



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

March 07, 2005

Steve Germiot  
Aspect Consulting LLC  
811 First Ave., Suite 480  
Seattle, WA 98104

RE: WRIA 31 Water Quality

Enclosed are the results of analyses for samples received by the laboratory on 03/02/05 15:25.  
The following list is a summary of the NCA Work Orders contained in this report.  
If you have any questions concerning this report, please feel free to contact me.

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<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>
P5C0096	WRIA 31 Water Quality	030009-003

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Thank You,

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Mary A. Fritzmann Smith, Project Manager

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**Environmental Laboratory Network**



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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name: <b>WRIA 31 Water Quality</b> Project Number: 030009-003 Project Manager: Steve Germiot	<u>Report Created:</u> 03/07/05 19:16
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RC-02R-030205	P5C0096-01	Water	03/02/05 08:35	03/02/05 15:25
RC-03R-030205	P5C0096-02	Water	03/02/05 09:40	03/02/05 15:25
RC-03-030205	P5C0096-03	Water	03/02/05 10:15	03/02/05 15:25
RC-01-030205	P5C0096-04	Water	03/02/05 11:35	03/02/05 15:25

North Creek Analytical - Portland

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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name:	<b>WRIA 31 Water Quality</b>	
	Project Number:	030009-003	<u>Report Created:</u>
	Project Manager:	Steve Germiot	03/07/05 19:16

**Conventional Chemistry Parameters per APHA/EPA Methods**  
 North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5C0096-01</b>	<b>Water</b>	<b>RC-02R-030205</b>	<b>Sampled: 03/02/05 08:35</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.00917	-----	0.00500	mg/l	1x	5030190	03/04/05	03/04/05 15:24	
<b>P5C0096-02</b>	<b>Water</b>	<b>RC-03R-030205</b>	<b>Sampled: 03/02/05 09:40</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.0100	-----	0.00500	mg/l	1x	5030190	03/04/05	03/04/05 15:24	
<b>P5C0096-03</b>	<b>Water</b>	<b>RC-03-030205</b>	<b>Sampled: 03/02/05 10:15</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.00521	-----	0.00500	mg/l	1x	5030190	03/04/05	03/04/05 15:24	
<b>P5C0096-04</b>	<b>Water</b>	<b>RC-01-030205</b>	<b>Sampled: 03/02/05 11:35</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.00547	-----	0.00500	mg/l	1x	5030190	03/04/05	03/04/05 15:24	

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*Mary A. Fritzmann Smith*

Mary A. Fritzmann Smith, Project Manager



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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name:	<b>WRIA 31 Water Quality</b>	
	Project Number:	030009-003	<u>Report Created:</u>
	Project Manager:	Steve Germiot	03/07/05 19:16

**Microbiological Parameters per APHA Standard Methods**  
 North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P5C0096-01</b>	<b>Water</b>	<b>RC-02R-030205</b>	<b>Sampled: 03/02/05 08:35</b>							
Fecal Coliforms	SM 9221	8.00	-----	2.00	MPN/100 ml	1x	5030101	03/02/05	03/03/05 15:45	
<b>P5C0096-02</b>	<b>Water</b>	<b>RC-03R-030205</b>	<b>Sampled: 03/02/05 09:40</b>							
Fecal Coliforms	SM 9221	8.00	-----	2.00	MPN/100 ml	1x	5030101	03/02/05	03/03/05 15:45	
<b>P5C0096-03</b>	<b>Water</b>	<b>RC-03-030205</b>	<b>Sampled: 03/02/05 10:15</b>							
Fecal Coliforms	SM 9221	7.00	-----	2.00	MPN/100 ml	1x	5030101	03/02/05	03/03/05 15:45	
<b>P5C0096-04</b>	<b>Water</b>	<b>RC-01-030205</b>	<b>Sampled: 03/02/05 11:35</b>							
Fecal Coliforms	SM 9221	2.00	-----	2.00	MPN/100 ml	1x	5030101	03/02/05	03/03/05 15:45	

North Creek Analytical - Portland

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<b>Aspect Consulting LLC</b>	Project Name: <b>WRIA 31 Water Quality</b>	
811 First Ave., Suite 480	Project Number: 030009-003	Report Created: 03/07/05 19:16
Seattle, WA 98104	Project Manager: Steve Germiot	

**Conventional Chemistry Parameters per APHA/EPA Methods - Laboratory Quality Control Results**  
 North Creek Analytical - Portland

QC Batch: 5030190      Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (5030190-BLK1)</b>								Extracted: 03/04/05 10:20						
Nitrate/Nitrite-Nitrogen	EPA 353.2	ND	---	0.00500	mg/l	1x	--	--	--	--	--	--	03/04/05 15:24	
<b>LCS (5030190-BS1)</b>								Extracted: 03/04/05 10:20						
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.0892	---	0.00500	mg/l	1x	--	0.100	89.2%	(85-115)	--	--	03/04/05 15:24	
<b>Duplicate (5030190-DUP1)</b>				QC Source: P5B0731-16				Extracted: 03/04/05 10:20						
Nitrate/Nitrite-Nitrogen	EPA 353.2	74.9	---	5.00	mg/l	1000x	77.2	--	--	--	3.02%	(20)	03/04/05 15:24	
<b>Matrix Spike (5030190-MS1)</b>				QC Source: P5B0731-16				Extracted: 03/04/05 10:20						
Nitrate/Nitrite-Nitrogen	EPA 353.2	121	---	5.00	mg/l	1000x	77.2	50.0	87.6%	(75-125)	--	--	03/04/05 15:24	
<b>Matrix Spike Dup (5030190-MSD1)</b>				QC Source: P5B0731-16				Extracted: 03/04/05 10:20						
Nitrate/Nitrite-Nitrogen	EPA 353.2	119	---	5.00	mg/l	1000x	77.2	50.0	83.6%	(75-125)	1.67%	(20)	03/04/05 15:24	

North Creek Analytical - Portland

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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name:	<b>WRIA 31 Water Quality</b>	
	Project Number:	030009-003	<u>Report Created:</u>
	Project Manager:	Steve Germiot	03/07/05 19:16

**Microbiological Parameters per APHA Standard Methods - Laboratory Quality Control Results**  
**North Creek Analytical - Portland**

**QC Batch: 5030101**      **Water Preparation Method: Aqueous Micro**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (5030101-BLK1)</b>										Extracted: 03/02/05 16:05				
Fecal Coliforms	SM 9221	ND	---	2.00	MPN/100 ml	1x	--	--	--	--	--	--	03/03/05 15:45	

**Aspect Consulting LLC**

811 First Ave., Suite 480  
Seattle, WA 98104

Project Name:

**WRIA 31 Water Quality**

Project Number:

030009-003

Report Created:

Project Manager:

Steve Germiot

03/07/05 19:16

**Notes and Definitions**

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR / NA - Not Reported / Not Available
- dry - Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%.
- wet - Sample results and reporting limits reported on a wet weight basis (as received).
- RPD - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.





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### CHAIN OF CUSTODY REPORT

Work Order #: **P5C0096**

NCA CLIENT: <b>Aspect Consulting</b>				INVOICE TO: <b>Aspect Consulting</b>				<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD</small> Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD</small> <input type="checkbox"/> OTHER Specify: <small>* Turnaround Request less than standard may incur Rush Charges.</small>											
REPORT TO: <b>Steve Vermint</b>				P.O. NUMBER:															
ADDRESS: <b>211 First Avenue Suite 400 Seattle, WA 98107</b>																			
PHONE: <b>206-428-8830</b> FAX: <b>206-428-8823</b>																			
PROJECT NAME: <b>W21A31 Rock Creek W4</b>				<b>PRESERVATIVE</b>															
PROJECT NUMBER: <b>030009-003</b>				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO															
SAMPLED BY: <b>Jay Chennault</b>				<b>REQUESTED ANALYSES</b>															
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Feul (SM/120)		Nitrate (353.2)		MATRIX (W, S, O)		# OF CONT.	LOCATION / COMMENTS	NCA WO ID							
1 RC-02R-030205		3/2/05 8:35		X X				W	2	Surface Water									
2 RC-03R-030205		3/2/05 9:40		X X				W	2	"									
3 RC-03-030205		3/2/05 10:15		X X				W	2	"									
4 RC-01-030205		3/2/05 11:35		X X				W	2	"									
5																			
6																			
7																			
8																			
9																			
10																			
RELEASED BY: <b>Jay Chennault</b>				DATE: <b>3/2/05</b>				RECEIVED BY: <b>Y0 Burnett</b>				DATE: <b>3/2/05</b>							
PRINT NAME: <b>Jay Chennault</b>				FIRM: <b>Aspect</b>				TIME: <b>13:00</b>				FIRM: <b>NCA</b>				TIME: <b>15:25</b>			
RELEASED BY: <b>Y0 Burnett</b>				DATE: <b>3/2/05</b>				RECEIVED BY: <b>Erica Fot</b>				DATE: <b>3/2/05</b>							
PRINT NAME: <b>Y0 Burnett</b>				FIRM: <b>Aspect</b>				TIME: <b>15:25</b>				FIRM: <b>NCA</b>				TIME: <b>15:25</b>			
ADDITIONAL REMARKS: <b>* Add Acid Preservative to Nitrate Samples</b>												TEMP: <b>20°C</b>							
COC REV 09/04 <b>* Contact Steve Vermint with questions RE: COC</b>												PAGE 1 OF 1							

**NORTH CREEK ANALYTICAL COOLER RECEIPT FORM**

(Army Corp. compliant)

Client: Aspect CONS.

1. Please sign for receipt and opening of 1 cooler or          other         

By (print) ENICA FOT (sign) ENICA FOT

2. Date samples received 3/2/05 Date opened: Same  or     /    /    

3. Delivered by:  NCA courier  FedEx  UPS  Courier  Client  Other           
Airbill # if applicable          (Put copy of shipping papers in file)

4. There were 0 custody seals present, signed by          date     /    /    .

5. Were the custody seals unbroken and intact at the date and time of arrival?  Yes  No

6. Was ice used?  yes  no Type of ice:  blue ice  gel ice  real ice  
Temperature (degrees C)          Raytek thermometer 2.8°C Digi-Therm (probe temperature blank)

7. Are custody papers sealed in a plastic bag and taped inside to lid?  Yes  No

8. Were custody papers filled out properly (ink, signed, etc.)?  Yes  No  
If "no" please specify:         

9. Was project identifiable from custody papers?  Yes  No  
Name of project WR 1431 KOKKOK (if applicable)

10. Initial and date for unpacking: EF (initials) date 3/2/05

11. Packing material:  bubble wrap/bag  styrofoam  cardboard N/A other         

12. Were samples in bags?  Yes  No

13. Did all containers indicated on the COC arrive?  Yes  No  
If "no" please indicate which containers were absent         

14. Were all containers unbroken and labels in good condition?  Yes  No  
If "no" please indicate which containers         

15. Were all bottle labels complete (ID, date, time, signature, etc.)?  Yes  No  
Do the IDs, times, etc. agree with the COC?  Yes  No  
If "no" please indicate which containers         

16. Are containers properly preserved for indicated analysis?  Yes  No

17. Is there adequate volume for the test(s) requested?  Yes  No

18. If voa vials were submitted, are they free of bubbles?  N/A  Yes  No

19. Log-in phase: Date samples were logged in: 3/2/05 Elm Project # P 500096

20. Logged in by (print) ENICA FOT (sign) ENICA FOT

21. Was the project manager notified of status? (Use back of form as a record)  Yes  No