<MDL	.067	.134	
Di-N-Butyl Phthalate	.1	ug/L	<RDL	.067	.134	
Fluoranthene	.28	ug/L		.067	.134	
Pyrene	.291	ug/L		.067	.134	
Benzyl Butyl Phthalate	.608	ug/L		.067	.134	
Benzo(a)anthracene	.11	ug/L	<RDL	.067	.134	
Chrysene	.215	ug/L		.067	.134	
Bis(2-Ethylhexyl)Phthalate	5.27	ug/L		.067	.134	
Di-N-Octyl Phthalate		ug/L	<MDL	.1	.201	
Benzo(b)fluoranthene	.18	ug/L	<RDL	.1	.201	
Benzo(k)fluoranthene	.15	ug/L	<RDL	.1	.201	
Benzo(a)pyrene	.13	ug/L	<RDL	.1	.201	
Indeno(1,2,3-Cd)Pyrene	.1	ug/L	<RDL	.1	.201	
Dibenzo(a,h)anthracene		ug/L	<MDL	.1	.201	
Benzo(g,h,i)perylene	.14	ug/L	<RDL	.1	.201	
2 Methylnaphthalene		ug/L	<MDL	.1	.201	
d14-Terphenyl	.478	ug/L		.067	.134	
D6-Dimethyl Phthalate		ug/L	<MDL	.067	.134	
D8-Acenaphthylene		ug/L	<MDL	.067	.134	
D10-Fluorene		ug/L	<MDL	.067	.134	
D10-Anthracene		ug/L	<MDL	.067	.134	
D10-Pyrene		ug/L	<MDL	.067	.134	
D12-Benzo(a)pyrene	.085	ug/L	<RDL	.067	.134	

Amount Analyzed	2990	ml	
Standard Amount	1000	ml	
Dilution Factor	10	none	
Date Analyzed			03-NOV-06
Operator ID			Dave Fada
Porthandler File			/usr/users/seed2/METROS3/files/gcms/L40468-4.rp
Instrument ID			6890n.i
Prep Date			04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	114		33-141
D6-Dimethyl Phthalate	0	*	0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	0	*	0-150
D12-Benzo(a)pyrene	51		0-150

KCSlip4 58576

SEA424875

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:58 - Data Source: ELD

Sample#: L40468-5	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R117428		Col. Date:	28-SEP-06
	Locator: SPCC	Work Group: WG88422		Rec. Date:	28-SEP-06
	Site: METRO	QC Type:		Due Date:	28-OCT-06
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.13	.26	
Acenaphthylene		ug/L	<MDL	.065	.13	
Dimethyl Phthalate		ug/L	<MDL	.065	.13	
Acenaphthene		ug/L	<MDL	.065	.13	
Fluorene		ug/L	<MDL	.065	.13	
Diethyl Phthalate		ug/L	<MDL	.097	.195	
Phenanthrene	.14	ug/L		.065	.13	
Anthracene		ug/L	<MDL	.065	.13	
Di-N-Butyl Phthalate	.093	ug/L	<RDL	.065	.13	
Fluoranthene	.258	ug/L		.065	.13	
Pyrene	.316	ug/L		.065	.13	
Benzyl Butyl Phthalate	.534	ug/L		.065	.13	
Benzo(a)anthracene	.1	ug/L	<RDL	.065	.13	
Chrysene	.206	ug/L		.065	.13	
Bis(2-Ethylhexyl)Phthalate	3.2	ug/L		.065	.13	
Di-N-Octyl Phthalate		ug/L	<MDL	.097	.195	
Benzo(b)fluoranthene	.17	ug/L	<RDL	.097	.195	
Benzo(k)fluoranthene	.15	ug/L	<RDL	.097	.195	
Benzo(a)pyrene	.12	ug/L	<RDL	.097	.195	
Indeno(1,2,3-Cd)Pyrene	.1	ug/L	<RDL	.097	.195	
Dibenzo(a,h)anthracene		ug/L	<MDL	.097	.195	
Benzo(g,h,i)perylene	.14	ug/L	<RDL	.097	.195	
2-Methylnaphthalene		ug/L	<MDL	.097	.195	
d14-Terphenyl	.457	ug/L		.065	.13	
D6-Dimethyl Phthalate		ug/L	<MDL	.065	.13	
D8-Acenaphthylene		ug/L	<MDL	.065	.13	
D10-Fluorene		ug/L	<MDL	.065	.13	
D10-Anthracene		ug/L	<MDL	.065	.13	
D10-Pyrene		ug/L	<MDL	.065	.13	
D12-Benzo(a)pyrene		ug/L	<MDL	.065	.13	
Amount Analyzed	3080	ml				
Standard Amount	1000	ml				
Dilution Factor	10	none				
Date Analyzed						03-NOV-06
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-5.rp
Instrument ID						6890n.i
Prep Date						04-OCT-06

SURROGATE RECOVERY INFORMATION

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

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SEA424876

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/27/06 01:58 - Data Source: ELD

Sample#: L40479-1	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R117428		Col. Date:	27-SEP-06
	Locator: BWR	Work Group: WG88422		Rec. Date:	27-SEP-06
	Site: METRO	QC Type:		Due Date:	27-OCT-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	.0373	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.0266	ug/L	B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0671	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	.583	ug/L		.01	.02	
D6-Dimethyl Phthalate	.147	ug/L		.01	.02	
D8-Acenaphthylene	.209	ug/L		.01	.02	
D10-Fluorene	.133	ug/L		.01	.02	
D10-Anthracene	.245	ug/L		.01	.02	
D10-Pyrene	.248	ug/L		.01	.02	
D12-Benzo(a)pyrene	.284	ug/L		.01	.02	

Amount Analyzed	2000	ml	
Standard Amount	1000	ml	
Dilution Factor	1	none	
Date Analyzed			02-NOV-06
Operator ID			Dave Fada
Porthandler File			/usr/users/seed2/METROS3/files/gcms/L40479-1.rp
Instrument ID			6890n.i
Prep Date			04-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	93	33-141
D6-Dimethyl Phthalate	59	0-150
D8-Acenaphthylene	84	0-150
D10-Fluorene	53	0-150
D10-Anthracene	98	0-150
D10-Pyrene	99	0-150
D12-Benzo(a)pyrene	114	0-150

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SEA424877

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Nov 01 2006, 10:52 am

Work Group: WG88423 (BL#670 PCBLL) for Department: 7 - Organics, Trace

Created: 06-OCT-06 PrepDate: 05-OCT-06 Due: Operator: JG

Sample	Project Number	Project Description	PRep	C	Product	Matrix	Stat	UA	Workdate	Duedate
L40468-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	05-OCT-06	28-OCT-06
L40468-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	05-OCT-06	28-OCT-06
L40468-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	05-OCT-06	28-OCT-06
L40468-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	05-OCT-06	28-OCT-06
L40468-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	05-OCT-06	28-OCT-06
L40479-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	BLANK WTR	PREP	U	04-OCT-06	27-OCT-06
WG88423-1	SB			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	
WG88423-2	MB			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	
WG88423-3	MB			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	
WG88423-4	SBD			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	
WG88423-5	MB			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	
WG88423-6	MB			S	PCBLL	BLANK WTR	PREP	U	06-OCT-06	

Comments:

L40468-1	carboys
L40468-2	carboys
L40468-3	carboys
L40468-4	carboys
L40468-5	carboys
L40479-1	blank water
WG88423-1	WG88423-2
WG88423-2	MB061004 4L
WG88423-3	MB061004 2L
WG88423-4	WG88423-1 WG88423-5
WG88423-5	MB061005 4L
WG88423-6	MB061006 2L

KCSlip4 58579

SEA424878

Trace Organics Data Anomaly Form

Date(s) Occurred: *11/01/2006*

WG #(s): *WG88423*

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

Project #(s): *423589*

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: *2. The spike blank duplicate (WG88423-4) had a recovery for aroclor 1260 of 67% which is below the lab limits (72-128%). 8a. There was 0% recovery for the surrogate DCB in samples L40468-(1-5). 8b. The surrogate recoveries in one MB (WG88423-2) are approximately double what the other in-house prepared QC are. DCB however is the only one of the two that is out of range. 12. PCB-07 had low recoveries for aroclor1260 and DCB on the front column. PCB-08 also had a*

slightly low recovery for DCB. 17. There were many interferences in these samples requiring in depth review. This method is still in development.

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: *2. I suspect that the lab limits were not calculated with these samples in mind. 8a. These samples were never spiked with DCB prior to going to the field. 8b. I believe this sample was double spiked, however as TCX is within range and the extractionist cannot see how it could happen, I will leave the present values. No target analytes for this MB were reported. 12. All aroclor 1260 recoveries are taken from the back column. Surrogates are all from the front. The matrix and method for these samples seems to have a suppressive effect on the back end of the chromatogram, ie. aroclor 1260 and the surrogate DCB. Looking back at previous sets I see similar problems.*

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

	Signatures	Signature Dates
Reported By: *JSF*		11-17-06
Reviewer: *Gretchen Nerlin*		11/15/06
Supervisor: *Dana Walker*	Dana Walker	11/17/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report 11/09/06 02:37
Run ID: R117208 Workgroup: WG88423 (BL#670 PCBLL)

SBD:WG88423-4 SB:WG88423-1 MB:WG88423-2 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	LabLimit
Aroclor 1016	.013	.025	ug/L	<MDL	0.0750	.0646	86		65-129	0.0750	.0615	82		65-129	5		
Aroclor 1260	.013	.025	ug/L	<MDL	0.0750	.0568	76		72-128	0.0750	.05	67	*	72-128	13		

MB:WG88423-2 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	.013	.025	ug/L	<MDL	
Aroclor 1221	.013	.025	ug/L	<MDL	
Aroclor 1232	.013	.025	ug/L	<MDL	
Aroclor 1242	.013	.025	ug/L	<MDL	
Aroclor 1248	.013	.025	ug/L	<MDL	
Aroclor 1254	.013	.025	ug/L	<MDL	
Aroclor 1260	.013	.025	ug/L	<MDL	

MB:WG88423-3 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	

MB:WG88423-5 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	.013	.025	ug/L	<MDL	
Aroclor 1221	.013	.025	ug/L	<MDL	
Aroclor 1232	.013	.025	ug/L	<MDL	
Aroclor 1242	.013	.025	ug/L	<MDL	
Aroclor 1248	.013	.025	ug/L	<MDL	
Aroclor 1254	.013	.025	ug/L	<MDL	
Aroclor 1260	.013	.025	ug/L	<MDL	

MB:WG88423-6 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	

KCSlip4 58582
SEA424881

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/09/06 02:37
Run ID: R117208 Workgroup: WG88423 (BL#670 PCBLL)

MB:WG88423-6 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 1248	.025	.05	ug/L	<MDL	
Aroclor 1254	.025	.05	ug/L	<MDL	
Aroclor 1260	.025	.05	ug/L	<MDL	

KCSlip4 58583
SEA424882

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/09/06 02:37
Run ID: R117208 Workgroup: WG88423 (BL#670 PCBLL)

Sample #	Decachlorobiphenyl-1	2,4,5,6-Tetrachloro-m-xylene
(Lab Limits)	12-158	10-118
L40468-1	0 *	53
L40468-2	0 *	60
L40468-3	0 *	65
L40468-4	0 *	62
L40468-5	0 *	61
L40479-1	72	40
WG88423-1	89	17
WG88423-2	179 *	51
WG88423-3	90	27
WG88423-4	89	15
WG88423-5	88	24
WG88423-6	90	21

KCSlip4 58584
SEA424883

Acetone Lot #064335

$MeCl_2$ Lot # 332

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS

TRACE ORGANICS LABORATORY

5/24/06 MeCL2 Lot # ~~670~~

QC BATCH NO.: BL # 670

PH PAH SOURCE / PCB LL vs SPE

EPA SW-846 EXTRACTION METHOD:

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

WORKGROUP NO: PHPAHSOURCE = WG88422; PCBLL = WG88423

BNA SURROGATE SPIKE: 1315 + 1205(DMCs)

BNA MATRIX SPIKE: 1246

PCB Field Sur = 1217

PCB House Sur = 1216

PCB MS LL = 1261

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 10/04/06	WG88422-1 WG88423-1	QC	SB		6	4000	1205-25 1315-100 1216-100 1217-100 1261-100 1246-50	1.0	JG JG	10/23/06 11/01/06	20 ml MeOH SPE Lot B40417	11.8
	WG88422-2 WG88423-2	QC	MB		6	4000	1205-25 1315-100 1216-100 1217-100	1.0	JG JG	JG 10/23/06 11/01/06	20 ml MeOH SPE Lot B40417	14.9*
	WG88422-3 WG88423-3	QC	MB		6	2000		1.0	JG JG	10/23/06 11/01/06	10 ml MeOH SPE Lot B40417	6.0
	L40479-1	423589-090-001	BWR-BK-092706-092706		6	2000		1.0	JG JG	10/23/06 11/01/06	10 ml MeOH SPE Lot B40417	—
	L40468-2		CER-01-080106-092806		6	2770	1205-25 1315-100 1216-100	1.0	JG JG	10/23/06 11/01/06	* 15 ml MeOH JG 10/04/06 * Std 1205 spiked pre-deployment	10.8
10/06/06	L40468-1		DZ-01-080106-092806		6	3200 ~~3300~~	1205-25 1315-100 1216-100	1.0	JG JG	10/23/06 11/01/06	* 500 ml sample discarded after spiking * Std 1205 spiked pre-deployment samples L40468-1,2 processed with SPE Lot B40417 L40468-1 20 ml MeOH	37.6
JG 10/05/06	WG88422-4 WG88423-4	QC	SB		6	4000	1205-25 1315-100 1216-100 1217-100 1261-100 1246-50	1.0	JG JG	10/23/06 11/01/06	20 ml MeOH SPE Lot ~~40417~~ B40417 (JG 10/06/06)	12.8
	WG88422-5 WG88423-5	QC	MB		6	4000	1205-25 1315-100 1216-100 1217-100	1.0	JG JG	10/23/06 11/01/06	20 ml MeOH SPE Lot B40417	18.9
	L40468-4	423589-090-001	SPCC-01-080106-092806		6	2990	1205-25 1315-100 1216-100	1.0	JG JG	10/23/06 11/01/06	15 ml MeOH SPE Lot B40417 * Std 1205 spiked pre-deployment	13.9
	L40468-3		KCDA-01-080106-092806		6	3100		1.0	JG JG	10/23/06 11/01/06	15 ml MeOH SPE Lot B40417 * Std 1205 spiked pre-deployment	13.3
	L40468-5		SPCC-02-080106-092806		8	1650		1.0	JG JG	10/23/06 11/01/06	15 ml MeOH to total sample (3080 ml) * Std 1205 spiked pre-deployment Total vol for L40468-5 = 3080 ml SPE Lot B40417 tot vol = 1650 ml fraction.	50.0
JG 10/06/06	L40468-5	423589-090-001	SPCC-02-080106-092806		6	1430	1205-25 1315-100 1216-100	1.0*	JG JG	10/23/06 11/01/06	Initial pH = 8. pH adjusted to 6 via ~ 1.0 ml conc HCl See below	17.1
	WG88422-6 WG88423-6	QC	MB		6	2000	1205-25 1315-100 1216-100 1217-100	1.0	JG JG	10/23/06 11/01/06	volume listed above (3080 ml) * 10 ml MeOH SPE Lot C03N14	8.7

* Sample L40468-5 vol = 1430 ml fraction processed with SPE Lot C03N14.

KCSlip4 58585

SEA424884

Data File Name	Sample Name	Date Acquired	Vial Numbe	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptophos (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	11/1/2006 11:33	1	0	1										S:\MSDCHEM\1\DATA\061101\
BLANK-01.D	blank	11/1/2006 12:09	2	0	1										S:\MSDCHEM\1\DATA\061101\
PCB-01.D	1218D 1016/1260 500/50	11/1/2006 12:46	3	0	1	12.612	485219531	19.649	820049369	16.737	80170065	26.608	84088020		S:\MSDCHEM\1\DATA\061101\
PCB-02.D	1209.2 1248 500/50	11/1/2006 13:23	4	0	1	12.614	575457559	19.651	975159273	16.737	97451200	26.609	102141256		S:\MSDCHEM\1\DATA\061101\
PCB-03.D	1210.1 1254 500/50	11/1/2006 13:59	5	0	1	12.614	537314511	19.651	871344497	16.739	89248160	26.610	93981700		S:\MSDCHEM\1\DATA\061101\
PCB-04.D	1208.1 1221 500/50	11/1/2006 14:36	6	0	1	12.614	488034749	19.653	801018507	16.739	82636209	26.609	88678488		S:\MSDCHEM\1\DATA\061101\
PCB-05.D	1207.1 1232 500/50	11/1/2006 15:13	7	0	1	12.615	468809379	19.653	771662147	16.739	77084877	26.608	78999283		S:\MSDCHEM\1\DATA\061101\
PCB-06.D	1208.1 1242 500/50	11/1/2006 15:49	8	0	1	12.615	476507181	19.654	785352287	16.737	78363131	26.611	81558568		S:\MSDCHEM\1\DATA\061101\
WG88423-1.D	SB	11/1/2006 16:26	9	4000	1	12.615	452330835	19.655	741909970	16.736	74448015	26.609	80353024	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
WG88423-2.D	MB	11/1/2006 17:03	10	4000	1	12.615	454633205	19.654	750461350	16.738	75281423	26.607	80756316	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
WG88423-3.D	MB	11/1/2006 17:39	11	2000	1	12.615	485541556	19.653	744872821	16.738	74140706	26.605	78983833	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
WG88423-4.D	SBD	11/1/2006 18:16	12	4000	1	12.613	455864899	19.653	759642499	16.737	75786271	26.608	79113726	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
WG88423-5.D	MB	11/1/2006 18:53	13	4000	1	12.617	455374836	19.655	749946098	16.737	74696859	26.607	79126261	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
WG88423-6.D	MB	11/1/2006 19:29	14	2000	1	12.615	458515929	19.655	753596917	16.737	73568394	26.607	79354433	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
L40468-1.D	L40468-1	11/1/2006 20:05	15	3200	1	12.619	420744771	19.668	696176116	16.738	68284458	26.615	76890047	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
L40468-2.D	L40468-2	11/1/2006 20:42	16	2770	1	12.619	386381333	19.665	659755832	16.737	66676927	26.613	78658156	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
L40468-3.D	L40468-3	11/1/2006 21:19	17	3100	1	12.618	373988295	19.663	623778140	16.738	67695870	26.610	76739762	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
L40468-4.D	L40468-4	11/1/2006 21:55	18	2990	1	12.618	372749920	19.663	633709733	16.738	65001054	26.612	78030152	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
PCB-07.D	1218D 1016/1260 500/50	11/1/2006 22:32	3	0	1	12.618	435861870	19.657	744368750	16.738	77940385	26.607	99305784		S:\MSDCHEM\1\DATA\061101\
PCB-08.D	1209.2 1248 500/50	11/1/2006 23:09	4	0	1	12.617	558689199	19.657	895982157	16.736	97436315	26.604	105561046		S:\MSDCHEM\1\DATA\061101\
L40468-5.D	L40468-5	11/1/2006 23:46	19	1650	1	12.618	406800420	19.663	698260048	16.737	70936002	26.610	83398707	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
L40479-1.D	L40479-1	11/2/2006 12:22	20	2000	1	12.617	403557589	19.654	686315661	16.735	70256620	26.603	90207769	BL670, PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\061101\
PCB-09.D	1218D 1016/1260 500/50	11/2/2006 12:59	3	0	1	12.616	468907663	19.654	795740857	16.736	83363585	26.604	87335849		S:\MSDCHEM\1\DATA\061101\
PCB-10.D	1210.1 1254 500/50	11/2/2006 1:36	5	0	1	12.617	511602587	19.655	848553298	16.736	89411200	26.603	95130683		S:\MSDCHEM\1\DATA\061101\
					Ave.	12.616	459640364	19.656	784721860	16.737	77720853	26.608	84925958		
					Std. Dev.	0.002	54253811	0.005	84535144	0.001	9116244	0.003	8095169		
					%RSD		12%		11%		12%		10%		

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SEA424885

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-1	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	SB	Work Group:	WG88423	Rec. Date: 06-OCT-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	.0646	ug/L		.013	.025	
Aroclor 1221		ug/L	<MDL	.013	.025	
Aroclor 1232		ug/L	<MDL	.013	.025	
Aroclor 1242		ug/L	<MDL	.013	.025	
Aroclor 1248		ug/L	<MDL	.013	.025	
Aroclor 1254		ug/L	<MDL	.013	.025	
Aroclor 1260	.0568	ug/L		.013	.025	
Decachlorobiphenyl	.0223	ug/L		.0013	.0025	
2,4,5,6-Tetrachloro-m-xylene	.00426	ug/L		.0013	.0025	
Amount Analyzed	4000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	89	12-158
2,4,5,6-Tetrachloro-m-xylene	17	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-2	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	MB	Work Group:	WG88423	Rec. Date: 06-OCT-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	.013	.025	
Aroclor 1221		ug/L	<MDL	.013	.025	
Aroclor 1232		ug/L	<MDL	.013	.025	
Aroclor 1242		ug/L	<MDL	.013	.025	
Aroclor 1248		ug/L	<MDL	.013	.025	
Aroclor 1254		ug/L	<MDL	.013	.025	
Aroclor 1260		ug/L	<MDL	.013	.025	
Decachlorobiphenyl	.0447	ug/L		.0013	.0025	
2,4,5,6-Tetrachloro-m-xylene	.0127	ug/L		.0013	.0025	
Amount Analyzed	4000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	179 *	12-158
2,4,5,6-Tetrachloro-m-xylene	51	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-3	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	MB	Work Group:	WG88423	Rec. Date: 06-OCT-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	.0452	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.0133	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/file a/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	90	12-158
2,4,5,6-Tetrachloro-m-xylene	27	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-4	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	SBD	Work Group:	WG88423	Rec. Date: 06-OCT-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	.0615	ug/L		.013	.025	
Aroclor 1221		ug/L	<MDL	.013	.025	
Aroclor 1232		ug/L	<MDL	.013	.025	
Aroclor 1242		ug/L	<MDL	.013	.025	
Aroclor 1248		ug/L	<MDL	.013	.025	
Aroclor 1254		ug/L	<MDL	.013	.025	
Aroclor 1260	.05	ug/L		.013	.025	
Decachlorobiphenyl	.0221	ug/L		.0013	.0025	
2,4,5,6-Tetrachloro-m-xylene	.00378	ug/L		.0013	.0025	
Amount Analyzed	4000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	89	12-158
2,4,5,6-Tetrachloro-m-xylene	15	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-5	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	MB	Work Group:	WG88423	Rec. Date: 06-OCT-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	.013	.025	
Aroclor 1221		ug/L	<MDL	.013	.025	
Aroclor 1232		ug/L	<MDL	.013	.025	
Aroclor 1242		ug/L	<MDL	.013	.025	
Aroclor 1248		ug/L	<MDL	.013	.025	
Aroclor 1254		ug/L	<MDL	.013	.025	
Aroclor 1260		ug/L	<MDL	.013	.025	
Decachlorobiphenyl	.022	ug/L		.0013	.0025	
2,4,5,6-Tetrachloro-m-xylene	.00603	ug/L		.0013	.0025	
Amount Analyzed	4000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO53/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	88	12-158
2,4,5,6-Tetrachloro-m-xylene	24	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: WG88423-6	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R117208	Col. Date:
	Locator:	MB	Work Group:	WG88423	Rec. Date: 06-OCT-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	.0449	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.0105	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	90	12-158
2,4,5,6-Tetrachloro-m-xylene	21	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#:	L40468-1	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R117208	Col. Date:	28-SEP-06
		Locator:	DZ	Work Group:	WG88423	Rec. Date:	28-SEP-06
		Site:	METRO	QC Type:		Due Date:	28-OCT-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.016	.0313	
Aroclor 1221		ug/L	<MDL	.016	.0313	
Aroclor 1232		ug/L	<MDL	.016	.0313	
Aroclor 1242		ug/L	<MDL	.016	.0313	
Aroclor 1248		ug/L	<MDL	.016	.0313	
Aroclor 1254	.0444	ug/L		.016	.0313	
Aroclor 1260	.0351	ug/L		.016	.0313	
Decachlorobiphenyl		ug/L	<MDL	.0016	.00313	
2,4,5,6-Tetrachloro-m-xylene	.0164	ug/L		.0016	.00313	
Amount Analyzed	3200	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
Decachlorobiphenyl	0	*	12-158
2,4,5,6-Tetrachloro m-xylene	53		10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#:	L40468-2	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R117208	Col. Date:	28-SEP-06
		Locator:	CER	Work Group:	WG88423	Rec. Date:	28-SEP-06
		Site:	METRO	QC Type:		Due Date:	28-OCT-06
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.018	.0361	
Aroclor 1221		ug/L	<MDL	.018	.0361	
Aroclor 1232		ug/L	<MDL	.018	.0361	
Aroclor 1242		ug/L	<MDL	.018	.0361	
Aroclor 1248		ug/L	<MDL	.018	.0361	
Aroclor 1254		ug/L	<MDL	.018	.0361	
Aroclor 1260	.023	ug/L	<RDL	.018	.0361	
Decachlorobiphenyl		ug/L	<MDL	.0018	.00361	
2,4,5,6-Tetrachloro-m-xylene	.0217	ug/L		.0018	.00361	
Amount Analyzed	2770	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	0 *	12-158
2,4,5,6-Tetrachloro-m-xylene	60	10-118

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: L40468-3	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R117208		Col. Date:	28-SEP-06
	Locator: KCIA	Work Group: WG88423		Rec. Date:	28-SEP-06
	Site: METRO	QC Type:		Due Date:	28-OCT-06
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.016	.0323	
Aroclor 1221		ug/L	<MDL	.016	.0323	
Aroclor 1232		ug/L	<MDL	.016	.0323	
Aroclor 1242		ug/L	<MDL	.016	.0323	
Aroclor 1248		ug/L	<MDL	.016	.0323	
Aroclor 1254	.0364	ug/L		.016	.0323	
Aroclor 1260	.029	ug/L	<RDL	.016	.0323	
Decachlorobiphenyl		ug/L	<MDL	.0016	.00323	
2,4,5,6-Tetrachloro-m-xylene	.021	ug/L		.0016	.00323	
Amount Analyzed	3100	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS1/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	0 *	12-158
2,4,5,6-Tetrachloro-m-xylene	65	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: L40468-4	Matrix:	STORM WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R117208	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88423	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.017	.0334	
Aroclor 1221		ug/L	<MDL	.017	.0334	
Aroclor 1232		ug/L	<MDL	.017	.0334	
Aroclor 1242		ug/L	<MDL	.017	.0334	
Aroclor 1248		ug/L	<MDL	.017	.0334	
Aroclor 1254		ug/L	<MDL	.017	.0334	
Aroclor 1260		ug/L	<MDL	.017	.0334	
Decachlorobiphenyl		ug/L	<MDL	.0017	.00334	
2,4,5,6-Tetrachloro-m-xylene	.0209	ug/L		.0017	.00334	
Amount Analyzed	2990	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	0 *	12-158
2,4,5,6-Tetrachloro-m-xylene	62	10-118

KCSlip4 58596

SEA424895

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#: L40468-5	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R117208		Col. Date:	28-SEP-06
	Locator: SPCC	Work Group: WG88423		Rec. Date:	28-SEP-06
	Site: METRO	QC Type:		Due Date:	28-OCT-06
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.03	.0606	
Aroclor 1221		ug/L	<MDL	.03	.0606	
Aroclor 1232		ug/L	<MDL	.03	.0606	
Aroclor 1242		ug/L	<MDL	.03	.0606	
Aroclor 1248		ug/L	<MDL	.03	.0606	
Aroclor 1254	.031	ug/L	<RDL	.03	.0606	
Aroclor 1260		ug/L	<MDL	.03	.0606	
Decachlorobiphenyl		ug/L	<MDL	.003	.00606	
2,4,5,6-Tetrachloro-m-xylene	.0372	ug/L		.003	.00606	
Amount Analyzed	1650	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	0 *	12-158
2,4,5,6-Tetrachloro-m-xylene	61	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 11/09/06 03:56 - Data Source: ELD

Sample#:	L40479-1	Matrix:	BLANK WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R117208	Col. Date:	27-SEP-06
		Locator:	BWR	Work Group:	WG88423	Rec. Date:	27-SEP-06
		Site:	METRO	QC Type:		Due Date:	27-OCT-06
		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	.0361	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.0202	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						01-NOV-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS1/files/gc/wg88423.txt
Instrument ID						HP6890ECD-G
Prep Date						05-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	72	12-158
2,4,5,6-Tetrachloro-m-xylene	40	10-118

A/M
10/18/06

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Oct 10 2006, 10:59 am

Work Group: WG88463 (PHPAHWIPE) for Department: 7 - Organics, Trace

Created: 10-OCT-06 PrepDate: 10-OCT-06 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	Uh	Workdate	Duedate
L40468-10	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-6	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-7	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-8	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-9	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40479-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	11-OCT-06	27-OCT-06
WG88463-1	MB			S	PHPAHWIPE	OTHR SOLID	WKGP	U	10-OCT-06	

Comments:

L40468-10	wipes
L40468-6	wipes
L40468-7	wipes
L40468-8	wipes
L40468-9	wipes
L40479-2	wipe blank
WG88463-1	EXTRACTION BLANK 10-OCT-06

KCSlip4 58599

SEA424898

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 10/11/06 08:17
Run ID: R116662 Workgroup: WG88463 (PHPAHWIPE)

A/m 10/18/06

MB:WG88463-1 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	.2	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	<MDL	
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 = .6 "B"

KCSlip4 58600
SEA424899

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 10/11/06 08:17
Run ID: R116662 Workgroup: WG88463 (PHPAHWIPE)

Sample #	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	30-115	18-137
L40468-6	32	123
L40468-7	13 *	117
L40468-8	87	135
L40468-9	46	134
L40468-10	93	131
L40479-2	38	136
WG88463-1	2 *	126

KCSlip4 58601
SEA424900

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

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

WORKGROUP NO.: WG88463 -PAH PINTHWIPE WG88464 -PCBWIPE

EPA SW-846 EXTRACTION METHOD:

BNA SURROGATE SPIKE I.D.#: Coprostanol:

SONICATION EPA 3550 SOXHLET EPA 3540

BNA MATRIX SPIKE I.D.#: 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
10/10/06	WG88463-1		Extraction			50 BNA	1mL	AL	MO	10/10/06	Samples conc
	WG88464-1		BLANK			25 PCB					to 1 mL
	L40475-2		FUNNEL BLANK								split for
	L40468-2		FUNNEL WIPES								BNA/PCB
DOUBLED SPIKED			surrogates (100 uL)								0.5 mL BNA
	-8										0.5 mL PCB
	-9										
	-10										

(1) Filter paper MeCl2 rinsed

(2) Funnels wiped X2 with MeCl2 soaked filter paper

(3) BNA/PCB surrogates added / samples extracted X3 with 50 mLs MeCl2 on sonic bath and conc to 1 mL

(4) 0.5 BNA analysis / 0.5 mL exchanged to hex for AL cleanup and conc to 0.5 mL for PCB analysis

KCSlip4 58602

SEA424901

```
   Sequence Name: C:\MSDChem\1\sequence\061010.S
         Comment:
        Operator:
       Data Path: C:\MSDChem\1\data\061010\
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      On A Barcode Mismatch
     (X) Full Method             (X) Inject Anyway
     ( ) Reprocessing Only       ( ) 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-01  8270B1    MECL2
 5)  Blank           6
     Datafile          WG88463-1
     Method            8270B1
 6)  Blank           7  L40479-2  8270B1    L40479-2 FUNNEL WIPE BLANK
 7)  Sample          8  L40468-6  8270B1    L40468-6 FUNNEL WIPE
 8)  Sample          9  L40468-7  8270B1    L40468-7 FUNNEL WIPE
 9)  Sample         10  L40468-8  8270B1    L40468-8 FUNNEL WIPE
10)  Sample         11  L40468-9  8270B1    L40468-9 FUNNEL WIPE
11)  Sample         12
     Datafile          L40468-10
     Method            8270B1
12)  Tune           3  DFTPP-2   DFTPP     10 NG/UL DFTPP MIX
13)  Sample         4  CCALI-02  8270B1    SS#1263 D 6.00 PPM BNA STD
14)  Sample         5  CEDC-02   8270BEDC  SS#1190 B 10.0 PPM EDC STD
15)  Inst. Blk      2  BLANK-02  8270B1    MECL2
```


KCSlip4 58603

SEA424902

Batch: \\orgizmo\EE\chem\6890j.i\061010.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	10-OCT-2006 11:23	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.199	458880	DFTPP.m		M.Doubrava
2	CCALI-01	10-OCT-2006 11:56	SDGa0282	SDGa02		SS#1263 D 6.00 PPM BNA STD	SOIL	0.000	1.0	8.411	621679	8270b1.m	27-SEP-2006	M.Doubrava
3	CEDC-01	10-OCT-2006 12:42	SDGa0962	SDGa09		SS#1190 B 10.0 PPM EDC STD	WATER	0.000	1.0	8.399	850578	8270BEDC.m	15-DEC-2005	M.Doubrava
4	BLANK-01	10-OCT-2006 13:17	SDGa0282	SDGa02		MECL2	SOIL	0.000	1.0	0.000	0	8270B1.m	27-SEP-2006	M.Doubrava
5	WG88463-1	10-OCT-2006 14:03	WG88463	WIPE		WG88463-1 MB	SOIL	1.000	1.0	8.420	581163	8270b1.m	27-SEP-2006	M.Doubrava
6	L40479-2	10-OCT-2006 14:48	WG88463	WIPE		L40479-2 FUNNEL WIPE BLANK	SOIL	1.000	1.0	8.420	484217	8270b1.m	27-SEP-2006	M.Doubrava
7	L40468-6	10-OCT-2006 15:33	WG88463	WIPE		L40468-6 FUNNEL WIPE	SOIL	1.000	1.0	8.420	546371	8270b1.m	27-SEP-2006	M.Doubrava
8	L40468-7	10-OCT-2006 16:18	WG88463	WIPE		L40468-7 FUNNEL WIPE	SOIL	1.000	1.0	8.420	523189	8270b1.m	27-SEP-2006	M.Doubrava
9	L40468-8	10-OCT-2006 17:04	WG88463	WIPE		L40468-8 FUNNEL WIPE	SOIL	1.000	1.0	8.420	357382	8270b1.m	27-SEP-2006	M.Doubrava
10	L40468-9	10-OCT-2006 17:49	WG88463	WIPE		L40468-9 FUNNEL WIPE	SOIL	1.000	1.0	8.420	512717	8270b1.m	27-SEP-2006	M.Doubrava
11	L40468-10	10-OCT-2006 18:34	WG88463	WIPE		L40468-10 FUNNEL WIPE	SOIL	1.000	1.0	8.420	573059	8270b1.m	27-SEP-2006	M.Doubrava
12	DFTPP-2	10-OCT-2006 19:19	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.195	296448	DFTPP.m		M.Doubrava
13	CCALI-02	10-OCT-2006 19:53	SDGa0282	SDGa02		SS#1263 D 6.00 PPM BNA STD	SOIL	0.000	1.0	8.411	600431	8270b1.m	27-SEP-2006	M.Doubrava
14	CEDC-02	10-OCT-2006 20:39	SDGa0962	SDGa09		SS#1190 B 10.0 PPM EDC STD	WATER	0.000	1.0	8.525	2212	8270BEDC.m	15-DEC-2005	M.Doubrava
15	BLANK-02	10-OCT-2006 21:14	SDGa0282	SDGa02		MECL2	SOIL	0.000	1.0	0.000	0	8270B1.m	27-SEP-2006	M.Doubrava

Samples: 8 **QC Samples + Misc.:** 4 **ContinuingCals:** 1 **Tunes:** 2 **Calibrations:** 0

Trace Organics Data Anomaly Form

Date(s) Occurred: *06/10/01*

WG #(s): *WG88463*

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

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

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

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. WG88463-1 had a repotable level of Di-N-Butly Phthalate in the method blank. All samples were flagged "B" using the 3 times rule in accordance with project QA/QC protocols

8. L40468-7 was doubled spiked with surrogate at 100ul instead of 50 ul. The spike recovery amount was corrected during data reduction. WG88463-1 and L40468-7 had 2-Fluorobiphenyl recovered less than the lab limit of 30%. The D14-Terphenyl reoceries were all within QA/QC limits.

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: *B*
- ☐ 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: *1. The low level phthalate contamination is consistant with past workgroups. Since the project goal is detection of low level PAHs and Phthalates, the phthalate levels at or near the contamination level could be biased. 2. The low recoveries of the surrogate 2-fluorobiphenyl could be attributed to concentrating to fast during the K-D or N-EVAP step of the extraction. It is possible the lighter or front end PAHs could be biased low, however the results are comparable to previous workgroups*

	Signatures	Signature Dates
Reported By: *M. Doubrava*		10/11/06
Reviewer:		
Supervisor: *Dana Walker*	Dana M. Walker	10/16/06
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

October 11, 2006
ORGJ_DAF061010WG88463

KCSlip4 58607

SEA424906

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: WG88463-1	Matrix: OTHR SOLID	List Type:	ORPHPAHWIPE		
	Project:	Run ID:	R116662	Col. Date:	
	Locator: MB	Work Group:	WG88463	Rec. Date:	10-OCT-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	.2	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		ug	<MDL	.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	.024	ug	<RDL	.02	.04	
d14-Terphenyl	1.58	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88463-1.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	2 *	30-115
d14-Terphenyl	126	18-137

KCSlip4 58608

SEA424907

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#:	L40479-2	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE		
		Project:	423589-090-1	Run ID:	R116662	Col. Date:	27-SEP-06
		Locator:	BWR	Work Group:	WG88463	Rec. Date:	27-SEP-06
		Site:	METRO	QC Type:		Due Date:	27-OCT-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	.299	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	.249	ug		.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	.471	ug		.02	.04	
d14-Terphenyl	1.7	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40479-2.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	38	30-115
d14-Terphenyl	136	18-137

KCSlip4 58609

SEA424908

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: L40468-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R116662	Col. Date: 28-SEP-06
	Locator:	DZ	Work Group:	WG88463	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-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	.119	ug		.05	.1	
Phenanthrene	.0843	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.702	ug		.05	.1	
Fluoranthene	.101	ug		.01	.02	
Pyrene	.0836	ug		.01	.02	
Benzyl Butyl Phthalate	.442	ug		.05	.1	
Benzo(a)anthracene	.0405	ug		.01	.02	
Chrysene	.0712	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.866	ug		.05	.1	
Di-N-Octyl Phthalate	.683	ug		.05	.1	
Benzo(b)fluoranthene	.0834	ug		.02	.04	
Benzo(k)fluoranthene	.066	ug		.02	.04	
Benzo(a)pyrene	.0993	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.058	ug		.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene	.0911	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.403	ug		.02	.04	
d14-Terphenyl	1.54	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-6.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	32	30-115
d14-Terphenyl	123	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: L40468-7	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R116662	Col. Date: 28-SEP-06
	Locator:	CER	Work Group:	WG88463	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-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	.19	ug		.05	.1	
Phenanthrene	.0785	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	1.17	ug		.05	.1	
Fluoranthene	.0548	ug		.01	.02	
Pyrene	.0423	ug		.01	.02	
Benzyl Butyl Phthalate	.434	ug		.05	.1	
Benzo(a)anthracene	.025	ug		.01	.02	
Chrysene	.0335	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.706	ug		.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.0403	ug		.02	.04	
Benzo(k)fluoranthene	.021	ug	<RDL	.02	.04	
Benzo(a)pyrene	.059	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.024	ug	<RDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene	.0458	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.334	ug		.02	.04	
d14-Terphenyl	2.92	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-7.rp
Instrument ID						6890j i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	13 *	30-115
d14-Terphenyl	117	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: L40468-8	Matrix:	CTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R116662	Col. Date: 28-SEP-06
	Locator:	KCIA	Work Group:	WG88463	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-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	.0246	ug		.01	.02	
Diethyl Phthalate	.241	ug		.05	.1	
Phenanthrene	.45	ug		.01	.02	
Anthracene	.0313	ug		.01	.02	
Di-N-Butyl Phthalate	1.82	ug		.05	.1	
Fluoranthene	1.12	ug		.01	.02	
Pyrene	.801	ug		.01	.02	
Benzyl Butyl Phthalate	.413	ug		.05	.1	
Benzo(a)anthracene	.289	ug		.01	.02	
Chrysene	.616	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	1	ug		.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.683	ug		.02	.04	
Benzo(k)fluoranthene	.521	ug		.02	.04	
Benzo(a)pyrene	.466	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.4	ug		.02	.04	
Dibenzo(a,h)anthracene	.108	ug		.02	.04	
Benzo(g,h,i)perylene	.482	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	1.09	ug		.02	.04	
d14-Terphenyl	1.69	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-8.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	87	30-115
d14-Terphenyl	135	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: L40468-9	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R116662	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88463	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-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	.204	ug		.05	.1	
Phenanthrene	.0622	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	1.34	ug		.05	.1	
Fluoranthene	.0695	ug		.01	.02	
Pyrene	.065	ug		.01	.02	
Benzyl Butyl Phthalate	.56	ug		.05	.1	
Benzo(a)anthracene	.0338	ug		.01	.02	
Chrysene	.0525	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	1.18	ug		.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.0538	ug		.02	.04	
Benzo(k)fluoranthene	.029	ug	<RDL	.02	.04	
Benzo(a)pyrene	.0724	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.039	ug	<RDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene	.0575	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.579	ug		.02	.04	
d14-Terphenyl	1.67	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L40468-9.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	46	30-115
d14-Terphenyl	134	18-137

KCSlip4 58613

SEA424912

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/18/06 07:27 - Data Source: ELD

Sample#: L40468-10	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R116662	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88463	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-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	.156	ug		.05	.1	
Phenanthrene	.0479	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.982	ug		.05	.1	
Fluoranthene	.0466	ug		.01	.02	
Pyrene	.0425	ug		.01	.02	
Benzyl Butyl Phthalate	.398	ug		.05	.1	
Benzo(a)anthracene	.0287	ug		.01	.02	
Chrysene	.0304	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.736	ug		.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.034	ug	<RDL	.02	.04	
Benzo(k)fluoranthene	.026	ug	<RDL	.02	.04	
Benzo(a)pyrene	.0637	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.029	ug	<RDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene	.0459	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	1.16	ug		.02	.04	
d14-Terphenyl	1.63	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						10-OCT-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-10.rp
Instrument ID						6890j.i
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	93	30-115
d14-Terphenyl	131	18-137

AM 10/23/06

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Oct 10 2006, 11:01 am

Work Group: WG88464 (PCBWIPE) for Department: 7 - Organics, Trace

Created: 10-OCT-06 PrepDate: 10-OCT-06 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L40468-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40468-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	12-OCT-06	28-OCT-06
L40479-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	11-OCT-06	27-OCT-06
WG88464-1	MB		S		PCBWIPE	OTHR SOLID	WKGP	U	10-OCT-06	

Comments:

L40468-10	wipes
L40468-6	wipes
L40468-7	wipes
L40468-8	wipes
L40468-9	wipes
L40479-2	wipe blank
WG88464-1	EXTRACTION BLANK 10-OCT-06

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 10/23/06 11:23
Run ID: R116821 Workgroup: WG88464 (PCBWIPE)

MB:WG88464-1 Matrix: OTHR SOLID Listtype: ORPCBWIPE Method: 8270D-WIPETEST Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	50	100	ug	<MDL	
Aroclor 1221	50	100	ug	<MDL	
Aroclor 1232	50	100	ug	<MDL	
Aroclor 1242	50	100	ug	<MDL	
Aroclor 1248	50	100	ug	<MDL	
Aroclor 1254	50	100	ug	<MDL	
Aroclor 1260	50	100	ug	<MDL	

KCSlip4 58616
SEA424915

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 10/23/06 11:23
Run ID: R116821 Workgroup: WG88464 (PCBWIPE)

Sample #	Decachlorobiphenyl
(Lab Limits)	25-150
L40468-6	78
L40468-7	88
L40468-8	69
L40468-9	73
L40468-10	73
L40479-2	66
WG88464-1	75

KCSlip4 58617
SEA424916

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

QC BATCH NO.: BS 1:1 Acetone:MeCl2 WORKGROUP NO.: WG88463 -PAH PHTHLWIPE WG88464 -PCBWIPE

EPA SW-846 EXTRACTION METHOD: BNA SURROGATE SPIKE I.D.#: Coprostanol:

SONICATION EPA 3550 SOXHLET EPA 3540 BNA MATRIX SPIKE I.D.#: 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
10/10/06	WG88463-1		Extraction			50 BNA	1mL	AL	MW	10/10/06	Samples conc
	WG88464-1		BLANK			25 PCB					to 1 mL
	L40475-2		FUNNEL BLANK								split for
	L40468-4		FUNNEL WIPES								BNA/PCB
DOUBLED	Sum -7		(100 mL)								0.5 mL BNA
	-8										0.5 mL PCB
	-9										
	-10										

(1) Filter paper MeCl2 rinsed

(2) Funnels wiped X2 with MeCl2 soaked filter paper

(3) BNA/PCB surrogates added / samples extracted 1, 3 with 50 mL MeCl2 on sonic bath and conc to 1 mL

(4) 0.5 BNA analysis / 0.5 mL exchanged to hex for AL cleanup and conc to 0.5 mL for PCB analysis

PCB Surrogate = 1.25 µg/mL x .025 mL = 31.25 ng

KCSlip4 58618

SEA424917

Trace Organics Data Anomaly Form

Date(s) Occurred: *10/19/2006*

WG #(s): *WG88464*

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

Project #(s): *423589*

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

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: *12. Surrogate recovery for DCB on the front column is slightly low (83%) in PCB-08. Aroclor 1260 recovery on the front column is low (82%) in PCB-07.*

IV. Type of Project Anomaly

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:21 - Data Source: ELD

Sample#: L40468-10	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R116821	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88464	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	22.8	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROSJ/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	73	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:21 - Data Source: ELD

Sample#: L40479-2	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R116821	Col. Date: 27-SEP-06
	Locator:	BWR	Work Group:	WG88464	Rec. Date: 27-SEP-06
	Site:	METRO	QC Type:		Due Date: 27-OCT-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	20.6	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	66	25-150

KCSlip4 58621

SEA424920

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:21 - Data Source: ELD

Sample#:	L40468-6	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE		
		Project:	423589-090-1	Run ID:	R116821	Col. Date:	28-SEP-06
		Locator:	DZ	Work Group:	WG88464	Rec. Date:	28-SEP-06
		Site:	METRO	QC Type:		Due Date:	28-OCT-06
		Method Code:	8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	24.5	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	78	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:21 - Data Source: ELD

Sample#:	L40468-7	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE		
		Project:	423589-090-1	Run ID:	R116821	Col. Date:	28 SEP-06
		Locator:	CER	Work Group:	WG88464	Rec. Date:	28-SEP-06
		Site:	METRO	QC Type:		Due Date:	28-OCT-06
		Method Code:	8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	27.6	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	88	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:22 - Data Source: ELD

Sample#:	L40468-8	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE		
		Project:	423589-090-1	Run ID:	R116821	Col. Date:	28-SEP-06
		Locator:	KCIA	Work Group:	WG88464	Rec. Date:	28-SEP-06
		Site:	METRO	QC Type:		Due Date:	28-OCT-06
		Method Code:	8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	21.5	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	69	25-150

KCSlip4 58624

SEA424923

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:22 - Data Source: ELD

Sample#: L40468-9	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R116821	Col. Date: 28-SEP-06
	Locator:	SPCC	Work Group:	WG88464	Rec. Date: 28-SEP-06
	Site:	METRO	QC Type:		Due Date: 28-OCT-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	22.7	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO93/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	73	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 10/23/06 11:22 - Data Source: ELD

Sample#:	WG88464-1	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE		
		Project:		Run ID:	R116821	Col. Date:	
		Locator:	MB	Work Group:	WG88464	Rec. Date:	10-OCT-06
		Site:	NONE	QC Type:	MB	Due Date:	
		Method Code:	8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	23.3	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						19-OCT-06
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO33/files/gc/wg88464.txt
Instrument ID						HP6890ECD-G
Prep Date						10-OCT-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	75	25-150