1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 22, 2008 Analytical Report for Service Request No: K0805642

Tim Hammermeister
Science Application International Corporation (SAI
18912 North Creek Parkway
Suite 101
Bothell, WA 98011

RE: Fidalgo Bay Sediment Investigation/01-0236-00-1204-200

Dear Tim:

Enclosed are the results of the samples submitted to our laboratory on June 24, 2008. For your reference, these analyses have been assigned our service request number K0805642.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3260. You may also contact me via Email at HJacky@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

For Harvey Jacky 8/22/08
Project Chemist

HJ/ll

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Science Application International Corporation (SAIC)
Service Request No.:	K0805642
Project:	Fidalgo Bay Sediment Investigation / 01-0236-00-1204-200
Date Received:	06/24-26/08
Sample Matrix:	Animal Tissue

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty seven animal tissue samples were received for analysis at Columbia Analytical Services on 06/24-26/08. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored frozen at –20°C upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Silver for sample A3R1-DC-tissue was outside control criteria because of suspected matrix interference. As a result of the interference, the results for this analyte might contain a low bias. No further corrective action was taken.

The control criteria for matrix spike recovery of Zinc for sample A3R1-DC-tissue is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed

PCB Aroclors by EPA Method 8082

Continuing Calibration Verification (CCV) Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the CCV criteria are met for both columns, the higher of the two sample results is generally reported. The primary evaluation criterion was exceeded for Aroclor 1260 in CCV 0805F039. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard meets the alternative evaluation criteria. The results for all target Aroclors are reported from the column with an acceptable CCV. The data quality is not affected. No further corrective action was necessary.

The upper control criterion was exceeded for the following analytes in Continuing Calibration Verifications (CCV) 0804R042: Aroclor 1016 and Aroclor 1260; and 0804R050: Aroclor 1016, Aroclor 1260, and Decachlorobiphenyl. The field samples analyzed in this sequence did not contain any target Aroclors. Since the apparent problem equates to a potential high bias, the data quality is not affected. The results for Decachlorobiphenyl are reported from the column with the acceptable CCV. No further corrective action was required.

Approved by _____ **Date** 08/22/08

Elevated Method Reporting Limits:
The reporting limit is elevated for one or more target Aroclors in several field samples. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the reporting limit. The results are flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed

Approved by_____ **Date** 08/22/07

Chain of Custody Documentation

K0805642

SAIC
From Science to Solutions

18912 North Creek Parkway, Suite 101
Bothell, Washington 98011
TEL: 425.485.5800 • FAX: 425.485.5566

CHAIN OF CUSTODY RECORD

Project No.: 01-0236-00-1204-200 Project Mgr: Tim Hammermeister
Project Name: Fidalgo Bay Sediment Investigation
Project Location: Fidalgo Bay, Anacortes, WA
Sample Collectors: MB, JB, CH, BD
Client Name: ~~Dept~~ Washington Dept. of Ecology

Sample ID	Depth	Matrix	Date	Time	# of Containers	Analyses / Tests: Metals/PCBs										Comments
A1R2-manila	N/A	Tissue	6/17/2008	1100	1	X										3002
A1R1-manila	N/A	↓	↓	↓	1	X										3004
A1R3-manila	N/A	↓	↓	↓	1	X										3006
A2R2-bentnose	N/A	Tissue	6/17/2008	13:55	1	X										3008
A2R3-bentnose	N/A	Tissue	6/17/2008	13:55	1	X										3010
A2R1-manila	N/A	Tissue	6/17/2008	1415	1	X										3012
A3R1-horse	N/A	Tissue	6/17/2008	1455	1	X										3013
A3R2-macoma	N/A	Tissue	6/17/2008	1515	1	X										3016 - Didn't receive
A3R3-manila	N/A	Tissue	6/17/2008	1530	1	X										3018
A4R1-bentnose	N/A	Tissue	6/17/2008	1545	1	X										3020 - Didn't receive
A4R2-bentnose	N/A	Tissue	6/17/2008	1545	1	X										3022
A4R3-bentnose	N/A	Tissue	6/17/2008	1545	1	X										3024

Shipping Information
Number of Shipping Containers:
Date Shipped:
Carrier:
Waybill No.:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Tracy Slade	Signature:	Signature:
Date/Time: 06/23/08 1535	Date/Time: 6/24/08 0800	Date/Time:	Date/Time:
Affiliation: SAIC	Affiliation: CAS	Affiliation:	Affiliation:

• White: Lab Returns to Originator Upon Receipt of Samples • Canary: Lab Retains • Pink: Lab Returns to Project Manager with Final Report • Goldenrod: Retained by Sampler

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K0805642

SAIC
From Science to Solutions

18912 North Creek Parkway, Suite 101
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TEL: 425.485.5800 • FAX: 425.485.5566

CHAIN OF CUSTODY RECORD

Project No.: 01-0236-00-1204-200 Project Mgr: Tim Hammermeister
Project Name: Fidalgo Bay Sediment Investigation
Project Location: Fidalgo Bay, Anacortes, WA
Sample Collectors: MB, JB, CH, BD
Client Name: Washington Dept. of Ecology

Sample ID	Depth	Matrix	Date	Time	# of Containers	Analyses / Tests: Metals / PCBs	Comments
A3R1-ES	N/A	Tissue	6/18/2008	1022	1	X	3036
A3R1-SF	N/A	Tissue	6/18/2008	1022	1	X	3038 Didn't receive
A3R2-SF	N/A	Tissue	6/18/2008	1022	1	X	3040
A3R3-SF	N/A	Tissue	6/18/2008	1022	1	X	3042
A2R1-SF	N/A	Tissue	6/18/2008	1100	1	X	3044
A2R2-SF	N/A	Tissue	6/18/2008	1100	1	X	3046
A2R3-SF	N/A	Tissue	6/18/2008	1100	1	X	3048
A2R1-RR-other Aliquot	N/A	tissue	6/23/08	1400	1	X	3052
A2R1-RR-tissue	N/A	tissue	6/23/08	1400	1	X	3054
A2R2-RR-Aliquot	N/A	↓	↓	↓	1	X	3056
A2R2-DC-tissue	↓	↓	↓	↓	1	X	3058
A2R2-DC-other	↓	↓	↓	↓	1	X	3060

Shipping Information
Number of Shipping Containers:
Date Shipped:
Carrier:
Waybill No.:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Tracy Black	Signature:	Signature:
Date/Time: 06/23/08 1535	Date/Time: 6/24/08 0800	Date/Time:	Date/Time:
Affiliation: SAIC	Affiliation: CAS	Affiliation:	Affiliation:

• White: Lab Returns to Originator Upon Receipt of Samples • Canary: Lab Retains • Pink: Lab Returns to Project Manager with Final Report • Goldenrod: Retained by Sampler

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SAIC
From Science to Solutions

18912 North Creek Parkway, Suite 101
Bothell, Washington 98011
TEL: 425.485.5800 • FAX: 425.485.5566

CHAIN OF CUSTODY RECORD

Project No.: 01-0236-00-1204-200 Project Mgr: Tim Hammermeister
Project Name: Fidalgo Bay Sediment Investigation
Project Location: Fidalgo Bay, Anacortes, WA
Sample Collectors: MB, JB, CH, BO
Client Name: Washington Dept of Ecology

Sample ID	Depth	Matrix	Date	Time	# of Containers	Analyses / Tests: Metals/PCBs	Comments
A2R3-DC-hepato	N/A	tissue	6/23/08	1400	1	X	3062
A2R3-DC-tissue					1	X	3064
A2R3-DC-other					1	X	3066
A3R1-DC-other					1	X	3068
A3R1-DC-hepato					1	X	3070
A3R1-DC-tissue					1	X	3072
A3R2-DC-hepato					1	X	3074
A3R2-DC-other					1	X	3076
A3R2-DC-tissue	↓	↓	↓	↓	1	X	3078
A4R1-RR-hepato					1	X	~~3080~~ 3082
A4R1-RR-tissue					1	X	3080
A4R1-RR-other	↓	↓	↓	↓	1	X	3084

Shipping Information
Number of Shipping Containers:
Date Shipped:
Carrier:
Waybill No.:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 06/23/08 1535	Date/Time: 6/24/08 0800	Date/Time:	Date/Time:
Affiliation: SAIC	Affiliation: CAS	Affiliation:	Affiliation:

• White: Lab Returns to Originator Upon Receipt of Samples • Canary: Lab Retains • Pink: Lab Returns to Project Manager with Final Report • Goldenrod: Retained by Sampler

K0805642

SAIC
From Science to Solutions

18912 North Creek Parkway, Suite 101
Bothell, Washington 98011
TEL: 425.485.5800 • FAX: 425.485.5566

CHAIN OF CUSTODY RECORD

Project No.: 01-0036-00-1204-300 Project Mgr: Tim Hammermeister
Project Name: Fidalgo Bay Sediment Investigation
Project Location: Fidalgo Bay, Anacortes, WA
Sample Collectors: MB, JB, CH, BD
Client Name: Washington Dept of Ecology

Sample ID	Depth	Matrix	Date	Time	# of Containers	Analyses / Tests: Metals/PCBs	Comments
A4R2-RR-liver	N/A	tissue	6/23/08	1450	1 (MB)	X	3086
A4R2-RR-other	↓	↓	↓	↓	1	X	3088
A4R2-RR-tissue	↓	↓	↓	↓	1	X	3090

Shipping Information
Number of Shipping Containers:
Date Shipped:
Carrier:
Waybill No.:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Tracy Black	Signature:	Signature:
Date/Time: 06/23/08 1535	Date/Time: 6/24/08 0800	Date/Time:	Date/Time:
Affiliation: SAIC	Affiliation: CAS	Affiliation:	Affiliation:

• White: Lab Returns to Originator Upon Receipt of Samples • Canary: Lab Retains • Pink: Lab Returns to Project Manager with Final Report • Goldenrod: Retained by Sampler

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC 4f

Client / Project: AXYS Service Request K08 6543

Received: 6/26/08 Opened: 6/26/08 By: A.J

1. Samples were received via? *US Mail* (Fed Ex) *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (Cooler) (Box) *Envelope* *Other* _____ NA
3. Were custody seals on coolers? NA Y (N) If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 1202162007388 NA Y N

5. Temperature of cooler(s) upon receipt (°C):	-1.8			
Temperature Blank (°C):	-			
6. If applicable, list Chain of Custody Numbers:				

7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Baggies* *Bubble Wrap* (Gel Packs) *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA (Y) N
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* (NA) Y N
14. Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: AHK1 - bottles - 6/27/08 1515

Replacement Sample

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC 4f

Client / Project: S.A.I.C Service Request K08 805642

Received: 6/24/08 Opened: 6/24/08 By: TSal

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ NA
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 2-front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: _____ NA (Y) N

5. Temperature of cooler(s) upon receipt (°C):	1.0	2.0		
Temperature Blank (°C):	n/a	n/a		
6. If applicable, list Chain of Custody Numbers:				

7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
9. **Did all bottles arrive in good condition (unbroken)?** *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate in the table below* (Y) N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** Y (N)
13. Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* (NA) Y N
15. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
A2R2-DC-hepato (3056)	A2R2-RR-hepato (3056)		
A4R2-RR-Other (3087)	A4R2-RR-Other (3088)		

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: 6 Did not receive A3R2 - Macoma (3018) 6/17/08 @ 1515
A4R1 - benthose (3020) 6/17/08 1545 - listed on COC, A3R1 - SF (3038) ~~also~~ 6/18/08 1022 also -
Rec'd 3 Samples not on COC: A2R3 - Polychaeta (3026) 6/18/08 @ 852, A3R1 - Polychaeta (3028) 6/18/08 @ 853
A4R1 - Polychaeta (3032) 6/18/08 @ 911

Metals

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Science Application International Corporation (SAIC)	**Service Request:**	K0805642
Project:	Fidalgo Bay Sediment Investigation/01-0236-00-1204-200	**Date Collected:**	06/17/08
Sample Matrix:	Tissue	**Date Received:**	06/24/08

Solids, Total

Prep Method:	NONE	Units:	PERCENT
Analysis Method:	Freeze Dry	Basis:	Wet
Test Notes:			

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
A1R2-manila	K0805642-001	07/07/08	15.7	
A1R1-manila	K0805642-002	07/07/08	16.4	
A1R3-manila	K0805642-003	07/07/08	13.3	
A2R2-bentnose	K0805642-004	07/07/08	16.8	
A2R3-bentnose	K0805642-005	07/07/08	19.0	
A2R1-manila	K0805642-006	07/07/08	20.9	
A3R1-horse	K0805642-007	07/07/08	19.2	
A3R3-manila	K0805642-008	07/07/08	18.6	
A4R2-bentnose	K0805642-009	07/07/08	17.7	
A4R3-bentnose	K0805642-010	07/07/08	19.9	
A3R1-ES	K0805642-011	07/07/08	24.8	
A3R2-SF	K0805642-012	07/07/08	19.7	
A3R3-SF	K0805642-013	07/07/08	19.7	
A2R1-SF	K0805642-014	07/07/08	23.1	
A2R2-SF	K0805642-015	07/07/08	21.1	
A2R3-SF	K0805642-016	07/07/08	20.2	
A2R1-RR-other	K0805642-017	07/07/08	14.1	
A2R1-RR-tissue	K0805642-018	07/07/08	17.4	
A2R2-RR-hepato	K0805642-019	07/07/08	22.7	
A2R2-DC-tissue	K0805642-020	07/07/08	21.2	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Science Application International Corporation (SAIC)	**Service Request:**	K0805642
Project:	Fidalgo Bay Sediment Investigation/01-0236-00-1204-200	**Date Collected:**	06/23/08
Sample Matrix:	Tissue	**Date Received:**	06/24/08

Solids, Total

Prep Method:	NONE	Units:	PERCENT
Analysis Method:	Freeze Dry	Basis:	Wet
Test Notes:			

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
A2R2-DC-other	K0805642-021	07/07/08	18.2	
A2R3-DC-hepato	K0805642-022	07/07/08	19.0	
A2R3-DC-tissue	K0805642-023	07/07/08	20.8	
A2R3-DC-other	K0805642-024	07/07/08	14.8	
A3R1-DC-other	K0805642-025	07/07/08	14.3	
A3R1-DC-hepato	K0805642-026	07/07/08	18.6	
A3R1-DC-tissue	K0805642-027	07/07/08	21.0	
A3R2-DC-hepato	K0805642-028	07/07/08	17.2	
A3R2-DC-other	K0805642-029	07/07/08	14.5	
A3R2-DC-tissue	K0805642-030	07/07/08	20.9	
A4R1-RR-hepato	K0805642-031	07/07/08	26.5	
A4R1-RR-tissue	K0805642-032	07/07/08	21.0	
A4R1-RR-other	K0805642-033	07/07/08	19.5	
A4R2-RR-hepato	K0805642-034	07/07/08	25.1	
A4R2-RR-other	K0805642-035	07/07/08	14.6	
A4R2-RR-tissue	K0805642-036	07/07/08	18.3	
A4R1-bentnose	K0805642-037	07/07/08	18.1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Science Application International Corporation (SAIC)
Project: Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
Sample Matrix: Tissue

Service Request: K0805642
Date Collected: 06/18/08
Date Received: 06/24/08
Date Extracted: NA
Date Analyzed: 07/07/08

Duplicate Summary
Total Metals

Sample Name: A3R2-SF
Lab Code: K0805642-012D
Test Notes:

Units: PERCENT
Basis: Wet

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total	NA	Freeze Dry	19.7	20.7	20.2	5	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Science Application International Corporation (SAIC)
Project: Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
Sample Matrix: Tissue

Service Request: K0805642
Date Collected: 06/23/08
Date Received: 06/24/08
Date Extracted: NA
Date Analyzed: 07/07/08

Duplicate Summary
Total Metals

Sample Name: A3R1-DC-tissue
Lab Code: K0805642-027D
Test Notes:

Units: PERCENT
Basis: Wet

Analyte	Prep Method	Analysis Method	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total	NA	Freeze Dry	21.0	20.8	20.9	<1	

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application International Corporation (SAIC) **Service Request:** K0805642
Project Name: Fidalgo Bay Sediment Investigation
Project No.: 01-0236-00-1204-200

Sample Name:	Lab Code:
A1R2-manila	K0805642-001
A1R2-manilaD	K0805642-001D
A1R2-manilaS	K0805642-001S
A1R1-manila	K0805642-002
A1R3-manila	K0805642-003
A2R2-bentnose	K0805642-004
A2R3-bentnose	K0805642-005
A2R1-manila	K0805642-006
A3R1-horse	K0805642-007
A3R3-manila	K0805642-008
A4R2-bentnose	K0805642-009
A4R3-bentnose	K0805642-010
A3R1-ES	K0805642-011
A3R2-SF	K0805642-012
A3R2-SFD	K0805642-012D
A3R2-SFS	K0805642-012S
A3R3-SF	K0805642-013
A2R1-SF	K0805642-014
A2R2-SF	K0805642-015
A2R3-SF	K0805642-016
A2R1-RR-other	K0805642-017
A2R1-RR-tissue	K0805642-018
A2R2-RR-hepato	K0805642-019
A2R2-DC-tissue	K0805642-020
A2R2-DC-tissueD	K0805642-020D
A2R2-DC-tissueS	K0805642-020S
A2R2-DC-other	K0805642-021
A2R3-DC-hepato	K0805642-022
A2R3-DC-tissue	K0805642-023
A2R3-DC-other	K0805642-024
A3R1-DC-other	K0805642-025
A3R1-DC-hepato	K0805642-026
A3R1-DC-tissue	K0805642-027
A3R1-DC-tissueD	K0805642-027D
A3R1-DC-tissueS	K0805642-027S
A3R2-DC-hepato	K0805642-028
A3R2-DC-other	K0805642-029
A3R2-DC-tissue	K0805642-030
A4R1-RR-hepato	K0805642-031

Comments:

Approved By: _____ **Date:** 7/29/09

Columbia Analytical Services

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application International Corporation (SAIC) **Service Request:** K0805642
Project Name: Fidalgo Bay Sediment Investigation
Project No.: 01-0236-00-1204-200

Sample Name:	Lab Code:
A4R1-RR-tissue	K0805642-032
A4R1-RR-other	K0805642-033
A4R2-RR-hepato	K0805642-034
A4R2-RR-other	K0805642-035
A4R2-RR-tissue	K0805642-036
A4R1-bentnose	K0805642-037
Method Blank	K0805642-MB1
Method Blank	K0805642-MB2

Comments:

Approved By: _____ **Date:** 7/29/09

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A1R2-manila
Lab Code: K0805642-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.50	0.08	5.0	07/18/08	07/24/08	15.7		
Cadmium	6020	0.020	0.005	5.0	07/18/08	07/24/08	1.890		
Chromium	6010B	0.20	0.07	1.0	07/18/08	07/24/08	1.91		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	12.0		
Lead	6020	0.020	0.004	5.0	07/18/08	07/24/08	6.61		
Mercury	7471A	0.018	0.004	1.0	07/14/08	07/15/08	0.161		
Nickel	6020	0.20	0.04	5.0	07/18/08	07/24/08	8.50		
Silver	6020	0.020	0.007	5.0	07/18/08	07/24/08	2.20		
Zinc	6020	0.50	0.08	5.0	07/18/08	07/24/08	83.1		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Science Application Internationa	**Service Request:**	K0805642
Project No.:	01-0236-00-1204-200	**Date Collected:**	6/17/2008
Project Name:	Fidalgo Bay Sediment Investigati	**Date Received:**	6/24/2008
Matrix:	TISSUE	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: A1R1-manila **Lab Code:** K0805642-002

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.48	0.08	5.0	07/18/08	07/24/08	12.2		
Cadmium	6020	0.019	0.005	5.0	07/18/08	07/24/08	1.740		
Chromium	6010B	0.19	0.07	1.0	07/18/08	07/24/08	2.00		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	12.3		
Lead	6020	0.019	0.004	5.0	07/18/08	07/24/08	6.31		
Mercury	7471A	0.020	0.004	1.0	07/14/08	07/15/08	0.097		
Nickel	6020	0.19	0.04	5.0	07/18/08	07/24/08	5.85		
Silver	6020	0.019	0.007	5.0	07/18/08	07/24/08	1.70		
Zinc	6020	0.48	0.08	5.0	07/18/08	07/24/08	71.1		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A1R3-manila
Lab Code: K0805642-003

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.49	0.08	5.0	07/18/08	07/24/08	23.6		
Cadmium	6020	0.020	0.005	5.0	07/18/08	07/24/08	2.370		
Chromium	6010B	0.20	0.07	1.0	07/18/08	07/24/08	2.13		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	8.34		
Lead	6020	0.020	0.004	5.0	07/18/08	07/24/08	7.33		
Mercury	7471A	0.020	0.004	1.0	07/14/08	07/15/08	0.223		
Nickel	6020	0.20	0.04	5.0	07/18/08	07/24/08	7.33		
Silver	6020	0.020	0.007	5.0	07/18/08	07/24/08	1.90		
Zinc	6020	0.49	0.08	5.0	07/18/08	07/24/08	70.5		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Science Application Internationa	**Service Request:**	K0805642
Project No.:	01-0236-00-1204-200	**Date Collected:**	6/17/2008
Project Name:	Fidalgo Bay Sediment Investigati	**Date Received:**	6/24/2008
Matrix:	TISSUE	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: A2R2-bentnose **Lab Code:** K0805642-004

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.49	0.08	5.0	07/18/08	07/24/08	13.8		
Cadmium	6020	0.019	0.005	5.0	07/18/08	07/24/08	1.820		
Chromium	6010B	0.20	0.07	1.0	07/18/08	07/24/08	3.04		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	11.8		
Lead	6020	0.019	0.004	5.0	07/18/08	07/24/08	6.69		
Mercury	7471A	0.020	0.004	1.0	07/14/08	07/15/08	0.090		
Nickel	6020	0.20	0.04	5.0	07/18/08	07/24/08	3.26		
Silver	6020	0.019	0.007	5.0	07/18/08	07/24/08	0.453		
Zinc	6020	0.49	0.08	5.0	07/18/08	07/24/08	79.1		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A2R3-bentnose
Lab Code: K0805642-005

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.48	0.08	5.0	07/18/08	07/24/08	15.2		
Cadmium	6020	0.019	0.005	5.0	07/18/08	07/24/08	0.649		
Chromium	6010B	0.19	0.07	1.0	07/18/08	07/24/08	30.5		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	22.9		
Lead	6020	0.019	0.004	5.0	07/18/08	07/24/08	8.31		
Mercury	7471A	0.019	0.004	1.0	07/14/08	07/15/08	0.062		
Nickel	6020	0.19	0.04	5.0	07/18/08	07/24/08	16.6		
Silver	6020	0.019	0.007	5.0	07/18/08	07/24/08	0.304		
Zinc	6020	0.48	0.08	5.0	07/18/08	07/24/08	72.4		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A2R1-manila
Lab Code: K0805642-006

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.45	0.07	5.0	07/18/08	07/24/08	14.1		
Cadmium	6020	0.018	0.004	5.0	07/18/08	07/24/08	0.713		
Chromium	6010B	0.18	0.06	1.0	07/18/08	07/24/08	28.4		
Copper	6020	0.09	0.05	5.0	07/18/08	07/24/08	30.3		
Lead	6020	0.018	0.004	5.0	07/18/08	07/24/08	10.2		
Mercury	7471A	0.020	0.004	1.0	07/14/08	07/15/08	0.094		
Nickel	6020	0.18	0.04	5.0	07/18/08	07/24/08	15.7		
Silver	6020	0.018	0.006	5.0	07/18/08	07/24/08	0.606		
Zinc	6020	0.45	0.07	5.0	07/18/08	07/24/08	62.7		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A3R1-horse
Lab Code: K0805642-007

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.43	0.07	5.0	07/18/08	07/24/08	14.7		
Cadmium	6020	0.017	0.004	5.0	07/18/08	07/24/08	0.785		
Chromium	6010B	0.17	0.06	1.0	07/18/08	07/24/08	11.6		
Copper	6020	0.09	0.04	5.0	07/18/08	07/24/08	27.1		
Lead	6020	0.017	0.003	5.0	07/18/08	07/24/08	6.55		
Mercury	7471A	0.019	0.004	1.0	07/14/08	07/15/08	0.047		
Nickel	6020	0.17	0.03	5.0	07/18/08	07/24/08	9.17		
Silver	6020	0.017	0.006	5.0	07/18/08	07/24/08	0.764		
Zinc	6020	0.43	0.07	5.0	07/18/08	07/24/08	102		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A3R3-manila
Lab Code: K0805642-008

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.46	0.07	5.0	07/18/08	07/24/08	10.6		
Cadmium	6020	0.019	0.005	5.0	07/18/08	07/24/08	1.450		
Chromium	6010B	0.19	0.07	1.0	07/18/08	07/24/08	2.06		
Copper	6020	0.09	0.05	5.0	07/18/08	07/24/08	9.87		
Lead	6020	0.019	0.004	5.0	07/18/08	07/24/08	6.08		
Mercury	7471A	0.018	0.004	1.0	07/14/08	07/15/08	0.059		
Nickel	6020	0.19	0.04	5.0	07/18/08	07/24/08	2.05		
Silver	6020	0.019	0.006	5.0	07/18/08	07/24/08	0.430		
Zinc	6020	0.46	0.07	5.0	07/18/08	07/24/08	65.0		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Science Application Internationa
Project No.: 01-0236-00-1204-200
Project Name: Fidalgo Bay Sediment Investigati
Matrix: TISSUE

Service Request: K0805642
Date Collected: 6/17/2008
Date Received: 6/24/2008
Units: mg/Kg
Basis: DRY

Sample Name: A4R2-bentnose
Lab Code: K0805642-009

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020	0.48	0.08	5.0	07/18/08	07/24/08	12.5		
Cadmium	6020	0.019	0.005	5.0	07/18/08	07/24/08	0.732		
Chromium	6010B	0.19	0.07	1.0	07/18/08	07/24/08	33.4		
Copper	6020	0.10	0.05	5.0	07/18/08	07/24/08	75.9		
Lead	6020	0.019	0.004	5.0	07/18/08	07/24/08	29.9		
Mercury	7471A	0.019	0.004	1.0	07/14/08	07/15/08	0.084		
Nickel	6020	0.19	0.04	5.0	07/18/08	07/24/08	17.3		
Silver	6020	0.019	0.007	5.0	07/18/08	07/24/08	0.348		
Zinc	6020	0.48	0.08	5.0	07/18/08	07/24/08	88.0		

Comments: