

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: MB-21250	SampType: MBLK	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/29/04	Run ID: HPLC INST. C_040730A						
Client ID: ZZZZZ	Batch ID: 21250	TestNo: SW8310		Analysis Date: 7/30/04	SeqNo: 807990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.00300									
Acenaphthylene	ND	0.00150									
Anthracene	ND	0.00030									
Benzo(a)anthracene	ND	0.00009									
Benzo(a)pyrene	ND	0.00012									
Benzo(b)fluoranthene	ND	0.00015									
Benzo(g,h,i)perylene	ND	0.00030									
Benzo(k)fluoranthene	ND	0.00015									
Chrysene	ND	0.00045									
Dibenzo(a,h)anthracene	ND	0.00018									
Fluoranthene	ND	0.00090									
Fluorene	ND	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.00030									
Naphthalene	ND	0.00300									
Phenanthrene	ND	0.00060									
Pyrene	ND	0.00030									
Surr: Terphenyl-d14	0.00925	0	0.01	0	92.5	71.4	126	0	0		

Sample ID: LCS-21250	SampType: LCS	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/29/04	Run ID: HPLC INST. C_040730A						
Client ID: ZZZZZ	Batch ID: 21250	TestNo: SW8310		Analysis Date: 7/30/04	SeqNo: 807988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.0402	0.00300	0.05	0	80.4	55.1	93.1	0	0		
Acenaphthylene	0.0789	0.00150	0.1	0	78.9	63.2	106	0	0		
Anthracene	0.00461	0.00030	0.005	0	92.2	73.6	104	0	0		
Benzo(a)anthracene	0.00412	0.00009	0.005	0	82.4	70.2	98.4	0	0		
Benzo(a)pyrene	0.00436	0.00012	0.005	0	87.2	65.5	99.1	0	0		
Benzo(b)fluoranthene	0.00878	0.00015	0.01	0	87.8	71.1	99.6	0	0		
Benzo(g,h,i)perylene	0.00903	0.00030	0.01	0	90.3	70.4	104	0	0		
Benzo(k)fluoranthene	0.00441	0.00015	0.005	0	88.2	71.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: LCS-21250	SampType: LCS	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/29/04	Run ID: HPLC INST. C_040730A						
Client ID: ZZZZZ	Batch ID: 21250	TestNo: SW8310		Analysis Date: 7/30/04	SeqNo: 807988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	0.00409	0.00045	0.005	0	81.8	70.6	99.3	0	0		
Dibenzo(a,h)anthracene	0.0104	0.00018	0.01	0	104	75.6	110	0	0		
Fluoranthene	0.00858	0.00090	0.01	0	85.8	71.6	100	0	0		
Fluorene	0.00774	0.00030	0.01	0	77.4	54.5	97.6	0	0		
Indeno(1,2,3-cd)pyrene	0.00447	0.00030	0.005	0	89.4	71.6	102	0	0		
Naphthalene	0.0349	0.00300	0.05	0	69.8	43.3	92.6	0	0		
Phenanthrene	0.00444	0.00060	0.005	0	88.8	64.3	93.4	0	0		
Pyrene	0.00379	0.00030	0.005	0	75.8	63.8	88.9	0	0		
Surr: Terphenyl-d14	0.00982	0	0.01	0	98.2	77.5	115	0	0		

Sample ID: LCS DUP-21250	SampType: LCS D	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 7/29/04	Run ID: HPLC INST. C_040730A						
Client ID: ZZZZZ	Batch ID: 21250	TestNo: SW8310		Analysis Date: 7/30/04	SeqNo: 807989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0398	0.00300	0.05	0	79.6	55.1	93.1	0.0402	1.00	21.9	
Acenaphthylene	0.0808	0.00150	0.1	0	80.8	63.2	106	0.0789	2.38	22.7	
Anthracene	0.00466	0.00030	0.005	0	93.2	73.6	104	0.00461	1.08	20	
Benzo(a)anthracene	0.00431	0.00009	0.005	0	86.2	70.2	98.4	0.00412	4.51	18.8	
Benzo(a)pyrene	0.00451	0.00012	0.005	0	90.2	65.5	99.1	0.00436	3.38	19.8	
Benzo(b)fluoranthene	0.00881	0.00015	0.01	0	88.1	71.1	99.6	0.00878	0.341	19	
Benzo(g,h,i)perylene	0.00895	0.00030	0.01	0	89.5	70.4	104	0.00903	0.890	19.4	
Benzo(k)fluoranthene	0.00442	0.00015	0.005	0	88.4	71.9	109	0.00441	0.226	19.2	
Chrysene	0.00423	0.00045	0.005	0	84.6	70.6	99.3	0.00409	3.37	18.2	
Dibenzo(a,h)anthracene	0.0102	0.00018	0.01	0	102	75.6	110	0.0104	1.94	17.6	
Fluoranthene	0.00884	0.00090	0.01	0	88.4	71.6	100	0.00858	2.99	18.1	
Fluorene	0.00816	0.00030	0.01	0	81.6	54.5	97.6	0.00774	5.28	26.9	
Indeno(1,2,3-cd)pyrene	0.00455	0.00030	0.005	0	91	71.6	102	0.00447	1.77	19	
Naphthalene	0.0374	0.00300	0.05	0	74.8	43.3	92.6	0.0349	6.91	30	
Phenanthrene	0.00453	0.00060	0.005	0	90.6	64.3	93.4	0.00444	2.01	20	
Pyrene	0.00391	0.00030	0.005	0	78.2	63.8	88.9	0.00379	3.12	18.9	
Surr: Terphenyl-d14	0.0099	0	0.01	0	99	77.5	115	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: LCS-A040730-2	SampType: LCS1	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/30/04	Run ID: 5971 INST. A_040730D						
Client ID: ZZZZZ	Batch ID: 21306	TestNo: SW8260B		Analysis Date: 7/30/04	SeqNo: 806583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	47.9	2.0	50	0	95.8	77.4	120	0	0		
Toluene	47.9	5.0	50	0	95.8	81.6	118	0	0		
Ethylbenzene	49	5.0	50	0	98	78.5	122	0	0		
Xylenes, Total	96	5.0	100	0	96	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	49.1	0	50	0	98.2	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	88.9	121.2	0	0		
Surr: Toluene-d8	51.1	0	50	0	102	84.1	114.5	0	0		

Sample ID: LCS-A040731-1	SampType: LCS1	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/31/04	Run ID: 5971 INST. A_040731A						
Client ID: ZZZZZ	Batch ID: 21312	TestNo: SW8260B		Analysis Date: 7/31/04	SeqNo: 807114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	43.2	2.0	50	0	86.4	77.4	120	0	0		
Toluene	44.6	5.0	50	0	89.2	81.6	118	0	0		
Ethylbenzene	45.6	5.0	50	0	91.2	78.5	122	0	0		
Xylenes, Total	91	5.0	100	0	91	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	46.2	0	50	0	92.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	51.2	0	50	0	102	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.5	0	50	0	97	88.9	121.2	0	0		
Surr: Toluene-d8	51	0	50	0	102	84.1	114.5	0	0		

Sample ID: LCS-A040802-2	SampType: LCS1	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 8/2/04	Run ID: 5971 INST. A_040802B						
Client ID: ZZZZZ	Batch ID: 21330	TestNo: SW8260B		Analysis Date: 8/2/04	SeqNo: 807962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	46.7	2.0	50	0	93.4	77.4	120	0	0		
Toluene	44.5	5.0	50	0	89	81.6	118	0	0		
Ethylbenzene	47.7	5.0	50	0	95.4	78.5	122	0	0		
Xylenes, Total	92.9	5.0	100	0	92.9	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	47.7	0	50	0	95.4	84.3	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: LCS-A040802-2	SampType: LCS1	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 8/2/04	Run ID: 5971 INST. A_040802B						
Client ID: ZZZZZ	Batch ID: 21330	TestNo: SW8260B		Analysis Date: 8/2/04	SeqNo: 807962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49	0	50	0	98	88.9	121.2	0	0		
Surr: Toluene-d8	49.5	0	50	0	99	84.1	114.5	0	0		

Sample ID: MBLK-A040728-2	SampType: MBLK	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G						
Client ID: ZZZZZ	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	47.4	0	50	0	94.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.3	0	50	0	101	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.8	0	50	0	97.6	88.9	121.2	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	84.1	114.5	0	0		

Sample ID: MBLK-A040730-2	SampType: MBLK	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/30/04	Run ID: 5971 INST. A_040730D						
Client ID: ZZZZZ	Batch ID: 21306	TestNo: SW8260B		Analysis Date: 7/30/04	SeqNo: 806584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	50.5	0	50	0	101	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	88.9	121.2	0	0		
Surr: Toluene-d8	51.3	0	50	0	103	84.1	114.5	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: MBLK-A040731-1	SampType: MBLK	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/31/04	Run ID: 5971 INST. A_040731A
Client ID: ZZZZZ	Batch ID: 21312	TestNo: SW8260B		Analysis Date: 7/31/04	SeqNo: 807115

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	47.5	0	50	0	95	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.2	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49	0	50	0	98	88.9	121.2	0	0		
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0		

Sample ID: MBLK-A040802-2	SampType: MBLK	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 8/2/04	Run ID: 5971 INST. A_040802B
Client ID: ZZZZZ	Batch ID: 21330	TestNo: SW8260B		Analysis Date: 8/2/04	SeqNo: 807963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	48	0	50	0	96	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.5	0	50	0	99	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.2	0	50	0	96.4	88.9	121.2	0	0		
Surr: Toluene-d8	49.3	0	50	0	98.6	84.1	114.5	0	0		

Sample ID: LCS-A040728-2	SampType: LCS	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G
Client ID: ZZZZZ	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804493

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.5	2.0	32.4	0	78.7	67.7	99.7	0	0		
Toluene	155	5.0	153	0	101	90.2	122	0	0		
Ethylbenzene	36.5	5.0	36	0	101	90.1	121	0	0		
Xylenes, Total	178	5.0	174	0	102	92.4	124	0	0		
Surr: 1,2-Dichloroethane-d4	49.2	0	50	0	98.4	84.3	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: LCS-A040728-2	SampType: LCS	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G						
Client ID: ZZZZZ	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51	0	50	0	102	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.9	0	50	0	97.8	88.9	121.2	0	0		
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0		

Sample ID: LCSD-A040728-2	SampType: LCSD	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G						
Client ID: ZZZZZ	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	24.6	2.0	32.4	0	75.9	67.7	99.7	25.5	3.60	15	
Toluene	150	5.0	153	0	98	90.2	122	155	3.27	15	
Ethylbenzene	35.7	5.0	36	0	99.2	90.1	121	36.5	2.22	15	
Xylenes, Total	171	5.0	174	0	98.3	92.4	124	178	4.01	0	
Surr: 1,2-Dichloroethane-d4	48.3	0	50	0	96.6	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.8	0	50	0	102	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	48.7	0	50	0	97.4	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0	0	

Sample ID: 04070740-004BMS	SampType: MS	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G						
Client ID: 111043	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804499						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.5	2.0	56	0	83	70.8	122	0	0		
Toluene	52.3	5.0	56	0	93.4	77.2	117	0	0		
Ethylbenzene	52.9	5.0	56	0	94.5	81	113	0	0		
Xylenes, Total	109	5.0	112	0	97.3	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	52	0	50	0	104	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.2	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	51.2	0	50	0	102	88.9	121.2	0	0		
Surr: Toluene-d8	51	0	50	0	102	84.1	114.5	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Work Order: 04070740
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ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: 04070740-004BMSD	SampType: MSD	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 7/28/04	Run ID: 5971 INST. A_040728G						
Client ID: 111043	Batch ID: 21260	TestNo: SW8260B		Analysis Date: 7/29/04	SeqNo: 804587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.9	2.0	56	0	82	70.8	122	46.5	1.30	15	
Toluene	52.6	5.0	56	0	93.9	77.2	117	52.3	0.572	15	
Ethylbenzene	53.6	5.0	56	0	95.7	81	113	52.9	1.31	15	
Xylenes, Total	107	5.0	112	0	95.5	80.3	116	109	1.85	15	
Surr: 1,2-Dichloroethane-d4	52.4	0	50	0	105	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	51.1	0	50	0	102	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	51.1	0	50	0	102	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.9	0	50	0	102	84.1	114.5	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank