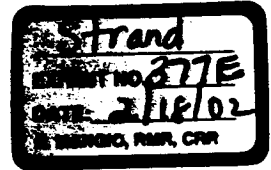




March 15, 2001

Service Request No: K2101434

John Strand
Airport Communities Coalition
1314 Cedar
Richland, WA 99352



Re: Water Quality Monitoring/00-101B

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on February 28, 2001. For your reference, these analyses have been assigned our service request number K2101434.

All analyses were performed according to our laboratory's quality assurance program. 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 samples analyzed.

Please call if you have any questions. My extension is 3316.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jeff Christian
Laboratory Director

JC/gep

Page 1 of 24

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.

0002

AR 021643

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 reported value is estimated because of the presence of matrix interference.
- 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.

00003

AR 021644

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IA
Lab Code: K2101434-001
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	103	50-150	03/07/01	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IB
Lab Code: K2101434-002
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	111	50-150	03/07/01	Acceptable

Comments: _____

01005

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IC
Lab Code: K2101434-003
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	109	50-150	03/07/01	Acceptable

Comments: _____

00006

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIA
Lab Code: K2101434-004
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	107	50-150	03/07/01	Acceptable

Comments: _____ **03007**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIB
Lab Code: K2101434-005
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	93	50-150	03/07/01	Acceptable

Comments: _____ **00008**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIC
Lab Code: K2101434-006
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	94	50-150	03/07/01	Acceptable

00009

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIIA
Lab Code: K2101434-007
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	89	50-150	03/07/01	Acceptable

Comments: _____

00010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIB
Lab Code: K2101434-008
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	99	50-150	03/07/01	Acceptable

Comments: _____

030701

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IIC
Lab Code: K2101434-009
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	11		5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	7.6		5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	106	50-150	03/07/01	Acceptable

Comments: _____ **00012**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IVA
Lab Code: K2101434-010
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	103	50-150	03/07/01	Acceptable

Comments: _____

00013

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IVB
Lab Code: K2101434-011
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	113	50-150	03/07/01	Acceptable

Comments: _____

0001

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: 02/27/2001
Date Received: 02/28/2001

Glycols

Sample Name: IVC
Lab Code: K2101434-012
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	110	50-150	03/07/01	Acceptable

Comments: _____

01015

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Collected: NA
Date Received: NA

Glycols

Sample Name: Method Blank
Lab Code: KWG0101087-4
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	
Propylene Glycol	ND	U	5.0	1	03/07/01	03/07/01	KWG0101087	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,3-Butylene Glycol	98	50-150	03/07/01	Acceptable

Comments: _____

00016

Appendix A

QA/QC Results

00017

AR 021658

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434

Surrogate Recovery Summary
Glycols

Extraction Method: METHOD
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
IA	K2101434-001	103
IB	K2101434-002	111
IC	K2101434-003	109
IIA	K2101434-004	107
IIB	K2101434-005	93
IIC	K2101434-006	94
IIIA	K2101434-007	89
IIIB	K2101434-008	99
IIIC	K2101434-009	106
IVA	K2101434-010	103
IVB	K2101434-011	113
IVC	K2101434-012	110
Method Blank	KWG0101087-4	98
IVCMS	KWG0101087-1	110
IVCDMS	KWG0101087-2	103
Lab Control Sample	KWG0101087-3	105

Surrogate Recovery Control Limits (%)

Sur1 = 2,3-Butylene Glycol 50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00018

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Extracted: 03/07/2001
Date Analyzed: 03/07/2001

Matrix Spike/Duplicate Matrix Spike Summary
Glycols

Sample Name: IVC
Lab Code: K2101434-012
Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low
Extraction Lot: KWG0101087

Analyte Name	Sample Result	IVCMS KWG0101087-1 Matrix Spike			IVCDMS KWG0101087-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Ethylene Glycol	ND	81	100	81	90	100	90	50-150	11	30
Propylene Glycol	ND	82	100	82	89	100	89	50-150	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

00019

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Airport Communities Coalition
Project: Water Quality Monitoring
Sample Matrix: Water

Service Request: K2101434
Date Extracted: 03/07/2001
Date Analyzed: 03/07/2001

Lab Control Spike Summary
Glycols

Extraction Method: METHOD
Analysis Method: 8015B

Units: mg/L
Basis: NA
Level: Low
Extraction Lot: KWG0101087

Analyte Name	Lab Control Sample KWG0101087-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Ethylene Glycol	86	100	86	50-150
Propylene Glycol	87	100	87	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.

00020

Appendix B
Chain of Custody
Information

00021

AR 021662

00022

AR 021663

PROJECT NAME: WATER QUALITY MONITORING
PROJECT NUMBER: 00-101B
PROJECT MANAGER: SOUTH STAND
COMPANY/ADDRESS: A.C.C.
PHONE: 360-943-4347 FAX: 360-946-1647
21630 11th Ave S. Des Moines WA
LABORATORY: [Signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
I A	9/21/01		1	W	<input type="checkbox"/> Semi-volatile Organics by GC/MS <input type="checkbox"/> 625 <input type="checkbox"/> 6270 <input type="checkbox"/> Volatile Organics <input type="checkbox"/> 624 <input type="checkbox"/> 6260 <input type="checkbox"/> Hydrocarbons (see below) <input type="checkbox"/> Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/> Fuel Fingerprint (FIC) <input type="checkbox"/> MW-HCID Screen <input type="checkbox"/> Oil & Grease/TPH <input type="checkbox"/> 413.1 <input type="checkbox"/> 418.1 <input type="checkbox"/> PCB's <input type="checkbox"/> Aroclors <input type="checkbox"/> Compomers <input type="checkbox"/> 608 <input type="checkbox"/> 6081A <input type="checkbox"/> 6141A <input type="checkbox"/> 6151A <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> 608 <input type="checkbox"/> 6081A <input type="checkbox"/> Chlorophenolics - 6151M <input type="checkbox"/> Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/> PAHS 6310 <input type="checkbox"/> 63M <input type="checkbox"/> GCMS-SM <input type="checkbox"/> PAH <input type="checkbox"/> Phenol <input type="checkbox"/> Phthalates <input type="checkbox"/> Metals, Total or Dissolved (See list below) <input type="checkbox"/> Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> pH, Cond, Cl, SO ₄ , PO ₄ , F, NO ₂ , <input type="checkbox"/> NO ₃ , BOD, TSS, TDS (circle) <input type="checkbox"/> NH ₃ -N, COD, Total-P, TKN, TOC, <input type="checkbox"/> DOC (circle) <input type="checkbox"/> TOC 8020 <input type="checkbox"/> AOX 1660 <input type="checkbox"/> 508 GLYCOLS	
I B	9/21/01		2	W		
I C	9/21/01		3	W		
II A	9/21/01		4	W		
II B	9/21/01		5	W		
II C	9/21/01		6	W		
III A	9/21/01		7	W		
III B	9/21/01		8	W		
III C	9/21/01		9	W		
IV A	9/21/01		10	W		

REPORT REQUIREMENTS
 I. Routine Report: Method Blank, Surrogate, as required
 II. Report Dup., MS, MSD as required
 III. Data Validation Report (includes all raw data)
 IV. CLP Deliverable Report
 V. EDD

INVOICE INFORMATION
 P.O. # _____
 Bill To: _____

TURNAROUND REQUIREMENTS
 24 hr. _____ 48 hr. _____
 5 Day _____
 Standard (10-15 working days)
 Provide FAX Results

Requested Report Dup: _____

RELINQUISHED BY: [Signature] Date/Time: 9/21/01 1:00pm
Signature: [Signature] **Date/Time:** 9/21/01 1:00pm
Printed Name: [Name] **Firm:** [Firm]

RECEIVED BY: [Signature] Date/Time: 9/21/01 1:00pm
Signature: [Signature] **Date/Time:** 9/21/01 1:00pm
Printed Name: [Name] **Firm:** [Firm]

INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)
SPECIAL INSTRUCTIONS/COMMENTS:
 W = WATER

Grade which metals are to be analyzed:
 Total Metals: N As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Pd Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 Dissolved Metals: N As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Pd Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

PROJECT NAME: **WATER QUALITY MONITORING**

PROJECT NUMBER: **00-101 B**

PROJECT MANAGER: **JOHN STRAND**

COMPANY/ADDRESS: **ACC**

21630 11th Ave S. Des Moines, WA

PHONE: **508-943-4347** FAX: **509-946-1647**

SAMPLES: **WATER BY DATE**

SAMPLE ID	DATE	TIME	LAB ID	MATRIX	NUMBER OF CONTAINERS
III B	8/27/01		11	W	Semivolatile Organics by GC/MS 626 <input type="checkbox"/> 6270 <input type="checkbox"/>
III C	8/27/01		17	W	Volatile Organics 624 <input type="checkbox"/> 6250 <input type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/>
					Hydrocarbons (see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/>
					<input type="checkbox"/> Fuel Fingerprint (FFC) <input type="checkbox"/> NW-HCID Screen
					Oil & Grease/TFPH 413.1 <input type="checkbox"/> 418.1 <input type="checkbox"/> 1664 BGT <input type="checkbox"/>
					PCB's 1664 BGT <input type="checkbox"/> 1664 HEM <input type="checkbox"/>
					Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/>
					Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/>
					Chlorophenolics - 8151M Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/>
					PAHs 6310 <input type="checkbox"/> 88M <input type="checkbox"/>
					GCMS-SIM PAH <input type="checkbox"/> Phenol <input type="checkbox"/> Phthalates <input type="checkbox"/>
					Metals, Total or Dissolved (See list below)
					Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/>
					pH, Cond., Cl, SO ₄ , PO ₄ , F, NO ₂ , NO ₃ , BOD, TSS, TDS (diss)
					NH ₄ -N, COD, Total-P, TKN, TOC, DOC (diss)
					TOC 8020 <input type="checkbox"/> AOX 1660 <input type="checkbox"/> 508 <input type="checkbox"/>
					Glycols
					REMARKS

REPORT REQUIREMENTS

- I. Routine Report: Method Blank, Surrogate, as required
- II. Report Dup. MS, MSD as required
- III. Data Validation Report (includes all raw data)
- IV. CLP Detachable Report
- V. EDD

INVOICE INFORMATION

P.O. # _____
 Bill To: _____
 TURNAROUND REQUIREMENTS
 24 hr. _____ 48 hr. _____
 5 Day _____
 Standard (10-15 working days)
 Provide FAX Results
 Requested Report Dup: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)
 SPECIAL INSTRUCTIONS/COMMENTS:
W = WATER

RELINQUISHED BY:
 Signature: *[Signature]*
 Date/Time: **8/27/01 - 1:00 pm**
 Printed Name: **John Strand**
 Firm: **ACC**

RECEIVED BY:
 Signature: *[Signature]*
 Date/Time: **8/27/01**
 Printed Name: **[Name]**
 Firm: **[Firm]**

RELINQUISHED BY:
 Signature: *[Signature]*
 Date/Time: **8/27/01**
 Printed Name: **[Name]**
 Firm: **[Firm]**

RECEIVED BY:
 Signature: *[Signature]*
 Date/Time: **8/27/01**
 Printed Name: **[Name]**
 Firm: **[Firm]**

RELINQUISHED BY:
 Signature: *[Signature]*
 Date/Time: **8/27/01**
 Printed Name: **[Name]**
 Firm: **[Firm]**

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Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client City of St. Marys Work Order K21 01438
Cooler received on 9/28/01 and opened on 9/28/01 by JA

1. Were custody seals on outside of cooler? YES NO
If yes, how many and where? _____
2. Were seals intact and signature & date correct? YES NO
3. COC # _____
Temperature of cooler(s) upon receipt: 3.8 _____
Temperature Blank: _____
4. Were custody papers properly filled out (ink, signed, etc.)? YES NO
5. Type of packing material present inserts
6. Did all bottles arrive in good condition (unbroken)? YES NO
7. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
8. Did all bottle labels and tags agree with custody papers? YES NO
9. Were the correct types of bottles used for the tests indicated? YES NO
10. Were all of the preserved bottles received at the lab with the appropriate pH? YES NO
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? YES NO
12. Did the bottles originate from CAS/K or a branch laboratory? YES NO

Explain any discrepancies _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

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