

November 9, 2007

David Gillingham Anchor Environmental, L.L.C. 1423 3rd Avenue, Suite 300 Seattle, WA 98101

RE: Client Project: Kimberly Clark Anacortes ARI Job No. LT50

Dear David:

Please find enclosed chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo Client Service Manager sue@arilabs.com 206/695-6207

Enclosures

cc: eFile LT50

SD/sdrd

Chain of Custody Documentation

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

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Anchor 206-287-9130	930	9/29/07	ice Present?	119			4611 South 134th Place, Suite 100 Tilkwila MA 98168
David Gillingham		No. of Coolers:	Cooler Temps:)	206-695-6200 206-695-6201 (fax)
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AN-55-07-070928 09/28/07	9	×	×	×	×		
4N-55-10-070928 09/28/07	9	×	×	×			
4N-55-11-070928 09/2867	9	×	Х	X	X		
4N-55-REF-07092809/28/07	8	×		·\ *			
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David Gillinghim	Printed Mame:	S CAMBUN	(Tray)	Printed Name:			Printed Name:
Company:	Company: ARI	,		Company:			Company:
129/67 / 000	Date & Time: # 79/6-7	שצב		Date & Time:			Date & Time:

meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or coperform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

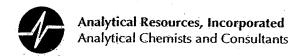
Analytical Resources, Incorporated Analytical Chamists and Consultants	4611 South 134th Place, Suite 100 Tukwila. WA 98168	206-695-6200 206-695-6201 (fax)	Notes/Comments											Received by: (Signature)	Printed Name:	Company:	Date & Time:
			Analysis Requested	879 51	2015 1210 1201	X X X	X	X ×	XX	XX				Relinquished by: (Signature)	Printed Name:	Сотралу:	Date & Time:
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Turn-around Requested:	206 287	Gillinghan		Samplers (Date Time	9/28/07	9/12/p	4/28/67	0/21/0	4/12/67			0 1 1	Rengquished W	Printh Name:	Dand Cil	Date & Time $\frac{7}{9}$
ARI Assigned Number:	ARI Client Company	Client Contact David	Client Project Name:	Client Project #:	Sample ID	AN-55-04	AN-55-05	AN-55-06	\$0-55-N#	AN-55-09				Comments/Special Instructions			

said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

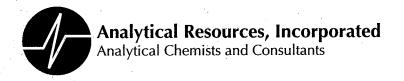
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Cooler Receipt Form

ARI Client: ANCITO	<u>2</u>	roject Name: Kim	berly C	lark	Anaco	rtes
ARI Client: ANCITO. COC No:	· D	roject Name: <u>Kiw</u> elivered by: <u>HW</u>)-I)ELLVER	2 N	,	
Assigned ARI Job No: <u>LR7</u>	/ т	racking No:				
Preliminary Examination						
Were intact, properly signed	and dated custody sea	als attached to the	outside of to	cooler?	YES	(NO)
Were custody papers include	d with the cooler?		.*****		(YES)	NO
Were custody papers properly	v filled out (ink. signed	etc.)			(ES)	NO -
Record cooler temperature (r	ecommended 2.0-6.0	the second secon	,			•
Cooler Accepted by:	are	D	ate: <u>9/29/</u>	07 Ti	me: /	ර්රත
Сотр	olete custody forms a					
Log-In Phase:					······································	
Was a temperature blank incl	uded in the cooler?				YES	MO.
What kind of packing material					70	
Was sufficient ice used (if app	oropriate)?	~~~~~				NO
Were all bottles sealed in indi			•		(TES)	NO
Did all bottle arrive in good co					WES .	NO
Were all bottle labels complet					(ES	NO
Did all bottle labels and tags a	=					NO
Were all bottles used correct to					YES	NO
Do any of the analyses (bottle	•					NO
Were all VOC vials free of air		*.			YES	NO
Was sufficient amount of sam						NO
Samples Logged by:	are		/29/07		315	•
** N o	otify Project Manager	of discrepancies	or concerns	; **	٠	
Explain discrepancies or nega	tive responses:			•		
				•		
,	•				•	
,	•					
-		•			•	
		Ву:		Date:		.



Client: Anchor Environmental, LLC

ARI Project No.: LR71

Client Project: Kimberly Clark Anacortes

Case Narrative

- 1. Twelve samples were received on September 29, 2007. Eleven samples were submitted for Pore Water Extraction in general guidance with the Corp of Engineers draft interim guide lines, total organic matter by ignition by ASTM D2974 and grain size analysis by PSEP methodology. Sample AN-SS-REF-070928 was submitted only for grain size distribution and pore water extraction.
- 2. The sediment for pore water extraction was in 32 oz wide mouth glass jars. The sediment sample jars were placed in the nitrogen chamber along with centrifuge jars, spoons, preserved 40 mL vials and a balance, and the chamber was sealed and filled with nitrogen. The centrifuge jars and vials were opened to allow them to come to equilibrium with the chamber. The oxygen level in the chamber was less than 1%.
- All centrifuge bottles were pre-rinsed with Hexane and allowed to dry completely. All spoons were pre-rinsed with deionized water.
- 4. All samples were centrifuged in a pre-cooled centrifuge (4°C) at 1,200 x g for 30 minutes, decanted in the nitrogen chamber, and then placed in another pre-cooled centrifuge (4°C) and spun at 7,000-x g for 15 minutes. The pore water was then decanted into two separate preserved 40 mL vials for ammonia and sulfide testing.
- Some of the samples had "floaters," material that was floating on the top (or within the water) and could not be separated by centrifuging.
- 6. Sample AN-SS-06 contained live worms.
- 7. The samples for total organic matter by ignition were received in 16 oz plastic jars.
- 8. The grain size analysis samples were received in 16 oz plastic jars.
- The samples were run in a single batch and sample AN-SS-REF-070928 was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
- 10. Samples AN-SS-05, AN-SS-06 and AN-SS-09 contained fewer than the 5 grams required in the pipette portion of the analysis. Our balance has a capacity of about 200 g. (by 0.0001) and a sample size that would give 5 g. of fines could not be split and stay within the capacity of the balance.
- 11. The pipette readings on sample AN-SS-09 were below the level required for accurate weighing, resulting in negative weights. This result was likely due to the minimal amount of fines in the sample or the large wood chunks within the sample, which could have interfered with the moisture content. The total sample weight was adjusted to eliminate the negative
- 12. Samples AN-SS-01-070927, AN-SS-02-070927, AN-SS-03-070928, AN-SS-05, AN-SS-08 and AN-SS-09 contained organic matter and/or large wood chunks. This material may have broken down during the sieving process, affecting grain size analysis.
- 13. Samples AN-SS-01-070927, AN-SS-02-070927, AN-SS-03-070928, AN-SS-07-070928, AN-SS-10-070928, AN-SS-11-070928 and AN-SS-06 contained shells or shell fragments.
- 14. The data is provided in summary tables and plots.
- 15. There were no other anomalies in the samples or methods on this project.

Approved by:

Title:

Taylor Mckeuzu Date: 10/18/07

Case Narrative

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.



Case Narrative

Client: Anchor Environmental Project: Kimberly Clark Anacortes

Matrix: Sediment ARI Job No. LT50

Sample receipt

Twelve sediment samples were received September 29, 2007 under ARI Job LR71. Sample container temperatures measured by IR Thermometer following ARI SOP were 3.4 to 4.2°C and samples were well iced. Samples were received in good condition with no discrepancies in paperwork.

Pore waters were extracted following USACE/EPA techniques, and are reported here under ARI Job LT50.

Conventionals Parameters (Ammonia and Sulfide)

Samples were prepared and analyzed within the required holding time from pore water preparation.

The method blank was clean for both parameters. The LCS was within limits for both sulfide batches.

Standard reference recoveries were within limits for the Ammonia.

The replicates had acceptable RPD for both parameters.

Limited sample volume was available and no Matrix Spike was analyzed for the pore waters.

There were no incidents of note.



Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but ≥ the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for



- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Data Summary Package

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By.

Analytical Resources, Inc.



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-01-070927 ARI ID: 07-21717 LT50A

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	8.06
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	26.4

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized:

Reported: 11/12/07

d:

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-02-070927 ARI ID: 07-21718 LT50B

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	7.40
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	34.2

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-03-070928 ARI ID: 07-21719 LT50C

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	9.79
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	22.8

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-07-070928 ARI ID: 07-21720 LT50D

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.200	13.0
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	38.7

RLAnalytical reporting limit U



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-10-070928 ARI ID: 07-21721 LT50E

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.200	13.1
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	44.0

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized:

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-11-070928 ARI ID: 07-21722 LT50F

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	2.34
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	30.2

RLAnalytical reporting limit U



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-REF-070928 ARI ID: 07-21723 LT50G

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	6.13

RLAnalytical reporting limit U



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-04 ARI ID: 07-21724 LT50H

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	0.888

RLAnalytical reporting limit U



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-05 ARI ID: 07-21725 LT50I

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.500	16.3
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	43.0

RL Analytical reporting limit
U Undetected at reported detection limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-06 ARI ID: 07-21726 LT50J

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	9.98
Sulfide	10/05/07 100507#2	EPA 376.2	mg/L	1.00	14.2

RL Analytical reporting limit
U Undetected at reported detection limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-09 ARI ID: 07-21728 LT50L

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	8.46

RL Analytical reporting limit

METHOD BLANK RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized:

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: NA

Date Received: NA

Analyte	Method	Date	Units	Blank
N-Ammonia	EPA 350.1M	10/16/07	mg-N/L	< 0.010 U
Sulfide	EPA 376.2	10/04/07 10/05/07	mg/L	< 0.05 U < 0.05 U

LAB CONTROL RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: NA Date Received: NA

Analyte	Method	Date	Units	LCS	Spike Added	Recovery
Sulfide	EPA 376.2	10/04/07	mg/L	0.41 0.38	0.38 0.38	108.5% 100.5%

STANDARD REFERENCE RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized: Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: NA

Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
N-Ammonia ERA #15125	EPA 350.1M	10/16/07	mg-N/L	0.516	0.500	103.2%



Matrix: Pore Water

Data Release Authorized: Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Analyte		Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: LT50D	Client	ID: AN-SS-07	-070928				
N-Ammonia		EPA 350.1M	10/16/07	mg-N/L	13.0	13.0	0.0%
ARI ID: LT50J	Client	ID: AN-SS-06					
N-Ammonia	•	EPA 350.1M	10/16/07	mg-N/L	9.98	9.97	0.1%

Laboratory Data Package

prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.

General Chemistry Analysis QC Summary Data

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.

METHOD BLANK RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized: Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: NA Date Received: NA

Analyte	Method	Date	Units	Blank
N-Ammonia	EPA 350.1M	10/16/07	mg-N/L	< 0.010 U
Sulfide	EPA 376.2	10/04/07 10/05/07	mg/L	< 0.05 U < 0.05 U

LAB CONTROL RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized:

Reported: 11/12/07

Project: Kimberly Clark Anacortes Event: NA

Date Sampled: NA Date Received: NA

Analyte	Method	Date	Units	LCS	Spike Added	Recovery
Sulfide	EPA 376.2	10/04/07 10/05/07	mg/L	0.41 0.38	0.38 0.38	108.5% 100.5%

STANDARD REFERENCE RESULTS-CONVENTIONALS LT50-Anchor Environmental, LLC



Matrix: Pore Water

Data Release Authorized: Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: NA Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
N-Ammonia ERA #15125	EPA 350.1M	10/16/07	mg-N/L	0.516	0.500	103.2%



Matrix: Pore Water

Data Release Authorized: Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Analyte		Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: LT50D	Client I	D: AN-SS-07	-070928				
N-Ammonia		EPA 350.1M	10/16/07	mg-N/L	13.0	13.0	0.0%
ARI ID: LT50J	Client I	D: AN-SS-06					
N-Ammonia		EPA 350.1M	10/16/07	mg-N/L	9.98	9.97	0.1%

General Chemistry Analysis Sample Data

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-01-070927 ARI ID: 07-21717 LT50A

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	8.06
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	26.4

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized:

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-02-070927 ARI ID: 07-21718 LT50B

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	7.40
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	34.2

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-03-070928 ARI ID: 07-21719 LT50C

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	9.79
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	22.8

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-07-070928 ARI ID: 07-21720 LT50D

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.200	13.0
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	38.7

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-10-070928 ARI ID: 07-21721 LT50E

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.200	13.1
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	44.0

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized:

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-11-070928 ARI ID: 07-21722 LT50F

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	2.34
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	30.2

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-REF-070928 ARI ID: 07-21723 LT50G

Anal	yte	Date Batch	Method	Units	RL	Sample
N-Am	monia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	6.13
RL U	Analytical reporting l Undetected at reported		imit			



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/01/07 Date Received: 10/03/07

Client ID: AN-SS-04 ARI ID: 07-21724 LT50H

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	0.888

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-05 ARI ID: 07-21725 LT50I

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.500	16.3
Sulfide	10/04/07 100407#2	EPA 376.2	mg/L	2.50	43.0

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-06 ARI ID: 07-21726 LT50J

Analyte	Date Batch	Method	Units	RL	Sample
N-Ammonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	9.98
Sulfide	10/05/07 100507#2	EPA 376.2	mg/L	1.00	14.2

RL Analytical reporting limit



Matrix: Pore Water

Data Release Authorized

Reported: 11/12/07

Project: Kimberly Clark Anacortes

Event: NA

Date Sampled: 10/02/07 Date Received: 10/03/07

Client ID: AN-SS-09 ARI ID: 07-21728 LT50L

Anal	-yte	Date Batch	Method	Units	RL	Sample
N-Am	nmonia	10/16/07 101607#1	EPA 350.1M	mg-N/L	0.100	8.46
RL U	Analytical reporting Undetected at reporting Undetected at reporting the control of the control		imit			

General Chemistry Analysis Instrument Raw Data

Prepared for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: KIMBERLY CLARK ANACORTES

ARI JOB NO. LT50

Prepared By

Analytical Resources, Inc.

Sulfide EPA 376.2

Data Analyst: Mike Perkins

Comments:

Print Date: 10/12/07 13:56

No: 3333 Analyzed by: MAP Date Analyzed: 10/4/07 Time Analyzed: 13:00



ARI ID	SMP/DGST	DF	Raw	Calc	Q	RL	SPK	REC/RPD
1. ICB		1.0	-0.015	< 0.05	U	0.050		
2. ICVR		1.0	0.407	0.41		0.050	0.38	108.47
3. LT50H	50.0 50.0	10.	0.143	Comment	NR	0.500		
4. LT50L	50.0 50.0	1.0	0.035	Comment	NR	0.050		
5. LT50G	50.0 50.0	2.5	0.009	Comment	NR	0.125		
6. LT50A	50.0 50.0	50.	0.528	26.4		2.50		
7. LT50B	50.0 50.0	50.	0.684	34.2		2.50		
8. LT50C	50.0 50.0	50.	0.455	22.8		2.50		
9. LT50D	50.0 50.0	50.	0.774	38.7		2.50		
10. LT50E	50.0 50.0	50.	0.879	44.0		2.50		
11. LT50F	50.0 50.0	50.	0.605	30.2		2.50		
12. LT50I	50.0 50.0	50.	0.859	43.0		2.50		
13. LT50K	50.0 50.0	1.0		Comment	NR	0.050		
14. CCB		1.0	-0.011	< 0.05	Ü	0.050		
15. CCVR		1.0	0.400	0.40		0.050	0.38	105.82

SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2) **Aqueous Samples** Distillation Finish 10/4/07 13:00 MAP If distilled, specify procedure NA 1. Standardization of sodium thiosulfate titrant Buret used for titrations: DIGITAL III Thiosulfate ID: Titration from 10/2/07 RR Bi-iodate ID: 0071-11 Titration of bi-iodate with thiosulfate Stock bi-iodate = 0.4065 500 grams to ml bi-iodate : 2.00 2.00 2.00 Normality = 0.025 ml thiosulfate = 2.04 2.05 2.07 nthio Normality thiosulfate = (mL bi-iodate*normality) / mL thiosulfate = 0.025 0.024 0.024 0.024 2. Normality of lodine Titration of Iodine with thiosulfate Iodine ID: ____ 5777 C mL lodine = 3.00 3.00 mL thiosulfate = 2.860 2.840 2.830 ni Normality iodine = (mL thiosulfate*normality) / mL iodine= 0.023 0.023 0.023 0.023 3. Standardization of sodium sulfide stock Titration of standard with thiosulfate Stock ID = 0073-8 mL Standard = 1.00 1.00 1.00 Approx conc in 100ml mL iodine = 3.00 3.00 3.00 0.5273 | mg/mL = |0.704 mL thiosulfate = 1.06 1.04 1.05 stkconc (mg/mL) Sulfide (mg/mL) = {[(mL iodine*ni)-(mL thio *nthio)]*16} / mL standard = 0.695 0.703 0.699 0.699 Intermediate Standard Add 1.8 ml stk to 50 ml 0.01 M NaOH = 0.025 mg/mL 5.0 Calibration Standard Curve spectrophotometer used FINAL CONC **REGRESSION DATA** Volume Intermediate **VOLUME** ABSORBANCE @ 650 nm (ml) (mg S/L) 0.008 (ml) 1 Avg intercept 0.00 50 0.000 0.002 0.002 slope 0.493 0.10 50 0.050 0.031 0.031 0.048 0.9994 0.25 50 0.126 0.069 0.069 0.125 0.50 50 0.134 0.252 0.134 0.256 Comment: Calibration OK! 1.00 50 0.503 0.267 0.267 0.526 2.00 50 1.007 0.498 0.498 0.995 maxabs = 0.498 Calib Verif Std = 0.75 ml int to 50 ml ZnOAc = 0.378 mg/L Distillation Std = ml Stk to 6.993 0.5 SAMPLE DATA enter dilution factor as ml final/mL sample DISTILL **DATA** SPECTROPHOTOMETRIC DATA SAMPLE DATA Sample Distill Dilution ABS BKG Regressed Final SAMPLE ID Volume Volume factor @ 650 nm ABS Conc Conc (mL) (mg S/L) mg S/L Cal Blk 1.00 0.004 n/a -0.007< 0.05 OK! ICV n/a 1.00 0.183 0.356 0.36 94.24% 50.0 LR72 A1 1.00 0.003 < 0.05 -0.00950.0 LR72 B1 1.00 0.001 -0.013 < 0.05 LR72 C1 50.0 1.00 0.000 -0.015< 0.05 LR72 D1 50.0 1.00 0.000 -0.015< 0.05 LR72 E1 50.0 1.00 0.003 -0.009 < 0.05 LR72 F1 50.0 1.00 0.065 0.067 -0.011 < 0.05 LR72 G1 1.00 50.0 0.220 0.218 -0.011 < 0.05 -R72 H1 50.0 1.00 0.000 -0.015 < 0.05 LR72 C1ms 50.0 0.006 1.00 -0.003 < 0.05 NO RECOVERY Spike at 0.05 ml INT to 5.00 ml sample = 0.25 mg/l LR72 C1 msd 50.0 1.00 0.006 < 0.05 -0.003NO RECOVERY Spike at 0.05 ml INT to 5.00 ml sample = 0.25 mg/l LR72 G1ms 50.0 1.00 0.276 0.218 0.102 0.10 40.65% Spike at 0.05 ml INT to 5.00 ml sample = 0.25 mg/l 1.00 R72 G1 msd 50.0 0.276 0.218 0.102 0.10 40.65% Spike at 5.00 ml sample = 0.05 ml INT to 0.25 mg/l Cal Blk 50.0 n/a 1.00 0.000 -0.015 < 0.05 OK! CCV 50.0 n/a 1.00 0.208 0.407 0.41 107.67%

ARI 6046 Sulfide, Water Rev: 8/27/04

OCT 4 water sulfide Date Printed: 10/4/2007

SAMPLE DAT				n factor as ml				OAMDI E DATA
	DISTILL			CTROPHOT				SAMPLE DATA
	Sample	Distill	Dilution	ABS	BKG	Regressed	Final	
SAMPLE ID	Volume	Volume	factor	@ 650 nm	ABS	Conc	Conc	
and the state of t		(mL)			· · · · · · · · · · · · · · · · · · ·	(mg S/L)	mg S/L	
_R71 A .	50.0		10.00	0.878		1.765	17.7	offscale dilute
R71 B	50.0		10.00	1.100		2.216	22.2	offscale dilute
R71 C	50.0		10.00	0.819		1.646	16.5	offscale dilute
.R71 D	50.0		10.00	1.114		2.244	22.4	offscale dilute
R 71 E	50.0		10.00	1.291		2.603	26.0	offscale dilute
R71 F	50.0		10.00	1.055		2.124	21.2	offscale dilute
_R71 G	50.0		10.00	0.014		0.013	< 0.5	
R7444	50.0		10.00	0.078		-0m/48**	1.43	
R71 I	50.0		10.00	1.112		2.240	22.4	offscale dilute
R71 J	50.0		10.00	0.640		1.283	12.8	offscale dilute
Cal Blk	50.0	n/a	1.00	0.008		0.001	< 0.05	OK!
CCV	50.0	n/a	1.00	0.223		0.437	0.44	Err @116%
Cal Blk	50.0	n/a	1.00	0.009		0.003	< 0.05	OK!
CCV	50.0	n/a	1.00	0.219		0.429	0.43	Err @114%
RMED \$	50.0		1.00	0.025		(0:085:e)	< 0.05	
RALO I	50.0		2.50	0.012		0.009	< 0.13	
R71 H	50.0		2.50	NR				dirtysample limited volume
.R71 L	50.0		3.33	NR				limited volume, end of sample
Cal Blk	50.0	n/a	1.00	0.003		-0.009	< 0.05	OK!
CCV	50.0	n/a	1.00	0.211		0.413	0.41	109.28%
R71 A 🔪	50.0		√ 50.00	0.268		10.528	26.4	
R71B 4	50.0		50.0 <u>0</u>	0.345		0:684	34.2	
R71 C A	50.0		50.00			(0.455 4	22.8	
R71D A	50.0		50.00	0.389		0.774	38.7	A
R71 E \	50.0		50.00			0.879	44.0	
R71 F A	50.0		50.00	120		0.605	30.3	
R71 G	50.0		5.00			0.007	< 0.25	
R71	50.0		50.00			(0.859.3	42.9	
R74	50.0		10.00			1 252	12.5	offscale dilute
Cal Blk	50.0	n/a	1.00			-0.011	< 0.05	OK!
CCV	50.0	n/a	1.00			0.400	0.40	106.05%

ARI 6046 Sulfide, Water Rev: 8/27/04 Sulfide EPA 376.2

Data Analyst: Mike Perkins

Comments:

Print Date: 10/12/07 13:37

No: 3337

Analyzed by: MAP
Date Analyzed: 10/5/07
Time Analyzed: 9:45



ARI ID	SMP/DGST	DF	Raw	Calc	Q	RL	SPK	REC/RPD
1. ICB		1.0	-0.014	< 0.05	U	0.050		
2. ICVR		1.0	0.385	0.38		0.050	0.38	100.53
3. LT50J	50.0 50.0	20.	0.712	14.2		1.00		
4. CCB		1.0	-0.017	< 0.05	U	0.050		
5. CCVR		1.0	0.383	0.38		0.050	0.38	100.53

SULFIDE BEN		(Spectro	photomet	ric, EPA 37		Date	/ Time	Ar	alyst	
Aqueous San	nples				Distillation					
					Finish	10/5/	07 9:45	<u> </u>	IAP	
If distilled, speci	fy procedure	NA								
1. Standardiza	tion of sodi	um thiosulfa	ate titrant		В	uret used f	or titrations:	DIG	TAL III	
Thiosulfate ID:						STANDAR	D FROM 10/2	/07		
Bi-iodate ID:	007	1-11				Titration	of bi-iodate w	ith thiosulfate		
Stock bi-iodate =	0.4065	grams to	500	mL	ml bi-iodate =	2.000	2.000	2.000		
Normality =	0.025				ml thiosulfate =	2.040	2.050	2.070	nthio	
N	ormality thios	ulfate = (mL	bi-iodate*no	ormality) / mi	L thiosulfate =	0.025	0.024	0.024	0.024	
2. Normality of	f lodine					Titration	of lodine with	h thiosulfate		
Iodine ID:	577	7 C			mL lodine =	3.000	3.000	3.000		
				mi	L thiosulfate =	2.860	2.840	2.830	ni	
	Normal	lity iodine = (mL thiosulfa	te*normality) / mL iodine=	0.023	0.023	0.023	0.023	
3. Standardizat	ion of sodiu	ım sulfide s	tock			Titration o	of standard wi	th Thiosulfate		
Stock ID =	007	3-8		n	nL Standard =	1.00	1.00	1.00		
Approx conc in				1	mL iodine =	3.00	3.00	3.00		
g Na2S		mg/ mL =			L thiosulfate =	1.06	1.04	1.05	stkconc (mg/mL)	
Sulfide (/mg/mL) = {[(mL iodine*ni)-(mL thio *r	thio)]*16} / r	nL standard =	0.70	0.70	0.70	0.699	
Intermediate St				1				-		
Add		ml stk to	50	ml 0.01 M N	laOH =	0.025	mg/mL			
5.0 Calibration Standard Curve spectrophotometer used										
Volume	FINAL	CONC					F	REGRESSION	DATA	
Intermediate	VOLUME			RBANCE @	650 nm					
(ml)	(ml)	(mg S/L)	11	2	Avg		intercept	0.011		
0.00	50	0.000	0.001		0.001		slope	0.496		
0.10	50	0.050	0.032		0.032		r=	0.9986		
0.25	50	0.126	0.073		0.073					
0.50	50	0.252	0.146		0.146	 	Comment:	Calibration OK	1	
1.00	50	0.503	0.275		0.275					
2.00	50	1.007	0.501		0.501	A	maxabs =	0.501		
	erif Std =		ml int to	50	ml ZnOAc =	0.378	mg/L			
	tion Std =		ml Stk to	50	=	6.993	mg/L			
SAMPLE DAT					nl final/mL sam					
	DISTILL				TOMETRIC	· · · · · · · · · · · · · · · · · · ·		SAMPLE DA	TA	
	Sample	Distill	Dilution	ABS	BKG	Regressed	Final			
SAMPLE ID	Volume	Volume	factor	@ 650 nm	ABS	Conc	Conc			
C-I DII:		(mL)	4.00	0.004		(mg S/L)	mg S/L		- <u>-</u>	
Cal Blk ICV		n/a	1.00	0.004		-0.014	< 0.05		OK!	
LR71 J		n/a	1.00 20.00	0.202		0.385	0.38		101.94%	
			POENERANDA PARENCE	695		0:712	14.2			
LR71 J dup LS41 A36			20.00			0.750		- 66	RPD=5.2%	
_S41 A36 dup			1.00	0.757		1.505	1.50	offscale dilute	DDD 0 (1)	
LS41 A36 dup			1.00	0.783		1.557	1.56	offscale dilute	RPD=3.4%	
Spike at LS41 B39	0.10 50.0	ml int to				0.50	mg/l	-ffle -llit		
LS41 C16	50.0		1.00 1.00	1.117 1.367		2.231	2.23	offscale dilute		
Cal Blk	50.0	n/a				2.735	2.74	offscale dilute	0//	
CCV	50.0		1.00	0.003		-0.017	< 0.05		OK!	
UUV	30.0	n/a	1.00	0.201		0.383	0.38		101.40%	

ARI 6046 Sulfide, Water Rev: 8/27/04

OCT 5 water sulfide Date Printed: 10/5/2007

SAMPLE DAT	Ά		enter dilutio	n factor as m	ıl final/mL saı	mple		
DISTILL DATA			SPECTROPHOTOMETRIC DATA				SAMPLE DATA	
	Sample	Distill	Dilution	ABS	BKG	Regressed	Final	
SAMPLE ID	Volume	Volume	factor	@ 650 nm	ABS	Conc	Conc	
		(mL)				(mg S/L)	mg S/L	
LS41 A36			10.00	0.098		0.175	1.75	
LS41 A36 dup			10.00	0.093		0.165	1.65	RPD=5.9%
LS41 A36 ms			10.00	0.220		0.421	4.21	97.8%
Spike at	0.50	ml int to	5.00	ml sample =	:	2.52	mg/l	
LS41 B39			50.00	0.169		0.318	15.9	
LS41 B39 dup			50.00	0.162		0.304	15.2	RPD=4.5%
LS41 C16			50.00	0.100		0.179	9.0	
LS41 C16 dup			50.00	0.110		0.199	10.0	RPD=10.7%
Cal Blk	50.0	n/a	1.00	0.001		-0.021	< 0.05	OK!
CCV	50.0	n/a	1.00	0.216		0.413	0.41	109.42%
CCV	50.0	n/a	1.00	0.202		0.385	0.38	101.94%

Sulfide EPA 376.2

Data Analyst: Mike Perkins

Comments:

Print Date: 10/ 5/07 12:16

No: 888

Analyzed by: MAP
Date Analyzed: 10/5/07
Time Analyzed: 9:45



AR	IID	SMP/DGST	DF	Raw	Calc	Q	RL	SPK	REC/RPD
1.	ICB		1.0	-0.014	< 0.05	U	0.050		
2.	ICVR		1.0	0.385	0.38		0.050	0.38	100.53
3.	LS41A	50.0 50.0	10.	0.175	1.75		0.500		
4.	LS41A	DUP 50.0 50.0	10.	0.165	1.65		0.500		5.88
5.	LS41A	MS 50.0 50.0	10.	0.421	4.21		0.500	2.52	97.62
6.	LS41B	50.0 50.0	50.	0.318	15.9		2.50		
7.	LS41B	DUP 50.0 50.0	50.	0.304	15.2		2.50		4.50
8.	LS41C	50.0 50.0	50.	0.179	8.95		2.50		
9.	LS41C	DUP 50.0 50.0	50.	0.199	9.95		2.50		10.58
10.	ССВ		1.0	-0.021	< 0.05	U	0.050		
11.	CCVR		1.0	0.413	0.41		0.050	0.38	108.47

Original Run Filename: OM_10-16-2007_01-30-46PM.OMN created 10/16/2007 1:30:46 PM

Original Run Author's Signature: RR

Current Run Filename: 101607NH3A.omn last modified 10/16/2007 4:19:39 PM

Description: Default New Run

Standards made from ARI Stock# 0068-12

		Char	nnel 1			
Sample	Cup No.	N	H3	Detection Time	MANUAL DILUTION FACTOR	
		Conc. (mg N/L)	Area (Vs)			
STD 1.0	S1	1	38.3020	10/16/2007@1:31:49 PM		
STD 0.8	S2	0.8	30.1303	10/16/2007@1:33:00 PM		
STD 0.5	S3	0.5	18.3678	10/16/2007@1:34:11 PM		
STD 0.2	S4	0.2	7.3401	10/16/2007@1:35:21 PM		
STD 0.05	S5	0.05	1.3569	10/16/2007@1:36:31 PM	,	
STD 0.02	S6	0.02	0.4766	10/16/2007@1:37:43 PM		
STD 0.01	S7	0.01	0.2736	10/16/2007@1:38:54 PM		
BLANK	S8	0	0.0821	10/16/2007@1:40:05 PM		
ICV ERA 21017	9	0.5163	19.4490	10/16/2007@1:41:15 PM		
Known Conc:		0.5				
Calibration:		Table/Fig. 1				
ICB	10	0.0099	0.0927	10/16/2007@1:47:12 PM		
Known Conc:		0				
LOW	11	0.0117	0.1604	10/16/2007@1:53:10 PM		
Known Conc:		0.01		·		
FILTERBLK 12		0.0063	-0.0465	10/16/2007@1:59:08 PM		
LT50 A1	13	8.0598	30.5240	10/16/2007@2:00:18 PM	10.0000	
LS37-A1	14	-0.0381	-1.7436	10/16/2007@2:01:29 PM	-	
LS37 B1	15	0.4074	15.2870	10/16/2007@2:02:40 PM		
LS37 B1 DUP	15	0.4073	15.2843	10/16/2007@2:03:50 PM		

% R = 103.26

% R = 117

% RPD = 0.02

15	0.4091	15.3502	10/16/2007@2:05:01 PM	
16	0.9044	34.2861	10/16/2007@2:06:12 PM	
Spike Level:				
19	0.1228	4.4062	10/16/2007@2:07:23 PM	
20	-0.0466	-2.0672	10/16/2007@2:08:34 PM	-
17	0.5239	19.7407	10/16/2007@2:09:45 PM	
	0.5			
18	0.004	-0.1355	10/16/2007@2:15:43 PM	
	0			
14	-0.0381	-1.7441	10/16/2007@2:21:40 PM	-
20	-0.0444	-1.9854	10/16/2007@2:22:51 PM	
21	7.3981	27.9945	10/16/2007@2:24:03 PM	10.0000
22	9.7908	37.1415	10/16/2007@2:25:14 PM	10.0000
23	12.8715	48.9184	10/16/2007@2:26:26 PM	10.0000
24	12.8734	4 8.9258	10/16/2007@2:27:38 PM	10.0000
25	2.3402	8.6587	10/16/2007@2:28:48 PM	10.0000
26	6.1293	23.1439	10/16/2007@2:30:01 PM	10.0000
27	0.8884	3.1087	10/16/2007@2:31:13 PM	10.0000
2 8	15.8127	60.1622	10/16/2007@2:32:25 PM	10.0000
17	0.5193	19.5664	10/16/2007@2:33:37 PM	
	0.5			
18	0.0110	0.1322	10/16/2007@2:39:33 PM	-
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	-	-	-
29	9.9800	37.8645	10/16/2007@2:45:41 PM	10.0000
4	1.0141	38.4799	10/16/2007@2:47:08 PM	-
36	0.0096	0.0778	10/16/2007@2:48:20 PM	
	19 29 17 18 14 29 21 22 23 24 25 26 27 28 17 18	16 0.9044	16 0.9044 34.2861 0.5	16 0.9044 34.2861 10/16/2007@2:06:12 PM 0.5 19 0.1228 4.4062 10/16/2007@2:07:23 PM 20 -0.0466 -2.0672 10/16/2007@2:08:34 PM 17 0.5239 19.7407 10/16/2007@2:09:45 PM 0.5 18 0.004 -0.1355 10/16/2007@2:15:43 PM 0 14 -0.0381 -1.7441 10/16/2007@2:21:40 PM 20 -0.0444 -1.9854 10/16/2007@2:22:51 PM 21 7.3981 27.9945 10/16/2007@2:22:51 PM 22 9.7908 37.1415 10/16/2007@2:25:14 PM 23 42.8715 48.9184 10/16/2007@2:25:14 PM 24 42.8734 48.9258 10/16/2007@2:28:48 PM 25 2.3402 8.6587 10/16/2007@2:28:48 PM 26 6.1293 23.1439 10/16/2007@2:30:01 PM 27 0.8884 3.1087 10/16/2007@2:30:01 PM 28 45.8127 60.4622 10/16/2007@2:33:37 PM 0.5 18 0.0110 0.1322 10/16/2007@2:33:37 PM 0

% R = 99.40 0.25 ml * 1000 ppm / 10 ml

% R = 104.78

% R = 103.86

30	8.4585	32.0480	10/16/2007@2:49:31 PM	10.0000
31	-0.0591	-1.4174	10/16/2007@2:50:43 PM	2.0000
32	- 0.0672	-1. 5726	10/16/2007@2:51:55 PM	2.0000
33	12.9634	24.4912	10/16/2007@2:53:06 PM	20.0000
33	13.0139	24.5876	10/16/2007@2:54:18 PM	20.0000
34	13.1240	24.7980	10/16/2007@2:55:30 PM	20.0000
35	16.2626	12.1464	10/16/2007@2:56:41 PM	50.0000
17	0.5206	19.6151	10/16/2007@2:57:52 PM	
	0.5			
18	0.0092	0.0645	10/16/2007@3:03:50 PM	
	0			
36	9.9688	18.7671	10/16/2007@3:09:49 PM	20.0000
37	0.0343	-0.2219	10/16/2007@3:11:02 PM	20.0000
38	-0.0082	-0.3033	10/16/2007@3:12:14 PM	20.0000
39	0.0103	0.1057	10/16/2007@3:13:25 PM	
40	0.0066	-0.0367	10/16/2007@3:14:37 PM	
17	0.5112	19.2551	10/16/2007@3:20:34 PM	
Known Conc:				
18	0.0122	0.1777	10/16/2007@3:26:33 PM	-
Known Conc:		-	-	-
	34 32 33 34 35 17 18 36 37 38 39 40	34	34 -0.0591 -1.4174 32 -0.0672 -1.5726 33 12.9634 24.4912 33 13.0139 24.5876 34 13.1240 24.7980 35 16.2626 12.1464 17 0.5206 19.6151 0 0 36 9.9688 18.7671 37 0.0343 -0.2219 38 -0.0082 -0.3033 39 0.0103 0.1057 40 0.0066 -0.0367 17 0.5112 19.2551 0.5 18 0.0122 0.1777	34

% RPD = 0.39

% R = 104.12

% R = 102.24





ANALYST NOTES

neter: NH3	Client Project:	
Samples not run Duy was non but	with Sull QC due to limited not enough sample for a spike,	volviue,
	,	
alyst:	Date Analyzed: <i>[[]</i>	h. h.A





ANALYST NOTES

Client Name:
Client Project:
Tech unuable to extration rate G - very limited ie of highly tarbid es - no salpide detected ytions used to reduce life but could not erentiate from buckground
y received from - Samples were - Samples were - Grand rainne - Algorite -
Date Analyzed: