Appendix C

Quality Control Tables for Kings Bay, July 2001

SEDIMENT QUALITY CONTROL TABLES

ENVIRONMENTAL LABORATORIES, INC.
NELAP Certified — FDH # E82001

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 1

CYANIDE SEDIMENT ug/g SO Method: EPA 335.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	<0.202	<0.216	0.0070	4.74	0.00

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208250	E-KB01-1	102	---	60 TO 166	----	----
208250	E-KB01-1	102	---	60 TO 166	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	0.615	0.594	96	47 TO 179
PP46 L213	40.8	53.8	132	47 TO 176

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.004	48672	208249-208256,

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QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 2

AMMONIA NITROGEN IN SEDIMENT ug/g SO Method: EPA 350.1 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208251	E-KB01-2	47.3	46.7	0.60	0.90	26.25

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208256	CONTROL SED	104	---	58 TO 131	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW99101	5.35	6.02	113	83 TO 125

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
0.005	48526	208249-208256,

TOTAL SOLIDS % SO Method: EPA 160.3 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208250	E-KB01-1	78	78	0	0.00	7.58
208255	E-KB01-5	73	72	1.0	0.98	7.62
208256	CONTROL SED	85.4	83.6	1.8	1.51	2.34

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 3

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.1	48425	208249-208255,
<0.1	48425	208249-208255,
<0.1	48425	208249-208255,
<0.1	48456	208256,
<0.1	48456	208256,

ALUMINUM IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208249	RS-KB01	6900	7660	760	7.38	45.02
208252	E-KB01-2 dup	27000	27200	200	0.52	51.96

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208250	E-KB01-1	42	---	2 TO 193	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1980	99	47 TO 156
SLCS-7565	6.44	5.80	90	48 TO 155
ICV	2000	1990	100	48 TO 153
SLCS1-7584	6.44	4.68	73	49 TO 152

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 4

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<4.9	48595	208249-208256,
<4.9	48696	208249-208250, 208254-208255,
<4.9	48696	208249-208250, 208254-208255,

ARSENIC IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	7.3	4.3	3.0	36.57	61.16

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	2000	100	73 TO 128
SLCS-7565	626	569	91	73 TO 128

CADMIUM IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	0.7	0.7	0	0.00	88.10

NO SPIKE QC DATA FOUND

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 5

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1970	98	56 TO 139
SLCS-7565	21.8	20.8	95	56 TO 139

CHROMIUM IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	28.5	27.8	0.70	1.76	52.79

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	2000	100	49 TO 138
SLCS-7565	39	27.4	70	50 TO 138

COPPER IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	5.0	4.9	0.10	1.43	92.83

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1970	98	72 TO 125
SLCS-7565	2950	2540	86	72 TO 125

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 6

IRON IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	12200	10300	1900	11.94	14.59

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1960	98	48 TO 131

LEAD IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	9.2	8.5	0.70	5.59	61.61

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208253	E-KB01-3	98	---	42 TO 157	----	----

NO REFERENCE QC DATA FOUND

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 7

MERCURY IN SEDIMENT mg/kg SO Method: EPA 7471 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208251	E-KB01-2	<0.22	<0.18	0.020	14.14	33.22
208256	CONTROL SED	<0.10	<0.10	0	0.00	33.58

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208252	E-KB01-2 dup	100	---	26 TO 166	----	----
208253	E-KB01-3	92	---	28 TO 166	----	----
208256	CONTROL SED	88	---	28 TO 166	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
MS2710	32.6	36.3	111	41 TO 147
MS2710	32.6	34.1	105	42 TO 148

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.10	48433	208249-208255,
<0.10	48527	208256,

NICKEL IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 8

SILVER IN SEDIMENT mg/kg SO Method: EPA 7761 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	0.041	0.054	0.013	19.35	56.92

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD Control Limit
208253	E-KB01-3	103	---	57 TO 144	---- ----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW99106	488	513	105	-15 TO 174
MS2710	35.3	29.8	84	-15 TO 174

ZINC IN SEDIMENT mg/kg SO Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208252	E-KB01-2 dup	25.5	26.0	0.50	1.37	67.69

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD Control Limit
208253	E-KB01-3	98	---	*** TO 489	---- ----

NO REFERENCE QC DATA FOUND

ENVIRONMENTAL LABORATORIES, INC.

NELAP Certified — FDH # E82001

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	PREP DATE	PREP BY	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	MATRIX
%SOLIDS	EPA 160.3	/ /		07/25/01	0000	TMB	SO
%SOLIDS	EPA 160.3	/ /		07/30/01	1400	FKE	SO
AG/S/AA	EPA 7761	07/30/01	CEP	08/14/01	1655	SEK	SO
AL/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
AL/S/ICP	EPA 6010	08/17/01	AMW	08/21/01	1600	CB	SO
AS/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
CD/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
CN-SED	EPA 335.2	/ /		08/17/01	1932	MNR	SO
CR/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
CU/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
FE/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
HG/S/CVAA	EPA 7471	/ /		07/26/01	0600	CEP	SO
HG/S/CVAA	EPA 7471	/ /		08/06/01	0630	CEP	SO
NH3-SED	EPA 350.1	/ /		08/06/01	1540	KDS	SO
NI/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
OTHER	EPA 1	/ /		09/04/01		BFC	SO
PB/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO
ZN/S/ICP	EPA 6010	07/30/01	CEP	08/10/01	1200	CB	SO

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
SW-846 8081									
MB	4,4'-DDD	166810	PEST3419	Result ***ND***				*1.3 ug/kg*	
LCS	4,4'-DDD	166811	PEST3419	Accuracy	**110**	31	141		
MS	4,4'-DDD	166812	PEST3419	Accuracy	**105**	31	141		2007517001
MSD	4,4'-DDD	166813	PEST3419	Accuracy	**87**	31	141		2007517001
MSD	4,4'-DDD	166813	PEST3419	Precision	**19**	0	30		2007517001
LCSD	4,4'-DDD	166814	PEST3419	Accuracy	**109**	31	141		
LCSD	4,4'-DDD	166814	PEST3419	Precision	**0.91**	0	30		
MB	4,4'-DDE	166810	PEST3419	Result ***ND***				*1.7 ug/kg*	
LCS	4,4'-DDE	166811	PEST3419	Accuracy	**95**	30	145		
MS	4,4'-DDE	166812	PEST3419	Accuracy	**87**	30	145		2007517001
MSD	4,4'-DDE	166813	PEST3419	Accuracy	**72**	30	145		2007517001
MSD	4,4'-DDE	166813	PEST3419	Precision	**19**	0	30		2007517001
LCSD	4,4'-DDE	166814	PEST3419	Accuracy	**93**	30	145		
LCSD	4,4'-DDE	166814	PEST3419	Precision	**2.1**	0	30		
MB	4,4'-DDT	166810	PEST3419	Result ***ND***				*1.8 ug/kg*	
LCS	4,4'-DDT	166811	PEST3419	Accuracy	**68**	5	129		
MS	4,4'-DDT	166812	PEST3419	Accuracy	**64**	5	129		2007517001
MSD	4,4'-DDT	166813	PEST3419	Accuracy	**51**	5	129		2007517001
MSD	4,4'-DDT	166813	PEST3419	Precision	**23**	0	30		2007517001
LCSD	4,4'-DDT	166814	PEST3419	Accuracy	**68**	5	129		
LCSD	4,4'-DDT	166814	PEST3419	Precision	**0**	0	30		
MB	Aldrin	166810	PEST3419	Result ***ND***				*1.8 ug/kg*	
LCS	Aldrin	166811	PEST3419	Accuracy	**77**	12	116		
MS	Aldrin	166812	PEST3419	Accuracy	**74**	12	116		2007517001
MSD	Aldrin	166813	PEST3419	Accuracy	**61**	12	116		2007517001
MSD	Aldrin	166813	PEST3419	Precision	**19**	0	30		2007517001
LCSD	Aldrin	166814	PEST3419	Accuracy	**78**	12	116		

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Aldrin	166814	PEST3419	Precision	**1.3**	0	30		
MB	alpha-BHC	166810	PEST3419	Result ***ND***				*1.2 ug/kg*	
LCS	alpha-BHC	166811	PEST3419	Accuracy	**79**	37	134		
MS	alpha-BHC	166812	PEST3419	Accuracy	**80**	37	134		2007517001
MSD	alpha-BHC	166813	PEST3419	Accuracy	**72**	37	134		2007517001
MSD	alpha-BHC	166813	PEST3419	Precision	**11**	0	30		2007517001
LCSD	alpha-BHC	166814	PEST3419	Accuracy	**77**	37	134		
LCSD	alpha-BHC	166814	PEST3419	Precision	**2.6**	0	30		
MB	beta-BHC	166810	PEST3419	Result ***ND***				*2.0 ug/kg*	
LCS	beta-BHC	166811	PEST3419	Accuracy	**88**	17	147		
MS	beta-BHC	166812	PEST3419	Accuracy	**90**	17	147		2007517001
MSD	beta-BHC	166813	PEST3419	Accuracy	**75**	17	147		2007517001
MSD	beta-BHC	166813	PEST3419	Precision	**18**	0	30		2007517001
LCSD	beta-BHC	166814	PEST3419	Accuracy	**88**	17	147		
LCSD	beta-BHC	166814	PEST3419	Precision	**0**	0	30		
MB	Chlordane	166810	PEST3419	Result ***ND***				*1.5 ug/kg*	
MB	delta-BHC	166810	PEST3419	Result ***ND***				*1.3 ug/kg*	
LCS	delta-BHC	166811	PEST3419	Accuracy	**83**	70	130		
MS	delta-BHC	166812	PEST3419	Accuracy	**78**	70	130		2007517001
MSD	delta-BHC	166813	PEST3419	Accuracy	**71**	70	130		2007517001
MSD	delta-BHC	166813	PEST3419	Precision	**9.4**	0	30		2007517001
LCSD	delta-BHC	166814	PEST3419	Accuracy	**86**	70	130		
LCSD	delta-BHC	166814	PEST3419	Precision	**3.6**	0	30		
MB	Dieldrin	166810	PEST3419	Result ***ND***				*1.2 ug/kg*	
LCS	Dieldrin	166811	PEST3419	Accuracy	**92**	36	122		
MS	Dieldrin	166812	PEST3419	Accuracy	**89**	36	122		2007517001
MSD	Dieldrin	166813	PEST3419	Accuracy	**76**	36	122		2007517001
MSD	Dieldrin	166813	PEST3419	Precision	**16**	0	30		2007517001

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Dieldrin	166814	PEST3419	Accuracy	**94**	36	122		
LCSD	Dieldrin	166814	PEST3419	Precision	**2.2**	0	30		
MB	Endosulfan I	166810	PEST3419	Result ***ND***				*1.2 ug/kg*	
LCS	Endosulfan I	166811	PEST3419	Accuracy	**83**	45	153		
MS	Endosulfan I	166812	PEST3419	Accuracy	**78**	45	153		2007517001
MSD	Endosulfan I	166813	PEST3419	Accuracy	**67**	45	153		2007517001
MSD	Endosulfan I	166813	PEST3419	Precision	**15**	0	30		2007517001
LCSD	Endosulfan I	166814	PEST3419	Accuracy	**84**	45	153		
LCSD	Endosulfan I	166814	PEST3419	Precision	**1.2**	0	30		
MB	Endosulfan II	166810	PEST3419	Result ***ND***				*1.4 ug/kg*	
LCS	Endosulfan II	166811	PEST3419	Accuracy	**89**	0	202		
MS	Endosulfan II	166812	PEST3419	Accuracy	**83**	0	202		2007517001
MSD	Endosulfan II	166813	PEST3419	Accuracy	**71**	0	202		2007517001
MSD	Endosulfan II	166813	PEST3419	Precision	**16**	0	30		2007517001
LCSD	Endosulfan II	166814	PEST3419	Accuracy	**88**	0	202		
LCSD	Endosulfan II	166814	PEST3419	Precision	**1.1**	0	30		
MB	Endosulfan sulfate	166810	PEST3419	Result ***ND***				*2.1 ug/kg*	
LCS	Endosulfan sulfate	166811	PEST3419	Accuracy	**116**	26	144		
MS	Endosulfan sulfate	166812	PEST3419	Accuracy	**104**	26	144		2007517001
MSD	Endosulfan sulfate	166813	PEST3419	Accuracy	**90**	26	144		2007517001
MSD	Endosulfan sulfate	166813	PEST3419	Precision	**14**	0	30		2007517001
LCSD	Endosulfan sulfate	166814	PEST3419	Accuracy	**117**	26	144		
LCSD	Endosulfan sulfate	166814	PEST3419	Precision	**0.86**	0	30		
MB	Endrin	166810	PEST3419	Result ***ND***				*1.3 ug/kg*	
LCS	Endrin	166811	PEST3419	Accuracy	**115**	42	139		
MS	Endrin	166812	PEST3419	Accuracy	**115**	42	139		2007517001
MSD	Endrin	166813	PEST3419	Accuracy	**96**	42	139		2007517001
MSD	Endrin	166813	PEST3419	Precision	**18**	0	30		2007517001

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Endrin	166814	PEST3419	Accuracy	**115**	42	139		
LCSD	Endrin	166814	PEST3419	Precision	**0**	0	30		
MB	Endrin aldehyde	166810	PEST3419	Result ***ND***				*1.1 ug/kg*	
LCS	Endrin aldehyde	166811	PEST3419	Accuracy	**135**	73	162		
MS	Endrin aldehyde	166812	PEST3419	Accuracy	**108**	73	162		2007517001
MSD	Endrin aldehyde	166813	PEST3419	Accuracy	**119**	73	162		2007517001
MSD	Endrin aldehyde	166813	PEST3419	Precision	**9.7**	0	30		2007517001
LCSD	Endrin aldehyde	166814	PEST3419	Accuracy	**121**	73	162		
LCSD	Endrin aldehyde	166814	PEST3419	Precision	**11**	0	30		
MB	gamma-BHC (Lindane)	166810	PEST3419	Result ***ND***				*1.2 ug/kg*	
LCS	gamma-BHC (Lindane)	166811	PEST3419	Accuracy	**84**	19	140		
MS	gamma-BHC (Lindane)	166812	PEST3419	Accuracy	**87**	19	140		2007517001
MSD	gamma-BHC (Lindane)	166813	PEST3419	Accuracy	**76**	19	140		2007517001
MSD	gamma-BHC (Lindane)	166813	PEST3419	Precision	**13**	0	30		2007517001
LCSD	gamma-BHC (Lindane)	166814	PEST3419	Accuracy	**86**	19	140		
LCSD	gamma-BHC (Lindane)	166814	PEST3419	Precision	**2.4**	0	30		
MB	Heptachlor	166810	PEST3419	Result ***ND***				*1.3 ug/kg*	
LCS	Heptachlor	166811	PEST3419	Accuracy	**87**	24	116		
MS	Heptachlor	166812	PEST3419	Accuracy	**73**	24	116		2007517001
MSD	Heptachlor	166813	PEST3419	Accuracy	**81**	24	116		2007517001
MSD	Heptachlor	166813	PEST3419	Precision	**10**	0	30		2007517001
LCSD	Heptachlor	166814	PEST3419	Accuracy	**91**	24	116		
LCSD	Heptachlor	166814	PEST3419	Precision	**4.5**	0	30		
MB	Heptachlor epoxide	166810	PEST3419	Result ***ND***				*1.1 ug/kg*	
LCS	Heptachlor epoxide	166811	PEST3419	Accuracy	**89**	37	142		
MS	Heptachlor epoxide	166812	PEST3419	Accuracy	**85**	37	142		2007517001
MSD	Heptachlor epoxide	166813	PEST3419	Accuracy	**70**	37	142		2007517001
MSD	Heptachlor epoxide	166813	PEST3419	Precision	**19**	0	30		2007517001

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
LCSD	Heptachlor epoxide	166814	PEST3419	Accuracy	**91**	37	142		
LCSD	Heptachlor epoxide	166814	PEST3419	Precision	**2.2**	0	30		
MB	Methoxychlor	166810	PEST3419	Result ***ND***				*8.0 ug/kg*	
LCS	Methoxychlor	166811	PEST3419	Accuracy	**84.6**	58	126		
MS	Methoxychlor	166812	PEST3419	Accuracy	**77.1**	58	126		2007517001
MSD	Methoxychlor	166813	PEST3419	Accuracy	**62.2**	58	126		2007517001
MSD	Methoxychlor	166813	PEST3419	Precision	**15.2**	0	30		2007517001
LCSD	Methoxychlor	166814	PEST3419	Accuracy	**86.6**	58	126		
LCSD	Methoxychlor	166814	PEST3419	Precision	**2.3**	0	30		
MB	Toxaphene	166810	PEST3419	Result ***ND***				*22 ug/kg*	
SW-846 8082									
MB	Aroclor-1016	166815	PEST3418	Result ***ND***				*5.6 ug/kg*	
LCS	Aroclor-1016	166816	PEST3418	Accuracy	**110**	50	114		
LCSD	Aroclor-1016	166819	PEST3418	Accuracy	**107**	50	114		
LCSD	Aroclor-1016	166819	PEST3418	Precision	**2.8**	0	30		
MB	Aroclor-1221	166815	PEST3418	Result ***ND***				*4.2 ug/kg*	
MB	Aroclor-1232	166815	PEST3418	Result ***ND***				*12 ug/kg*	
MB	Aroclor-1242	166815	PEST3418	Result ***ND***				*9.6 ug/kg*	
MB	Aroclor-1248	166815	PEST3418	Result ***ND***				*3.4 ug/kg*	
MB	Aroclor-1254	166815	PEST3418	Result ***ND***				*12 ug/kg*	
MB	Aroclor-1260	166815	PEST3418	Result ***ND***				*24 ug/kg*	
LCS	Aroclor-1260	166816	PEST3418	Accuracy	**116**	60	127		
LCSD	Aroclor-1260	166819	PEST3418	Accuracy	**116**	60	127		
LCSD	Aroclor-1260	166819	PEST3418	Precision	**0**	0	30		
SW-846 8270									
MB	1,2,4-Trichlorobenzene	169180	SVOC1844	Result ***ND***				*25 ug/kg*	
LCS	1,2,4-Trichlorobenzene	169183	SVOC1844	Accuracy	**70**	44	142		

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	1,2,4-Trichlorobenzene	169184	SVOC1844	Accuracy	**56**	44	142		
LCSD	1,2,4-Trichlorobenzene	169184	SVOC1844	Accuracy	**68**	44	142		
LCSD	1,2,4-Trichlorobenzene	169184	SVOC1844	Precision	**22**	0	40		
LCSD	1,2,4-Trichlorobenzene	169184	SVOC1844	Precision	**2.9**	0	40		
MB	1,2-Dichlorobenzene	169180	SVOC1844	Result ***ND***				*30 ug/kg*	
LCS	1,2-Dichlorobenzene	169183	SVOC1844	Accuracy	**71**	32	129		
LCSD	1,2-Dichlorobenzene	169184	SVOC1844	Accuracy	**44**	32	129		
LCSD	1,2-Dichlorobenzene	169184	SVOC1844	Accuracy	**66**	32	129		
LCSD	1,2-Dichlorobenzene	169184	SVOC1844	Precision	**47**	0	40		
LCSD	1,2-Dichlorobenzene	169184	SVOC1844	Precision	**7.3**	0	40		
MB	1,3-Dichlorobenzene	169180	SVOC1844	Result ***ND***				*30 ug/kg*	
LCS	1,3-Dichlorobenzene	169183	SVOC1844	Accuracy	**70**	1	172		
LCSD	1,3-Dichlorobenzene	169184	SVOC1844	Accuracy	**38**	1	172		
LCSD	1,3-Dichlorobenzene	169184	SVOC1844	Accuracy	**64**	1	172		
LCSD	1,3-Dichlorobenzene	169184	SVOC1844	Precision	**59**	0	40		
LCSD	1,3-Dichlorobenzene	169184	SVOC1844	Precision	**9**	0	40		
MB	1,4-Dichlorobenzene	169180	SVOC1844	Result ***ND***				*32 ug/kg*	
LCS	1,4-Dichlorobenzene	169183	SVOC1844	Accuracy	**72**	20	124		
LCSD	1,4-Dichlorobenzene	169184	SVOC1844	Accuracy	**67**	20	124		
LCSD	1,4-Dichlorobenzene	169184	SVOC1844	Accuracy	**42**	20	124		
LCSD	1,4-Dichlorobenzene	169184	SVOC1844	Precision	**53**	0	40		
LCSD	1,4-Dichlorobenzene	169184	SVOC1844	Precision	**7.2**	0	40		
MB	1-Methylnaphthalene	169180	SVOC1844	Result ***ND***				*33 ug/kg*	
MS	1-Methylnaphthalene	169181	SVOC1844	Accuracy	**75**	21	133		2007517001
MSD	1-Methylnaphthalene	169182	SVOC1844	Accuracy	**70**	21	133		2007517001
MSD	1-Methylnaphthalene	169182	SVOC1844	Precision	**6.9**	0	40		2007517001
LCS	1-Methylnaphthalene	169183	SVOC1844	Accuracy	**71**	21	133		
LCSD	1-Methylnaphthalene	169184	SVOC1844	Accuracy	**69**	21	133		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	1-Methylnaphthalene	169184	SVOC1844	Accuracy	**70**	21	133		
LCSD	1-Methylnaphthalene	169184	SVOC1844	Precision	**1.4**	0	40		
LCSD	1-Methylnaphthalene	169184	SVOC1844	Precision	**2.9**	0	40		
MB	2,4,5-Trichlorophenol	169180	SVOC1844	Result ***ND***				*57 ug/kg*	
LCS	2,4,5-Trichlorophenol	169183	SVOC1844	Accuracy	**80**	1	140		
LCSD	2,4,5-Trichlorophenol	169184	SVOC1844	Accuracy	**83**	1	140		
LCSD	2,4,5-Trichlorophenol	169184	SVOC1844	Accuracy	**89**	1	140		
LCSD	2,4,5-Trichlorophenol	169184	SVOC1844	Precision	**11**	0	40		
LCSD	2,4,5-Trichlorophenol	169184	SVOC1844	Precision	**3.7**	0	40		
MB	2,4,6-Trichlorophenol	169180	SVOC1844	Result ***ND***				*37 ug/kg*	
LCS	2,4,6-Trichlorophenol	169183	SVOC1844	Accuracy	**80**	37	144		
LCSD	2,4,6-Trichlorophenol	169184	SVOC1844	Accuracy	**83**	37	144		
LCSD	2,4,6-Trichlorophenol	169184	SVOC1844	Accuracy	**89**	37	144		
LCSD	2,4,6-Trichlorophenol	169184	SVOC1844	Precision	**3.7**	0	40		
LCSD	2,4,6-Trichlorophenol	169184	SVOC1844	Precision	**11**	0	40		
MB	2,4-Dichlorophenol	169180	SVOC1844	Result ***ND***				*25 ug/kg*	
LCS	2,4-Dichlorophenol	169183	SVOC1844	Accuracy	**71**	23	127		
LCSD	2,4-Dichlorophenol	169184	SVOC1844	Accuracy	**69**	23	127		
LCSD	2,4-Dichlorophenol	169184	SVOC1844	Accuracy	**75**	23	127		
LCSD	2,4-Dichlorophenol	169184	SVOC1844	Precision	**2.9**	0	40		
LCSD	2,4-Dichlorophenol	169184	SVOC1844	Precision	**5.5**	0	40		
MB	2,4-Dimethylphenol	169180	SVOC1844	Result ***ND***				*83 ug/kg*	
LCS	2,4-Dimethylphenol	169183	SVOC1844	Accuracy	**58**	32	119		
LCSD	2,4-Dimethylphenol	169184	SVOC1844	Accuracy	**58**	32	119		
LCSD	2,4-Dimethylphenol	169184	SVOC1844	Accuracy	**62**	32	119		
LCSD	2,4-Dimethylphenol	169184	SVOC1844	Precision	**0**	0	40		
LCSD	2,4-Dimethylphenol	169184	SVOC1844	Precision	**6.7**	0	40		
MB	2,4-Dinitrophenol	169180	SVOC1844	Result ***ND***				*70 ug/kg*	

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	2,4-Dinitrophenol	169183	SVOC1844	Accuracy	**1840**	1	191		
LCSD	2,4-Dinitrophenol	169184	SVOC1844	Accuracy	**1810**	1	191		
LCSD	2,4-Dinitrophenol	169184	SVOC1844	Accuracy	**225**	1	191		
LCSD	2,4-Dinitrophenol	169184	SVOC1844	Precision	**1.6**	0	40		
LCSD	2,4-Dinitrophenol	169184	SVOC1844	Precision	**156**	0	40		
MB	2,4-Dinitrotoluene	169180	SVOC1844	Result ***ND***				*25 ug/kg*	
LCS	2,4-Dinitrotoluene	169183	SVOC1844	Accuracy	**14**	39	139		
LCSD	2,4-Dinitrotoluene	169184	SVOC1844	Accuracy	**58**	39	139		
LCSD	2,4-Dinitrotoluene	169184	SVOC1844	Accuracy	**66**	39	139		
LCSD	2,4-Dinitrotoluene	169184	SVOC1844	Precision	**122**	0	40		
LCSD	2,4-Dinitrotoluene	169184	SVOC1844	Precision	**130**	0	40		
MB	2,6-Dinitrotoluene	169180	SVOC1844	Result ***ND***				*23 ug/kg*	
LCS	2,6-Dinitrotoluene	169183	SVOC1844	Accuracy	**68**	50	158		
LCSD	2,6-Dinitrotoluene	169184	SVOC1844	Accuracy	**76**	50	158		
LCSD	2,6-Dinitrotoluene	169184	SVOC1844	Accuracy	**59**	50	158		
LCSD	2,6-Dinitrotoluene	169184	SVOC1844	Precision	**14**	0	40		
LCSD	2,6-Dinitrotoluene	169184	SVOC1844	Precision	**11**	0	40		
MB	2-Chloronaphthalene	169180	SVOC1844	Result ***ND***				*18 ug/kg*	
LCS	2-Chloronaphthalene	169183	SVOC1844	Accuracy	**67**	60	118		
LCSD	2-Chloronaphthalene	169184	SVOC1844	Accuracy	**68**	60	118		
LCSD	2-Chloronaphthalene	169184	SVOC1844	Accuracy	**68**	60	118		
LCSD	2-Chloronaphthalene	169184	SVOC1844	Precision	**1.5**	0	40		
LCSD	2-Chloronaphthalene	169184	SVOC1844	Precision	**1.5**	0	40		
MB	2-Chlorophenol	169180	SVOC1844	Result ***ND***				*28 ug/kg*	
LCS	2-Chlorophenol	169183	SVOC1844	Accuracy	**78**	23	134		
LCSD	2-Chlorophenol	169184	SVOC1844	Accuracy	**76**	23	134		
LCSD	2-Chlorophenol	169184	SVOC1844	Accuracy	**75**	23	134		
LCSD	2-Chlorophenol	169184	SVOC1844	Precision	**3.9**	0	40		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	2-Chlorophenol	169184	SVOC1844	Precision	**2.6**	0	40		
MB	2-Methyl-4,6-dinitrophenol	169180	SVOC1844	Result ***ND***				*40 ug/kg*	
LCS	2-Methyl-4,6-dinitrophenol	169183	SVOC1844	Accuracy	**77**	1	181		
LCSD	2-Methyl-4,6-dinitrophenol	169184	SVOC1844	Accuracy	**84**	1	181		
LCSD	2-Methyl-4,6-dinitrophenol	169184	SVOC1844	Accuracy	**87**	1	181		
LCSD	2-Methyl-4,6-dinitrophenol	169184	SVOC1844	Precision	**12**	0	40		
LCSD	2-Methyl-4,6-dinitrophenol	169184	SVOC1844	Precision	**8.7**	0	40		
MB	2-Methylnaphthalene	169180	SVOC1844	Result ***ND***				*22 ug/kg*	
MS	2-Methylnaphthalene	169181	SVOC1844	Accuracy	**73**	21	133		2007517001
MSD	2-Methylnaphthalene	169182	SVOC1844	Accuracy	**68**	21	133		2007517001
MSD	2-Methylnaphthalene	169182	SVOC1844	Precision	**7.1**	0	40		2007517001
LCS	2-Methylnaphthalene	169183	SVOC1844	Accuracy	**68**	21	133		
LCSD	2-Methylnaphthalene	169184	SVOC1844	Accuracy	**67**	21	133		
LCSD	2-Methylnaphthalene	169184	SVOC1844	Accuracy	**68**	21	133		
LCSD	2-Methylnaphthalene	169184	SVOC1844	Precision	**1.5**	0	40		
LCSD	2-Methylnaphthalene	169184	SVOC1844	Precision	**0**	0	40		
MB	2-Methylphenol (o-Cresol)	169180	SVOC1844	Result ***ND***				*33 ug/kg*	
LCS	2-Methylphenol (o-Cresol)	169183	SVOC1844	Accuracy	**155**	28	117		
LCSD	2-Methylphenol (o-Cresol)	169184	SVOC1844	Accuracy	**144**	28	117		
LCSD	2-Methylphenol (o-Cresol)	169184	SVOC1844	Accuracy	**165**	28	117		
LCSD	2-Methylphenol (o-Cresol)	169184	SVOC1844	Precision	**6.3**	0	40		
LCSD	2-Methylphenol (o-Cresol)	169184	SVOC1844	Precision	**7.4**	0	40		
MB	2-Nitroaniline	169180	SVOC1844	Result ***ND***				*12 ug/kg*	
LCS	2-Nitroaniline	169183	SVOC1844	Accuracy	**65**	58	121		
LCSD	2-Nitroaniline	169184	SVOC1844	Accuracy	**71**	58	121		
LCSD	2-Nitroaniline	169184	SVOC1844	Accuracy	**89**	58	121		
LCSD	2-Nitroaniline	169184	SVOC1844	Precision	**31**	0	40		
LCSD	2-Nitroaniline	169184	SVOC1844	Precision	**8.8**	0	40		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MB	2-Nitrophenol	169180	SVOC1844	Result ***ND***				*60 ug/kg*	
LCS	2-Nitrophenol	169183	SVOC1844	Accuracy	**77**	28	182		
LCSD	2-Nitrophenol	169184	SVOC1844	Accuracy	**72**	28	182		
LCSD	2-Nitrophenol	169184	SVOC1844	Accuracy	**74**	28	182		
LCSD	2-Nitrophenol	169184	SVOC1844	Precision	**4**	0	40		
LCSD	2-Nitrophenol	169184	SVOC1844	Precision	**6.7**	0	40		
MB	3,3'-Dichlorobenzidine	169180	SVOC1844	Result ***ND***				*15 ug/kg*	
LCS	3,3'-Dichlorobenzidine	169183	SVOC1844	Accuracy	**62**	1	262		
LCSD	3,3'-Dichlorobenzidine	169184	SVOC1844	Accuracy	**63**	1	262		
LCSD	3,3'-Dichlorobenzidine	169184	SVOC1844	Accuracy	**56**	1	262		
LCSD	3,3'-Dichlorobenzidine	169184	SVOC1844	Precision	**1.6**	0	40		
LCSD	3,3'-Dichlorobenzidine	169184	SVOC1844	Precision	**10**	0	40		
MB	3- & 4-Methylphenol	169180	SVOC1844	Result ***ND***				*29 ug/kg*	
LCS	3- & 4-Methylphenol	169183	SVOC1844	Accuracy	**82**	21	128		
LCSD	3- & 4-Methylphenol	169184	SVOC1844	Accuracy	**78**	21	128		
LCSD	3- & 4-Methylphenol	169184	SVOC1844	Accuracy	**91**	21	128		
LCSD	3- & 4-Methylphenol	169184	SVOC1844	Precision	**10**	0	40		
LCSD	3- & 4-Methylphenol	169184	SVOC1844	Precision	**5**	0	40		
MB	3-Nitroaniline	169180	SVOC1844	Result ***ND***				*20 ug/kg*	
LCS	3-Nitroaniline	169183	SVOC1844	Accuracy	**39**	1	224		
LCSD	3-Nitroaniline	169184	SVOC1844	Accuracy	**3.2**	1	224		
LCSD	3-Nitroaniline	169184	SVOC1844	Accuracy	**47**	1	224		
LCSD	3-Nitroaniline	169184	SVOC1844	Precision	**19**	0	40		
LCSD	3-Nitroaniline	169184	SVOC1844	Precision	**170**	0	40		
MB	4-Bromophenyl-phenylether	169180	SVOC1844	Result ***ND***				*9.3 ug/kg*	
LCS	4-Bromophenyl-phenylether	169183	SVOC1844	Accuracy	**67**	53	127		
LCSD	4-Bromophenyl-phenylether	169184	SVOC1844	Accuracy	**70**	53	127		
LCSD	4-Bromophenyl-phenylether	169184	SVOC1844	Accuracy	**72**	53	127		

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Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCSD	4-Bromophenyl-phenylether	169184	SVOC1844	Precision	**4.4**	0	40		
LCSD	4-Bromophenyl-phenylether	169184	SVOC1844	Precision	**7.2**	0	40		
MB	4-Chloro-3-methylphenol	169180	SVOC1844	Result ***ND***				*24 ug/kg*	
LCS	4-Chloro-3-methylphenol	169183	SVOC1844	Accuracy	**67**	22	147		
LCSD	4-Chloro-3-methylphenol	169184	SVOC1844	Accuracy	**75**	22	147		
LCSD	4-Chloro-3-methylphenol	169184	SVOC1844	Accuracy	**69**	22	147		
LCSD	4-Chloro-3-methylphenol	169184	SVOC1844	Precision	**2.9**	0	40		
LCSD	4-Chloro-3-methylphenol	169184	SVOC1844	Precision	**11**	0	40		
MB	4-Chlorophenyl-phenylether	169180	SVOC1844	Result ***ND***				*11 ug/kg*	
LCS	4-Chlorophenyl-phenylether	169183	SVOC1844	Accuracy	**67**	25	158		
LCSD	4-Chlorophenyl-phenylether	169184	SVOC1844	Accuracy	**68**	25	158		
LCSD	4-Chlorophenyl-phenylether	169184	SVOC1844	Accuracy	**72**	25	158		
LCSD	4-Chlorophenyl-phenylether	169184	SVOC1844	Precision	**1.5**	0	40		
LCSD	4-Chlorophenyl-phenylether	169184	SVOC1844	Precision	**7.2**	0	40		
MB	4-Nitroaniline	169180	SVOC1844	Result ***ND***				*47 ug/kg*	
LCS	4-Nitroaniline	169183	SVOC1844	Accuracy	**33**	25	151		
LCSD	4-Nitroaniline	169184	SVOC1844	Accuracy	**26**	25	151		
LCSD	4-Nitroaniline	169184	SVOC1844	Accuracy	**55**	25	151		
LCSD	4-Nitroaniline	169184	SVOC1844	Precision	**24**	0	40		
LCSD	4-Nitroaniline	169184	SVOC1844	Precision	**50**	0	40		
MB	4-Nitrophenol	169180	SVOC1844	Result ***ND***				*27 ug/kg*	
LCS	4-Nitrophenol	169183	SVOC1844	Accuracy	**43**	1	132		
LCSD	4-Nitrophenol	169184	SVOC1844	Accuracy	**43**	1	132		
LCSD	4-Nitrophenol	169184	SVOC1844	Accuracy	**2.9**	1	132		
LCSD	4-Nitrophenol	169184	SVOC1844	Precision	**0**	0	40		
LCSD	4-Nitrophenol	169184	SVOC1844	Precision	**175**	0	40		
MB	Acenaphthene	169180	SVOC1844	Result ***ND***				*22 ug/kg*	
MS	Acenaphthene	169181	SVOC1844	Accuracy	**78**	47	145		2007517001

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Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Upper	*Detection Limit*	Original Sample
MSD	Acenaphthene	169182	SVOC1844	Accuracy	**77**	47	145		2007517001
MSD	Acenaphthene	169182	SVOC1844	Precision	**1.3**	0	40		2007517001
LCS	Acenaphthene	169183	SVOC1844	Accuracy	**73**	47	145		
LCSD	Acenaphthene	169184	SVOC1844	Accuracy	**77**	47	145		
LCSD	Acenaphthene	169184	SVOC1844	Accuracy	**73**	47	145		
LCSD	Acenaphthene	169184	SVOC1844	Precision	**0**	0	40		
LCSD	Acenaphthene	169184	SVOC1844	Precision	**5.3**	0	40		
MB	Acenaphthylene	169180	SVOC1844	Result ***ND***				*23 ug/kg*	
MS	Acenaphthylene	169181	SVOC1844	Accuracy	**78**	33	145		2007517001
MSD	Acenaphthylene	169182	SVOC1844	Accuracy	**75**	33	145		2007517001
MSD	Acenaphthylene	169182	SVOC1844	Precision	**3.9**	0	40		2007517001
LCS	Acenaphthylene	169183	SVOC1844	Accuracy	**73**	33	145		
LCSD	Acenaphthylene	169184	SVOC1844	Accuracy	**73**	33	145		
LCSD	Acenaphthylene	169184	SVOC1844	Accuracy	**75**	33	145		
LCSD	Acenaphthylene	169184	SVOC1844	Precision	**0**	0	40		
LCSD	Acenaphthylene	169184	SVOC1844	Precision	**2.7**	0	40		
MB	Aniline	169180	SVOC1844	Result ***ND***				*31 ug/kg*	
LCS	Aniline	169183	SVOC1844	Accuracy	**88**	1	147		
LCSD	Aniline	169184	SVOC1844	Accuracy	**60**	1	147		
LCSD	Aniline	169184	SVOC1844	Accuracy	**77**	1	147		
LCSD	Aniline	169184	SVOC1844	Precision	**13**	0	40		
LCSD	Aniline	169184	SVOC1844	Precision	**38**	0	40		
MB	Anthracene	169180	SVOC1844	Result ***ND***				*17 ug/kg*	
MS	Anthracene	169181	SVOC1844	Accuracy	**66**	27	133		2007517001
MSD	Anthracene	169182	SVOC1844	Accuracy	**63**	27	133		2007517001
MSD	Anthracene	169182	SVOC1844	Precision	**4.7**	0	40		2007517001
LCS	Anthracene	169183	SVOC1844	Accuracy	**59**	27	133		
LCSD	Anthracene	169184	SVOC1844	Accuracy	**63**	27	133		

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Anthracene	169184	SVOC1844	Accuracy	**64**	27	133		
LCSD	Anthracene	169184	SVOC1844	Precision	**8.1**	0	40		
LCSD	Anthracene	169184	SVOC1844	Precision	**6.6**	0	40		
MB	Azobenzene	169180	SVOC1844	Result ***ND***				*33 ug/kg*	
LCS	Azobenzene	169183	SVOC1844	Accuracy	**112**	45	126		
LCSD	Azobenzene	169184	SVOC1844	Accuracy	**121**	45	126		
LCSD	Azobenzene	169184	SVOC1844	Accuracy	**115**	45	126		
LCSD	Azobenzene	169184	SVOC1844	Precision	**2.6**	0	40		
LCSD	Azobenzene	169184	SVOC1844	Precision	**7.7**	0	40		
MB	Benzidine	169180	SVOC1844	Result ***ND***				*170 ug/kg*	
MB	Benzo(a)anthracene	169180	SVOC1844	Result ***ND***				*19 ug/kg*	
MS	Benzo(a)anthracene	169181	SVOC1844	Accuracy	**91**	33	143		2007517001
MSD	Benzo(a)anthracene	169182	SVOC1844	Accuracy	**86**	33	143		2007517001
MSD	Benzo(a)anthracene	169182	SVOC1844	Precision	**5.6**	0	40		2007517001
LCS	Benzo(a)anthracene	169183	SVOC1844	Accuracy	**80**	33	143		
LCSD	Benzo(a)anthracene	169184	SVOC1844	Accuracy	**86**	33	143		
LCSD	Benzo(a)anthracene	169184	SVOC1844	Accuracy	**86**	33	143		
LCSD	Benzo(a)anthracene	169184	SVOC1844	Precision	**7.2**	0	40		
LCSD	Benzo(a)anthracene	169184	SVOC1844	Precision	**7.2**	0	40		
MB	Benzo(a)pyrene	169180	SVOC1844	Result ***ND***				*18 ug/kg*	
MS	Benzo(a)pyrene	169181	SVOC1844	Accuracy	**88**	17	163		2007517001
MSD	Benzo(a)pyrene	169182	SVOC1844	Accuracy	**80**	17	163		2007517001
MSD	Benzo(a)pyrene	169182	SVOC1844	Precision	**9.5**	0	40		2007517001
LCS	Benzo(a)pyrene	169183	SVOC1844	Accuracy	**72**	17	163		
LCSD	Benzo(a)pyrene	169184	SVOC1844	Accuracy	**80**	17	163		
LCSD	Benzo(a)pyrene	169184	SVOC1844	Accuracy	**80**	17	163		
LCSD	Benzo(a)pyrene	169184	SVOC1844	Precision	**11**	0	40		
LCSD	Benzo(a)pyrene	169184	SVOC1844	Precision	**11**	0	40		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
MB	Benzo(b)fluoranthene	169180	SVOC1844	Result ***ND***				*17 ug/kg*	
MS	Benzo(b)fluoranthene	169181	SVOC1844	Accuracy	**77**	24	149		2007517001
MSD	Benzo(b)fluoranthene	169182	SVOC1844	Accuracy	**68**	24	149		2007517001
MSD	Benzo(b)fluoranthene	169182	SVOC1844	Precision	**12**	0	40		2007517001
LCS	Benzo(b)fluoranthene	169183	SVOC1844	Accuracy	**61**	24	149		
LCSD	Benzo(b)fluoranthene	169184	SVOC1844	Accuracy	**68**	24	149		
LCSD	Benzo(b)fluoranthene	169184	SVOC1844	Accuracy	**69**	24	149		
LCSD	Benzo(b)fluoranthene	169184	SVOC1844	Precision	**12**	0	40		
LCSD	Benzo(b)fluoranthene	169184	SVOC1844	Precision	**11**	0	40		
MB	Benzo(g,h,i)perylene	169180	SVOC1844	Result ***ND***				*33 ug/kg*	
MS	Benzo(g,h,i)perylene	169181	SVOC1844	Accuracy	**208**	0.1	219		2007517001
MSD	Benzo(g,h,i)perylene	169182	SVOC1844	Accuracy	**211**	0.1	219		2007517001
MSD	Benzo(g,h,i)perylene	169182	SVOC1844	Precision	**1.4**	0	40		2007517001
LCS	Benzo(g,h,i)perylene	169183	SVOC1844	Accuracy	**62**	0.1	219		
LCSD	Benzo(g,h,i)perylene	169184	SVOC1844	Accuracy	**65**	0.1	219		
LCSD	Benzo(g,h,i)perylene	169184	SVOC1844	Accuracy	**211**	0.1	219		
LCSD	Benzo(g,h,i)perylene	169184	SVOC1844	Precision	**4.7**	0	40		
LCSD	Benzo(g,h,i)perylene	169184	SVOC1844	Precision	**109**	0	40		
MB	Benzo(k)fluoranthene	169180	SVOC1844	Result ***ND***				*27 ug/kg*	
MS	Benzo(k)fluoranthene	169181	SVOC1844	Accuracy	**82**	11	162		2007517001
MSD	Benzo(k)fluoranthene	169182	SVOC1844	Accuracy	**72**	11	162		2007517001
MSD	Benzo(k)fluoranthene	169182	SVOC1844	Precision	**13**	0	40		2007517001
LCS	Benzo(k)fluoranthene	169183	SVOC1844	Accuracy	**67**	11	162		
LCSD	Benzo(k)fluoranthene	169184	SVOC1844	Accuracy	**72**	11	162		
LCSD	Benzo(k)fluoranthene	169184	SVOC1844	Accuracy	**72**	11	162		
LCSD	Benzo(k)fluoranthene	169184	SVOC1844	Precision	**7.2**	0	40		
LCSD	Benzo(k)fluoranthene	169184	SVOC1844	Precision	**7.2**	0	40		
MB	Benzoic acid	169180	SVOC1844	Result ***ND***				*100 ug/kg*	

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCS	Benzoic acid	169183	SVOC1844	Accuracy	**189**	1	228		
LCSD	Benzoic acid	169184	SVOC1844	Accuracy	**170**	1	228		
LCSD	Benzoic acid	169184	SVOC1844	Accuracy	**32**	1	228		
LCSD	Benzoic acid	169184	SVOC1844	Precision	**11**	0	40		
LCSD	Benzoic acid	169184	SVOC1844	Precision	**142**	0	40		
MB	Benzyl alcohol	169180	SVOC1844	Result ***ND***				*16 ug/kg*	
LCS	Benzyl alcohol	169183	SVOC1844	Accuracy	**6.9**	21	142		
LCSD	Benzyl alcohol	169184	SVOC1844	Accuracy	**9.7**	21	142		
LCSD	Benzyl alcohol	169184	SVOC1844	Accuracy	**65**	21	142		
LCSD	Benzyl alcohol	169184	SVOC1844	Precision	**34**	0	40		
LCSD	Benzyl alcohol	169184	SVOC1844	Precision	**162**	0	40		
MB	Bis(2-Chloroethoxy)methane	169180	SVOC1844	Result ***ND***				*16 ug/kg*	
LCS	Bis(2-Chloroethoxy)methane	169183	SVOC1844	Accuracy	**85**	33	184		
LCSD	Bis(2-Chloroethoxy)methane	169184	SVOC1844	Accuracy	**85**	33	184		
LCSD	Bis(2-Chloroethoxy)methane	169184	SVOC1844	Accuracy	**83**	33	184		
LCSD	Bis(2-Chloroethoxy)methane	169184	SVOC1844	Precision	**0**	0	40		
LCSD	Bis(2-Chloroethoxy)methane	169184	SVOC1844	Precision	**2.4**	0	40		
MB	Bis(2-Chloroethyl)ether	169180	SVOC1844	Result ***ND***				*22 ug/kg*	
LCS	Bis(2-Chloroethyl)ether	169183	SVOC1844	Accuracy	**123**	12	158		
LCSD	Bis(2-Chloroethyl)ether	169184	SVOC1844	Accuracy	**84**	12	158		
LCSD	Bis(2-Chloroethyl)ether	169184	SVOC1844	Accuracy	**107**	12	158		
LCSD	Bis(2-Chloroethyl)ether	169184	SVOC1844	Precision	**38**	0	40		
LCSD	Bis(2-Chloroethyl)ether	169184	SVOC1844	Precision	**14**	0	40		
MB	bis(2-chloroisopropyl)ether	169180	SVOC1844	Result ***ND***				*13 ug/kg*	
LCS	bis(2-chloroisopropyl)ether	169183	SVOC1844	Accuracy	**84**	36	166		
LCSD	bis(2-chloroisopropyl)ether	169184	SVOC1844	Accuracy	**81**	36	166		
LCSD	bis(2-chloroisopropyl)ether	169184	SVOC1844	Accuracy	**78**	36	166		
LCSD	bis(2-chloroisopropyl)ether	169184	SVOC1844	Precision	**3.6**	0	40		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCSD	bis(2-chloroisopropyl)ether	169184	SVOC1844	Precision	**7.4**	0	40		
MB	bis(2-ethylhexyl)phthalate	169180	SVOC1844	Result ***ND***				*13 ug/kg*	
LCS	bis(2-ethylhexyl)phthalate	169183	SVOC1844	Accuracy	**66**	8	158		
LCSD	bis(2-ethylhexyl)phthalate	169184	SVOC1844	Accuracy	**72**	8	158		
LCSD	bis(2-ethylhexyl)phthalate	169184	SVOC1844	Accuracy	**70**	8	158		
LCSD	bis(2-ethylhexyl)phthalate	169184	SVOC1844	Precision	**8.7**	0	40		
LCSD	bis(2-ethylhexyl)phthalate	169184	SVOC1844	Precision	**5.9**	0	40		
MB	Butylbenzylphthalate	169180	SVOC1844	Result ***ND***				*18 ug/kg*	
LCS	Butylbenzylphthalate	169183	SVOC1844	Accuracy	**59**	1	152		
LCSD	Butylbenzylphthalate	169184	SVOC1844	Accuracy	**64**	1	152		
LCSD	Butylbenzylphthalate	169184	SVOC1844	Accuracy	**65**	1	152		
LCSD	Butylbenzylphthalate	169184	SVOC1844	Precision	**9.7**	0	40		
LCSD	Butylbenzylphthalate	169184	SVOC1844	Precision	**8.1**	0	40		
MB	Carbazole	169180	SVOC1844	Result ***ND***				*15 ug/kg*	
LCS	Carbazole	169183	SVOC1844	Accuracy	**57**	50	125		
LCSD	Carbazole	169184	SVOC1844	Accuracy	**61**	50	125		
LCSD	Carbazole	169184	SVOC1844	Accuracy	**62**	50	125		
LCSD	Carbazole	169184	SVOC1844	Precision	**8.4**	0	40		
LCSD	Carbazole	169184	SVOC1844	Precision	**6.8**	0	40		
MB	Chrysene	169180	SVOC1844	Result ***ND***				*10 ug/kg*	
MS	Chrysene	169181	SVOC1844	Accuracy	**92**	17	168		2007517001
MSD	Chrysene	169182	SVOC1844	Accuracy	**89**	17	168		2007517001
MSD	Chrysene	169182	SVOC1844	Precision	**3.3**	0	40		2007517001
LCS	Chrysene	169183	SVOC1844	Accuracy	**79**	17	168		
LCSD	Chrysene	169184	SVOC1844	Accuracy	**89**	17	168		
LCSD	Chrysene	169184	SVOC1844	Accuracy	**87**	17	168		
LCSD	Chrysene	169184	SVOC1844	Precision	**9.6**	0	40		
LCSD	Chrysene	169184	SVOC1844	Precision	**12**	0	40		

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5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
MB	Di-n-butylphthalate	169180	SVOC1844	Result ***ND***				*24 ug/kg*	
LCS	Di-n-butylphthalate	169183	SVOC1844	Accuracy	**82**	45	138		
LCSD	Di-n-butylphthalate	169184	SVOC1844	Accuracy	**103**	45	138		
LCSD	Di-n-butylphthalate	169184	SVOC1844	Accuracy	**99**	45	138		
LCSD	Di-n-butylphthalate	169184	SVOC1844	Precision	**23**	0	40		
LCSD	Di-n-butylphthalate	169184	SVOC1844	Precision	**19**	0	40		
MB	Di-n-octylphthalate	169180	SVOC1844	Result ***ND***				*17 ug/kg*	
LCS	Di-n-octylphthalate	169183	SVOC1844	Accuracy	**35**	4	146		
LCSD	Di-n-octylphthalate	169184	SVOC1844	Accuracy	**38**	4	146		
LCSD	Di-n-octylphthalate	169184	SVOC1844	Accuracy	**41**	4	146		
LCSD	Di-n-octylphthalate	169184	SVOC1844	Precision	**8.2**	0	40		
LCSD	Di-n-octylphthalate	169184	SVOC1844	Precision	**16**	0	40		
MB	Dibenz(a,h)anthracene	169180	SVOC1844	Result ***ND***				*37 ug/kg*	
MS	Dibenz(a,h)anthracene	169181	SVOC1844	Accuracy	**123**	0.1	227		2007517001
MSD	Dibenz(a,h)anthracene	169182	SVOC1844	Accuracy	**124**	0.1	227		2007517001
MSD	Dibenz(a,h)anthracene	169182	SVOC1844	Precision	**0.81**	0	40		2007517001
LCS	Dibenz(a,h)anthracene	169183	SVOC1844	Accuracy	**96**	0.1	227		
LCSD	Dibenz(a,h)anthracene	169184	SVOC1844	Accuracy	**65**	0.1	227		
LCSD	Dibenz(a,h)anthracene	169184	SVOC1844	Accuracy	**124**	0.1	227		
LCSD	Dibenz(a,h)anthracene	169184	SVOC1844	Precision	**25**	0	40		
LCSD	Dibenz(a,h)anthracene	169184	SVOC1844	Precision	**39**	0	40		
MB	Dibenzofuran	169180	SVOC1844	Result ***ND***				*16 ug/kg*	
LCS	Dibenzofuran	169183	SVOC1844	Accuracy	**67**	45	119		
LCSD	Dibenzofuran	169184	SVOC1844	Accuracy	**73**	45	119		
LCSD	Dibenzofuran	169184	SVOC1844	Accuracy	**69**	45	119		
LCSD	Dibenzofuran	169184	SVOC1844	Precision	**2.9**	0	40		
LCSD	Dibenzofuran	169184	SVOC1844	Precision	**8.6**	0	40		
MB	Diethylphthalate	169180	SVOC1844	Result ***ND***				*12 ug/kg*	

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Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	Diethylphthalate	169183	SVOC1844	Accuracy	**70**	1	114		
LCSD	Diethylphthalate	169184	SVOC1844	Accuracy	**78**	1	114		
LCSD	Diethylphthalate	169184	SVOC1844	Accuracy	**78**	1	114		
LCSD	Diethylphthalate	169184	SVOC1844	Precision	**11**	0	40		
LCSD	Diethylphthalate	169184	SVOC1844	Precision	**11**	0	40		
MB	Dimethyl-phthalate	169180	SVOC1844	Result ***ND***				*80 ug/kg*	
LCS	Dimethyl-phthalate	169183	SVOC1844	Accuracy	**73**	1	112		
LCSD	Dimethyl-phthalate	169184	SVOC1844	Accuracy	**78**	1	112		
LCSD	Dimethyl-phthalate	169184	SVOC1844	Accuracy	**81**	1	112		
LCSD	Dimethyl-phthalate	169184	SVOC1844	Precision	**10**	0	40		
LCSD	Dimethyl-phthalate	169184	SVOC1844	Precision	**6.6**	0	40		
MB	Fluoranthene	169180	SVOC1844	Result ***ND***				*15 ug/kg*	
MS	Fluoranthene	169181	SVOC1844	Accuracy	**83**	26	137		2007517001
MSD	Fluoranthene	169182	SVOC1844	Accuracy	**79**	26	137		2007517001
MSD	Fluoranthene	169182	SVOC1844	Precision	**4.9**	0	40		2007517001
LCS	Fluoranthene	169183	SVOC1844	Accuracy	**71**	26	137		
LCSD	Fluoranthene	169184	SVOC1844	Accuracy	**79**	26	137		
LCSD	Fluoranthene	169184	SVOC1844	Accuracy	**79**	26	137		
LCSD	Fluoranthene	169184	SVOC1844	Precision	**11**	0	40		
LCSD	Fluoranthene	169184	SVOC1844	Precision	**11**	0	40		
MB	Fluorene	169180	SVOC1844	Result ***ND***				*15 ug/kg*	
MS	Fluorene	169181	SVOC1844	Accuracy	**73**	59	121		2007517001
MSD	Fluorene	169182	SVOC1844	Accuracy	**73**	59	121		2007517001
MSD	Fluorene	169182	SVOC1844	Precision	**0**	0	40		2007517001
LCS	Fluorene	169183	SVOC1844	Accuracy	**67**	59	121		
LCSD	Fluorene	169184	SVOC1844	Accuracy	**73**	59	121		
LCSD	Fluorene	169184	SVOC1844	Accuracy	**70**	59	121		
LCSD	Fluorene	169184	SVOC1844	Precision	**8.6**	0	40		

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Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Fluorene	169184	SVOC1844	Precision	**4.4**	0	40		
MB	Hexachlorobenzene	169180	SVOC1844	Result ***ND***				*14 ug/kg*	
LCS	Hexachlorobenzene	169183	SVOC1844	Accuracy	**62**	1	152		
LCSD	Hexachlorobenzene	169184	SVOC1844	Accuracy	**67**	1	152		
LCSD	Hexachlorobenzene	169184	SVOC1844	Accuracy	**66**	1	152		
LCSD	Hexachlorobenzene	169184	SVOC1844	Precision	**7.8**	0	40		
LCSD	Hexachlorobenzene	169184	SVOC1844	Precision	**6.3**	0	40		
MB	Hexachlorobutadiene	169180	SVOC1844	Result ***ND***				*31 ug/kg*	
LCS	Hexachlorobutadiene	169183	SVOC1844	Accuracy	**76**	24	116		
LCSD	Hexachlorobutadiene	169184	SVOC1844	Accuracy	**72**	24	116		
LCSD	Hexachlorobutadiene	169184	SVOC1844	Accuracy	**59**	24	116		
LCSD	Hexachlorobutadiene	169184	SVOC1844	Precision	**5.4**	0	40		
LCSD	Hexachlorobutadiene	169184	SVOC1844	Precision	**25**	0	40		
MB	Hexachlorocyclopentadiene	169180	SVOC1844	Result ***ND***				*53 ug/kg*	
LCS	Hexachlorocyclopentadiene	169183	SVOC1844	Accuracy	**0**	1	109		
LCSD	Hexachlorocyclopentadiene	169184	SVOC1844	Accuracy	**0**	1	109		
LCSD	Hexachlorocyclopentadiene	169184	SVOC1844	Accuracy	**0**	1	109		
LCSD	Hexachlorocyclopentadiene	169184	SVOC1844	Precision		0	53		
LCSD	Hexachlorocyclopentadiene	169184	SVOC1844	Precision		0	53		
MB	Hexachloroethane	169180	SVOC1844	Result ***ND***				*37 ug/kg*	
LCS	Hexachloroethane	169183	SVOC1844	Accuracy	**90**	40	113		
LCSD	Hexachloroethane	169184	SVOC1844	Accuracy	**57**	40	113		
LCSD	Hexachloroethane	169184	SVOC1844	Accuracy	**81**	40	113		
LCSD	Hexachloroethane	169184	SVOC1844	Precision	**11**	0	40		
LCSD	Hexachloroethane	169184	SVOC1844	Precision	**45**	0	40		
MB	Indeno(1,2,3-cd)pyrene	169180	SVOC1844	Result ***ND***				*30 ug/kg*	
MS	Indeno(1,2,3-cd)pyrene	169181	SVOC1844	Accuracy	**140**	0.1	171		2007517001
MSD	Indeno(1,2,3-cd)pyrene	169182	SVOC1844	Accuracy	**140**	0.1	171		2007517001

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay, GA Sediments
Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
MSD	Indeno(1,2,3-cd)pyrene	169182	SVOC1844	Precision	**0**	0	40		2007517001
LCS	Indeno(1,2,3-cd)pyrene	169183	SVOC1844	Accuracy	**88**	0.1	171		
LCSD	Indeno(1,2,3-cd)pyrene	169184	SVOC1844	Accuracy	**140**	0.1	171		
LCSD	Indeno(1,2,3-cd)pyrene	169184	SVOC1844	Accuracy	**98**	0.1	171		
LCSD	Indeno(1,2,3-cd)pyrene	169184	SVOC1844	Precision	**46**	0	40		
LCSD	Indeno(1,2,3-cd)pyrene	169184	SVOC1844	Precision	**11**	0	40		
MB	Isophorone	169180	SVOC1844	Result ***ND***				*14 ug/kg*	
LCS	Isophorone	169183	SVOC1844	Accuracy	**74**	21	196		
LCSD	Isophorone	169184	SVOC1844	Accuracy	**75**	21	196		
LCSD	Isophorone	169184	SVOC1844	Accuracy	**72**	21	196		
LCSD	Isophorone	169184	SVOC1844	Precision	**1.3**	0	40		
LCSD	Isophorone	169184	SVOC1844	Precision	**2.7**	0	40		
MB	N-Nitroso-di-n-propylamine	169180	SVOC1844	Result ***ND***				*21 ug/kg*	
LCS	N-Nitroso-di-n-propylamine	169183	SVOC1844	Accuracy	**90**	1	230		
LCSD	N-Nitroso-di-n-propylamine	169184	SVOC1844	Accuracy	**93**	1	230		
LCSD	N-Nitroso-di-n-propylamine	169184	SVOC1844	Accuracy	**84**	1	230		
LCSD	N-Nitroso-di-n-propylamine	169184	SVOC1844	Precision	**6.9**	0	40		
LCSD	N-Nitroso-di-n-propylamine	169184	SVOC1844	Precision	**3.3**	0	40		
MB	N-Nitrosodimethylamine	169180	SVOC1844	Result ***ND***				*14 ug/kg*	
LCS	N-Nitrosodimethylamine	169183	SVOC1844	Accuracy	**76**	18	118		
LCSD	N-Nitrosodimethylamine	169184	SVOC1844	Accuracy	**53**	18	118		
LCSD	N-Nitrosodimethylamine	169184	SVOC1844	Accuracy	**73**	18	118		
LCSD	N-Nitrosodimethylamine	169184	SVOC1844	Precision	**36**	0	40		
LCSD	N-Nitrosodimethylamine	169184	SVOC1844	Precision	**4**	0	40		
MB	N-Nitrosodiphenylamine	169180	SVOC1844	Result ***ND***				*26 ug/kg*	
LCS	N-Nitrosodiphenylamine	169183	SVOC1844	Accuracy	**78**	48	169		
LCSD	N-Nitrosodiphenylamine	169184	SVOC1844	Accuracy	**84**	48	169		
LCSD	N-Nitrosodiphenylamine	169184	SVOC1844	Accuracy	**82**	48	169		

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Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	N-Nitrosodiphenylamine	169184	SVOC1844	Precision	**7.4**	0	40		
LCSD	N-Nitrosodiphenylamine	169184	SVOC1844	Precision	**5**	0	40		
MB	Naphthalene	169180	SVOC1844	Result ***ND***				*23 ug/kg*	
MS	Naphthalene	169181	SVOC1844	Accuracy	**78**	21	133		2007517001
MSD	Naphthalene	169182	SVOC1844	Accuracy	**68**	21	133		2007517001
MSD	Naphthalene	169182	SVOC1844	Precision	**14**	0	40		2007517001
LCS	Naphthalene	169183	SVOC1844	Accuracy	**78**	21	133		
LCSD	Naphthalene	169184	SVOC1844	Accuracy	**68**	21	133		
LCSD	Naphthalene	169184	SVOC1844	Accuracy	**74**	21	133		
LCSD	Naphthalene	169184	SVOC1844	Precision	**5.3**	0	40		
LCSD	Naphthalene	169184	SVOC1844	Precision	**14**	0	40		
MB	Nitrobenzene	169180	SVOC1844	Result ***ND***				*13 ug/kg*	
LCS	Nitrobenzene	169183	SVOC1844	Accuracy	**77**	35	180		
LCSD	Nitrobenzene	169184	SVOC1844	Accuracy	**69**	35	180		
LCSD	Nitrobenzene	169184	SVOC1844	Accuracy	**76**	35	180		
LCSD	Nitrobenzene	169184	SVOC1844	Precision	**1.3**	0	40		
LCSD	Nitrobenzene	169184	SVOC1844	Precision	**11**	0	40		
MB	Pentachlorophenol	169180	SVOC1844	Result ***ND***				*40 ug/kg*	
LCS	Pentachlorophenol	169183	SVOC1844	Accuracy	**55**	14	176		
LCSD	Pentachlorophenol	169184	SVOC1844	Accuracy	**73**	14	176		
LCSD	Pentachlorophenol	169184	SVOC1844	Accuracy	**76**	14	176		
LCSD	Pentachlorophenol	169184	SVOC1844	Precision	**28**	0	40		
LCSD	Pentachlorophenol	169184	SVOC1844	Precision	**32**	0	40		
MB	Phenanthrene	169180	SVOC1844	Result ***ND***				*10 ug/kg*	
MS	Phenanthrene	169181	SVOC1844	Accuracy	**76**	54	120		2007517001
MSD	Phenanthrene	169182	SVOC1844	Accuracy	**70**	54	120		2007517001
MSD	Phenanthrene	169182	SVOC1844	Precision	**8.2**	0	40		2007517001
LCS	Phenanthrene	169183	SVOC1844	Accuracy	**67**	54	120		

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Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
LCSD	Phenanthrene	169184	SVOC1844	Accuracy	**70**	54	120		
LCSD	Phenanthrene	169184	SVOC1844	Accuracy	**71**	54	120		
LCSD	Phenanthrene	169184	SVOC1844	Precision	**5.8**	0	40		
LCSD	Phenanthrene	169184	SVOC1844	Precision	**4.4**	0	40		
MB	Phenol	169180	SVOC1844	Result ***ND***				*32 ug/kg*	
LCS	Phenol	169183	SVOC1844	Accuracy	**87**	5	112		
LCSD	Phenol	169184	SVOC1844	Accuracy	**89**	5	112		
LCSD	Phenol	169184	SVOC1844	Accuracy	**82**	5	112		
LCSD	Phenol	169184	SVOC1844	Precision	**5.9**	0	40		
LCSD	Phenol	169184	SVOC1844	Precision	**2.3**	0	40		
MB	Pyrene	169180	SVOC1844	Result ***ND***				*6.3 ug/kg*	
MS	Pyrene	169181	SVOC1844	Accuracy	**62**	52	115		2007517001
MSD	Pyrene	169182	SVOC1844	Accuracy	**61**	52	115		2007517001
MSD	Pyrene	169182	SVOC1844	Precision	**1.6**	0	40		2007517001
LCS	Pyrene	169183	SVOC1844	Accuracy	**58**	52	115		
LCSD	Pyrene	169184	SVOC1844	Accuracy	**63**	52	115		
LCSD	Pyrene	169184	SVOC1844	Accuracy	**61**	52	115		
LCSD	Pyrene	169184	SVOC1844	Precision	**8.3**	0	40		
LCSD	Pyrene	169184	SVOC1844	Precision	**5**	0	40		
MB	Pyridine	169180	SVOC1844	Result ***ND***				*47 ug/kg*	
LCS	Pyridine	169183	SVOC1844	Accuracy	**67**	1	117		
LCSD	Pyridine	169184	SVOC1844	Accuracy	**26**	1	117		
LCSD	Pyridine	169184	SVOC1844	Accuracy	**61**	1	117		
LCSD	Pyridine	169184	SVOC1844	Precision	**9.4**	0	40		
LCSD	Pyridine	169184	SVOC1844	Precision	**88**	0	40		
SW-846 9071									
MB	Oil and Grease	167188	WCGE15382	Result ***ND***				*17 mg/Kg*	
LCS	Oil and Grease	167189	WCGE15382	Accuracy	**100**	80	120		

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(561) 465-2400, Ext. 285

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Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MS	Oil and Grease	167190	WCGE15382	Accuracy	**97**	80	120		2007517001
MSD	Oil and Grease	167191	WCGE15382	Accuracy	**93**	80	120		2007517001
MSD	Oil and Grease	167191	WCGE15382	Precision	**4.2**	0	20		2007517001
Uhler 1989									
MB	Dibutyltin	167762	PEST3441	Result ***ND***				*3.2 ug/kg*	
LCS	Dibutyltin	167763	PEST3441	Accuracy	**112**	0	150		
MS	Dibutyltin	167764	PEST3441	Accuracy	**95**	0	150		2007517001
MSD	Dibutyltin	167765	PEST3441	Accuracy	**90**	0	150		2007517001
MSD	Dibutyltin	167765	PEST3441	Precision	**5.4**	0	30		2007517001
LCSD	Dibutyltin	167766	PEST3441	Accuracy	**134**	0	150		
LCSD	Dibutyltin	167766	PEST3441	Precision	**18**	0	30		
MB	Monobutyltin	167762	PEST3441	Result ***ND***				*1.8 ug/kg*	
LCS	Monobutyltin	167763	PEST3441	Accuracy	**23**	0	150		
MS	Monobutyltin	167764	PEST3441	Accuracy	**22**	0	150		2007517001
MSD	Monobutyltin	167765	PEST3441	Accuracy	**24**	0	150		2007517001
MSD	Monobutyltin	167765	PEST3441	Precision	**8.7**	0	30		2007517001
LCSD	Monobutyltin	167766	PEST3441	Accuracy	**26**	0	150		
LCSD	Monobutyltin	167766	PEST3441	Precision	**12**	0	30		
MB	Tributyltin	167762	PEST3441	Result ***ND***				*2.4 ug/kg*	
LCS	Tributyltin	167763	PEST3441	Accuracy	**111**	0	150		
MS	Tributyltin	167764	PEST3441	Accuracy	**98**	0	150		2007517001
MSD	Tributyltin	167765	PEST3441	Accuracy	**42**	0	150		2007517001
MSD	Tributyltin	167765	PEST3441	Precision	**80**	0	30		2007517001
LCSD	Tributyltin	167766	PEST3441	Accuracy	**120**	0	150		
LCSD	Tributyltin	167766	PEST3441	Precision	**7.8**	0	30		
USACOE (pg3-73)									
MB	TOC	166717	WCGE15349	Result ***ND***				*0.0040 %*	

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Laboratory Workorder ID 2007517

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower - Upper	*Detection Limit*	Original Sample
MS	TOC	166718	WCGE15349	Accuracy	**95**			2007517001
MSD	TOC	166719	WCGE15349	Accuracy	**95**			2007517001
MSD	TOC	166719	WCGE15349	Precision	**0**			2007517001
LCS	TOC	166720	WCGE15349	Accuracy	**99**			

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Laboratory Workorder ID 2007517

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007517001	SW-846 8081	Decachlorobiphenyl	99	20	136
2007517001	SW-846 8081	Tetrachlorometaxylene	72.1	20	136
2007517001	SW-846 8082	Decachlorobiphenyl	95	20	
2007517001	SW-846 8082	Tetrachlorometaxylene	84	20	
2007517001	SW-846 8270	1,2-Dichlorobenzene-d4	75	20	130
2007517001	SW-846 8270	2,4,6-Tribromophenol	143	19	122
2007517001	SW-846 8270	2-Chlorophenol-d4	134	20	130
2007517001	SW-846 8270	2-Fluorobiphenyl	78	30	115
2007517001	SW-846 8270	2-Fluorophenol	153	25	121
2007517001	SW-846 8270	Nitrobenzene-d5	95	23	120
2007517001	SW-846 8270	Phenol-d5	111	24	113
2007517001	SW-846 8270	Terphenyl-d14	79	18	137
2007517001	Uhler 1989	Tri-n-propyltin	116	40	150
2007517002	SW-846 8081	Decachlorobiphenyl	104	20	136
2007517002	SW-846 8081	Tetrachlorometaxylene	79.4	20	136
2007517002	SW-846 8082	Decachlorobiphenyl	99	20	
2007517002	SW-846 8082	Tetrachlorometaxylene	90	20	
2007517002	SW-846 8270	1,2-Dichlorobenzene-d4	69	20	130
2007517002	SW-846 8270	2,4,6-Tribromophenol	141	19	122
2007517002	SW-846 8270	2-Chlorophenol-d4	134	20	130
2007517002	SW-846 8270	2-Fluorobiphenyl	71	30	115

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Laboratory Workorder ID 2007517

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007517002	SW-846 8270	2-Fluorophenol	144	25	121
2007517002	SW-846 8270	Nitrobenzene-d5	89	23	120
2007517002	SW-846 8270	Phenol-d5	111	24	113
2007517002	SW-846 8270	Terphenyl-d14	84	18	137
2007517002	Uhler 1989	Tri-n-propyltin	129	40	150
2007517003	SW-846 8081	Decachlorobiphenyl	98	20	136
2007517003	SW-846 8081	Tetrachlorometaxylene	19.5	20	136
2007517003	SW-846 8082	Decachlorobiphenyl	94	20	
2007517003	SW-846 8082	Tetrachlorometaxylene	62	20	
2007517003	SW-846 8270	1,2-Dichlorobenzene-d4	69	20	130
2007517003	SW-846 8270	2,4,6-Tribromophenol	142	19	122
2007517003	SW-846 8270	2-Chlorophenol-d4	127	20	130
2007517003	SW-846 8270	2-Fluorobiphenyl	73	30	115
2007517003	SW-846 8270	2-Fluorophenol	144	25	121
2007517003	SW-846 8270	Nitrobenzene-d5	84	23	120
2007517003	SW-846 8270	Phenol-d5	99	24	113
2007517003	SW-846 8270	Terphenyl-d14	78	18	137
2007517003	Uhler 1989	Tri-n-propyltin	113	40	150
2007517004	SW-846 8081	Decachlorobiphenyl	108	20	136
2007517004	SW-846 8081	Tetrachlorometaxylene	21.8	20	136

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Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007517004	SW-846 8082	Decachlorobiphenyl	103	20	
2007517004	SW-846 8082	Tetrachlorometaxylene	66	20	
2007517004	SW-846 8270	1,2-Dichlorobenzene-d4	56	20	130
2007517004	SW-846 8270	2,4,6-Tribromophenol	135	19	122
2007517004	SW-846 8270	2-Chlorophenol-d4	103	20	130
2007517004	SW-846 8270	2-Fluorobiphenyl	60	30	115
2007517004	SW-846 8270	2-Fluorophenol	117	25	121
2007517004	SW-846 8270	Nitrobenzene-d5	71	23	120
2007517004	SW-846 8270	Phenol-d5	84	24	113
2007517004	SW-846 8270	Terphenyl-d14	78	18	137
2007517004	Uhler 1989	Tri-n-propyltin	99	40	150
2007517005	SW-846 8081	Decachlorobiphenyl	100	20	136
2007517005	SW-846 8081	Tetrachlorometaxylene	30.1	20	136
2007517005	SW-846 8082	Decachlorobiphenyl	95	20	
2007517005	SW-846 8082	Tetrachlorometaxylene	100	20	
2007517005	SW-846 8270	1,2-Dichlorobenzene-d4	75	20	130
2007517005	SW-846 8270	2,4,6-Tribromophenol	144	19	122
2007517005	SW-846 8270	2-Chlorophenol-d4	137	20	130
2007517005	SW-846 8270	2-Fluorobiphenyl	77	30	115
2007517005	SW-846 8270	2-Fluorophenol	154	25	121
2007517005	SW-846 8270	Nitrobenzene-d5	94	23	120
2007517005	SW-846 8270	Phenol-d5	112	24	113

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Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007517005	SW-846 8270	Terphenyl-d14	80	18	137
2007517005	Uhler 1989	Tri-n-propyltin	112	40	150
2007517006	SW-846 8081	Decachlorobiphenyl	100	20	136
2007517006	SW-846 8081	Tetrachlorometaxylene	57.3	20	136
2007517006	SW-846 8082	Decachlorobiphenyl	96	20	
2007517006	SW-846 8082	Tetrachlorometaxylene	88	20	
2007517006	SW-846 8270	1,2-Dichlorobenzene-d4	56	20	130
2007517006	SW-846 8270	2,4,6-Tribromophenol	130	19	122
2007517006	SW-846 8270	2-Chlorophenol-d4	105	20	130
2007517006	SW-846 8270	2-Fluorobiphenyl	61	30	115
2007517006	SW-846 8270	2-Fluorophenol	119	25	121
2007517006	SW-846 8270	Nitrobenzene-d5	75	23	120
2007517006	SW-846 8270	Phenol-d5	6.5	24	113
2007517006	SW-846 8270	Terphenyl-d14	73	18	137
2007517006	Uhler 1989	Tri-n-propyltin	112	40	150
2007517007	SW-846 8081	Decachlorobiphenyl	110	20	136
2007517007	SW-846 8081	Tetrachlorometaxylene	70.9	20	136
2007517007	SW-846 8082	Decachlorobiphenyl	107	20	
2007517007	SW-846 8082	Tetrachlorometaxylene	97	20	

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Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007517007	SW-846 8270	1,2-Dichlorobenzene-d4	60	20	130
2007517007	SW-846 8270	2,4,6-Tribromophenol	132	19	122
2007517007	SW-846 8270	2-Chlorophenol-d4	111	20	130
2007517007	SW-846 8270	2-Fluorobiphenyl	61	30	115
2007517007	SW-846 8270	2-Fluorophenol	124	25	121
2007517007	SW-846 8270	Nitrobenzene-d5	76	23	120
2007517007	SW-846 8270	Phenol-d5	95	24	113
2007517007	SW-846 8270	Terphenyl-d14	85	18	137
2007517007	Uhler 1989	Tri-n-propyltin	134	40	150
2007517008	SW-846 8081	Decachlorobiphenyl	109	20	136
2007517008	SW-846 8081	Tetrachlorometaxylene	78.6	20	136
2007517008	SW-846 8082	Decachlorobiphenyl	104	20	
2007517008	SW-846 8082	Tetrachlorometaxylene	91	20	
2007517008	SW-846 8270	1,2-Dichlorobenzene-d4	50	20	130
2007517008	SW-846 8270	2,4,6-Tribromophenol	125	19	122
2007517008	SW-846 8270	2-Chlorophenol-d4	94	20	130
2007517008	SW-846 8270	2-Fluorobiphenyl	59	30	115
2007517008	SW-846 8270	2-Fluorophenol	105	25	121
2007517008	SW-846 8270	Nitrobenzene-d5	67	23	120
2007517008	SW-846 8270	Phenol-d5	83	24	113
2007517008	SW-846 8270	Terphenyl-d14	77	18	137
2007517008	Uhler 1989	Tri-n-propyltin	141	40	150

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Laboratory Workorder ID 2007517

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper

ELUTRIATE QUALITY CONTROL TABLES

ENVIRONMENTAL LABORATORIES, INC.
NELAP Certified — FDH # E82001

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CYANIDE,TOTAL mg/L WA Method: EPA 335.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208602	E-KB01-2	<0.004	<0.004	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208603	E-KB01-2 dup	95	---	49 TO 144	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	0.615	0.633	103	75 TO 130

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QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 2

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
0.002	48610	208600-208608,

AMMONIA NITROGEN mg/L WA Method: EPA 350.1 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208601	E-KB01-1	0.318	0.321	0.0030	0.66	16.59

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
WW99101	5.35	5.45	102	78 TO 124
WW99101	5.35	5.60	105	78 TO 124

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.003	48618	208602,

ARSENIC,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208604	E-KB01-3	61.9	57.8	4.1	4.84	29.10

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 3

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208605	E-KB01-4	98	---	78 TO 124	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	2000	100	87 TO 117
TLCS-7571	20	22.7	114	87 TO 117
TLCS1-7574	20	20.5	102	87 TO 118

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<2.5	48545	208600-208608,
<2.5	48545	208600-208608,
<2.5	48545	208600-208608,

CADMIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208604	E-KB01-3	<0.4	<0.4	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208605	E-KB01-4	76	---	51 TO 136	----	----

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 4

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1980	99	88 TO 113
TLCS-7571	5	5.2	104	88 TO 113
TLCS1-7574	5	5.0	100	88 TO 113

CHROMIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	2010	100	93 TO 109
TLCS-7571	100	100	100	93 TO 109
TLCS1-7574	100	98.4	98	93 TO 109

COPPER,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1990	100	91 TO 108
TLCS-7571	100	103	103	91 TO 108
TLCS1-7574	100	99.6	100	91 TO 108

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 5

LEAD,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1980	99	90 TO 110
TLCS-7571	20	19.6	98	90 TO 110
TLCS1-7574	20	19.7	98	89 TO 110

MERCURY,TOTAL ug/L WA Method: EPA 245.1 Alt. Method: EPA 7470

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208601	E-KB01-1	<0.10	<0.10	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208602	E-KB01-2	82	---	59 TO 125	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
FISHER	3.00	2.87	96	68 TO 131
WW99106	26.4	26.9	102	68 TO 131

Blanks

<0.10	48519	208600-208608,

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 6

NICKEL,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1990	100	88 TO 115
TLCS-7571	100	103	103	88 TO 115
TLCS1-7574	100	95.9	96	88 TO 115

SILVER,TOTAL ug/L WA Method: EPA 272.2 Alt. Method: EPA 7761

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
208604	E-KB01-3	<1.0	<1.0	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
208601	E-KB01-1	89	---	40 TO 136	----	----

NO REFERENCE QC DATA FOUND

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.20	48567	208600-208608,

QC REPORT FOR US ARMY CORPS OF ENGINEERS 01/06/02 PAGE 7

ZINC,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
ICV	2000	1980	99	87 TO 118
TLCS-7571	100	108	108	87 TO 118
TLCS1-7574	100	101	101	87 TO 118

ENVIRONMENTAL LABORATORIES, INC.

NELAP Certified — FDH # E82001

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	PREP DATE	PREP BY	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	MATRIX
AG/T/AA	EPA 272.2	08/06/01	CB	08/08/01	1610	SEK	WA
AS/T/ICP	EPA 200.7	08/06/01	CB	08/07/01	1542	CB	WA
CD/T/ICP	EPA 200.7	08/06/01	CB	08/07/01	1542	CB	WA
CN-	EPA 335.2	/ /		08/10/01	2022	MNR	WA
CR/T/ICP	EPA 200.7	08/06/01	CB	08/14/01	1540	CB	WA
CU/T/ICP	EPA 200.7	08/06/01	CB	08/14/01	1540	CB	WA
HG/T/CVAA	EPA 245.1	/ /		08/06/01	0700	CEP	WA
NH3	EPA 350.1	/ /		08/10/01	1030	AMW	WA
NH3	EPA 350.1	/ /		08/13/01	1610	KDS	WA
NI/T/ICP	EPA 200.7	08/06/01	CB	08/15/01	1220	CB	WA
OTHER	EPA 1	/ /		09/26/01		HBE	WA
PB/T/ICP	EPA 200.7	08/06/01	CB	08/15/01	1220	CB	WA
TOC	EPA 415.1	/ /		08/13/01	0000	ENC	WA
ZN/T/ICP	EPA 200.7	08/06/01	CB	08/14/01	1540	CB	WA

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HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
EPA 625									
MB	1,2,4-Trichlorobenzene	167994	SVOC1845	Result ***ND***				*0.76 ug/L*	
LCS	1,2,4-Trichlorobenzene	167997	SVOC1845	Accuracy	**71**	8	116		
LCSD	1,2,4-Trichlorobenzene	167998	SVOC1845	Accuracy	**64**	8	116		
LCSD	1,2,4-Trichlorobenzene	167998	SVOC1845	Precision	**10**	0	50		
MB	1,2-Dichlorobenzene	167994	SVOC1845	Result ***ND***				*0.90 ug/L*	
LCS	1,2-Dichlorobenzene	167997	SVOC1845	Accuracy	**66**	1	115		
LCSD	1,2-Dichlorobenzene	167998	SVOC1845	Accuracy	**56**	1	115		
LCSD	1,2-Dichlorobenzene	167998	SVOC1845	Precision	**16**	0	55		
MB	1,3-Dichlorobenzene	167994	SVOC1845	Result ***ND***				*0.90 ug/L*	
LCS	1,3-Dichlorobenzene	167997	SVOC1845	Accuracy	**61**	1	113		
LCSD	1,3-Dichlorobenzene	167998	SVOC1845	Accuracy	**53**	1	113		
LCSD	1,3-Dichlorobenzene	167998	SVOC1845	Precision	**14**	0	62		
MB	1,4-Dichlorobenzene	167994	SVOC1845	Result ***ND***				*0.96 ug/L*	
LCS	1,4-Dichlorobenzene	167997	SVOC1845	Accuracy	**63**	1	113		
LCSD	1,4-Dichlorobenzene	167998	SVOC1845	Accuracy	**55**	1	113		
LCSD	1,4-Dichlorobenzene	167998	SVOC1845	Precision	**14**	0	56		
MB	1-Methylnaphthalene	167994	SVOC1845	Result ***ND***				*1.0 ug/L*	
MS	1-Methylnaphthalene	167995	SVOC1845	Accuracy	**82**	26	121		2007653001
MSD	1-Methylnaphthalene	167996	SVOC1845	Accuracy	**93**	26	121		2007653001
MSD	1-Methylnaphthalene	167996	SVOC1845	Precision	**13**	0	44		2007653001
LCS	1-Methylnaphthalene	167997	SVOC1845	Accuracy	**2.5**	26	121		
LCSD	1-Methylnaphthalene	167998	SVOC1845	Accuracy	**2.9**	26	121		
LCSD	1-Methylnaphthalene	167998	SVOC1845	Precision	**15**	0	44		
MB	2,4,6-Trichlorophenol	167994	SVOC1845	Result ***ND***				*1.1 ug/L*	
LCS	2,4,6-Trichlorophenol	167997	SVOC1845	Accuracy	**78**	18	146		
LCSD	2,4,6-Trichlorophenol	167998	SVOC1845	Accuracy	**96**	18	146		
LCSD	2,4,6-Trichlorophenol	167998	SVOC1845	Precision	**21**	0	38		

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number		Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MB	2,4-Dichlorophenol	167994	SVOC1845	Result	ND				0.74 ug/L	
LCS	2,4-Dichlorophenol	167997	SVOC1845	Accuracy		71	23	127		
LCSD	2,4-Dichlorophenol	167998	SVOC1845	Accuracy		77	23	127		
LCSD	2,4-Dichlorophenol	167998	SVOC1845	Precision		8.1	0	30		
MB	2,4-Dimethylphenol	167994	SVOC1845	Result	ND				2.5 ug/L	
LCS	2,4-Dimethylphenol	167997	SVOC1845	Accuracy		35	3	114		
LCSD	2,4-Dimethylphenol	167998	SVOC1845	Accuracy		46	3	114		
LCSD	2,4-Dimethylphenol	167998	SVOC1845	Precision		27	0	24		
MB	2,4-Dinitrophenol	167994	SVOC1845	Result	ND				2.1 ug/L	
LCS	2,4-Dinitrophenol	167997	SVOC1845	Accuracy		133	1	164		
LCSD	2,4-Dinitrophenol	167998	SVOC1845	Accuracy		198	1	164		
LCSD	2,4-Dinitrophenol	167998	SVOC1845	Precision		39	0	54		
MB	2,4-Dinitrotoluene	167994	SVOC1845	Result	ND				0.74 ug/L	
LCS	2,4-Dinitrotoluene	167997	SVOC1845	Accuracy		74	52	120		
LCSD	2,4-Dinitrotoluene	167998	SVOC1845	Accuracy		76	52	120		
LCSD	2,4-Dinitrotoluene	167998	SVOC1845	Precision		2.7	0	31		
MB	2,6-Dinitrotoluene	167994	SVOC1845	Result	ND				0.69 ug/L	
LCS	2,6-Dinitrotoluene	167997	SVOC1845	Accuracy		71	57	117		
LCSD	2,6-Dinitrotoluene	167998	SVOC1845	Accuracy		87	57	117		
LCSD	2,6-Dinitrotoluene	167998	SVOC1845	Precision		20	0	30		
MB	2-Chloronaphthalene	167994	SVOC1845	Result	ND				0.55 ug/L	
LCS	2-Chloronaphthalene	167997	SVOC1845	Accuracy		72	36	114		
LCSD	2-Chloronaphthalene	167998	SVOC1845	Accuracy		82	36	114		
LCSD	2-Chloronaphthalene	167998	SVOC1845	Precision		13	0	32		
MB	2-Chlorophenol	167994	SVOC1845	Result	ND				0.83 ug/L	
LCS	2-Chlorophenol	167997	SVOC1845	Accuracy		87	22	120		
LCSD	2-Chlorophenol	167998	SVOC1845	Accuracy		76	22	120		
LCSD	2-Chlorophenol	167998	SVOC1845	Precision		13	0	30		

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MB	2-Methyl-4,6-dinitrophenol	167994	SVOC1845	Result ND				1.2 ug/L	
LCS	2-Methyl-4,6-dinitrophenol	167997	SVOC1845	Accuracy	81	1	151		
LCSD	2-Methyl-4,6-dinitrophenol	167998	SVOC1845	Accuracy	105	1	151		
LCSD	2-Methyl-4,6-dinitrophenol	167998	SVOC1845	Precision	26	0	50		
MB	2-Methylnaphthalene	167994	SVOC1845	Result ND				0.65 ug/L	
MS	2-Methylnaphthalene	167995	SVOC1845	Accuracy	80	32	119		2007653001
MSD	2-Methylnaphthalene	167996	SVOC1845	Accuracy	90	32	119		2007653001
MSD	2-Methylnaphthalene	167996	SVOC1845	Precision	12	0	44		2007653001
LCS	2-Methylnaphthalene	167997	SVOC1845	Accuracy	73	32	119		
LCSD	2-Methylnaphthalene	167998	SVOC1845	Accuracy	78	32	119		
LCSD	2-Methylnaphthalene	167998	SVOC1845	Precision	6.6	0	44		
MB	2-Methylphenol (o-Cresol)	167994	SVOC1845	Result ND				1.0 ug/L	
LCS	2-Methylphenol (o-Cresol)	167997	SVOC1845	Accuracy	142	28	117		
LCSD	2-Methylphenol (o-Cresol)	167998	SVOC1845	Accuracy	145	28	117		
LCSD	2-Methylphenol (o-Cresol)	167998	SVOC1845	Precision	2.1	0	30		
MB	2-Nitrophenol	167994	SVOC1845	Result ND				1.8 ug/L	
LCS	2-Nitrophenol	167997	SVOC1845	Accuracy	75	10	119		
LCSD	2-Nitrophenol	167998	SVOC1845	Accuracy	77	10	119		
LCSD	2-Nitrophenol	167998	SVOC1845	Precision	2.6	0	50		
MB	3,3'-Dichlorobenzidine	167994	SVOC1845	Result ND				0.45 ug/L	
LCS	3,3'-Dichlorobenzidine	167997	SVOC1845	Accuracy	65	1	133		
LCSD	3,3'-Dichlorobenzidine	167998	SVOC1845	Accuracy	86	1	133		
LCSD	3,3'-Dichlorobenzidine	167998	SVOC1845	Precision	28	0	48		
MB	3- & 4-Methylphenol	167994	SVOC1845	Result ND				0.88 ug/L	
LCS	3- & 4-Methylphenol	167997	SVOC1845	Accuracy	36	21	128		
LCSD	3- & 4-Methylphenol	167998	SVOC1845	Accuracy	39	21	128		
LCSD	3- & 4-Methylphenol	167998	SVOC1845	Precision	8	0	30		
MB	4-Bromophenyl-phenylether	167994	SVOC1845	Result ND				0.28 ug/L	

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

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5600 U.S. 1 North, Fort Pierce, FL 34946
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Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	4-Bromophenyl-phenylether	167997	SVOC1845	Accuracy	**84**	44	122		
LCSD	4-Bromophenyl-phenylether	167998	SVOC1845	Accuracy	**101**	44	122		
LCSD	4-Bromophenyl-phenylether	167998	SVOC1845	Precision	**18**	0	30		
MB	4-Chloro-3-methylphenol	167994	SVOC1845	Result ***ND***				*0.71 ug/L*	
LCS	4-Chloro-3-methylphenol	167997	SVOC1845	Accuracy	**69**	32	131		
LCSD	4-Chloro-3-methylphenol	167998	SVOC1845	Accuracy	**83**	32	131		
LCSD	4-Chloro-3-methylphenol	167998	SVOC1845	Precision	**18**	0	30		
MB	4-Chlorophenyl-phenylether	167994	SVOC1845	Result ***ND***				*0.33 ug/L*	
LCS	4-Chlorophenyl-phenylether	167997	SVOC1845	Accuracy	**68**	45	117		
LCSD	4-Chlorophenyl-phenylether	167998	SVOC1845	Accuracy	**83**	45	117		
LCSD	4-Chlorophenyl-phenylether	167998	SVOC1845	Precision	**20**	0	30		
MB	4-Nitrophenol	167994	SVOC1845	Result ***ND***				*0.81 ug/L*	
LCS	4-Nitrophenol	167997	SVOC1845	Accuracy	**52**	1	153		
LCSD	4-Nitrophenol	167998	SVOC1845	Accuracy	**78**	1	153		
LCSD	4-Nitrophenol	167998	SVOC1845	Precision	**40**	0	51		
MB	Acenaphthene	167994	SVOC1845	Result ***ND***				*0.65 ug/L*	
MS	Acenaphthene	167995	SVOC1845	Accuracy	**0**	40	121		2007653001
MSD	Acenaphthene	167996	SVOC1845	Accuracy	**0**	40	121		2007653001
MSD	Acenaphthene	167996	SVOC1845	Precision		0	30		2007653001
LCS	Acenaphthene	167997	SVOC1845	Accuracy	**0**	40	121		
LCSD	Acenaphthene	167998	SVOC1845	Accuracy	**0**	40	121		
LCSD	Acenaphthene	167998	SVOC1845	Precision		0	30		
MB	Acenaphthylene	167994	SVOC1845	Result ***ND***				*0.70 ug/L*	
MS	Acenaphthylene	167995	SVOC1845	Accuracy	**0**	39	119		2007653001
MSD	Acenaphthylene	167996	SVOC1845	Accuracy	**0**	39	119		2007653001
MSD	Acenaphthylene	167996	SVOC1845	Precision		0	30		2007653001
LCS	Acenaphthylene	167997	SVOC1845	Accuracy	**0**	39	119		
LCSD	Acenaphthylene	167998	SVOC1845	Accuracy	**0**	39	119		

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Acenaphthylene	167998	SVOC1845	Precision		0	30		
MB	Anthracene	167994	SVOC1845	Result ***ND***				*0.50 ug/L*	
MS	Anthracene	167995	SVOC1845	Accuracy	**1**	38	125		2007653001
MSD	Anthracene	167996	SVOC1845	Accuracy	**0.96**	38	125		2007653001
MSD	Anthracene	167996	SVOC1845	Precision	**4.1**	0	30		2007653001
LCS	Anthracene	167997	SVOC1845	Accuracy	**0**	38	125		
LCSD	Anthracene	167998	SVOC1845	Accuracy	**1.1**	38	125		
LCSD	Anthracene	167998	SVOC1845	Precision	**200**	0	30		
MB	Azobenzene	167994	SVOC1845	Result ***ND***				*1.0 ug/L*	
LCS	Azobenzene	167997	SVOC1845	Accuracy	**127**	45	126		
LCSD	Azobenzene	167998	SVOC1845	Accuracy	**145**	45	126		
LCSD	Azobenzene	167998	SVOC1845	Precision	**13**	0	50		
MB	Benzidine	167994	SVOC1845	Result ***ND***				*5.0 ug/L*	
MB	Benzo(a)anthracene	167994	SVOC1845	Result ***ND***				*0.58 ug/L*	
MS	Benzo(a)anthracene	167995	SVOC1845	Accuracy	**1.2**	47	125		2007653001
MSD	Benzo(a)anthracene	167996	SVOC1845	Accuracy	**1.2**	47	125		2007653001
MSD	Benzo(a)anthracene	167996	SVOC1845	Precision	**0**	0	30		2007653001
LCS	Benzo(a)anthracene	167997	SVOC1845	Accuracy	**1.2**	47	125		
LCSD	Benzo(a)anthracene	167998	SVOC1845	Accuracy	**1.2**	47	125		
LCSD	Benzo(a)anthracene	167998	SVOC1845	Precision	**0**	0	30		
MB	Benzo(a)pyrene	167994	SVOC1845	Result ***ND***				*0.53 ug/L*	
MS	Benzo(a)pyrene	167995	SVOC1845	Accuracy	**0**	35	134		2007653001
MSD	Benzo(a)pyrene	167996	SVOC1845	Accuracy	**0**	35	134		2007653001
MSD	Benzo(a)pyrene	167996	SVOC1845	Precision		0	31		2007653001
LCS	Benzo(a)pyrene	167997	SVOC1845	Accuracy	**0**	35	134		
LCSD	Benzo(a)pyrene	167998	SVOC1845	Accuracy	**0**	35	134		
LCSD	Benzo(a)pyrene	167998	SVOC1845	Precision		0	31		
MB	Benzo(b)fluoranthene	167994	SVOC1845	Result ***ND***				*0.50 ug/L*	

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
MS	Benzo(b)fluoranthene	167995	SVOC1845	Accuracy	**0**	38	139		2007653001
MSD	Benzo(b)fluoranthene	167996	SVOC1845	Accuracy	**0**	38	139		2007653001
MSD	Benzo(b)fluoranthene	167996	SVOC1845	Precision		0	52		2007653001
LCS	Benzo(b)fluoranthene	167997	SVOC1845	Accuracy	**0**	38	139		
LCSD	Benzo(b)fluoranthene	167998	SVOC1845	Accuracy	**0**	38	139		
LCSD	Benzo(b)fluoranthene	167998	SVOC1845	Precision		0	52		
MB	Benzo(g,h,i)perylene	167994	SVOC1845	Result ***ND***				*0.98 ug/L*	
MS	Benzo(g,h,i)perylene	167995	SVOC1845	Accuracy	**0**	30	153		2007653001
MSD	Benzo(g,h,i)perylene	167996	SVOC1845	Accuracy	**0**	30	153		2007653001
MSD	Benzo(g,h,i)perylene	167996	SVOC1845	Precision		0	33		2007653001
LCS	Benzo(g,h,i)perylene	167997	SVOC1845	Accuracy	**0**	30	153		
LCSD	Benzo(g,h,i)perylene	167998	SVOC1845	Accuracy	**0**	30	153		
LCSD	Benzo(g,h,i)perylene	167998	SVOC1845	Precision		0	33		
MB	Benzo(k)fluoranthene	167994	SVOC1845	Result ***ND***				*0.82 ug/L*	
MS	Benzo(k)fluoranthene	167995	SVOC1845	Accuracy	**0**	21	155		2007653001
MSD	Benzo(k)fluoranthene	167996	SVOC1845	Accuracy	**0**	21	155		2007653001
MSD	Benzo(k)fluoranthene	167996	SVOC1845	Precision		0	37		2007653001
LCS	Benzo(k)fluoranthene	167997	SVOC1845	Accuracy	**0**	21	155		
LCSD	Benzo(k)fluoranthene	167998	SVOC1845	Accuracy	**0**	21	155		
LCSD	Benzo(k)fluoranthene	167998	SVOC1845	Precision		0	37		
MB	Benzoic acid	167994	SVOC1845	Result ***ND***				*3.1 ug/L*	
LCS	Benzoic acid	167997	SVOC1845	Accuracy	**37**	1	228		
LCSD	Benzoic acid	167998	SVOC1845	Accuracy	**43**	1	228		
LCSD	Benzoic acid	167998	SVOC1845	Precision	**15**	0	50		
MB	Bis(2-Chloroethoxy)methane	167994	SVOC1845	Result ***ND***				*0.48 ug/L*	
LCS	Bis(2-Chloroethoxy)methane	167997	SVOC1845	Accuracy	**84**	41	109		
LCSD	Bis(2-Chloroethoxy)methane	167998	SVOC1845	Accuracy	**87**	41	109		
LCSD	Bis(2-Chloroethoxy)methane	167998	SVOC1845	Precision	**3.5**	0	30		

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number		Method Blank Result	% Recovery	Acceptance Criteria Lower	- Upper	Detection Limit	Original Sample
MB	Bis(2-Chloroethyl)ether	167994	SVOC1845	Result	ND				0.65 ug/L	
LCS	Bis(2-Chloroethyl)ether	167997	SVOC1845	Accuracy		96	36	115		
LCSD	Bis(2-Chloroethyl)ether	167998	SVOC1845	Accuracy		79	36	115		
LCSD	Bis(2-Chloroethyl)ether	167998	SVOC1845	Precision		19	0	30		
MB	bis(2-chloroisopropyl)ether	167994	SVOC1845	Result	ND				0.40 ug/L	
LCS	bis(2-chloroisopropyl)ether	167997	SVOC1845	Accuracy		90	31	113		
LCSD	bis(2-chloroisopropyl)ether	167998	SVOC1845	Accuracy		84	31	113		
LCSD	bis(2-chloroisopropyl)ether	167998	SVOC1845	Precision		6.9	0	35		
MB	bis(2-ethylhexyl)phthalate	167994	SVOC1845	Result	ND				0.40 ug/L	
LCS	bis(2-ethylhexyl)phthalate	167997	SVOC1845	Accuracy		100	49	125		
LCSD	bis(2-ethylhexyl)phthalate	167998	SVOC1845	Accuracy		124	49	125		
LCSD	bis(2-ethylhexyl)phthalate	167998	SVOC1845	Precision		21	0	30		
MB	Butylbenzylphthalate	167994	SVOC1845	Result	ND				0.55 ug/L	
LCS	Butylbenzylphthalate	167997	SVOC1845	Accuracy		89	36	131		
LCSD	Butylbenzylphthalate	167998	SVOC1845	Accuracy		108	36	131		
LCSD	Butylbenzylphthalate	167998	SVOC1845	Precision		19	0	30		
MB	Carbazole	167994	SVOC1845	Result	ND				0.46 ug/L	
LCS	Carbazole	167997	SVOC1845	Accuracy		0	50	125		
LCSD	Carbazole	167998	SVOC1845	Accuracy		0	50	125		
LCSD	Carbazole	167998	SVOC1845	Precision			0	30		
MB	Chrysene	167994	SVOC1845	Result	ND				0.31 ug/L	
MS	Chrysene	167995	SVOC1845	Accuracy		1	41	151		2007653001
MSD	Chrysene	167996	SVOC1845	Accuracy		1.1	41	151		2007653001
MSD	Chrysene	167996	SVOC1845	Precision		9.5	0	30		2007653001
LCS	Chrysene	167997	SVOC1845	Accuracy		1.1	41	151		
LCSD	Chrysene	167998	SVOC1845	Accuracy		1.3	41	151		
LCSD	Chrysene	167998	SVOC1845	Precision		17	0	30		
MB	Di-n-butylphthalate	167994	SVOC1845	Result	ND				0.73 ug/L	

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	Di-n-butylphthalate	167997	SVOC1845	Accuracy	**93**	33	136		
LCSD	Di-n-butylphthalate	167998	SVOC1845	Accuracy	**118**	33	136		
LCSD	Di-n-butylphthalate	167998	SVOC1845	Precision	**24**	0	30		
MB	Di-n-octylphthalate	167994	SVOC1845	Result ***ND***				*0.51 ug/L*	
LCS	Di-n-octylphthalate	167997	SVOC1845	Accuracy	**51**	27	150		
LCSD	Di-n-octylphthalate	167998	SVOC1845	Accuracy	**69**	27	150		
LCSD	Di-n-octylphthalate	167998	SVOC1845	Precision	**30**	0	32		
MB	Dibenz(a,h)anthracene	167994	SVOC1845	Result ***ND***				*1.1 ug/L*	
MS	Dibenz(a,h)anthracene	167995	SVOC1845	Accuracy	**0**	23	173		2007653001
MSD	Dibenz(a,h)anthracene	167996	SVOC1845	Accuracy	**0**	23	173		2007653001
MSD	Dibenz(a,h)anthracene	167996	SVOC1845	Precision		0	30		2007653001
LCS	Dibenz(a,h)anthracene	167997	SVOC1845	Accuracy	**0**	23	173		
LCSD	Dibenz(a,h)anthracene	167998	SVOC1845	Accuracy	**0**	23	173		
LCSD	Dibenz(a,h)anthracene	167998	SVOC1845	Precision		0	30		
MB	Dibenzofuran	167994	SVOC1845	Result ***ND***				*0.49 ug/L*	
LCS	Dibenzofuran	167997	SVOC1845	Accuracy	**73**	45	119		
LCSD	Dibenzofuran	167998	SVOC1845	Accuracy	**86**	45	119		
LCSD	Dibenzofuran	167998	SVOC1845	Precision	**16**	0	30		
MB	Diethylphthalate	167994	SVOC1845	Result ***ND***				*0.35 ug/L*	
LCS	Diethylphthalate	167997	SVOC1845	Accuracy	**82**	1	151		
LCSD	Diethylphthalate	167998	SVOC1845	Accuracy	**101**	1	151		
LCSD	Diethylphthalate	167998	SVOC1845	Precision	**21**	0	30		
MB	Dimethyl-phthalate	167994	SVOC1845	Result ***ND***				*2.4 ug/L*	
LCS	Dimethyl-phthalate	167997	SVOC1845	Accuracy	**82**	1	160		
LCSD	Dimethyl-phthalate	167998	SVOC1845	Accuracy	**99**	1	160		
LCSD	Dimethyl-phthalate	167998	SVOC1845	Precision	**19**	0	30		
MB	Fluoranthene	167994	SVOC1845	Result ***ND***				*0.44 ug/L*	
MS	Fluoranthene	167995	SVOC1845	Accuracy	**0**	41	127		2007653001

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5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
MSD	Fluoranthene	167996	SVOC1845	Accuracy	**0**	41	127		2007653001
MSD	Fluoranthene	167996	SVOC1845	Precision		0	30		2007653001
LCS	Fluoranthene	167997	SVOC1845	Accuracy	**0**	41	127		
LCSD	Fluoranthene	167998	SVOC1845	Accuracy	**0**	41	127		
LCSD	Fluoranthene	167998	SVOC1845	Precision		0	30		
MB	Fluorene	167994	SVOC1845	Result ***ND***				*0.45 ug/L*	
MS	Fluorene	167995	SVOC1845	Accuracy	**1.8**	43	124		2007653001
MSD	Fluorene	167996	SVOC1845	Accuracy	**1.7**	43	124		2007653001
MSD	Fluorene	167996	SVOC1845	Precision	**5.7**	0	30		2007653001
LCS	Fluorene	167997	SVOC1845	Accuracy	**1.6**	43	124		
LCSD	Fluorene	167998	SVOC1845	Accuracy	**1.8**	43	124		
LCSD	Fluorene	167998	SVOC1845	Precision	**12**	0	30		
MB	Hexachlorobenzene	167994	SVOC1845	Result ***ND***				*0.41 ug/L*	
LCS	Hexachlorobenzene	167997	SVOC1845	Accuracy	**70**	35	130		
LCSD	Hexachlorobenzene	167998	SVOC1845	Accuracy	**85**	35	130		
LCSD	Hexachlorobenzene	167998	SVOC1845	Precision	**19**	0	35		
MB	Hexachlorobutadiene	167994	SVOC1845	Result ***ND***				*0.93 ug/L*	
LCS	Hexachlorobutadiene	167997	SVOC1845	Accuracy	**74**	1	118		
LCSD	Hexachlorobutadiene	167998	SVOC1845	Accuracy	**63**	1	118		
LCSD	Hexachlorobutadiene	167998	SVOC1845	Precision	**16**	0	53		
MB	Hexachlorocyclopentadiene	167994	SVOC1845	Result ***ND***				*1.6 ug/L*	
LCS	Hexachlorocyclopentadiene	167997	SVOC1845	Accuracy	**101**	1	109		
LCSD	Hexachlorocyclopentadiene	167998	SVOC1845	Accuracy	**138**	1	109		
LCSD	Hexachlorocyclopentadiene	167998	SVOC1845	Precision	**31**	0	53		
MB	Hexachloroethane	167994	SVOC1845	Result ***ND***				*1.1 ug/L*	
LCS	Hexachloroethane	167997	SVOC1845	Accuracy	**75**	1	118		
LCSD	Hexachloroethane	167998	SVOC1845	Accuracy	**64**	1	118		
LCSD	Hexachloroethane	167998	SVOC1845	Precision	**16**	0	57		

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Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MB	Indeno(1,2,3-cd)pyrene	167994	SVOC1845	Result ND				0.90 ug/L	
MS	Indeno(1,2,3-cd)pyrene	167995	SVOC1845	Accuracy	0	27	161		2007653001
MSD	Indeno(1,2,3-cd)pyrene	167996	SVOC1845	Accuracy	0	27	161		2007653001
MSD	Indeno(1,2,3-cd)pyrene	167996	SVOC1845	Precision		0	30		2007653001
LCS	Indeno(1,2,3-cd)pyrene	167997	SVOC1845	Accuracy	0	27	161		
LCSD	Indeno(1,2,3-cd)pyrene	167998	SVOC1845	Accuracy	0	27	161		
LCSD	Indeno(1,2,3-cd)pyrene	167998	SVOC1845	Precision		0	30		
MB	Isophorone	167994	SVOC1845	Result ND				0.42 ug/L	
LCS	Isophorone	167997	SVOC1845	Accuracy	92	50	112		
LCSD	Isophorone	167998	SVOC1845	Accuracy	101	50	112		
LCSD	Isophorone	167998	SVOC1845	Precision	9.3	0	30		
MB	N-Nitroso-di-n-propylamine	167994	SVOC1845	Result ND				0.62 ug/L	
LCS	N-Nitroso-di-n-propylamine	167997	SVOC1845	Accuracy	88	41	112		
LCSD	N-Nitroso-di-n-propylamine	167998	SVOC1845	Accuracy	93	41	112		
LCSD	N-Nitroso-di-n-propylamine	167998	SVOC1845	Precision	5.5	0	30		
MB	N-Nitrosodimethylamine	167994	SVOC1845	Result ND				0.43 ug/L	
LCS	N-Nitrosodimethylamine	167997	SVOC1845	Accuracy	79	18	118		
LCSD	N-Nitrosodimethylamine	167998	SVOC1845	Accuracy	72	18	118		
LCSD	N-Nitrosodimethylamine	167998	SVOC1845	Precision	9.3	0	30		
MB	N-Nitrosodiphenylamine	167994	SVOC1845	Result ND				0.77 ug/L	
LCS	N-Nitrosodiphenylamine	167997	SVOC1845	Accuracy	84	48	169		
LCSD	N-Nitrosodiphenylamine	167998	SVOC1845	Accuracy	100	48	169		
LCSD	N-Nitrosodiphenylamine	167998	SVOC1845	Precision	17	0	30		
MB	Naphthalene	167994	SVOC1845	Result ND				0.69 ug/L	
MS	Naphthalene	167995	SVOC1845	Accuracy	0	29	117		2007653001
MSD	Naphthalene	167996	SVOC1845	Accuracy	1.4	29	117		2007653001
MSD	Naphthalene	167996	SVOC1845	Precision	200	0	42		2007653001
LCS	Naphthalene	167997	SVOC1845	Accuracy	0	29	117		

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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCSD	Naphthalene	167998	SVOC1845	Accuracy	**0**	29	117		
LCSD	Naphthalene	167998	SVOC1845	Precision		0	42		
MB	Nitrobenzene	167994	SVOC1845	Result ***ND***				*0.38 ug/L*	
LCS	Nitrobenzene	167997	SVOC1845	Accuracy	**87**	41	115		
LCSD	Nitrobenzene	167998	SVOC1845	Accuracy	**82**	41	115		
LCSD	Nitrobenzene	167998	SVOC1845	Precision	**5.9**	0	30		
MB	Pentachlorophenol	167994	SVOC1845	Result ***ND***				*1.2 ug/L*	
LCS	Pentachlorophenol	167997	SVOC1845	Accuracy	**426**	1	165		
LCSD	Pentachlorophenol	167998	SVOC1845	Accuracy	**73**	1	165		
LCSD	Pentachlorophenol	167998	SVOC1845	Precision	**141**	0	50		
MB	Phenanthrene	167994	SVOC1845	Result ***ND***				*0.30 ug/L*	
MS	Phenanthrene	167995	SVOC1845	Accuracy	**0.9**	47	124		2007653001
MSD	Phenanthrene	167996	SVOC1845	Accuracy	**0.96**	47	124		2007653001
MSD	Phenanthrene	167996	SVOC1845	Precision	**6.5**	0	30		2007653001
LCS	Phenanthrene	167997	SVOC1845	Accuracy	**0.78**	47	124		
LCSD	Phenanthrene	167998	SVOC1845	Accuracy	**1.1**	47	124		
LCSD	Phenanthrene	167998	SVOC1845	Precision	**34**	0	30		
MB	Phenol	167994	SVOC1845	Result ***ND***				*0.96 ug/L*	
LCS	Phenol	167997	SVOC1845	Accuracy	**85**	1	141		
LCSD	Phenol	167998	SVOC1845	Accuracy	**81**	1	141		
LCSD	Phenol	167998	SVOC1845	Precision	**4.8**	0	30		
MB	Pyrene	167994	SVOC1845	Result ***ND***				*0.19 ug/L*	
MS	Pyrene	167995	SVOC1845	Accuracy	**0.8**	25	144		2007653001
MSD	Pyrene	167996	SVOC1845	Accuracy	**0.7**	25	144		2007653001
MSD	Pyrene	167996	SVOC1845	Precision	**13**	0	36		2007653001
LCS	Pyrene	167997	SVOC1845	Accuracy	**0.62**	25	144		
LCSD	Pyrene	167998	SVOC1845	Accuracy	**0.84**	25	144		
LCSD	Pyrene	167998	SVOC1845	Precision	**30**	0	36		

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Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	Method Blank Result	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	Detection Limit	Original Sample
MB	Pyridine	167994	SVOC1845	Result ***ND***				*1.4 ug/L*	
LCS	Pyridine	167997	SVOC1845	Accuracy	**70**	1	117		
LCSD	Pyridine	167998	SVOC1845	Accuracy	**64**	1	117		
LCSD	Pyridine	167998	SVOC1845	Precision	**9**	0	50		
SW-846 8081									
MB	4,4'-DDD	168299	PEST3428	Result ***ND***				*0.0066 ug/L*	
LCS	4,4'-DDD	168300	PEST3428	Accuracy	**109**	41	133		
MS	4,4'-DDD	168301	PEST3428	Accuracy	**106**	41	133		2007653002
MSD	4,4'-DDD	168302	PEST3428	Accuracy	**106**	41	133		2007653002
MSD	4,4'-DDD	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	4,4'-DDD	168303	PEST3428	Accuracy	**108**	41	133		
LCSD	4,4'-DDD	168303	PEST3428	Precision	**0.92**	0	30		
MB	4,4'-DDE	168299	PEST3428	Result ***ND***				*0.013 ug/L*	
LCS	4,4'-DDE	168300	PEST3428	Accuracy	**91**	70	130		
MS	4,4'-DDE	168301	PEST3428	Accuracy	**86**	70	130		2007653002
MSD	4,4'-DDE	168302	PEST3428	Accuracy	**86**	70	130		2007653002
MSD	4,4'-DDE	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	4,4'-DDE	168303	PEST3428	Accuracy	**91**	70	130		
LCSD	4,4'-DDE	168303	PEST3428	Precision	**0**	0	30		
MB	4,4'-DDT	168299	PEST3428	Result ***ND***				*0.0041 ug/L*	
LCS	4,4'-DDT	168300	PEST3428	Accuracy	**70**	25	103		
MS	4,4'-DDT	168301	PEST3428	Accuracy	**67**	25	103		2007653002
MSD	4,4'-DDT	168302	PEST3428	Accuracy	**68**	25	103		2007653002
MSD	4,4'-DDT	168302	PEST3428	Precision	**1.5**	0	30		2007653002
LCSD	4,4'-DDT	168303	PEST3428	Accuracy	**69**	25	103		
LCSD	4,4'-DDT	168303	PEST3428	Precision	**1.4**	0	30		
MB	Aldrin	168299	PEST3428	Result ***ND***				*0.014 ug/L*	
LCS	Aldrin	168300	PEST3428	Accuracy	**64**	27	118		

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Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
MS	Aldrin	168301	PEST3428	Accuracy	**62**	27	118		2007653002
MSD	Aldrin	168302	PEST3428	Accuracy	**63**	27	118		2007653002
MSD	Aldrin	168302	PEST3428	Precision	**1.6**	0	30		2007653002
LCSD	Aldrin	168303	PEST3428	Accuracy	**63**	27	118		
LCSD	Aldrin	168303	PEST3428	Precision	**1.6**	0	30		
MB	alpha-BHC	168299	PEST3428	Result ***ND***				*0.014 ug/L*	
LCS	alpha-BHC	168300	PEST3428	Accuracy	**68**	48	120		
MS	alpha-BHC	168301	PEST3428	Accuracy	**76**	48	120		2007653002
MSD	alpha-BHC	168302	PEST3428	Accuracy	**77**	48	120		2007653002
MSD	alpha-BHC	168302	PEST3428	Precision	**1.3**	0	30		2007653002
LCSD	alpha-BHC	168303	PEST3428	Accuracy	**67**	48	120		
LCSD	alpha-BHC	168303	PEST3428	Precision	**1.5**	0	30		
MB	beta-BHC	168299	PEST3428	Result ***ND***				*0.016 ug/L*	
LCS	beta-BHC	168300	PEST3428	Accuracy	**82**	61	115		
MS	beta-BHC	168301	PEST3428	Accuracy	**86**	61	115		2007653002
MSD	beta-BHC	168302	PEST3428	Accuracy	**87**	61	115		2007653002
MSD	beta-BHC	168302	PEST3428	Precision	**1.2**	0	30		2007653002
LCSD	beta-BHC	168303	PEST3428	Accuracy	**81**	61	115		
LCSD	beta-BHC	168303	PEST3428	Precision	**1.2**	0	30		
MB	Chlordane	168299	PEST3428	Result ***ND***				*0.026 ug/L*	
MB	delta-BHC	168299	PEST3428	Result ***ND***				*0.0080 ug/L*	
LCS	delta-BHC	168300	PEST3428	Accuracy	**78**	62	126		
MS	delta-BHC	168301	PEST3428	Accuracy	**86**	62	126		2007653002
MSD	delta-BHC	168302	PEST3428	Accuracy	**85**	62	126		2007653002
MSD	delta-BHC	168302	PEST3428	Precision	**1.2**	0	30		2007653002
LCSD	delta-BHC	168303	PEST3428	Accuracy	**77**	62	126		
LCSD	delta-BHC	168303	PEST3428	Precision	**1.3**	0	30		
MB	Dieldrin	168299	PEST3428	Result ***ND***				*0.012 ug/L*	

MB = Method Blank LCS = Laboratory Control Sample LCSD = Laboratory Control Sample Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
LCS	Dieldrin	168300	PEST3428	Accuracy	**88**	37	137		
MS	Dieldrin	168301	PEST3428	Accuracy	**84**	37	137		2007653002
MSD	Dieldrin	168302	PEST3428	Accuracy	**85**	37	137		2007653002
MSD	Dieldrin	168302	PEST3428	Precision	**1.2**	0	30		2007653002
LCSD	Dieldrin	168303	PEST3428	Accuracy	**87**	37	137		
LCSD	Dieldrin	168303	PEST3428	Precision	**1.1**	0	30		
MB	Endosulfan I	168299	PEST3428	Result ***ND***				*0.012 ug/L*	
LCS	Endosulfan I	168300	PEST3428	Accuracy	**79**	67	128		
MS	Endosulfan I	168301	PEST3428	Accuracy	**79**	67	128		2007653002
MSD	Endosulfan I	168302	PEST3428	Accuracy	**79**	67	128		2007653002
MSD	Endosulfan I	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	Endosulfan I	168303	PEST3428	Accuracy	**78**	67	128		
LCSD	Endosulfan I	168303	PEST3428	Precision	**1.3**	0	30		
MB	Endosulfan II	168299	PEST3428	Result ***ND***				*0.0056 ug/L*	
LCS	Endosulfan II	168300	PEST3428	Accuracy	**90**	41	140		
MS	Endosulfan II	168301	PEST3428	Accuracy	**84**	41	140		2007653002
MSD	Endosulfan II	168302	PEST3428	Accuracy	**83**	41	140		2007653002
MSD	Endosulfan II	168302	PEST3428	Precision	**1.2**	0	30		2007653002
LCSD	Endosulfan II	168303	PEST3428	Accuracy	**90**	41	140		
LCSD	Endosulfan II	168303	PEST3428	Precision	**0**	0	30		
MB	Endosulfan sulfate	168299	PEST3428	Result ***ND***				*0.0056 ug/L*	
LCS	Endosulfan sulfate	168300	PEST3428	Accuracy	**115**	78	136		
MS	Endosulfan sulfate	168301	PEST3428	Accuracy	**114**	78	136		2007653002
MSD	Endosulfan sulfate	168302	PEST3428	Accuracy	**115**	78	136		2007653002
MSD	Endosulfan sulfate	168302	PEST3428	Precision	**0.87**	0	30		2007653002
LCSD	Endosulfan sulfate	168303	PEST3428	Accuracy	**114**	78	136		
LCSD	Endosulfan sulfate	168303	PEST3428	Precision	**0.87**	0	30		
MB	Endrin	168299	PEST3428	Result ***ND***				*0.0089 ug/L*	

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	Endrin	168300	PEST3428	Accuracy	**107**	52	139		
MS	Endrin	168301	PEST3428	Accuracy	**110**	52	139		2007653002
MSD	Endrin	168302	PEST3428	Accuracy	**111**	52	139		2007653002
MSD	Endrin	168302	PEST3428	Precision	**0.9**	0	30		2007653002
LCSD	Endrin	168303	PEST3428	Accuracy	**106**	52	139		
LCSD	Endrin	168303	PEST3428	Precision	**0.94**	0	30		
MB	Endrin aldehyde	168299	PEST3428	Result ***ND***				*0.0076 ug/L*	
LCS	Endrin aldehyde	168300	PEST3428	Accuracy	**119**	70	151		
MS	Endrin aldehyde	168301	PEST3428	Accuracy	**117**	70	151		2007653002
MSD	Endrin aldehyde	168302	PEST3428	Accuracy	**117**	70	151		2007653002
MSD	Endrin aldehyde	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	Endrin aldehyde	168303	PEST3428	Accuracy	**118**	70	151		
LCSD	Endrin aldehyde	168303	PEST3428	Precision	**0.84**	0	30		
MB	gamma-BHC (Lindane)	168299	PEST3428	Result ***ND***				*0.0085 ug/L*	
LCS	gamma-BHC (Lindane)	168300	PEST3428	Accuracy	**78**	33	126		
MS	gamma-BHC (Lindane)	168301	PEST3428	Accuracy	**83**	33	126		2007653002
MSD	gamma-BHC (Lindane)	168302	PEST3428	Accuracy	**84**	33	126		2007653002
MSD	gamma-BHC (Lindane)	168302	PEST3428	Precision	**1.2**	0	30		2007653002
LCSD	gamma-BHC (Lindane)	168303	PEST3428	Accuracy	**77**	33	126		
LCSD	gamma-BHC (Lindane)	168303	PEST3428	Precision	**1.3**	0	30		
MB	Heptachlor	168299	PEST3428	Result ***ND***				*0.016 ug/L*	
LCS	Heptachlor	168300	PEST3428	Accuracy	**67**	35	117		
MS	Heptachlor	168301	PEST3428	Accuracy	**63**	35	117		2007653002
MSD	Heptachlor	168302	PEST3428	Accuracy	**62**	35	117		2007653002
MSD	Heptachlor	168302	PEST3428	Precision	**1.6**	0	30		2007653002
LCSD	Heptachlor	168303	PEST3428	Accuracy	**66**	35	117		
LCSD	Heptachlor	168303	PEST3428	Precision	**1.5**	0	30		
MB	Heptachlor epoxide	168299	PEST3428	Result ***ND***				*0.010 ug/L*	

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HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 U.S. 1 North, Fort Pierce, FL 34946

(561) 465-2400, Ext. 285

Client: PPB

Workorder ID: COE King's Bay Elutriates

Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	- Upper	*Detection Limit*	Original Sample
LCS	Heptachlor epoxide	168300	PEST3428	Accuracy	**89**	70	130		
MS	Heptachlor epoxide	168301	PEST3428	Accuracy	**89**	70	130		2007653002
MSD	Heptachlor epoxide	168302	PEST3428	Accuracy	**89**	70	130		2007653002
MSD	Heptachlor epoxide	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	Heptachlor epoxide	168303	PEST3428	Accuracy	**88**	70	130		
LCSD	Heptachlor epoxide	168303	PEST3428	Precision	**1.1**	0	30		
MB	Methoxychlor	168299	PEST3428	Result ***ND***				*0.0037 ug/L*	
LCS	Methoxychlor	168300	PEST3428	Accuracy	**79**	52	116		
MS	Methoxychlor	168301	PEST3428	Accuracy	**79**	52	116		2007653002
MSD	Methoxychlor	168302	PEST3428	Accuracy	**79**	52	116		2007653002
MSD	Methoxychlor	168302	PEST3428	Precision	**0**	0	30		2007653002
LCSD	Methoxychlor	168303	PEST3428	Accuracy	**78**	52	116		
LCSD	Methoxychlor	168303	PEST3428	Precision	**1.3**	0	30		
MB	Toxaphene	168299	PEST3428	Result ***ND***				*0.14 ug/L*	
SW-846 8082									
MB	Aroclor-1016	168304	PEST3429	Result ***ND***				*0.31 ug/L*	
LCS	Aroclor-1016	168305	PEST3429	Accuracy	**88**	50	114		
LCSD	Aroclor-1016	168308	PEST3429	Accuracy	**88**	50	114		
LCSD	Aroclor-1016	168308	PEST3429	Precision	**0**	0	30		
MB	Aroclor-1221	168304	PEST3429	Result ***ND***				*0.12 ug/L*	
MB	Aroclor-1232	168304	PEST3429	Result ***ND***				*0.46 ug/L*	
MB	Aroclor-1242	168304	PEST3429	Result ***ND***				*0.40 ug/L*	
MB	Aroclor-1248	168304	PEST3429	Result ***ND***				*0.34 ug/L*	
MB	Aroclor-1254	168304	PEST3429	Result ***ND***				*0.14 ug/L*	
MB	Aroclor-1260	168304	PEST3429	Result ***ND***				*0.20 ug/L*	
LCS	Aroclor-1260	168305	PEST3429	Accuracy	**95**	60	127		
LCSD	Aroclor-1260	168308	PEST3429	Accuracy	**94**	60	127		
LCSD	Aroclor-1260	168308	PEST3429	Precision	**1.1**	0	30		

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HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Report

Sample Type	Analyte	Laboratory Sample Number	Laboratory Batch Number	*Method Blank Result*	% Recovery	Acceptance Criteria Lower	Acceptance Criteria Upper	*Detection Limit*	Original Sample
Uhler 1989									
MB	Dibutyltin	168358	PEST3440	Result ***ND***				*0.041 ug/L*	
LCS	Dibutyltin	168359	PEST3440	Accuracy	**104**	0	150		
MS	Dibutyltin	168360	PEST3440	Accuracy	**146**	0	150		2007653003
MSD	Dibutyltin	168361	PEST3440	Accuracy	**137**	0	150		2007653003
MSD	Dibutyltin	168361	PEST3440	Precision	**6.4**	0	30		2007653003
LCSD	Dibutyltin	168362	PEST3440	Accuracy	**103**	0	150		
LCSD	Dibutyltin	168362	PEST3440	Precision	**0.97**	0	30		
MB	Monobutyltin	168358	PEST3440	Result ***ND***				*0.011 ug/L*	
LCS	Monobutyltin	168359	PEST3440	Accuracy	**13**	0	150		
MS	Monobutyltin	168360	PEST3440	Accuracy	**15**	0	150		2007653003
MSD	Monobutyltin	168361	PEST3440	Accuracy	**12**	0	150		2007653003
MSD	Monobutyltin	168361	PEST3440	Precision	**22**	0	30		2007653003
LCSD	Monobutyltin	168362	PEST3440	Accuracy	**12**	0	150		
LCSD	Monobutyltin	168362	PEST3440	Precision	**8**	0	30		
MB	Tributyltin	168358	PEST3440	Result ***ND***				*0.030 ug/L*	
LCS	Tributyltin	168359	PEST3440	Accuracy	**47**	0	150		
MS	Tributyltin	168360	PEST3440	Accuracy	**124**	0	150		2007653003
MSD	Tributyltin	168361	PEST3440	Accuracy	**109**	0	150		2007653003
MSD	Tributyltin	168361	PEST3440	Precision	**13**	0	30		2007653003
LCSD	Tributyltin	168362	PEST3440	Accuracy	**104**	0	150		
LCSD	Tributyltin	168362	PEST3440	Precision	**75**	0	30		

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5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007653001	SW-846 8081	Decachlorobiphenyl	53	20	136
2007653001	SW-846 8081	Tetrachlorometaxylene	62	20	136
2007653001	SW-846 8082	Decachlorobiphenyl	40	20	136
2007653001	SW-846 8082	Tetrachlorometaxylene	58	20	136
2007653001	SW-846 8270	1,2-Dichlorobenzene-d4	71	16	
2007653001	SW-846 8270	2-Fluorobiphenyl	72	43	
2007653001	SW-846 8270	Nitrobenzene-d5	94	35	
2007653001	SW-846 8270	Terphenyl-d14	78	33	
2007653001	Uhler 1989	Tri-n-propyltin	63	40	150
2007653002	SW-846 8081	Decachlorobiphenyl	80	20	136
2007653002	SW-846 8081	Tetrachlorometaxylene	71	20	136
2007653002	SW-846 8082	Decachlorobiphenyl	63	20	136
2007653002	SW-846 8082	Tetrachlorometaxylene	64	20	136
2007653002	SW-846 8270	1,2-Dichlorobenzene-d4	74	16	
2007653002	SW-846 8270	2-Fluorobiphenyl	72	43	
2007653002	SW-846 8270	Nitrobenzene-d5	92	35	
2007653002	SW-846 8270	Terphenyl-d14	95	33	
2007653002	Uhler 1989	Tri-n-propyltin	110	40	150
2007653003	SW-846 8081	Decachlorobiphenyl	47	20	136

HARBOR BRANCH ENVIRONMENTAL LABORATORY
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(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007653003	SW-846 8081	Tetrachlorometaxylene	67	20	136
2007653003	SW-846 8082	Decachlorobiphenyl	36	20	136
2007653003	SW-846 8082	Tetrachlorometaxylene	63	20	136
2007653003	SW-846 8270	1,2-Dichlorobenzene-d4	78	16	
2007653003	SW-846 8270	2-Fluorobiphenyl	78	43	
2007653003	SW-846 8270	Nitrobenzene-d5	101	35	
2007653003	SW-846 8270	Terphenyl-d14	63	33	
2007653003	Uhler 1989	Tri-n-propyltin	90	40	150
2007653004	SW-846 8081	Decachlorobiphenyl	50	20	136
2007653004	SW-846 8081	Tetrachlorometaxylene	68	20	136
2007653004	SW-846 8082	Decachlorobiphenyl	38	20	136
2007653004	SW-846 8082	Tetrachlorometaxylene	62	20	136
2007653004	SW-846 8270	1,2-Dichlorobenzene-d4	65	16	
2007653004	SW-846 8270	2-Fluorobiphenyl	65	43	
2007653004	SW-846 8270	Nitrobenzene-d5	83	35	
2007653004	SW-846 8270	Terphenyl-d14	64	33	
2007653004	Uhler 1989	Tri-n-propyltin	88	40	150
2007653005	SW-846 8081	Decachlorobiphenyl	37	20	136
2007653005	SW-846 8081	Tetrachlorometaxylene	61	20	136

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007653005	SW-846 8082	Decachlorobiphenyl	28	20	136
2007653005	SW-846 8082	Tetrachlorometaxylene	58	20	136
2007653005	SW-846 8270	1,2-Dichlorobenzene-d4	74	16	
2007653005	SW-846 8270	2-Fluorobiphenyl	76	43	
2007653005	SW-846 8270	Nitrobenzene-d5	88	35	
2007653005	SW-846 8270	Terphenyl-d14	38	33	
2007653005	Uhler 1989	Tri-n-propyltin	60	40	150
2007653006	SW-846 8081	Decachlorobiphenyl	67	20	136
2007653006	SW-846 8081	Tetrachlorometaxylene	61	20	136
2007653006	SW-846 8082	Decachlorobiphenyl	52	20	136
2007653006	SW-846 8082	Tetrachlorometaxylene	57	20	136
2007653006	SW-846 8270	1,2-Dichlorobenzene-d4	75	16	
2007653006	SW-846 8270	2-Fluorobiphenyl	71	43	
2007653006	SW-846 8270	Nitrobenzene-d5	95	35	
2007653006	SW-846 8270	Terphenyl-d14	68	33	
2007653006	Uhler 1989	Tri-n-propyltin	89	40	150
2007653007	SW-846 8081	Decachlorobiphenyl	58	20	136
2007653007	SW-846 8081	Tetrachlorometaxylene	60	20	136
2007653007	SW-846 8082	Decachlorobiphenyl	45	20	136

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5600 U.S. 1 North, Fort Pierce, FL 34946
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Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007653007	SW-846 8082	Tetrachlorometaxylene	57	20	136
2007653007	SW-846 8270	1,2-Dichlorobenzene-d4	84	16	
2007653007	SW-846 8270	2-Fluorobiphenyl	84	43	
2007653007	SW-846 8270	Nitrobenzene-d5	111	35	
2007653007	SW-846 8270	Terphenyl-d14	95	33	
2007653007	Uhler 1989	Tri-n-propyltin	106	40	150
2007653008	SW-846 8081	Decachlorobiphenyl	79	20	136
2007653008	SW-846 8081	Tetrachlorometaxylene	56	20	136
2007653008	SW-846 8082	Decachlorobiphenyl	78	20	136
2007653008	SW-846 8082	Tetrachlorometaxylene	56	20	136
2007653008	SW-846 8270	1,2-Dichlorobenzene-d4	60	16	
2007653008	SW-846 8270	2-Fluorobiphenyl	62	43	
2007653008	SW-846 8270	Nitrobenzene-d5	83	35	
2007653008	SW-846 8270	Terphenyl-d14	86	33	
2007653008	Uhler 1989	Tri-n-propyltin	114	40	150
2007653009	SW-846 8081	Decachlorobiphenyl	93	20	136
2007653009	SW-846 8081	Tetrachlorometaxylene	60	20	136
2007653009	SW-846 8082	Decachlorobiphenyl	72	20	136
2007653009	SW-846 8082	Tetrachlorometaxylene	54	20	136

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 U.S. 1 North, Fort Pierce, FL 34946
(561) 465-2400, Ext. 285

Client: PPB
Workorder ID: COE King's Bay Elutriates
Laboratory Workorder ID 2007653

Quality Control Surrogate Report

Laboratory Sample Number	Method	Surrogate	Percent Recovery	Acceptance Limits Lower	Acceptance Limits Upper
2007653009	SW-846 8270	1,2-Dichlorobenzene-d4	85	16	
2007653009	SW-846 8270	2-Fluorobiphenyl	86	43	
2007653009	SW-846 8270	Nitrobenzene-d5	105	35	
2007653009	SW-846 8270	Terphenyl-d14	97	33	
2007653009	Uhler 1989	Tri-n-propyltin	77	40	150

TISSUE QUALITY CONTROL TABLES

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TOTAL SOLIDS % BT Method: EPA 160.3 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214634	RS-KB01 MACOMA	10.6	9.6	1.0	7.00	NO DATA
214648	E-KB01-5 NEREIS	10.3	10.1	0.20	1.39	NO DATA

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.10	49797	214633-214648,

ARSENIC IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	32.6	32.8	0.20	0.43	11.03
214644	E-KB01-2 NEREIS	22.6	23.9	1.3	3.95	11.49

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214645	E-KB01-2 DUP NEREIS	107	---	-6 TO 178	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	13.3	14.9	112	89 TO 120

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Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<2.5	49811	214633-214648,
<5.0	49811	214633-214648,

CADMIUM IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	0.3	0.2	0.10	28.28	0.00
214644	E-KB01-2 NEREIS	0.4	0.4	0	0.00	0.00

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	99	---	17 TO 157	----	----
214645	E-KB01-2 DUP NEREIS	101	---	11 TO 159	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	0.82	0.87	106	13 TO 156

CHROMIUM IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

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Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	0.7	0.7	0	0.00	56.22
214644	E-KB01-2 NEREIS	0.5	0.7	0.20	23.57	55.56

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	100	---	48 TO 142	----	----
214645	E-KB01-2 DUP NEREIS	101	---	48 TO 142	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	0.50	0.46	92	53 TO 137

COPPER IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	21.7	23.8	2.1	6.53	59.20
214644	E-KB01-2 NEREIS	10.8	10.9	0.10	0.65	60.47

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	101	---	51 TO 141	----	----
214645	E-KB01-2 DUP NEREIS	98	---	51 TO 141	----	----

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References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	4.02	3.87	96	63 TO 122

LEAD IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	<1.1	<1.0	0.050	6.73	61.65
214644	E-KB01-2 NEREIS	<1.0	<0.9	0.050	7.44	65.88

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	100	---	34 TO 155	----	----
214645	E-KB01-2 DUP NEREIS	102	---	31 TO 157	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	1.19	1.11	93	89 TO 115

MERCURY IN SEDIMENT mg/kg BT Method: EPA 7471 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	<0.20	<0.20	0	0.00	0.00
214645	E-KB01-2 DUP NEREIS	<0.20	<0.20	0	0.00	0.00

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	84	---	52 TO 119	----	----
214646	E-KB01-3 NEREIS	83	---	52 TO 119	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
MT2776	0.061	0.058	95	59 TO 86

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.1	49832	214633-214648,

NICKEL IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	3.0	2.8	0.20	4.88	57.14
214644	E-KB01-2 NEREIS	1.1	1.3	0.20	11.79	60.19

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	99	---	32 TO 152	----	----
214645	E-KB01-2 DUP NEREIS	100	---	29 TO 153	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	0.93	0.70	75	-5 TO 167

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SILVER IN SEDIMENT mg/kg BT Method: EPA 7761 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	0.386	0.558	0.17	25.77	0.00
214644	E-KB01-2 NEREIS	0.098	0.148	0.050	28.74	20.27

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	116	---	48 TO 156	----	----
214645	E-KB01-2 DUP NEREIS	123	---	49 TO 156	----	----

NO REFERENCE QC DATA FOUND

Blanks

Blank Concentration	Analytical Batch #	Sample Numbers in Batch
<0.20	49818	214633-214648,

ZINC IN SEDIMENT mg/kg BT Method: EPA 6010 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
214636	E-KB01-2 MACOMA	108	116	8.0	5.05	90.53
214644	E-KB01-2 NEREIS	106	145	39	21.97	92.45

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
214637	E-KB01-2 DUP MACOMA	98	---	69 TO 138	----	----
214645	E-KB01-2 DUP NEREIS	104	---	68 TO 139	----	----

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References

Reference ID	Target	Found	% Recovery	Control Limits
slcs1-7778	137	139	101	87 TO 113

ENVIRONMENTAL LABORATORIES, INC.

NELAP Certified — FDH # E82001

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	PREP DATE	PREP BY	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	MATRIX
%SOLIDS	EPA 160.3	/ /		11/15/01	1300	AJS	BT
AG/S/AA	EPA 7761	11/15/01	CEP	11/16/01	1045	SEK	BT
AS/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
CD/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
CR/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
CU/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
HG/S/CVAA	EPA 7471	/ /		11/19/01	0600	CEP	BT
NI/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
PB/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT
ZN/S/ICP	EPA 6010	11/15/01	CEP	11/16/01	0835	CB	BT

6821 SW ARCHER ROAD, GAINESVILLE, FL 32608 (352) 377-2349 Fax (352) 395-6639 ppb@ppb-envlabs.com

Analysis of COE Kings Bay Analytical Results for Metals in Tissues

To: Bryan Cotter of PPB Labs
From: James Keesling, Jr.
Regarding: COE Kings Bay Analysis, November 2001
Date: 12/13/2001

Analysis Plan

Problem:

Are there significantly higher heavy metals at the test sites than the Pre-test site or Reference site?

Hypotheses

Null Hypothesis:

All sites have an equal level each of the heavy metals.

Alternate Hypothesis:

There is a site that has significantly higher mean level of heavy metals.

Model Equation:

[Measured Heavy Metal] = [Constant] + [Effect of the Site] + [Error]

Method of Analysis:

1. Since there are no repeated measures for sites a subjective method of graphing the ordered observed values against the expected standard normal values. An extreme observation is considered different if the highest values lie 'substantially' higher than a linear fit or the lowest values lie substantially less than a linear fit.

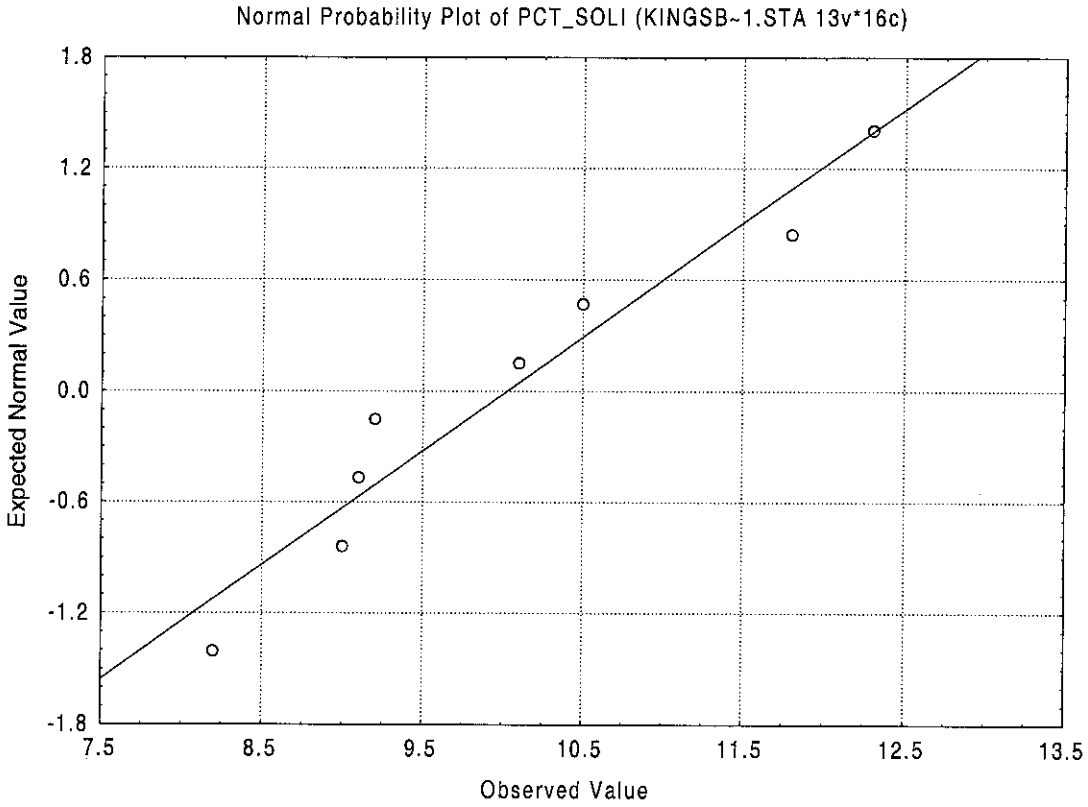
Assumptions of the analysis:

The error variance is normally and independently distributed with homogenous variance between sites and a majority of the sites have the same mean.

Notes: under this analysis no assumption can be tested. This method of highly subjective and therefore power of test and significance cannot be determined or approximated.

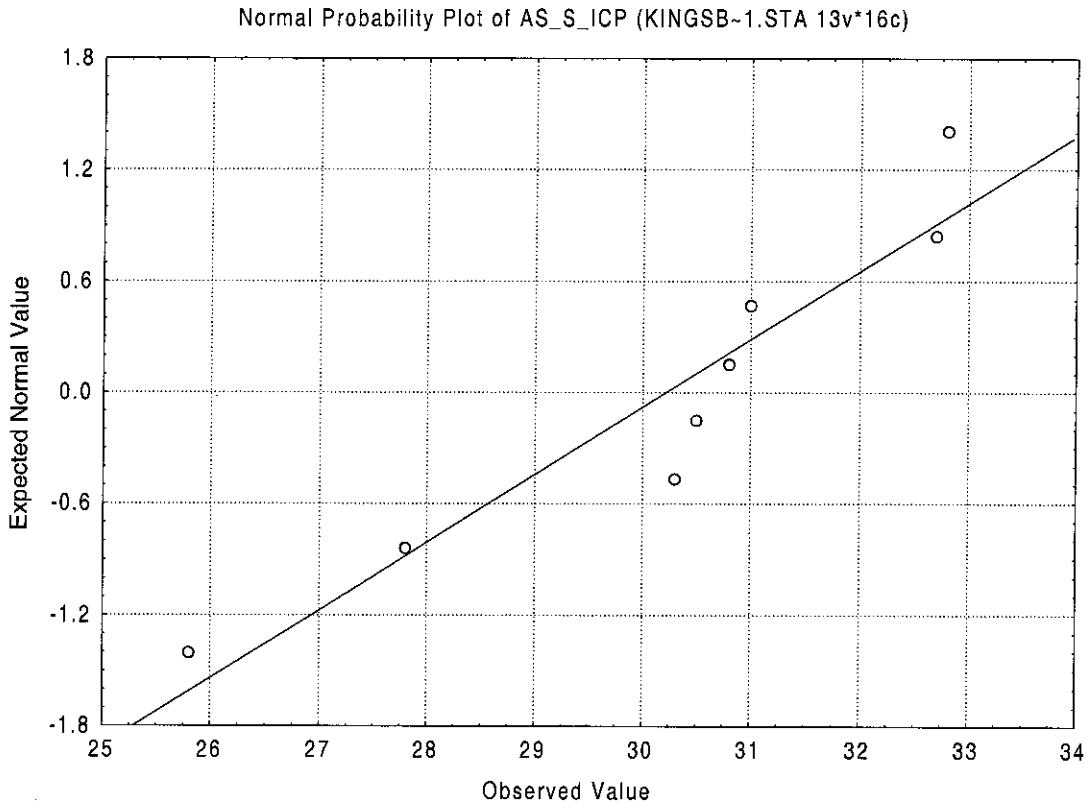
MACOMA

Macoma PCT Solids



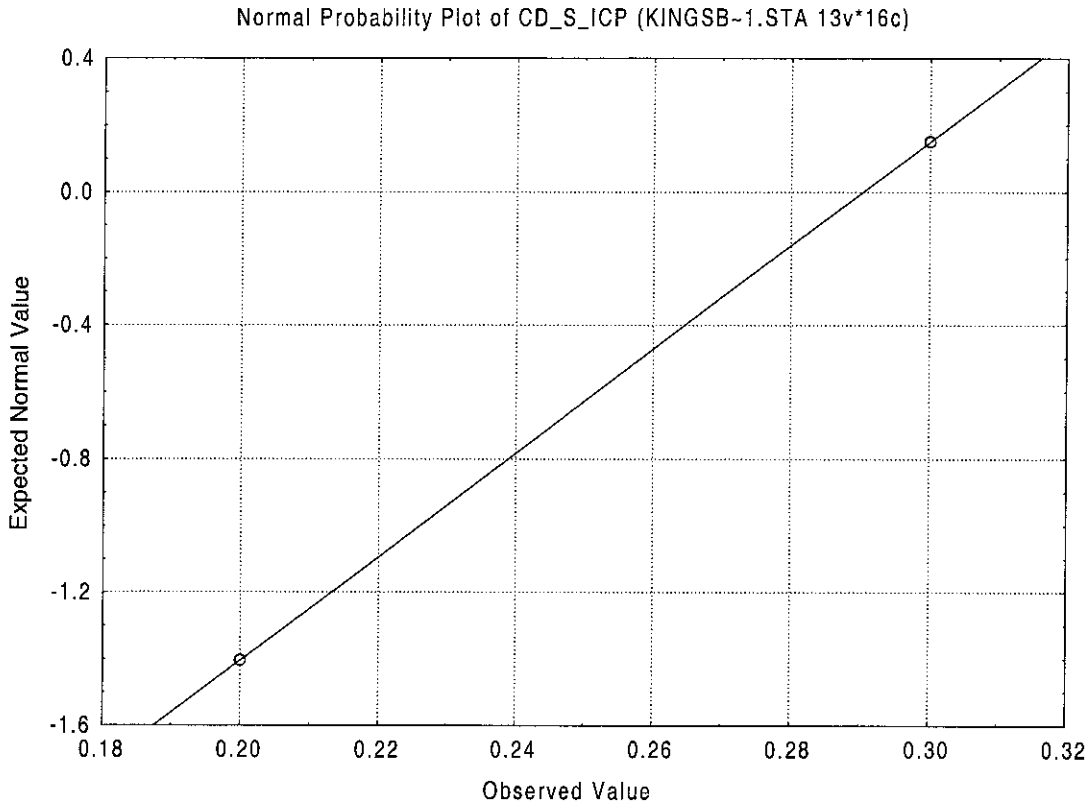
From observing the Normal Probability Plot of Macoma PCT Solids there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Macoma PCT solids at one site is greater than another.

Macoma AS_S_ICP



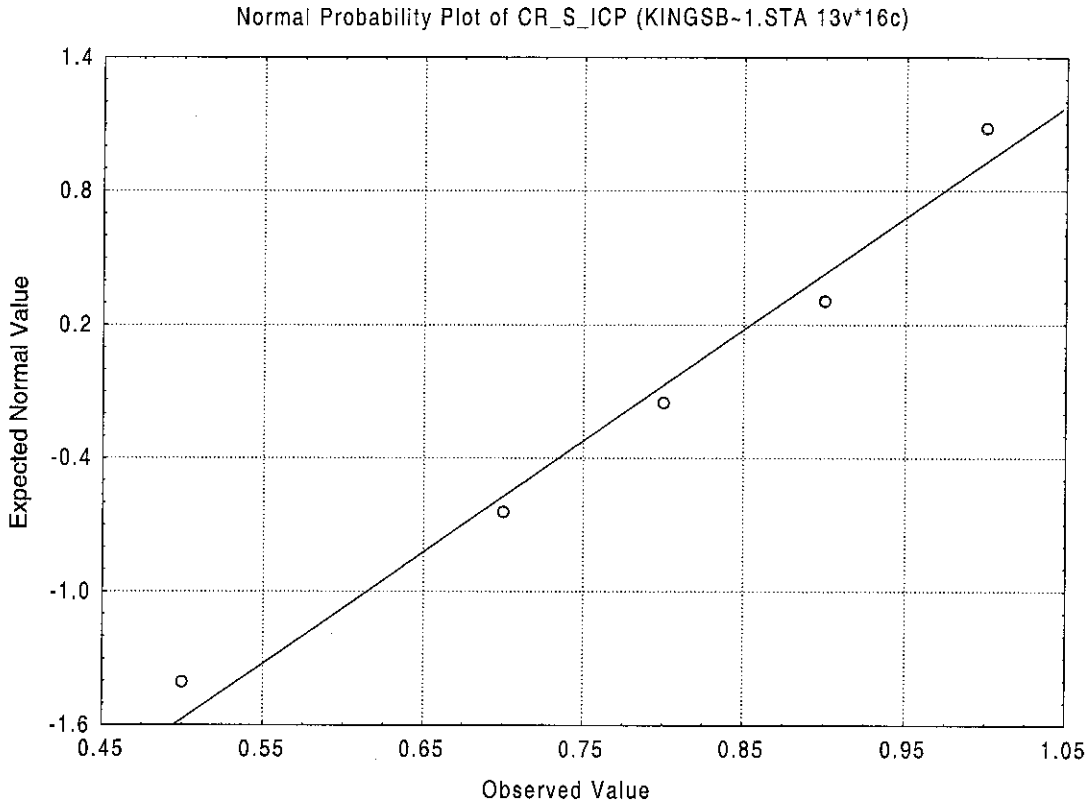
From observing the Normal Probability Plot of Macoma AS_S_ICP the lowest value is somewhat lower than the linear fit. Therefore, there is some evidence that the Macoma AS_S_ICP at one site may be less than the others. The site of the lowest observed value for Macoma AS_S_ICP is E-KB01-3 Macoma. The KB01-Control Macoma had the highest recorded Mocoma AS_S_ICP (32.8 mg/kg)

Macoma CD_S_ICP



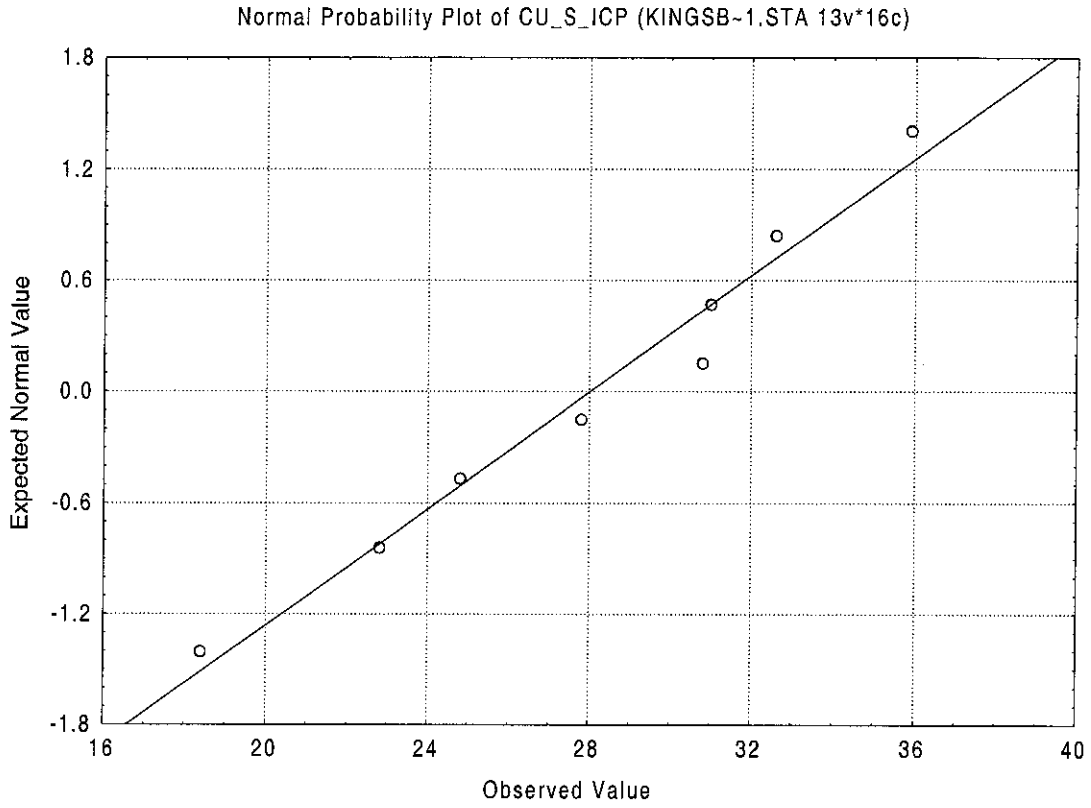
The reported measured values are too discrete to make useful conclusions under this method.

Macoma CR_S_ICP



From observing the Normal Probability Plot of Macoma CR_S_ICP there is slight indication the lowest value is more extreme than the linear fit, but the value does not seem to be extreme enough to conclude that RS-KB01 has less Macoma CR_S_ICP than the other sites.

Macoma CU_S_ICP



From observing the Normal Probability Plot of Macoma CU_S_ICP there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Macoma CU_S_ICP solids at one site is greater than another.

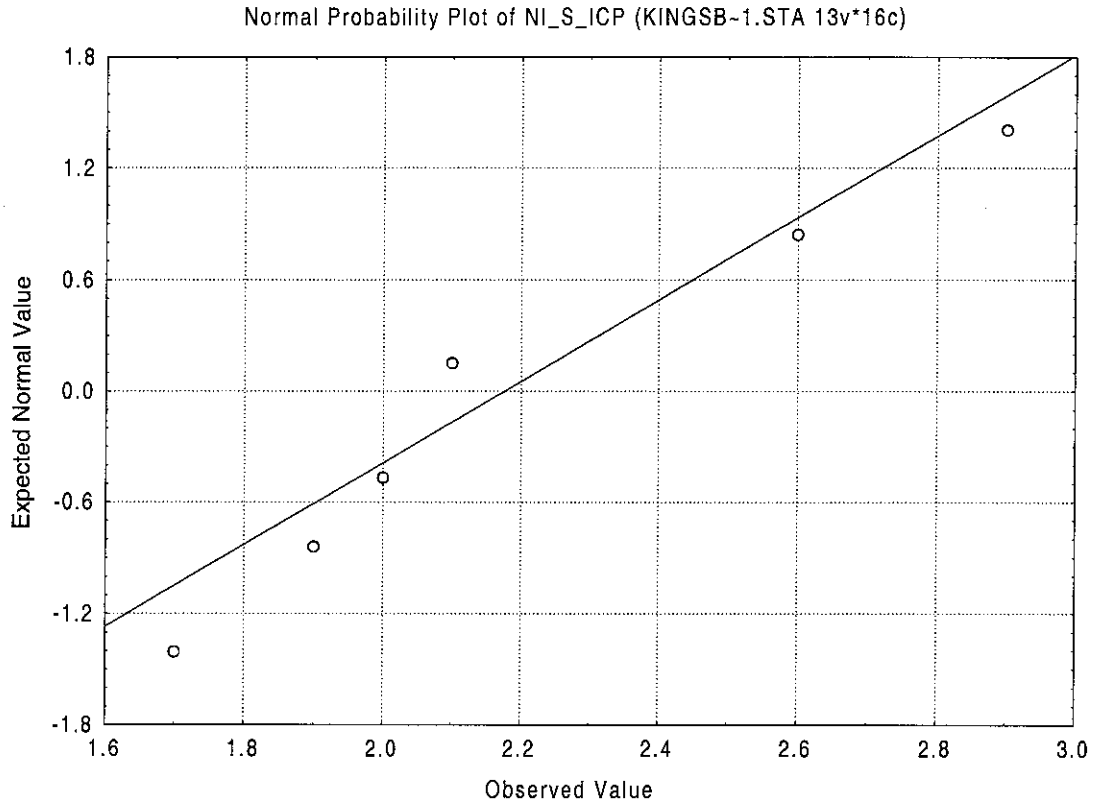
Macoma PB_S_ICP

Due to the number of measurements below the detection limit the analysis cannot be done

Macoma HG_S_CVAA

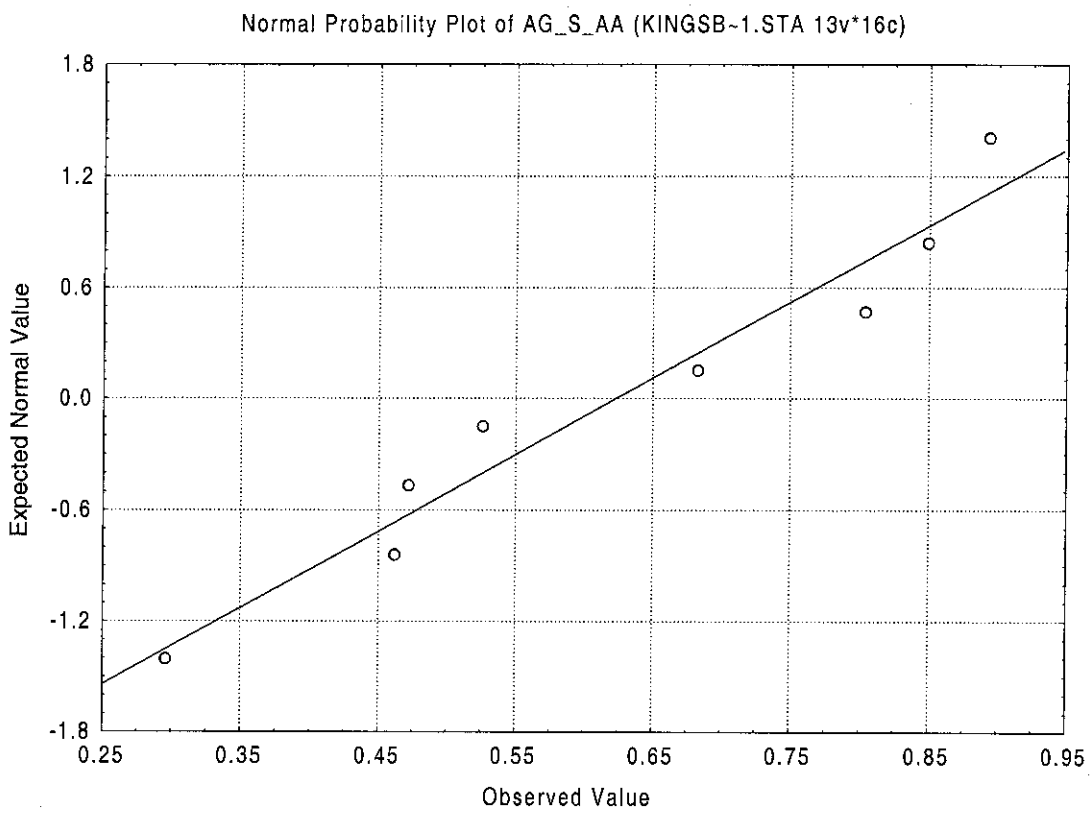
Since all the measurements were below the detection limit the analysis cannot be done

Macoma NI_S_ICP



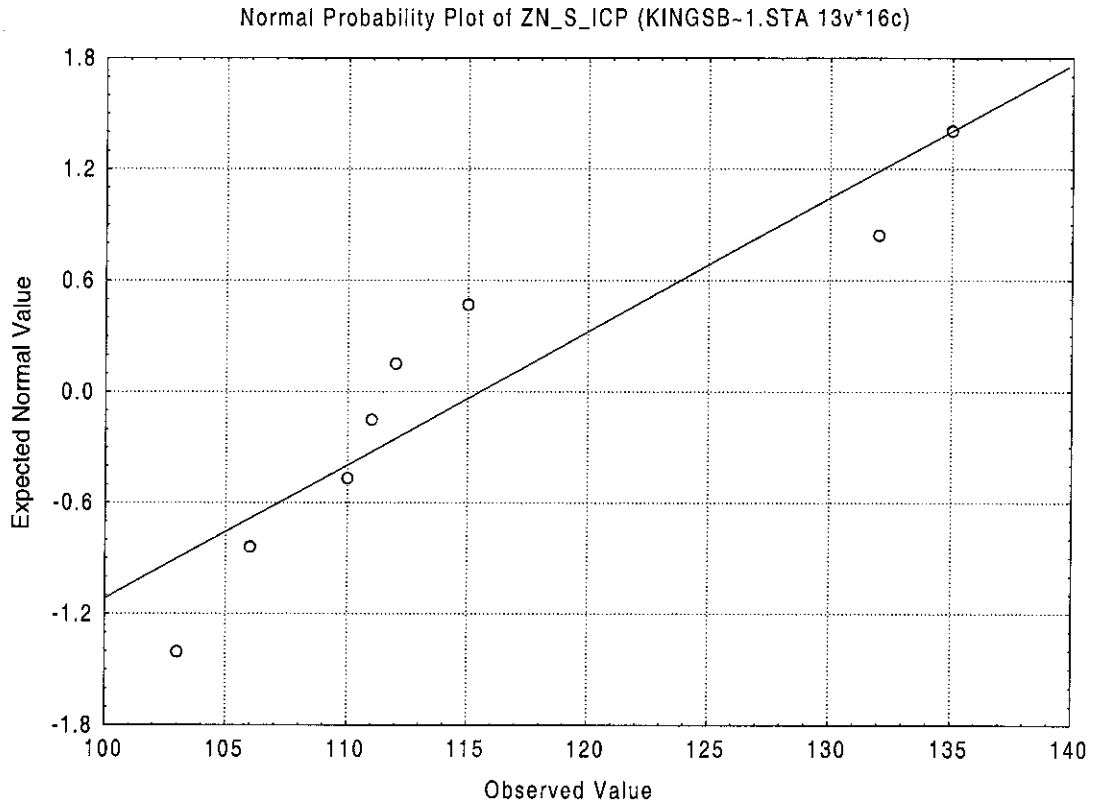
From observing the Normal Probability Plot of Macoma NI_S_ICP there is a slight indication the highest value is more extreme than the linear fit, but the value does not seem to be extreme enough to conclude that E-KB01-2 has more Macoma NI_S_ICP than the other sites.

Macoma AG_S_AA



From observing the Normal Probability Plot of Macoma AG_S_AA there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Macoma AG_S_AA at one site is greater than another.

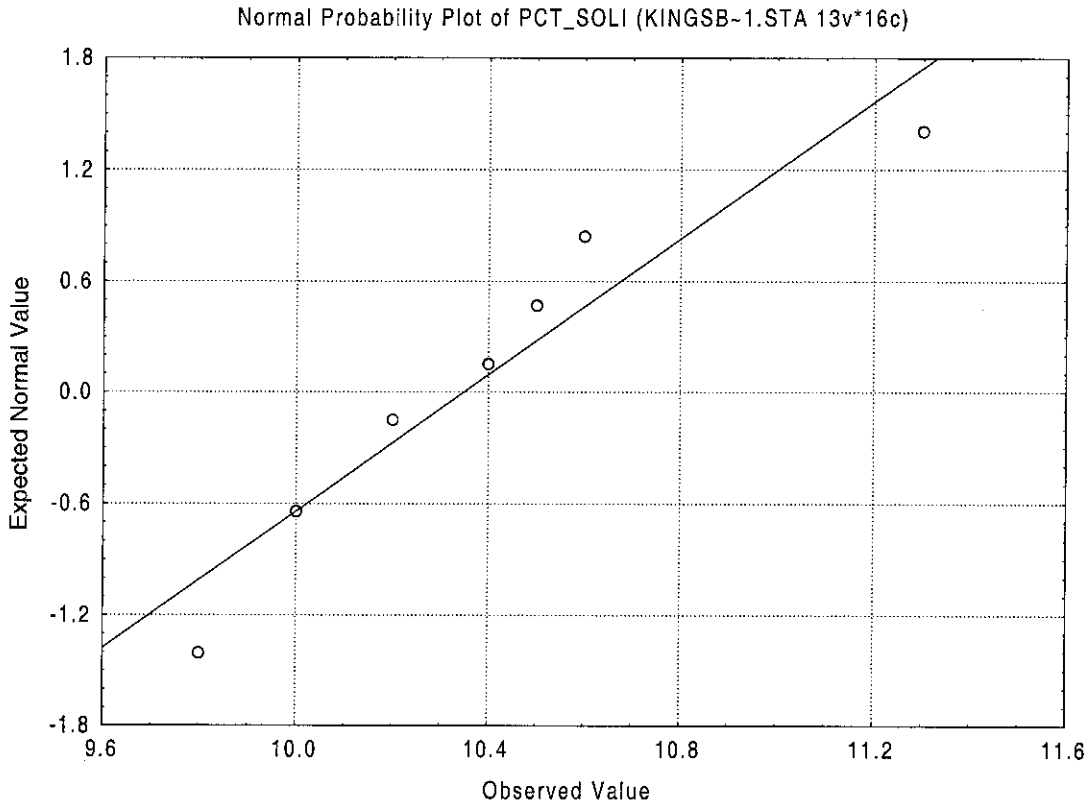
Macoma ZN_S_ICP



From observing the Normal Probability Plot of Macoma ZN_S_ICP there is a slight indication the highest values are more extreme than the linear fit, but the values do not seem to be extreme enough to conclude that KB01-Control and E-KB01-2 has more Macoma ZN_S_ICP than the other sites.

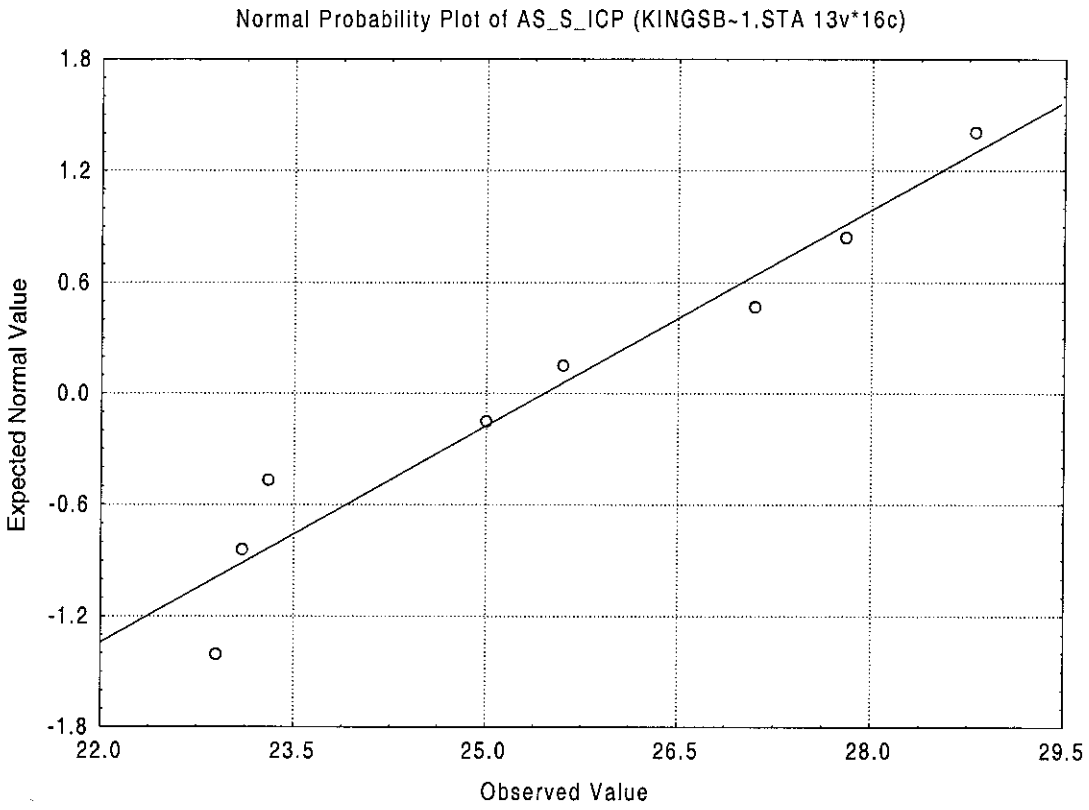
Nereis

Nereis PCT Solids



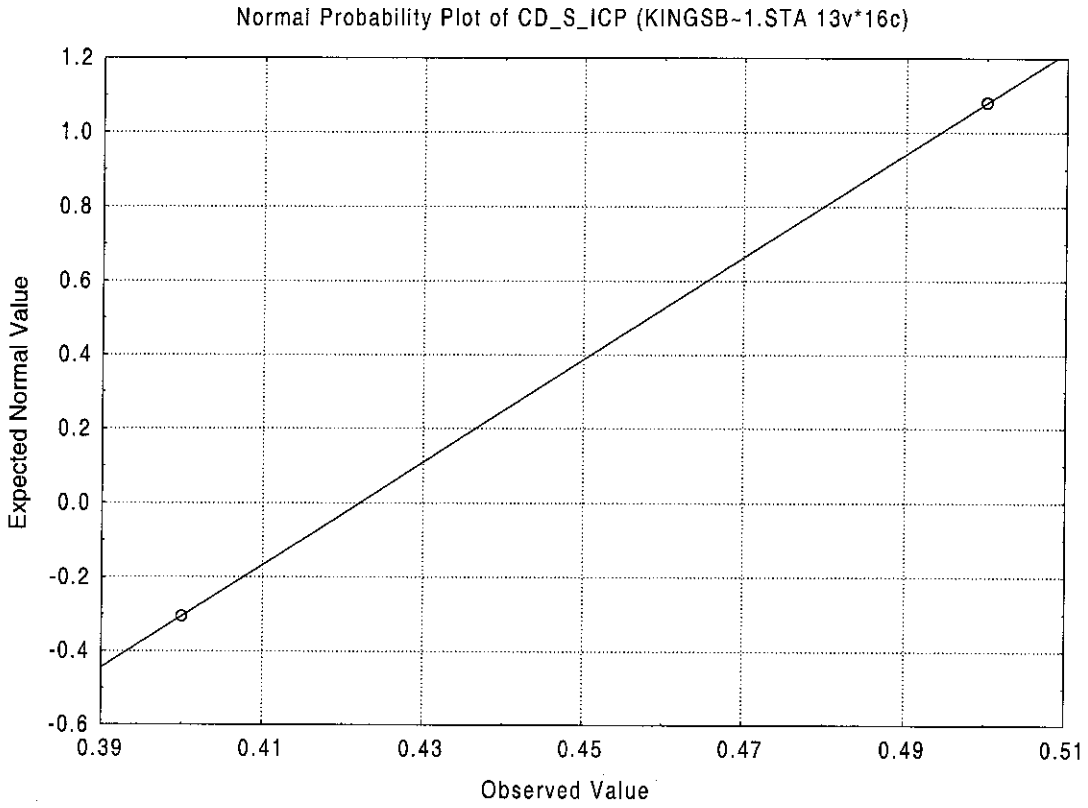
From observing the Normal Probability Plot of Nereis PCT Solids the highest value is somewhat higher than the linear fit. Therefore, there is some evidence that Nereis PCT Solids at one site may be greater than the others. The site of the highest observed value for of Nereis PCT Solids is RS-KB01-1 at 11.3%.

Nereis AS_S_ICP



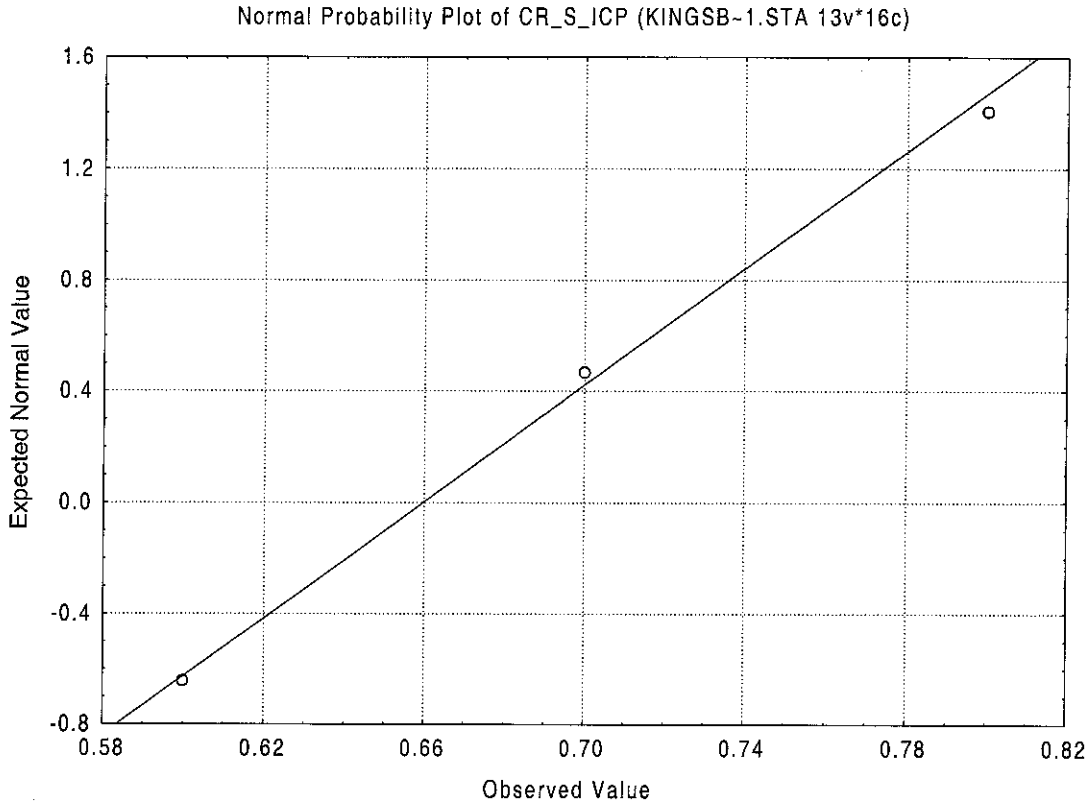
From observing the Normal Probability Plot of Nereis AS_S_ICP there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Nereis AS_S_ICP at one site is greater than another.

Nereis CD_S_ICP



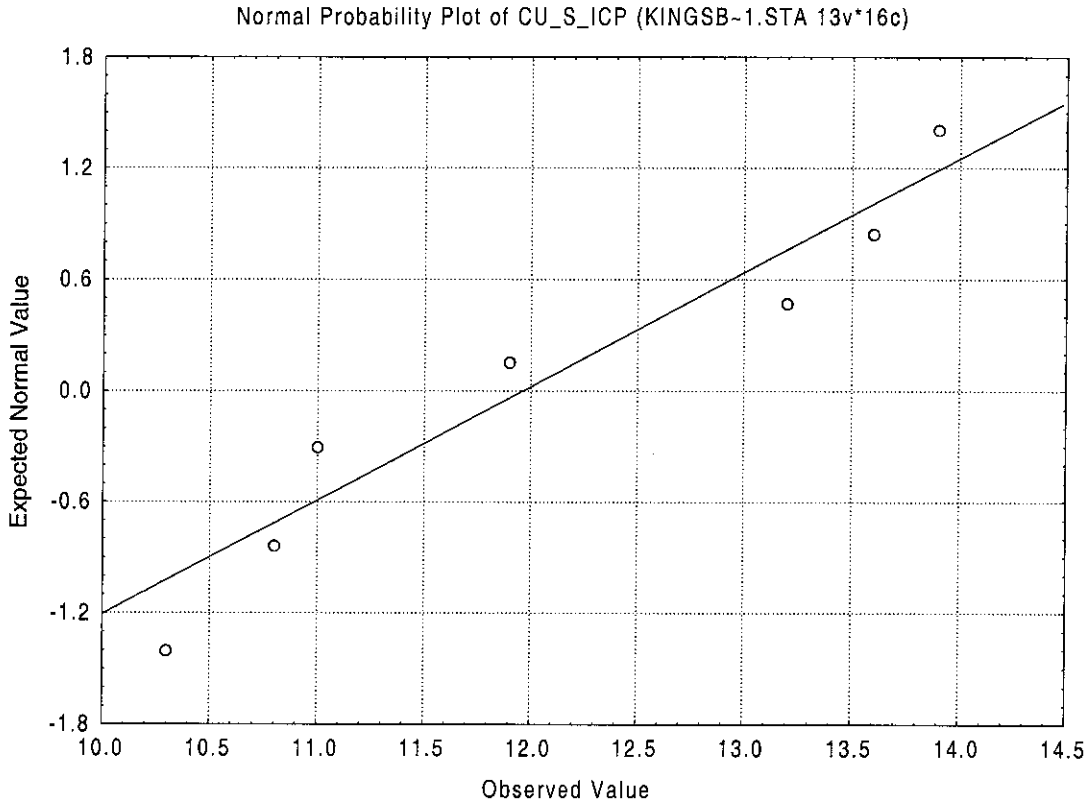
The reported measured values are too discrete to make useful conclusions under this method.

Nereis CR_S_ICP



The reported measured values are too discrete to make useful conclusions under this method.

Nereis CU_S_ICP



From observing the Normal Probability Plot of Nereis CU_S_ICP there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Nereis CU_S_ICP at one site is greater than another.

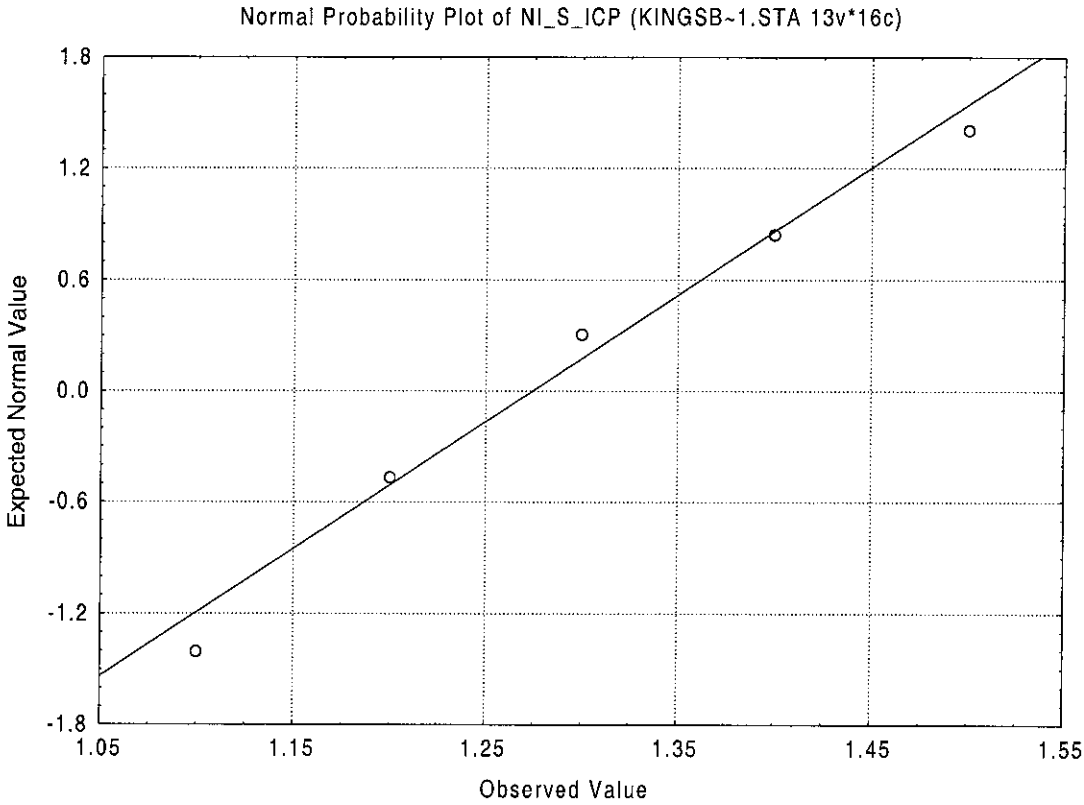
Nereis PB_S_ICP

Due to the number of measurements below the detection limit the analysis cannot be done

Nereis HG_S_CVAA

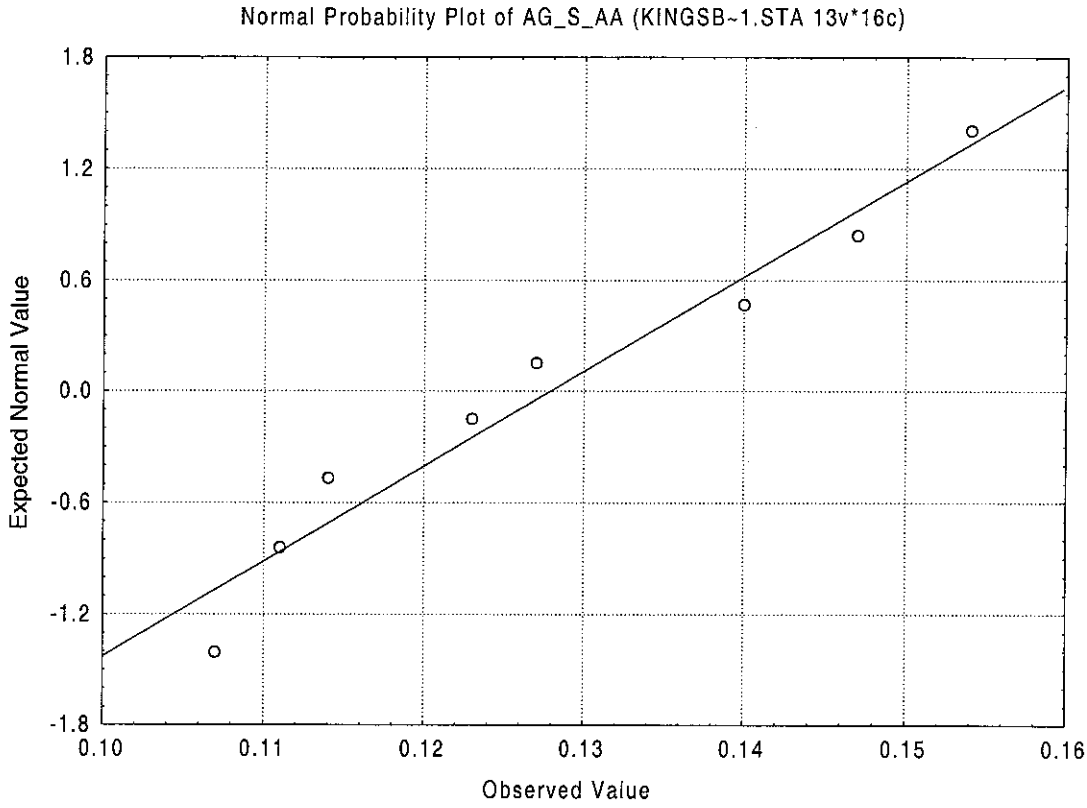
Since all the measurements were below the detection limit the analysis cannot be done

Nereis NI_S_ICP



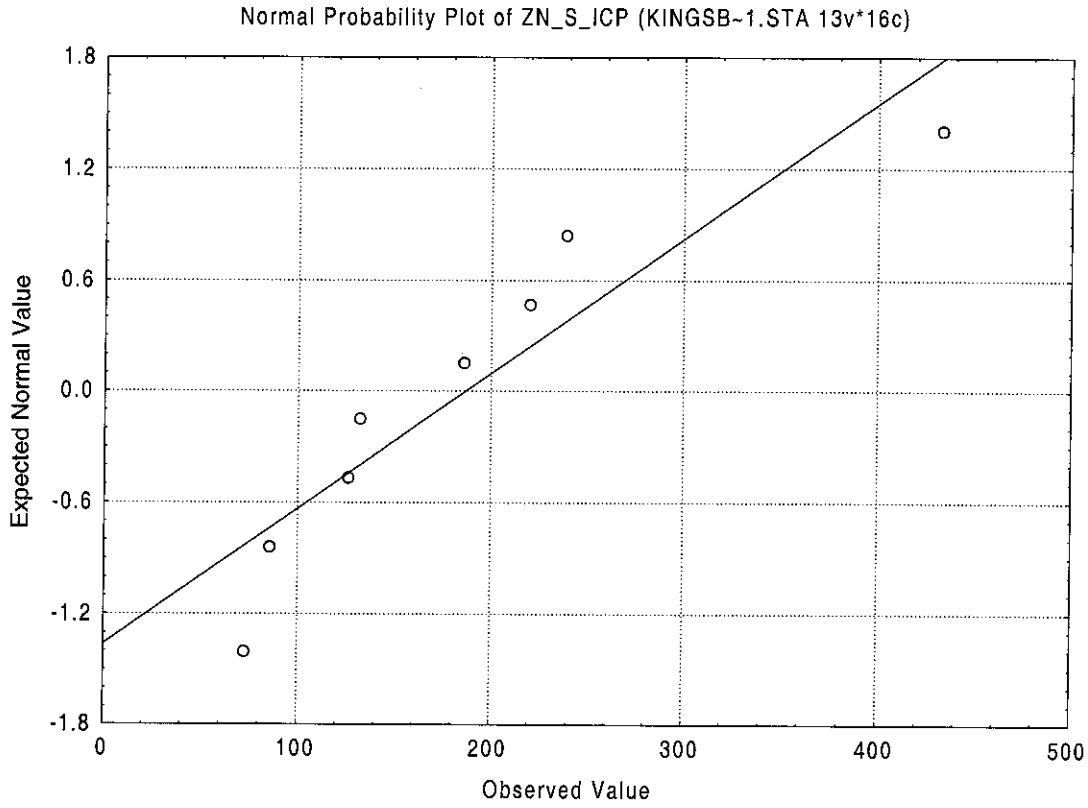
From observing the Normal Probability Plot of Nereis NI_S_ICP there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Nereis NI_S_ICP at one site is greater than another.

Nereis AG_S_AA



From observing the Normal Probability Plot of Nereis AG_S_AA there is no indication the lowest values or highest values are more extreme than the linear fit, therefore there is no evidence that the Nereis AG_S_AA at one site is greater than another.

Nereis ZN_S_ICP



From observing the Normal Probability Plot of Nereis ZN_S_ICP the highest value is somewhat higher than the linear fit. Therefore, there is some evidence that Nereis ZN_S_ICP at one site may be greater than the others. The site of the highest observed value for of Nereis ZN_S_ICP is RS-KB01-4 at 433 kg/mg.