

APPENDIX F
Redside Construction Weekly Reports

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WEEKLY RECAP REPORT

Week Ending: 12/07/2013

12/02/2013; Arrive on site with Star Hunter docked on west side of pier. Crew on standby until Star Hunter ships out. Talked with Mac about time frame. Scheduled to depart tomorrow 12/03/2014 in the am.

12/03/2013; Crew on standby due to Star Hunter still docked on west side of pier. 12:00 pm Star Hunter departs. Complete set up of crane. WD40 moves into place. Train on survey equipment.

12/04/2013; Install turbidity curtain. Complete crane set up and position barges for dredging.

12/05/2013; Install turbidity buoy. Begin background monitoring at selected station. Begin dredging west side of pier inland. Excessive amounts of debris within dredge zone. Little progress due to debris using environmental bucket.

12/06/2013; Continue dredging west side of pier inland areas. Progress slow due to large debris. Separating metal and tires from dredge sediment. Processing metal debris in order to dispose of.

First week progress slow due to delays and large amounts of debris within dredge zone. Environmental bucket not effective.

WEEKLY RECAP REPORT

Week Ending: 12/14/2013

12/09/2013; Reposition barge and continue dredging west side of pier. Crew continues to separate large amounts of metal debris, tires and wood piles. Crew continues to process debris. Dredge production slow due to debris. Discuss switching from environmental bucket to large clam digging bucket.

12/10/2013; Prep clam bucket to replace environmental bucket. Move turbidity curtain because of Yacht Masters and dive school. Dive boat gets caught in curtain. Delay of 2 hours. Load out dredge spoils with Walrath.

12/11/2013; Dredge west side of pier with clam bucket. Production improves. Still large amount of debris. Crew continues to separate and process debris. Load out trucks with dredge spoils.

12/12/2013; Dredging west side of pier. Crew continues to separate and process debris. Crane goes down at 10:00 am. Crane crew works on crane remainder of the day. Delayed due to moving turbidity curtain for dive school.

12/13/2013; Crane down all day. Haul off dredge spoils with Walrath and Grady Tucking. Work on leaks in barge and crane repair.

Constant delays moving turbidity curtain daily. Dredging production improves using clam digging bucket. But production still down. Crane goes down.

WEEKLY RECAP REPORT

Week Ending: 12/21/2013

12/16/2013; Off load barge using solo's from Walrath. Crane crew works on crane repair. Separate and process metal and wood debris from dredge spoils. Work on repairing leaks on WD40. Dustin works on Resolute.

12/17/2013; Dredge west side of pier. Use 345 excavator to stockpile dredge spoils to balance barge and assist with dewatering. Pump compartments in WD40. Work on patch in WD40.

12/18/2013; Dredge north west quadrant of pier. Use 345 excavator to separate metal and wood debris from dredge spoils. Process metal and wood debris. Pile dredge spoils to help dewatering.

12/19/2013; Dredge on west side of pier. Use 345 to stockpile and separate debris from dredge spoils. Continue pumping barge compartments. Work on leak repairs.

12/20/2013; Dredge west side of pier. Off load barge using Walrath trucking. Air can goes out on crane work on repair.

Dredging continues to be slow because of large amounts of debris. Work on leaks in WD40. Off dredge spoils into trucks. Continued delays to move turbidity curtain to accommodate neighbors.

WEEKLY RECAP REPORT

Week Ending: 12/28/2013

12/23/2013; Crew works on leaks in barge. Crane crew works on crane and crane bucket.

12/24/2013; Crew works on leaks in barge. Crane crew works on crane and crane bucket.

12/25/2013; Shut down for holiday.

12/26/2013, Shift barges and continue dredging on west side of pier. Use 345 excavator to balance and stockpile dredge spoils to assist in dewatering.

12/27/2013; Dredging on west side pier. Use 345 excavator to stockpile and balance load. Production still down due to large amounts of debris in dredge sediment.

Work slowed due to holiday and repairs on the crane and barge. Delays also caused by moving of turbidity curtain to accommodate the dive school and yacht masters. Production down because of large amounts of debris.

WEEKLY RECAP REPORT

Week Ending: 1/5/2014

12/30/2013; Dredge along pier sections 21 thru 19. Larger than normal amounts of debris. 2" wire cable, logs, tires and other metal objects. Excavator separates wood and metal debris. Crew processes metal and wood.

12/31/2013; Off load barge with Walrath trucking. Long waiting times at Waste Management. Attempt to switch trucks to Republic. Need to make arrangements in advance. Continue with Waste Management.

1/2/2014; Off load barge with Walrath trucking. Complete off load and shift barges to continue dredging.

1/3/2014; Continue dredging west side of pier. Crew also processing metal and wood debris. Issues dredging D15 against pier. Large object attached and unable to lift. Let Kerry know and mark on sheet.

Dredging continues to go slow due to debris. Off loading also going slow because of delays at disposal site. Crew continues to process metal and wood debris. Tracking all debris processing on extra work orders.

WEEKLY RECAP REPORT

Week Ending: 1/11/2014

1/6/2014; Shift barges to off load. Off load barge with Walrath trucking. Talk with Mac about scheduling move of dry dock. Meet with Libby and Kerry to discuss loss of production due to large amounts of debris. Libby would like to see an estimated cost weekly if possible. Continued delays having to move turbidity curtain.

1/7/2014; Continue dredging on west side of pier. Shift barges two times. Crew works on separating and processing debris. Schedule trucks for off loading. Report release of sheen on west side of barge. Contain and clean up.

1/8/2014; Dredge end of pier on the west of pier. Process debris with using torches and excavator. Hit large object in grid C 11. Object too large to pick so leave in place and mark on plan. Pick up sample bottles from Freemont Analytical for water samples.

1/9/2014; Off load barge with Walrath trucking. Send trucks to Rabanco. Schedule trucks with Scarsella for tomorrow. Take water samples to Freemont Analytical.

1/10/2014; Off load barge using Scarsella trucks. Process material for scrap. Schedule trucks for 1/15/14.

Dredging still slow due to large amounts of debris. Disposal going slow due to delays at Rabanco and Waste Management. Continue tracking extra work processing debris. Continued delays moving turbidity curtain in and out for yacht masters and the dive boat.

WEEKLY RECAP REPORT

Week Ending: 1/18/2014

1/13/2014; Shift barges and dredge south west side of pier and along dry dock. Dredge sections 11 A,B and C. Shift barges and dredge sections A & B 10 thru 9. Shift curtain for yacht masters and dive boat.

1/14/2014; Dredge south west corner of grids. Move turbidity curtain in and out on two occasions for yacht master. Shift barges in at end of shift to allow the dive boat access.

1/15/2014; Process metal debris. Shift barges out to continue dredging along side dry dock. Schedule trucks for disposal 1/16/14.

1/16/2014; Load out dredge spoils with Walrath trucks. Order forklift to off load bucket to be picked up.

1/17/2014; Off load dredge spoils with Walrath trucks. Process debris. Clean up site and barge. Schedule e-trac to do pre dredge scan for 1/22/2014.

Dredging in outer quadrants. Less debris so dredging went much smoother. Crew still processing metal debris. Schedule pre dredge scan with e-trac for east side of pier.

WEEKLY RECAP REPORT

Week Ending: 1/25/2014

1/20/2014; Crew on standby waiting for dry dock to be moved. Process metal debris while on standby. Install thumb on 345 excavator.

1/21/2014; Crew on standby waiting for dry docks to move. Process metal debris while on standby.

1/22/2014; Delayed due to dry dock not being moved. Continue to process metal debris. Schedule metal pick up.

1/23/2014; Complete load out and processing metal debris. Shift barges to east side of pier. Relocate turbidity curtain to east side of pier. Dry dock moved at 1:00pm.

1/24/2014; Complete moving of turbidity curtain and setting anchors. Begin dredging at 1:00pm. Start in sections E & F, 21 & 22. Hitting large metal object. Unable to pull any spoils. Mark area on plans. All other area large metal debris again. Production down see pictures.

Lost all week due to delay moving the dry dock. Production also slow once started because once again large amounts of debris.

WEEKLY RECAP REPORT

Week Ending: 2/1/2014

1/27/2014; Shift barges and begin dredging. Large amounts of debris coming up. Separate debris and process for disposal. Clean up sheen which has escaped the work zone. Install debris boom on west side of the pier. Sections E and F 22 thru 21 have very little debris. Seems to be a large object which we are unable to pick or move.

1/28/2014; Continue dredging south end of the pier. Debris seems to be smaller but still using clam digging bucket. Work on closing holes in the containment boom and picking up sheen. Processing logs for disposal. Schedule trucks for disposal. Shift barges over to pier for off loading.

1/29/2014; Off load barge with Grady trucking and Scarsella trucking. Disposal wait times slowing things down. Continue to monitor sheen and deploy retrieval booms.

1/30/2014; Continue off loading barge using Grady trucking and Scarsella trucking. Waste Management cuts off two trucks. Hauling in material to fast for them to handle. Schedule trucks for Monday.

1/31/2014; Dredge east side of pier. Large amounts of tile and wood debris with very little sand blast grit. Release of sheen on east side of curtain from a log being picked. Deploy clean up efforts.

Dredging is going slow due to large amounts of debris. Disposal also going slow due to long waiting times for trucks. Using both Rabanco and Waste Management to try and speed up disposal.

WEEKLY RECAP REPORT

Week Ending: 2/8/2014

2/3/2014; Off load barge with Grady trucking and Scarsella trucking. Crew arrives early to set up signs and keep parking lot clear. Call Spencer about getting barges loaded for sand capping. Visit Kenmore site to see if it will work.

2/4/2014; Shift barges out to eastern most dredge zone and complete dredging zones G 15 thru G 12. Shift White Horse next to pier to continue dredging. Continue clean up around perimeter of dredge zone due all the oil coming up from dredge zone.

2/5/2014; Complete dredging east side of pier zones F 15 thru F 12. Shift barges for off loading on Thursday. Clean up barge rails and process debris.

2/6/2014; Off load barge with Grady trucking and Scarsella trucking. Weather causing delays at Waste Management during off loading.

2/7/2014; Dredge zones G 4 thru G 12. Lots of sediment. Process metal and wood debris. Shift barges over to pier for off loading on Monday.

Dredging becoming easier as we move out further to the east perimeter. Debris field getting smaller much more sediment coming up. Schedule truck for both Rabanco and Waste Management. Grady trucking, Walrath trucking and Scarsella trucking.

WEEKLY RECAP REPORT

Week Ending: 2/15/2014

2/10/2014; Off load barge with Grady trucking, Walrath trucking and Scarsella trucking. Send trucks to both Waste Management and Rabanco. Clean off pier and entry road to pier.

2/11/2014; Shift barges and dredge zones H 12 thru H 3. H 15 and 14 had large cable in the way had to process in order to finish. Crew separated and processed debris.

2/12/2014; Dredge H & G 1 thru 3. G 1 has lots of cable we are unable to pull up. Move cable around and dredge. Material coming up very clean. Only taking one bite out of each mark. Complete dredging at 1:00 pm. Clean up barge and repair breaks in turbidity curtain. Schedule trucks.

2/13/2014; Off load barge. Rabanco has no rail cars so have to go to Waste Management. Waste Management calls and have to cut 2 side dumps off and 3 solos. Schedule trucks ahead for the following day.

2/14/2014; Off load barge. Waste Management calls again to reduce the amount of trucks. They are running out of rail cars. Complete off load early. Clean up barge and pier. Take water sample to Fremont Analytical.

Dredging going much smoother with less debris on the east side of the pier. Having issues with disposal companies again. Long wait times and no room for material being delivered.

WEEKLY RECAP REPORT

Week Ending: 2/22/2014

2/17/2014; Dredge areas F 12 thru F 8. Large amounts of sand blast grit. As many as six buckets per mark before hitting native material. Dredge section E 11 thru E 10. Large cable in the area seems to be attached to the pier. Debris is minimal.

2/18/2014; Dredge area F 7 thru F 5. At 1:00 pm the wind kicks up and we are unable to shift barges with the skiff. Spud barges down and send the guys home early.

2/19/2014; Shift barges in the morning so we can off load. Off load barge with Walrath trucking and Scarsella trucking. Schedule post dredge survey and sand deliveries for the week of the march tenth.

2/20/2014; Dredge F 5 thru F 1 and part of section E. Pulling up large amounts of wood debris from sunken ship. Weld chains to barrier and place new hay bales in openings between rails.

2/21/2014; Off load barge with Walrath trucking. Take material to Rabanco because Waste Management is closed.

Dredging is coming to a close. Scheduling sand capping materials and barge movements. Still the usual long delays with the disposal sites.

WEEKLY RECAP REPORT

Week Ending: 3/1/2014

2/24/2014; Move turbidity curtain along pier. Shift barges to continue dredging. Set anchors to hold curtain in place. Guys work on leaks in barge.

2/25/2014; Begin dredging south end of the pier. Schedule trucks with Grady trucking and Walrath trucking. Schedule disposal with both Waste Management and Rabanco for tomorrow.

2/26/2014; Off load barges. Six trucks going to Rabanco and eight trucks going to Waste Management. Long turnaround times due to delays with off loading as usual. Clean off pier and roadway.

2/27/2014; Continue dredging at the south end of the pier. Sections 8 thru 11 have large amounts of debris. Have Westar move barges into place.

2/28/2014; Complete dredging at the south end of pier. On standby for 1 hour waiting for dry dock to move so we can hit the last six marks. Large object in area, unable to pick or move. Use Westar to shift barges.

Nearing the end of dredging. Debris heavy in some areas while light in others. Same issues with disposal. Long wait times at both Rabanco and Waste Management.

WEEKLY RECAP REPORT

Week Ending: 3/8/2014

3/3/2014; Off load barge with Grady trucking and Walrath trucking. Material very wet due to the weather over the weekend. Pull turbidity curtain at the end of the day to allow for the launching of the Blue Fin and dry dock. About four loads of material remain on the barge.

3/4/2014; Clean up barges and change out clam bucket with ecology bucket. Work on repairing leaks on WD40 and pump out compartments. Schedule trucks to complete off loading on March 5th.

3/5/2014; Off load last of the dredge spoils with Walrath trucking. Clean barges off and shift to allow for post dredge survey. Move turbidity curtain.

3/6/2014; Continue clean up of the barge and equipment. AUS shows up to patch hole in WD40. Continue cleaning barge and get thing ready for transport on March 7th.

3/7/2014; Pull turbidity curtain and ship out WD40. Clean up White Horse and schedule sand delivery for Monday March 10th.

Dredging is complete. Post dredge survey has been done and we can start doing the sand cap. Scheduled tug transport and sand barge loading for Monday the 10th. Barge to be loaded first thing in the morning and delivered by 1:00pm.

WEEKLY RECAP REPORT

Week Ending: 3/15/2014

3/10/2014; Go to Calportland to check on barge loading. Head to NLSY to receive barge load of capping material. Barge delivered at 3:00 pm. Schedule crew for capping.

3/11/2014; Begin sand capping sections D, E and F. Complete E 1 thru 11, D 1 and 2, and F 1 thru 3. Shipyard has a tug come in and gets caught in turbidity curtain. Shut down for two hours while assisting the tug. Repair and redeploy turbidity curtain. Monitor turbidity and take water samples to Freemont Analytical.

3/12/2014; Work on completing deployment of turbidity curtain from yesterdays damage. Continue sand capping. Schedule reloading of barge with Calportland and schedule tug transport with island tug.

3/13/2014; continue capping sections F and G 14 thru 22. Shift barges and start capping section H 22 thru 19. Crane goes down at 2:00 pm. Call mechanic to schedule repair as soon as possible.

3/14/2014; Mechanic works on crane with Kyle. Clean up crane and prep for work on Monday. Shift curtain in to allow for tug to be moved into dry dock.

Capping going well. Some delay due to tug running into the turbidity curtain and the crane going down. Should be back on track and meeting our schedule.

WEEKLY RECAP REPORT

Week Ending: 3/22/2014

3/17/2014; Finish off loading barge. Prep for tug transport tonight. Pull turbidity curtain to allow for tug to pick up barge.

3/18/2014; Arrive at 1:00 pm to receive barge. Schedule placement to start tomorrow March 19th.

3/19/2014; Shipyard has crane barge come in and we are unable to complete sand capping until barge is moved. Was supposed to take 3 or 4 hours, total time delayed 8 hours. Shift sand barge and complete final grids.

3/20/2014; Relocate turbidity curtain and stand by while NLSY moves dry dock. Shift our barges to west side of pier. Start to reset curtain.

3/21/2014; Complete set up of turbidity curtain. Begin sand capping on west side on pier grids A and B 6 thru 26. Delayed numerous times by yacht masters and dive boat and have to work on Saturday.

3/22/2014; Continue sand capping on west side of pier. Complete areas A and B. Shift barges to put White Horse against pier and WD40 outside.

Once thru delays progress went well. Should be complete by the end of the week. Tracking delays from yacht masters and dive boat.

WEEKLY RECAP REPORT

Week Ending 3/29/2014

3/24/2014; Continue sand capping sections C 26 thru C 11 and D 26 thru D 11. Schedule fuel for barge holding tank.

3/25/2014; Complete sand capping sections C and D. Fuel barge at 3:00pm. Pull turbidity curtain and receive tugs to take out White Horse. Sand barge to remain for a couple of days. Cleared storing barge with Mac.

3/26/2014; Clean up pier and pull curtain. Have Freemont tug move anchors next to pier. Prep for demobe.

3/27/2014; Use NLSY crane to assist in removing turbidity curtain and anchors. Sort thru curtain and dispose of bad curtain. Roll up and store curtain to be reused on float tied off to pier. Get the ok from Mac to store floats and curtain until May. At which time we will pick them up and move out.

All work is done! Site is cleaned up and all debris disposed of Meet with Sam, Kerry and Libby to iron out any issues at a later date.

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APPENDIX G
Water Quality Monitoring Laboratory Reports

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for double-sided printing.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1401061

January 16, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 1/9/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements
Sr. Chemist / Lab Manager



Date: 01/16/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1401061

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1401061-001	Northlake	01/09/2014 9:31 AM	01/09/2014 9:42 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction

Project: Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 1/9/2014 9:31:00 AM

Project: Northlake Dredging

Lab ID: 1401061-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6339

Analyst: MC

Arsenic	1.68	1.00		µg/L	1	1/13/2014 5:57:32 PM
Copper	ND	0.500		µg/L	1	1/13/2014 5:57:32 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RL Reporting Limit

- D Dilution was required
- H Holding times for preparation or analysis exceeded
- ND Not detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



Work Order: 1401061
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6339	SampType: MBLK	Units: µg/L				Prep Date: 1/13/2014	RunNo: 12009				
Client ID: MBLKW	Batch ID: 6339					Analysis Date: 1/13/2014	SeqNo: 240228				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6339	SampType: LCS	Units: µg/L				Prep Date: 1/13/2014	RunNo: 12009				
Client ID: LCSW	Batch ID: 6339					Analysis Date: 1/13/2014	SeqNo: 240229				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	108	1.00	100.0	0	108	85	115				
Copper	105	0.500	100.0	0	105	85	115				

Sample ID: 1401061-001ADUP	SampType: DUP	Units: µg/L				Prep Date: 1/13/2014	RunNo: 12009				
Client ID: Northlake	Batch ID: 6339					Analysis Date: 1/13/2014	SeqNo: 240231				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	1.41	1.00						1.680	17.8	30	
Copper	ND	0.500						0		30	

Sample ID: 1401061-001AMS	SampType: MS	Units: µg/L				Prep Date: 1/13/2014	RunNo: 12009				
Client ID: Northlake	Batch ID: 6339					Analysis Date: 1/13/2014	SeqNo: 240232				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	526	1.00	500.0	1.680	105	70	130				
Copper	513	0.500	500.0	0.3375	102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 1/16/2014

Work Order: 1401061
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1401061-001AMSD	SampType: MSD	Units: µg/L				Prep Date: 1/13/2014	RunNo: 12009				
Client ID: Northlake	Batch ID: 6339					Analysis Date: 1/13/2014	SeqNo: 240233				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	508	1.00	500.0	1.680	101	70	130	526.0	3.51	30	
Copper	488	0.500	500.0	0.3375	97.6	70	130	512.6	4.89	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **REDSID**

 Work Order Number: **1401061**

 Logged by: **Clare Griggs**

 Date Received: **1/9/2014 9:42:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Sample received straight from field.

4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Ship Yard Dredge
Lab ID: 1401142

January 24, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 1/17/2014 for the analyses presented in the following report.

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- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements".

Michelle Clements
Sr. Chemist / Lab Manager



Date: 01/24/2014

CLIENT: Redside Construction
Project: Northlake Ship Yard Dredge
Lab Order: 1401142

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1401142-001	Northlake	01/17/2014 9:15 AM	01/17/2014 9:44 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction
Project: Northlake Ship Yard Dredge

I. SAMPLE RECEIPT:

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II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 1/17/2014 9:15:00 AM

Project: Northlake Ship Yard Dredge

Lab ID: 1401142-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6380

Analyst: MC

Arsenic	ND	1.00		µg/L	1	1/17/2014 11:52:15 PM
Copper	1.02	0.500		µg/L	1	1/17/2014 11:52:15 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1401142
CLIENT: Redside Construction
Project: Northlake Ship Yard Dredge

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6380	SampType: MBLK	Units: µg/L				Prep Date: 1/17/2014	RunNo: 12096				
Client ID: MBLKW	Batch ID: 6380					Analysis Date: 1/17/2014	SeqNo: 241892				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6380	SampType: LCS	Units: µg/L				Prep Date: 1/17/2014	RunNo: 12096				
Client ID: LCSW	Batch ID: 6380					Analysis Date: 1/17/2014	SeqNo: 241893				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103	1.00	100.0	0	103	85	115				
Copper	101	0.500	100.0	0	101	85	115				

Sample ID: 1401132-001ADUP	SampType: DUP	Units: µg/L				Prep Date: 1/17/2014	RunNo: 12096				
Client ID: BATCH	Batch ID: 6380					Analysis Date: 1/17/2014	SeqNo: 241895				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4.87	1.00						5.157	5.70	30	
Copper	7.46	0.500						7.298	2.24	30	

Sample ID: 1401132-001AMS	SampType: MS	Units: µg/L				Prep Date: 1/17/2014	RunNo: 12096				
Client ID: BATCH	Batch ID: 6380					Analysis Date: 1/17/2014	SeqNo: 241896				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	511	1.00	500.0	5.157	101	70	130				
Copper	502	0.500	500.0	7.298	98.9	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1401142
CLIENT: Redside Construction
Project: Northlake Ship Yard Dredge

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1401132-001AMSD	SampType: MSD	Units: µg/L				Prep Date: 1/17/2014	RunNo: 12096				
Client ID: BATCH	Batch ID: 6380					Analysis Date: 1/17/2014	SeqNo: 241897				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	503	1.00	500.0	5.157	99.5	70	130	511.0	1.66	30	
Copper	501	0.500	500.0	7.298	98.7	70	130	501.9	0.274	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Clare Griggs**

Work Order Number: **1401142**
 Date Received: **1/17/2014 9:44:34 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Shipyard Dredging
Lab ID: 1402001

February 10, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 2/3/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink that reads "Michelle Clements".

Michelle Clements
Sr. Chemist / Lab Manager



Date: 02/10/2014

CLIENT: Redside Construction
Project: Northlake Shipyard Dredging
Lab Order: 1402001

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1402001-001	Shipyard	02/03/2014 12:00 AM	02/03/2014 8:30 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction
Project: Northlake Shipyard Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 2/3/2014

Project: Northlake Shipyard Dredging

Lab ID: 1402001-001

Matrix: Water

Client Sample ID: Shipyard

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6511

Analyst: MC

Arsenic	1.07	1.00		µg/L	1	2/4/2014 6:09:47 PM
Copper	2.02	0.500		µg/L	1	2/4/2014 6:09:47 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1402001
CLIENT: Redside Construction
Project: Northlake Shipyard Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6511	SampType: MBLK	Units: µg/L	Prep Date: 2/4/2014	RunNo: 12375							
Client ID: MBLKW	Batch ID: 6511		Analysis Date: 2/4/2014	SeqNo: 247030							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6511	SampType: LCS	Units: µg/L	Prep Date: 2/4/2014	RunNo: 12375							
Client ID: LCSW	Batch ID: 6511		Analysis Date: 2/4/2014	SeqNo: 247031							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	506	1.00	500.0	0	101	85	115				
Copper	511	0.500	500.0	0	102	85	115				

Sample ID: 1402004-003CDUP	SampType: DUP	Units: µg/L	Prep Date: 2/4/2014	RunNo: 12375							
Client ID: BATCH	Batch ID: 6511		Analysis Date: 2/4/2014	SeqNo: 247033							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00						0		30	
Copper	ND	0.500						0		30	

Sample ID: 1402004-003CMS	SampType: MS	Units: µg/L	Prep Date: 2/4/2014	RunNo: 12375							
Client ID: BATCH	Batch ID: 6511		Analysis Date: 2/4/2014	SeqNo: 247034							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	505	1.00	500.0	0.7890	101	70	130				
Copper	488	0.500	500.0	0	97.6	70	130				

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1402001
CLIENT: Redside Construction
Project: Northlake Shipyard Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1402004-003CMSD	SampType: MSD	Units: µg/L	Prep Date: 2/4/2014	RunNo: 12375							
Client ID: BATCH	Batch ID: 6511		Analysis Date: 2/4/2014	SeqNo: 247035							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	503	1.00	500.0	0.7890	101	70	130	504.7	0.283	30
Copper	488	0.500	500.0	0	97.6	70	130	488.1	0.0747	30

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Clare Griggs**

Work Order Number: **1402001**
 Date Received: **2/3/2014 8:30:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Dan Roesler"/>	Date:	<input type="text" value="2/3/2014"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Analysis Confirmation."/>		
Client Instructions:	<input type="text" value="Run Dissolved Cu/As. not Total."/>		

19. Additional remarks:

Client verbalized upon sample drop-off that sample was taken within the past 20 minutes.

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1402110

February 19, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 2/14/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements
Sr. Chemist / Lab Manager



Date: 02/19/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1402110

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1402110-001	Northlake	02/14/2014 10:38 AM	02/14/2014 10:45 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction**Project:** Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 2/14/2014 10:38:00 AM

Project: Northlake Dredging

Lab ID: 1402110-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6612

Analyst: MC

Arsenic	1.95	1.00		µg/L	1	2/18/2014 4:01:28 AM
Copper	0.656	0.500		µg/L	1	2/18/2014 4:01:28 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1402110
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6612	SampType: MBLK	Units: µg/L	Prep Date: 2/17/2014	RunNo: 12573							
Client ID: MBLKW	Batch ID: 6612		Analysis Date: 2/17/2014	SeqNo: 251073							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6612	SampType: LCS	Units: µg/L	Prep Date: 2/17/2014	RunNo: 12573							
Client ID: LCSW	Batch ID: 6612		Analysis Date: 2/18/2014	SeqNo: 251076							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	1.00	100.0	0	102	85	115				
Copper	85.6	0.500	100.0	0	85.6	85	115				

Sample ID: 1402088-001BDUP	SampType: DUP	Units: µg/L	Prep Date: 2/17/2014	RunNo: 12573							
Client ID: BATCH	Batch ID: 6612		Analysis Date: 2/18/2014	SeqNo: 251078							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.39	1.00						2.974	13.0	30	
Copper	ND	0.500						0		30	

Sample ID: 1402088-001BMS	SampType: MS	Units: µg/L	Prep Date: 2/17/2014	RunNo: 12573							
Client ID: BATCH	Batch ID: 6612		Analysis Date: 2/18/2014	SeqNo: 251079							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	497	1.00	500.0	2.974	98.8	70	130				
Copper	419	0.500	500.0	0	83.8	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1402110
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1402088-001BMSD	SampType: MSD	Units: µg/L				Prep Date: 2/17/2014	RunNo: 12573				
Client ID: BATCH	Batch ID: 6612					Analysis Date: 2/18/2014	SeqNo: 251080				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	531	1.00	500.0	2.974	106	70	130	497.0	6.57	30	
Copper	422	0.500	500.0	0	84.5	70	130	418.9	0.830	30	

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Chelsea Ward**

Work Order Number: **1402110**
 Date Received: **2/14/2014 10:45:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:
 Same metals as previous projects.

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1403097

March 19, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 3/11/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements
Sr. Chemist / Lab Manager



Date: 03/19/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1403097

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1403097-001	Northlake	03/11/2014 12:31 PM	03/11/2014 1:07 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction**Project:** Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 3/11/2014 12:31:00 PM

Project: Northlake Dredging

Lab ID: 1403097-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6862

Analyst: BR

Arsenic	2.49	1.00		µg/L	1	3/13/2014 6:58:08 PM
Copper	2.14	0.500		µg/L	1	3/13/2014 6:58:08 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1403097
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6862	SampType: MBLK	Units: µg/L	Prep Date: 3/13/2014	RunNo: 13052							
Client ID: MBLKW	Batch ID: 6862		Analysis Date: 3/13/2014	SeqNo: 261255							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6862	SampType: LCS	Units: µg/L	Prep Date: 3/13/2014	RunNo: 13052							
Client ID: LCSW	Batch ID: 6862		Analysis Date: 3/13/2014	SeqNo: 261256							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	101	1.00	100.0	0	101	85	115				
Copper	97.7	0.500	100.0	0	97.7	85	115				

Sample ID: 1403137-003CDUP	SampType: DUP	Units: µg/L	Prep Date: 3/13/2014	RunNo: 13052							
Client ID: BATCH	Batch ID: 6862		Analysis Date: 3/13/2014	SeqNo: 261261							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00						0		30	
Copper	1.39	0.500						1.316	5.29	30	

Sample ID: 1403137-003CMS	SampType: MS	Units: µg/L	Prep Date: 3/13/2014	RunNo: 13052							
Client ID: BATCH	Batch ID: 6862		Analysis Date: 3/13/2014	SeqNo: 261262							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	565	1.00	500.0	0.8965	113	70	130				
Copper	493	0.500	500.0	1.316	98.4	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1403097
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1403137-003CMSD	SampType: MSD		Units: µg/L	Prep Date: 3/13/2014	RunNo: 13052						
Client ID: BATCH	Batch ID: 6862			Analysis Date: 3/13/2014	SeqNo: 261263						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	599	1.00	500.0	0.8965	120	70	130	564.6	5.88	30	
Copper	515	0.500	500.0	1.316	103	70	130	493.3	4.28	30	

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Chelsea Ward**

Work Order Number: **1403097**
 Date Received: **3/11/2014 1:07:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:
 Same metals as previous samples. Sample date should be 3/11/14.

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1403152

March 21, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 3/14/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", with a stylized flourish at the end.

Michelle Clements
Sr. Chemist / Lab Manager



Date: 03/21/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1403152

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1403152-001	Northlake	03/14/2014 9:06 AM	03/14/2014 9:06 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction**Project:** Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 3/14/2014 9:06:00 AM

Project: Northlake Dredging

Lab ID: 1403152-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6882

Analyst: BR

Arsenic	1.55	1.00		µg/L	1	3/17/2014 4:03:52 PM
Copper	ND	0.500		µg/L	1	3/17/2014 4:03:52 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1403152
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6882	SampType: MBLK	Units: µg/L				Prep Date: 3/17/2014	RunNo: 13089				
Client ID: MBLKW	Batch ID: 6882					Analysis Date: 3/17/2014	SeqNo: 262012				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6882	SampType: LCS	Units: µg/L				Prep Date: 3/17/2014	RunNo: 13089				
Client ID: LCSW	Batch ID: 6882					Analysis Date: 3/17/2014	SeqNo: 262013				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.4	1.00	100.0	0	98.4	85	115				
Copper	99.4	0.500	100.0	0	99.4	85	115				

Sample ID: 1403157-003CDUP	SampType: DUP	Units: µg/L				Prep Date: 3/17/2014	RunNo: 13089				
Client ID: BATCH	Batch ID: 6882					Analysis Date: 3/17/2014	SeqNo: 262018				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00						0		30	
Copper	ND	0.500						0		30	

Sample ID: 1403157-003CMS	SampType: MS	Units: µg/L				Prep Date: 3/17/2014	RunNo: 13089				
Client ID: BATCH	Batch ID: 6882					Analysis Date: 3/17/2014	SeqNo: 262019				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	550	1.00	500.0	0.5530	110	70	130				
Copper	466	0.500	500.0	0	93.2	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1403152
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1403157-003CMSD	SampType: MSD	Units: µg/L				Prep Date: 3/17/2014	RunNo: 13089				
Client ID: BATCH	Batch ID: 6882					Analysis Date: 3/17/2014	SeqNo: 262020				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	556	1.00	500.0	0.5530	111	70	130	550.1	1.13	30	
Copper	459	0.500	500.0	0	91.9	70	130	465.9	1.43	30	

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Clare Griggs**

Work Order Number: **1403152**
 Date Received: **3/14/2014 9:06:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1403206

March 26, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 3/19/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements
Sr. Chemist / Lab Manager



Date: 03/26/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1403206

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1403206-001	Northlake	03/19/2014 10:00 AM	03/19/2014 10:04 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction**Project:** Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 3/19/2014 10:00:00 AM

Project: Northlake Dredging

Lab ID: 1403206-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 6909

Analyst: MC

Arsenic	1.24	1.00		µg/L	1	3/19/2014 11:36:50 PM
Copper	0.944	0.500		µg/L	1	3/19/2014 11:36:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1403206
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-6909	SampType: MBLK	Units: µg/L	Prep Date: 3/19/2014	RunNo: 13143							
Client ID: MBLKW	Batch ID: 6909	Analysis Date: 3/19/2014	SeqNo: 264187								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-6909	SampType: LCS	Units: µg/L	Prep Date: 3/19/2014	RunNo: 13143							
Client ID: LCSW	Batch ID: 6909	Analysis Date: 3/19/2014	SeqNo: 264188								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	1.00	100.0	0	102	85	115				
Copper	101	0.500	100.0	0	101	85	115				

Sample ID: 1403180-003ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/19/2014	RunNo: 13143							
Client ID: BATCH	Batch ID: 6909	Analysis Date: 3/19/2014	SeqNo: 264192								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	35.5	1.00						35.45	0.203	30	
Copper	ND	0.500						0		30	

Sample ID: 1403180-003AMS	SampType: MS	Units: µg/L	Prep Date: 3/19/2014	RunNo: 13143							
Client ID: BATCH	Batch ID: 6909	Analysis Date: 3/19/2014	SeqNo: 264193								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	547	1.00	500.0	35.45	102	70	130				
Copper	490	0.500	500.0	0	98.0	70	130				

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a matrix effect.

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1403206
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1403180-003AMSD	SampType: MSD	Units: µg/L	Prep Date: 3/19/2014	RunNo: 13143
Client ID: BATCH	Batch ID: 6909		Analysis Date: 3/19/2014	SeqNo: 264194

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	566	1.00	500.0	35.45	106	70	130	546.9	3.40	30	
Copper	499	0.500	500.0	0	99.9	70	130	490.0	1.87	30	

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a matrix effect.

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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Client Name: **REDSID**
 Logged by: **Chelsea Ward**

Work Order Number: **1403206**
 Date Received: **3/19/2014 10:04:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Sample received at appropriate temperature

4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Sample	8.7	Good



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Redside Construction
Dan Roesler
PO Box 264
Port Gamble, WA 98364

RE: Northlake Dredging
Lab ID: 1403281

April 02, 2014

Attention Dan Roesler:

Fremont Analytical, Inc. received 1 sample(s) on 3/26/2014 for the analyses presented in the following report.

Dissolved Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements".

Michelle Clements
Sr. Chemist / Lab Manager



Date: 04/02/2014

CLIENT: Redside Construction
Project: Northlake Dredging
Lab Order: 1403281

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1403281-001	Northlake	03/26/2014 11:40 AM	03/26/2014 11:40 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Redside Construction**Project:** Northlake Dredging

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Client: Redside Construction

Collection Date: 3/26/2014 11:40:00 AM

Project: Northlake Dredging

Lab ID: 1403281-001

Matrix: Water

Client Sample ID: Northlake

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Dissolved Metals by EPA Method 200.8

Batch ID: 7035

Analyst: MC

Arsenic	2.49	1.00		µg/L	1	4/2/2014 12:18:05 AM
Copper	5.58	0.500		µg/L	1	4/2/2014 12:18:05 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1403281
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: MB-7035	SampType: MBLK	Units: µg/L	Prep Date: 4/1/2014	RunNo: 13371							
Client ID: MBLKW	Batch ID: 7035	Analysis Date: 4/1/2014	SeqNo: 269501								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Copper	ND	0.500									

Sample ID: LCS-7035	SampType: LCS	Units: µg/L	Prep Date: 4/1/2014	RunNo: 13371							
Client ID: LCSW	Batch ID: 7035	Analysis Date: 4/1/2014	SeqNo: 269502								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	89.8	1.00	100.0	0	89.8	85	115				
Copper	91.1	0.500	100.0	0	91.1	85	115				

Sample ID: 1403281-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 4/1/2014	RunNo: 13371							
Client ID: Northlake	Batch ID: 7035	Analysis Date: 4/2/2014	SeqNo: 269504								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	2.36	1.00						2.489	5.32	30	
Copper	6.12	0.500						5.580	9.18	30	

Sample ID: 1403281-001AMS	SampType: MS	Units: µg/L	Prep Date: 4/1/2014	RunNo: 13371							
Client ID: Northlake	Batch ID: 7035	Analysis Date: 4/2/2014	SeqNo: 269505								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	461	1.00	500.0	2.489	91.6	70	130				
Copper	455	0.500	500.0	5.580	89.9	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1403281
CLIENT: Redside Construction
Project: Northlake Dredging

QC SUMMARY REPORT
Dissolved Metals by EPA Method 200.8

Sample ID: 1403281-001AMSD	SampType: MSD	Units: µg/L	Prep Date: 4/1/2014	RunNo: 13371
Client ID: Northlake	Batch ID: 7035		Analysis Date: 4/2/2014	SeqNo: 269506

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	471	1.00	500.0	2.489	93.7	70	130	460.6	2.28	30	
Copper	459	0.500	500.0	5.580	90.6	70	130	455.1	0.776	30	

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **REDSID**
 Logged by: **Chelsea Ward**

Work Order Number: **1403281**
 Date Received: **3/26/2014 11:40:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Sample received straight from field.
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

