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Invoice

Page 1 of 1
INVOICED ON: April 16, 2009
RECEIVED ON: April 02, 2009

SDG #: **KCEL0902**
INVOICE #: [redacted]
ACCOUNT CODE #:

INVOICE TO: King County Environmental Lab
322 W Ewing St
Seattle, WA 98119

REMIT TO: [redacted]

ATTEN: Fritz Grothkopp
WORK ID: Inter-Calibration Study
P.O.#:

ATTEN: Accounts Receivable
PHONE: [redacted]
TERM: Net 30 Days

REPORT TO: King County Environmental Lab
322 W Ewing St
Seattle, WA 98119

ATTEN: Fritz Grothkopp

DESCRIPTION	UNIT PRICE	QUANTITY	AMOUNT
[redacted]			

FORM LTL-ACC-2.0

Date Printed: 4/16/2009 16:55

[redacted]

[redacted]

Client: King County Environmental Lab

Project Name: **Inter-Calibration Study**

SDG Number: **KCEL0902**

Date Received: **4/2/2009 10:00:00AM**

Date Reported: **04/16/2009**

Enclosed are the analytical results for the sample(s) received by the laboratory on April 2, 2009. The results relate only to the samples included in this report. Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after July 17, 2009. This report shall not be reproduced, except in full, without the written consent of [redacted]

If you have any question concerning the report, please feel free to contact me.

Respectfully submitted,

[redacted]

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Sample Summary

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Sample Identification:

Sample Description	Lab Sample ID	Collection Date	Type
L47718-1	KCEL0902-001	03/25/2009	Water
L47718-2	KCEL0902-002	03/25/2009	Water
L47718-3	KCEL0902-003	03/25/2009	Water
L47718-4	KCEL0902-004	03/25/2009	Water
L47718-5	KCEL0902-005	03/25/2009	Water
L47718-6	KCEL0902-006	03/25/2009	Water
L47718-7	KCEL0902-007	03/25/2009	Water
L47718-8	KCEL0902-008	03/25/2009	Water
L47718-9	KCEL0902-009	03/25/2009	Water
L47718-10	KCEL0902-010	03/25/2009	Water
L47718-11	KCEL0902-011	03/25/2009	Water
L47718-12	KCEL0902-012	03/25/2009	Water
L47718-13	KCEL0902-013	03/25/2009	Water
L47718-14	KCEL0902-014	03/25/2009	Water
L47718-15	KCEL0902-015	03/25/2009	Water
L47718-16	KCEL0902-016	03/25/2009	Water
L47718-17	KCEL0902-017	03/25/2009	Water
L47718-18	KCEL0902-018	03/25/2009	Water
L47718-19	KCEL0902-019	03/25/2009	Water
L47718-20	KCEL0902-020	03/25/2009	Water
L47718-21	KCEL0902-021	03/25/2009	Water
L47718-22	KCEL0902-022	03/25/2009	Water
L47718-23	KCEL0902-023	03/25/2009	Water
L47718-24	KCEL0902-024	03/25/2009	Water
L47718-25	KCEL0902-025	03/25/2009	Water
L47718-26	KCEL0902-026	03/25/2009	Water
L47718-27	KCEL0902-027	03/25/2009	Water
L47718-28	KCEL0902-028	03/25/2009	Water
L47718-29	KCEL0902-029	03/25/2009	Water
L47718-30	KCEL0902-030	03/25/2009	Water
L47718-31	KCEL0902-031	03/25/2009	Water
L47718-32	KCEL0902-032	03/25/2009	Water
L47718-33	KCEL0902-033	03/25/2009	Water
L47718-34	KCEL0902-034	03/25/2009	Water
L47718-35	KCEL0902-035	03/25/2009	Water
L47718-36	KCEL0902-036	03/25/2009	Water

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Test Request Summary

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Pace Project No.:		Project Manager:	

Samples	Methods									
Client Sample ID	200.8 1	200.8 2	245.1 3	245.1 4	SM2340 5					
L47718-1		X			X					
L47718-2		X			X					
L47718-3		X			X					
L47718-4				X						
L47718-5				X						
L47718-6				X						
L47718-7		X			X					
L47718-8		X			X					
L47718-9		X			X					
L47718-10				X						
L47718-11				X						
L47718-12				X						
L47718-13		X			X					
L47718-14		X			X					
L47718-15		X			X					
L47718-16				X						
L47718-17				X						
L47718-18				X						
L47718-19	X									
L47718-20	X									
L47718-21	X									
L47718-22			X							
L47718-23			X							
L47718-24			X							
L47718-25	X									
L47718-26	X									
L47718-27	X									
L47718-28			X							
L47718-29			X							
L47718-30			X							
L47718-31	X									

Determinations:

1 = 200.8 - Dissolved Metals, water by ICP/MS

2 = 200.8 - Metals, water by ICP/MS

3 = 245.1 Dissolved Mercury, Water, ug/L

4 = 245.1 Mercury, Water, ug/L

5 = SM2340B Hardness by Calculation (ICPMS), water

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Test Request Summary

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Pace Project No.:		Project Manager:	

Samples	Methods									
Client Sample ID	200.8 1	200.8 2	245.1 3	245.1 4	SM2340 5					
L47718-32	X									
L47718-33	X									
L47718-34			X							
L47718-35			X							
L47718-36			X							

Determinations:

1 = 200.8 - Dissolved Metals, water by ICP/MS

2 = 200.8 - Metals, water by ICP/MS

3 = 245.1 Dissolved Mercury, Water, ug/L

4 = 245.1 Mercury, Water, ug/L

5 = SM2340B Hardness by Calculation (ICPMS), water

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-1**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-001
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**15.1**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**8.8**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**65.0**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**11**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-2**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-002
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**15.5**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**8.7**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**65.7**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**11**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-3**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-003
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**14.7**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**9.1**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**64.9**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**11**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-4**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-004
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-5**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-005
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-6**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-006
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-7**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-007
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**43.1**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**27.5**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**163**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**33**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-8**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-008
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**42.4**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**26.9**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**158**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**35**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-9**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-009
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**43.2**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**26.7**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**165**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**34**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-10**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-010
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-11**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-011
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-12**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-012
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-13**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-013
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**2.9**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**1.8**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**8.6**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	J
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**120**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-14**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-014
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**2.3**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**1.7**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**7.6**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	J
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**120**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-15**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-015
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**2.0**	ug/L	1	0.095	2.0	Q39780	04/06/2009	04/07/2009	
Lead	**1.7**	ug/L	1	0.11	1.0	Q39780	04/06/2009	04/07/2009	
Zinc	**7.7**	ug/L	1	1.9	10.0	Q39780	04/06/2009	04/07/2009	J
Total Hardness (as CaCO3)				Methods (Preparation | Analysis): **NONE | SM2340B**					
Hardness	**120**	mg/L	1		1	Q39852	04/08/2009	04/08/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-16**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-016
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-17**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-017
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-18**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-018
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-19**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-019
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**4.4**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	
Lead	**0.33**	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	J
Zinc	**13.3**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-20**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-020
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**4.7**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	
Lead	ND	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	
Zinc	**13.9**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-21**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-021
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**4.0**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	
Lead	ND	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	
Zinc	**12.8**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-22**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-022
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-23**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-023
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-24**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-024
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-25**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-025
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**8.9**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/16/2009	
Lead	**1.1**	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/16/2009	
Zinc	**32.4**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/16/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-26**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-026
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**9.5**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	
Lead	**0.98**	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	J
Zinc	**30.2**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-27**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-027
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**8.8**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	
Lead	**0.85**	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	J
Zinc	**30.5**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-28**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-028
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-29**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-029
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-30**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-030
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-31**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-031
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**0.63**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	J
Lead	ND	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	
Zinc	**2.2**	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	J,R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-32**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-032
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**0.90**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	J
Lead	ND	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	
Zinc	ND	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-33**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-033
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Metals by Inductively Coupled Plasma/Mass Spectrometry				Methods (Preparation | Analysis): **METHOD | 200.8**					
Copper	**0.65**	ug/L	1	0.095	2.0	Q39881	04/09/2009	04/09/2009	J
Lead	ND	ug/L	1	0.11	1.0	Q39881	04/09/2009	04/09/2009	
Zinc	ND	ug/L	1	1.9	10.0	Q39881	04/09/2009	04/09/2009	R,N

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-34**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-034
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-35**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-035
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Analytical Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

Client Sample ID:	**L47718-36**	Matrix:	Water
Collected On:	3/25/09 0:00	Lab Sample ID:	KCEL0902-036
Received On:	4/2/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Mercury, Semi-automated Cold Vapor				Methods (Preparation | Analysis): **METHOD | 245.1**					
Mercury	ND	ug/L	1	0.0720	0.200	Q39790	04/07/2009	04/07/2009	

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LAB F (event 2)

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Quality Control Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

QC Batch(es):	**Q39780**	Analysis Method:	**200.8**
QC Batch Method:	200.8PR	Analysis Description:	Metals by Inductively Coupled Plasma/Mass Spectrometry
Preparation Started:	04/06/2009		

Blank: B040609ICPMSW02

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Copper	**0.34**	ug/L	1	0.095	2	J
Lead	**0.78**	ug/L	1	0.11	1	J
Zinc	**2.0**	ug/L	1	1.9	10	J

LCS: S040609ICPMSW02

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Copper	54.6	ug/L	1	50.0	109	85-115	
Lead	51.8	ug/L	1	50.0	104	85-115	
Zinc	56.4	ug/L	1	50.0	113	85-115	

Matrix Spike: KCEL0902-015MS Parent Sample: KCEL0902-015

Matrix Spike Duplicate: KCEL0902-015MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Copper	51.5	ug/L	1	50.0	**2.0**	99	70-130			
	52.6			50.0		101	70-130	2	20	
Lead	52.3	ug/L	1	50.0	**1.7**	101	70-130			
	53.7			50.0		104	70-130	3	20	
Zinc	58.1	ug/L	1	50.0	**7.7**	101	70-130			
	59.7			50.0		104	70-130	3	20	

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LAB F (event 2)

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Quality Control Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

QC Batch(es):	**Q39790**	Analysis Method:	**245.1**
QC Batch Method:	245.2PR	Analysis Description:	Mercury, Semi-automated Cold Vapor
Preparation Started:	04/07/2009		

Blank: B040709HGW01

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Mercury	ND	ug/L	1	0.0720	0.1	
Mercury	ND	ug/L	1	0.0720	0.1	

LCS: S040709HGW01

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Mercury	4.04	ug/L	1	3.98	102	85-118	

Matrix Spike: KCEL0902-004MS — Parent Sample: KCEL0902-004

Matrix Spike Duplicate: KCEL0902-004MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Mercury	4.85	ug/L	1	5.00	ND	97	85-118			
	4.85			5.00		97	85-118	0	11	

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LAB F (event 2)

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Quality Control Results

Project:	Inter-Calibration Study	SDG Number:	KCEL0902
Project Number:		Project Manager:	

QC Batch(es):	**Q39881**	Analysis Method:	**200.8**
QC Batch Method:	200.8PR	Analysis Description:	Metals by Inductively Coupled Plasma/Mass Spectrometry
Preparation Started:	04/09/2009		

Blank: B040909ICPMSW10

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Copper	**0.20**	ug/L	1	0.095	2	J
Lead	ND	ug/L	1	0.11	1	
Zinc	ND	ug/L	1	1.9	10	

LCS: S040909ICPMSW10

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Copper	50.4	ug/L	1	50.0	101	85-115	
Lead	53.6	ug/L	1	50.0	107	85-115	
Zinc	53.0	ug/L	1	50.0	106	85-115	

Matrix Spike: KCEL0902-033MS Parent Sample: KCEL0902-033

Matrix Spike Duplicate: KCEL0902-033MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Copper	57.5	ug/L	1	50.0	**0.65**	114	70-130			
	48.9			50.0		96	70-130	16	20	
Lead	53.7	ug/L	1	50.0	ND	107	70-130			
	46.4			50.0		93	70-130	14	20	
Zinc	67.3	ug/L	1	50.0	ND	132	70-130			*,R,N
	51.1			50.0		100	70-130	27	20	#,R,N

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LAB F (event 2)

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Notes and Definitions

SDG No: **KCEL0902**

Report Specific Notes:

ND	The analyte of interest was not detected, to the limit of detection indicated
J	The value reported is below the routine reporting limit and should be considered an estimate
N	Associated MS and/or MSD recovery result outside established control limits
R	Associated MS/MSD RPD outside established control limits
#	RPD outside established control limits
*	Recovery result outside established control limits

Laboratory Reporting Conventions:

DF	Dilution factor
Detection Limit Threshold	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value.
MDL	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value. Detection Limit Thresholds are listed on the report only if the data has been evaluated below the Reporting Limit. Results between the Reporting Limit and the Detection Limit Threshold are reported as estimated results.
IDL	Instrument Detection Limit. IDLs are in instrument basis units. Reported results for samples are normalized appropriately using the preparation and analysis steps performed.
Reporting Limit	The minimum detection limit for reporting unqualified results under routine laboratory operating conditions. Typically this is the PQL but it may be a different concentration on a project-specific basis.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
% Rec	Percent recovery.
Limits	The upper and lower control limits for spike recoveries.
RPD	Relative Percent Difference. The relative difference between duplicate results (matrix spike, blank spike, or sample duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements (see RPD).
Spike conc.	The measured concentration, in sample basis units, of a spiked sample.
PQL	Practical Quantitation Limit. The quantitation limit achievable by the laboratory under routine operating conditions. The PQL will be normalized for deviations from these conditions such as dilutions, dry weight adjustment, etc.
LCS	Laboratory Control Sample

EL-09-18

KING COUNTY ENVIRONMENTAL LABORATORY 322 West Ewing Street Seattle, WA 98119

LABORATORY WORK ORDER

Project Name: King County Intercalibration Study

Project Number: 421973

KCEL 0902 LF# 11200

Samplers:

Laboratory Project Manager: Fritz Grothkopp, 206-684-2327

Sample #	Locator	Matrix	Collect Date	Parameters: Total Cu, Pb, Zn	Total Mercury	Dissolved Cu, Pb, Zn	Dissolved Mercury	Hardness				No. of Containers	Notes
L47718-1	Ewing St.	Water	25-Mar-09	x				x					Aliquot 1
L47718-2	Ewing St.	Water	25-Mar-09	x				x					Aliquot 2
L47718-3	Ewing St.	Water	25-Mar-09	x				x					Aliquot 3
L47718-4	Ewing St.	Water	25-Mar-09		x								Aliquot 1
L47718-5	Ewing St	Water	25-Mar-09		x								Aliquot 2
L47718-6	Ewing St	Water	25-Mar-09		x								Aliquot 3
L47718-7	GL2-3	Water	25-Mar-09	x				x					Aliquot 1
L47718-8	GL2-3	Water	25-Mar-09	x				x					Aliquot 2
L47718-9	GL2-3	Water	25-Mar-09	x				x					Aliquot 3
L47718-10	GL2-3	Water	25-Mar-09		x								Aliquot 1
L47718-11	GL2-3	Water	25-Mar-09		x								Aliquot 2
L47718-12	GL2-3	Water	25-Mar-09		x								Aliquot 3
L47718-13	C370	Water	25-Mar-09	x				x					Aliquot 1
L47718-14	C370	Water	25-Mar-09	x				x					Aliquot 2
L47718-15	C370	Water	25-Mar-09	x				x					Aliquot 3
L47718-16	C370	Water	25-Mar-09		x								Aliquot 1
L47718-17	C370	Water	25-Mar-09		x								Aliquot 2
L47718-18	C370	Water	25-Mar-09		x								Aliquot 3
L47718-19	Ewing St.	Water	25-Mar-09			x							Aliquot 1
L47718-20	Ewing St.	Water	25-Mar-09			x							Aliquot 2
L47718-21	Ewing St	Water	25-Mar-09			x							Aliquot 3
L47718-22	Ewing St.	Water	25-Mar-09				x						Aliquot 1
L47718-23	Ewing St	Water	25-Mar-09				x						Aliquot 2
L47718-24	Ewing St	Water	25-Mar-09				x						Aliquot 3
L47718-25	GL2-3	Water	25-Mar-09			x							Aliquot 1
L47718-26	GL2-3	Water	25-Mar-09			x							Aliquot 2
L47718-27	GL2-3	Water	25-Mar-09			x							Aliquot 3
L47718-28	GL2-3	Water	25-Mar-09				x						Aliquot 1
L47718-29	GL2-3	Water	25-Mar-09				x						Aliquot 2
L47718-30	GL2-3	Water	25-Mar-09				x						Aliquot 3
L47718-31	C370	Water	25-Mar-09			x							Aliquot 1
L47718-32	C370	Water	25-Mar-09			x							Aliquot 2
L47718-33	C370	Water	25-Mar-09			x							Aliquot 3
L47718-34	C370	Water	25-Mar-09				x						Aliquot 1
L47718-35	C370	Water	25-Mar-09				x						Aliquot 2
L47718-36	C370	Water	25-Mar-09				x						Aliquot 3

Additional Comments:

Total Number of Bottles:

TAT = 14 days

Use EPA 200.8 or SM3125 for Copper, Lead & Zinc

Use EPA 245.1 or 245.2 for Mercury

Use Sample L47718-7, 10, 25, 28 for QC analysis

RELINQUISHED BY		RECEIVED BY	
Signature	Date 4-2-09	Signature	Date 4/2/09
Printed Name Jason Kinnard	Time 0900	Printed Name Peter Bunkell	Time 1000
Organization KCEL		Organization Pace	

LAB F (event 2)

Cooler Receipt Form

[redacted]

SDG: KCEL0902 Taken By: Client

Cooler: Styrofoam Transferred: Client

COC #:

Project: Inter-Calibration Study (King County Environmental Lab)

Date samples were received at the laboratory: **4/2/2009**

Date cooler was opened: **4/2/2009 10:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **NO**
   if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**

   Date On Custody Seal: **4/3/2009** Custody Seals Description: **1 on each side**

3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: PD

B. LOG-IN PHASE:

Date samples were logged-in: **4/4/2009 3:18PM**

Logged-in by Peter Barnhill (sign)

9. Describe type of packing in cooler:

   Bubble wrap and air bags

10. Were all bottles sealed in separate plastic bags? ..... **NO**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were VOA samples compliant with headspace, septum and cap? ..... **YES**
18. Temperatures: **19.0, 14.3, 13.2**

DISCREPANCIES:

COC did not have the collection times recorded.
Cooler was received with no ice.

Date Printed: 4/4/2009 15:22

LAB F (event 2)

Supplemental Sample Receipt Log

[redacted]

SDG: KCEL0902

Cooler: Styrofoam

Temperatures: 19.0, 14.3, 13.2

COC #:

Sample	Bottle #	Bottle Description	pH	VOA*
KCEL0902-001	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-002	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-003	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-004	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-005	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-006	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-007	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-008	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-009	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-010	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-011	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-012	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-013	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-014	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-015	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-016	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-017	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-018	0001	500 ml cylinder, poly, HNO3	<2	N/A
KCEL0902-019	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-020	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-021	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-022	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-023	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-024	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-025	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-026	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-027	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-028	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-029	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-030	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-031	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A

* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

LAB F (event 2)

Supplemental Sample Receipt Log

[redacted]

SDG: KCEL0902

Cooler: Styrofoam

Temperatures: 19.0, 14.3, 13.2

COC #:

Sample	Bottle #	Bottle Description	pH	VOA*
KCEL0902-032	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-033	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-034	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-035	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A
KCEL0902-036	0001	500 ml cylinder, poly, HNO3, Filtered	<2	N/A

* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH