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 58627

SEA424926

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:

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

A/M 12/4/06

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	LabLim
Acenaphthylene	.005	.01	ug/L	<MDL	0.125	.0504	40		10-150	0.125	.047	38		10-150	5		10
Dimethyl Phthalate	.005	.01	ug/L	<MDL	0.125	.0331	26		10-150	0.125	.0318	25		10-150	4		10
Fluorene	.005	.01	ug/L	<MDL	0.125	.0614	49		10-150	0.125	.0561	45		10-150	9		10
Diethyl Phthalate	.0075	.015	ug/L	<MDL	0.125	.0541	43		10-150	0.125	.0539	43		10-150	0		10
Phenanthrene	.005	.01	ug/L	<MDL	0.125	.0907	73		10-150	0.125	.0948	76		10-150	4		10
Anthracene	.005	.01	ug/L	<MDL	0.125	.0796	64		10-150	0.125	.0844	68		10-150	6		10
Di-N-Butyl Phthalate	.005	.01	ug/L	.0131	0.125	.139	101		10-150	0.125	.145	98		10-150	3		10
Pyrene	.005	.01	ug/L	<MDL	0.125	.131	105		10-150	0.125	.136	109		10-150	4		10
Benzyl Butyl Phthalate	.005	.01	ug/L	.0075	0.125	.163	125		10-150	0.125	.17	126		10-150	1		10
Benzo(a)anthracene	.005	.01	ug/L	<MDL	0.125	.127	102		10-150	0.125	.128	103		10-150	1		10
Chrysene	.005	.01	ug/L	<MDL	0.125	.125	100		10-150	0.125	.127	102		10-150	2		10
Bis(2-Ethylhexyl)Phthalate	.005	.01	ug/L	.0378	0.125	.16	98		10-150	0.125	.162	89		10-150	10		10
Benzo(b)fluoranthene	.0075	.015	ug/L	<MDL	0.125	.119	95		10-150	0.125	.12	96		10-150	1		10
Benzo(k)fluoranthene	.0075	.015	ug/L	<MDL	0.125	.121	97		10-150	0.125	.117	94		10-150	3		10
Benzo(a)pyrene	.0075	.015	ug/L	<MDL	0.125	.105	84		10-150	0.125	.108	86		10-150	2		10
Indeno(1,2,3-Cd)Pyrene	.0075	.015	ug/L	<MDL	0.125	.0897	72		10-150	0.125	.0872	70		10-150	3		10
Dibenzo(a,h)anthracene	.0075	.015	ug/L	<MDL	0.125	.0909	73		10-150	0.125	.088	70		10-150	4		10
Benzo(g,h,i)perylene	.0075	.015	ug/L	<MDL	0.125	.0864	69		10-150	0.125	.083	66		10-150	4		10

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 58630
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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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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 11/27/06 11:52
Run ID: R117428 Workgroup: WG88422 (BL#670 PHPAHSOURCE)

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 58632
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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)pyren-e
(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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Acetone Lot #064335

$MeCl_2$ Lot #332

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS

TRACE ORGANICS LABORATORY

3/04/06 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

WORKGROUP NO: PCBLL = WG88423

BNA SURROGATE SPIKE: 1315 + 1205 (DMC) PCB Field Surr = 1217

BNA MATRIX SPIKE: 1246 PCB House Surr = 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	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.[illegible]
	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	BWR-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.
3/04/06	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. Samples L40468-(1,2) processed with SPE Lot B40417 L40468-1 20 ml MeOH	9.37
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 ~~4017~~ B40417 (JG 10/06/06)	12.[illegible]
	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.
	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		KCIA-01-080106-092806		6	3100		1.0	JG	10/23/06	15 ml MeOH SPE Lot B40417 * Std 1205 spiked pre-deployment	13.[illegible]
	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. Total vol for L40468-5 = 3080 ml SPE Lot B40417 tot vol = 1650 ml fraction	50
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 note	17.
	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 C03X14	8.[illegible]

* Sample L40468-5 vol = 1430 ml fraction processed with SPE L-L C03X14

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SEA424933

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)
10-31-06 D7	L40468-1	0.1ml	1.0ml	10X	SS#69x200	20µl	20µl
10-31-06 D7	L40468-2	0.1ml	1.0ml	10X	SS#69x200	20µl	20µl
10-31-06 D7	L40468-3	0.1ml	1.0ml	10X	SS#69x200	20µl	20µl
10-31-06 D7	L40468-4	0.1ml	1.0µl	10X	SS#69x200	20µl	20µl
10-31-06 D7	L40468-5	0.1ml	1.0µl	10X	SS#69x200	20µl	20µl

6890n MAINTENANCE LOG

King County Environmental Laboratory

Date & Initials	Maintenance Description

KCSlip4 58635

SEA424934

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
10	L40469-1	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
11	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

Samples: 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

Samples: 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

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

```
        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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SEA424936

```
    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
-----------------------------------------------------------------------
```


KCSlip4 58638

SEA424937

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
(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#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

```
    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
-----------------------------------------------------------------------
```

```
        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
   ---------------------------------------------------------------------
```


KCSlip4 58641

SEA424940

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	.0507	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/files/gcms/WG88422-1.rp
Instrument ID						6890n 1
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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SEA424941

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/file s/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

KCSlip4 58643

SEA424942

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.i
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 58644

SEA424943

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 Pada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG88422-4.rp
Instrument ID						6890n.i
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 58645

SEA424944

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	.316	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	13-141
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	.0853	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

KCSlip4 58648

SEA424947

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	
Chryaene	.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 Pada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40468-2.rp
Instrument ID						6890n.i
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 58649

SEA424948

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/file s/gcms/L40468-3.rp
Instrument ID						6890n.1
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

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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 1
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

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

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 1
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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