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LETTER OF TRANSMITTAL

Date:	January 29, 2014	Project No:	C1165-0501
To:	Erica Bergman, NJDEP		
From:	Phil Goodrum, Integral		
Re:	Woodbury PWS Sampling, Data Report		

The following is enclosed: ☐ for your use ☐ for your files ☒ per your request

Quantity	Item
3	**Data Report - Woodbury PWS Sampling on December 12, 2013**
3	**CD, including:** - **Data Report** - **Eurofins Laboratory Reports** - **TestAmerica Laboratory Reports** - **EDDs**

Remarks:

Sent via:

☐ U.S. Mail
☐ Fax
☐ Other
☒ Federal Express
☐ Courier

cc: Mitch Gertz, Solvay Specialty Polymers USA, LLC

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC
402 Heron Drive
Logan Township, New Jersey 08085 TEL 856-423-8800 FAX 856-241-4670

January 29, 2014

Erica Bergman
NJDEP - Bureau of Case Management
401 E. State Street - Mail Code 401-05
P.O. Box 420
Trenton, New Jersey 08625-0420

Re: Woodbury Public Water Supply (PWS) Sampling Results (NJ 0822001)
Solvay West Deptford Plant
10 Leonard Lane
West Deptford, New Jersey 08086-2150

Dear Ms. Bergman:

As the Licensed Site Remediation Professional (LSRP) retained by Solvay Specialty Polymers USA, LLC (Solvay), I have reviewed the enclosed sampling results for perfluorinated compounds (PFCs) from the Woodbury PWS wells and I am submitting them on behalf of Solvay. Enclosed are three copies of the data in New Jersey Department of Environmental Protection (NJDEP) electronic data delivery (EDD) format and a summary report for your internal distribution. These EDDs were verified by Solvay to be complete and free of errors with NJDEP's online tool, Electronic Data Submittal Applications (EDSA7) version 7.1.5.

The report includes a description of the wells that were sampled, a figure illustrating where samples were collected within the distribution system, and a table summarizing the laboratory results. In addition, the report includes a table that summarizes some of the current state and federal interim drinking water guidelines for PFCs. While these guidelines are non-binding at this time, they may provide Westville PWS with a helpful perspective to facilitate communication of findings to the community.

As noted in the PFC work plan that I submitted to you on November 15, 2013, Solvay is coordinating with seven municipalities within a five mile radius to sample well water for PFCs: West Deptford, Paulsboro, Westville, Woodbury East Greenwich, National Park, and Greenwich. The enclosures constitute the fourth of seven PWS data reports. A similar report is being submitted today for Westville and previous submissions have been made for West Deptford and Paulsboro.

Solvay has adopted a rigorous quality assurance protocol for sampling, chain of custody documentation, analysis, and reporting of results. Each PWS sampling event includes field duplicates, laboratory quality control samples, and data validation conducted by a third party independent validator. In addition, 10-20 percent of the samples across all sampling events have been selected for split sample analysis at a second New Jersey-

certified laboratory to assess inter-laboratory variability in analytical results. Split sample results will be included in the data reports for sampling at West Deptford, East Greenwich, and Greenwich. Samples collected at Woodbury are not among the subset of samples that were randomly selected. Please feel free to contact Mitch Gertz with any questions.

Sincerely,
ROUX ASSOCIATES, INC.

Thomas R. Buggey, LSRP #580659
Principal Hydrogeologist

cc: Mitch Gertz, Solvay Specialty Polymers
Phil Goodrum, Integral Consulting Inc.

Enclosures

DATA REPORT

Woodbury PWS
Sampling on December 12, 2013

Prepared for
Solvay Specialty Polymers USA, LLC
10 Leonard Lane
West Deptford, NJ 08086

Prepared by

integral consulting inc.
200 Harry S. Truman Parkway
Suite 330
Annapolis, MD 21401

January 27, 2014

On December 12, 2013, Integral Consulting Inc., consultant to Solvay Specialty Polymers USA, LLC (Solvay), collected water samples from the three water supply wells maintained by the Woodbury public water system (PWS). The samples were submitted to Eurofins Eaton Analytical, Inc. (Monrovia, CA), a New Jersey-certified analytical testing laboratory for analysis of perfluorinated compounds (PFCs). In addition, split samples were submitted to TestAmerica Laboratories, Inc. (Edison, NJ), also a New Jersey-certified analytical laboratory, for analysis of conventional parameters.

Figure 1 illustrates where samples were collected within the Woodbury PWS treatment system. Based on our understanding of Woodbury PWS operations, Wells #7, #8, and #9 were all active during the sampling event on December 12. Both raw and treated water was sampled from all wells. Results from individual wells do not directly reflect the finished water that is distributed to the community because the finished water is a blend of sources. Woodbury PWS, by state requirement, obtains at least 13 percent of its blended water from the New Jersey American Water Company. In addition, Woodbury PWS blends treated water from the three active wells. The best indicator of drinking water is from the tap at the PWS office from which a water sample was additionally obtained.

Table 1 summarizes the concentrations of PFCs measured in each raw and treated water sample. The same are also provided in electronic files, using the electronic data delivery (EDD) format specified by New Jersey Department of Environmental Protection (NJDEP). These EDDs were verified by Solvay to be complete and free of errors with NJDEP's online tool, Electronic Data Submittal Applications (EDSA7) version 7.1.5, available online at www.state.nj.us/dep/srp/hazsite/software/edsa/. All of the laboratory results were validated by Laboratory Data Consultants, Inc. (Carlsbad, CA), an independent third party validator.

PFCs are currently unregulated in drinking water. Table 2 summarizes a range of non-binding drinking water guidelines for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) available from U.S. Environmental Protection Agency, New Jersey, North Carolina, and Minnesota. For this sampling event at Woodbury PWS, concentrations in all samples were below the New Jersey drinking water guidelines for PFOA (i.e., 40 parts per trillion or ppt) and PFOS (i.e., 20 ppt). Concentration ranges are 4.8–11 ppt for PFOA and 0.51–4.6 ppt for PFOS.

One PFC was detected for which drinking water guidelines have not been established. Perfluorononanoic acid (PFNA) was detected in samples from all three wells and the office tap. At Well #7, PFNA was measured in both raw water (50 ppt) and treated water (45 ppt). At Well #8, PFNA was measured in the parent and field duplicate in raw water (13 and 12 ppt) and in treated water (13 ppt). At Well #9, PFNA was only detected in treated water (0.68 ppt). At the PWS office tap, PFNA was measured in the parent and field duplicate (0.54 and 0.47 ppt).

Table 1. PFC Concentrations from Samples Collected December 12, 2013 at the Woodbury PWS [a]

	Well #7		Well #9		Well #8			PWS Office Tap	
Chemical Name	RW	TW	RW	TW	RW	RW-Dup	TW	DW	DW-Dup
PFOA	11	9.5	--	--	4.9	4.8	5.5	--	--
PFOS	4.5	4.6	--	0.67 J	2.8	2.3 J	3.1	0.51 J	0.61 J
PFNA	50	45	--	0.68 J	13	12	13	0.54 J	0.47 J
PFDA	--	--	--	--	--	--	--	--	--
PFUnA	--	--	--	--	--	--	--	--	--
PFDoDA	--	--	--	--	--	--	--	--	--
PFTriA	--	--	--	--	--	--	--	--	--

Notes:

DW = drinking water sample collected from the system after mixing of treated water from multiple wells and/or supplemental water

DW-Dup = field duplicate of drinking water sample

PFC = perfluorinated compound

PWS = public water system

RW = raw water sample collected from well (prior to treatment)

RW-Dup = field duplicate of raw water sample

TW = sample collected from well after treatment but before mixing with water from other wells or supplemental water

-- = anlayte was not detected at the calculated method detection limit

J = result was detected at or greater than the method detection limit and less than method reporting limit

[a] Units for all results are parts per trillion (ppt), equivalent to nanograms per liter (ng/L) or $1x10^{-9}$ grams per liter.

Table 2. Federal and State PFC Guidelines for Drinking Water

	Chemical Name [a]						
Agency	PFOA	PFOS	PFNA	PFDA	PFUnA	PFDoDA	PFTriA
U.S. Environmental Protection Agency [b]	400	200	--	--	--	--	--
North Carolina Department of Environmental and Natural Resources [c]	200	--	--	--	--	--	--
New Jersey Department of Environmental Protection [d]	40	20	--	--	--	--	--
Minnesota Department of Health [e]	300	300	--	--	--	--	--

Sources:

USEPA. 2009. Provisional Health advisories for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). Available at: http://water.epa.gov/action/advisories/drinking/upload/2009_01_15_criteria_drinking_pha-PFOA_PFOS.pdf. U.S. Environmental Protection Agency. 5 pp. January 8.

NJDEP. 2007. Determination of perfluorooctanoic acid (PFOA) in aqueous samples. Final Report. New Jersey Department of Environmental Protection, Division of Water Supply, Bureau of Safe Drinking Water, Trenton, NJ. 17 pp. January.

NCDENR. 2013. Appendix #1: Interim maximum allowable concentrations (IMACs). pp. 23-24. In: North Carolina Administrative Code Title 15A - Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina. Last amended April 1. Available at: http://portal.ncdenr.org/web/wq/ps/csu/gwstandards. North Carolina Department of Environmental and Natural Resources, Division of Water Quality, Raleigh, NC. 31 pp.

MDH. 2013. Health guidelines for perfluorochemicals (PFCs) in drinking water. www.health.state.mn.us/divs/eh/hazardous/topics/pfcs/drinkingwater.html. Minnesota Department of Health, Environmental Health Division, St. Paul, MN.

Notes:

PFC = perfluorinated compound

-- = provisional guidelines are not available for drinking water

[a] Units for all results are parts per trillion (ppt).

[b] USEPA (2009) provisional drinking water advisory for short-term exposure.

[c] NCDENR (2013) recommended interim maximum allowable concentration (IMAC) in drinking water, effective date December 6, 2006.

[d] NJDEP (2007) health-based guidance value intended to protect for chronic (lifetime) exposure.

[e] MDH (2011) health risk limit (HRL) in drinking water for chronic exposure.

Eurofins Laboratory Reports

- LDC Validation Report – Westville, Woodbury, West Deptford Blended (461445)
- Eurofins Laboratory Report (461445 12/31/2013)
- Eurofins Laboratory Report (LCMS 12/20/2013)
- Eurofins Laboratory Report (LCMS 12/20/2013 Additional Pages)
- Eurofins Laboratory Report (LCMS 12/26/2013)

***All Eurofins Laboratory Reports include documentation for both Westville and Woodbury. Printed reports can be found in the Westville PWS Data Report

TestAmerica Laboratory Reports

- LDC Validation Report – Westville, Woodbury, West Deptford Blended (460-68260-1)
- TestAmerica Laboratory Report (J68260-1)
- LDC Validation Report – Woodbury, West Deptford Blended (460-68263-1)
- TestAmerica Laboratory Report (J68263-1)

***LDC Validation Report (460-68260-1) and TestAmerica Laboratory Report (J68260-1) include documentation for both Westville and Woodbury. Printed reports can be found in the Westville PWS Data Report

LDC Validation Report

– Woodbury, West Deptford Blended (460-68263-1)

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Integral Consulting Inc.
1205 West Bay Drive NW
Olympia, WA 98502
ATTN: Mr. Craig Hutchings

January 15, 2014

SUBJECT: PFCs, Project #C1165, Data Validation

Dear Mr. Hutchings,

Enclosed is the final validation report for the fraction listed below. This SDG was received January 8, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 31127:

SDG#	Fraction
460-68263-1	Wet Chemistry

The data validation was performed under Stage 2B & 4 guidelines. The laboratory data packages were correct and complete with the exception of the nitrate/nitrite results flagged "H" by the laboratory for holding time exceedance. It was noted on the data validation report that the 28-day analysis holding time criteria were met. 100% verification was performed on the sample results in the Electronic Data Deliverable against hardcopy results and no discrepancies were found.

The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, QAPP, dated November 15, 2013
- TestAmerica SOP
  4500 H+B for pH
  2320B for Alkalinity
  2340C for Hardness
  5310B for Total Organic Carbon
  353.2 for Nitrate/Nitrite as Nitrogen
  2540 D for Total Suspended Solids
  4500 NH3-H for Ammonia as Nitrogen
  4500 P E for Orthophosphate as Phosphorus
  300.0 for Bromide, Chloride, Fluoride, and Sulfate
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010

Legally Privileged & Confidential

Please feel free to contact us if you have any questions.

Sincerely,

Stella Cuenco
Operations Manager/Senior Chemist

475 pages-SF 1 WEEK TAT

Attachment 1

EDD

LDC #31127 (Integral Consulting, Inc.-Olympia, WA / PFCs, Project #C1165)

LDC	SDG#	DATE REC'D	(3) DATE DUE	Alk. (2320B)		NH_3-N (4500 NH3 H)		Br,Cl F,SO_4 (300.0)		NO_3/ NO_2-N (300.0)		Hard. (2340C)		O-PO_4 (4500 P E)		pH (4500 H+B)		TSS (2540D)		TOC (5310B)													
Matrix:	Water/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	460-68263-1	01/08/14	01/15/14	10	0	10	0	10	0	10	0	10	0	10	0	10	0	10	0	10	0												
A	460-68263-1	01/08/14	01/15/14	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0												
Total	T/SC			11	0	11	0	11	0	11	0	11	0	11	0	11	0	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	99

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

31127ST.wpd

LDC Report# 31127A6

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: PFCs, Project#C1165

LDC Report Date: January 9, 2014

Matrix: Water

Parameters: Wet Chemistry

Validation Level: Stage 2B & 4

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 460-68263-1

Sample Identification	Collection Date	Laboratory Sample Identification
GW0016	12/12/13	460-68263-1
GW0017	12/12/13	460-68263-2
GW0018	12/12/13	460-68263-3
GW0019	12/12/13	460-68263-4
GW0020	12/12/13	460-68263-5
GW0021	12/12/13	460-68263-6
GW0022**	12/12/13	460-68263-7**
GW0023	12/12/13	460-68263-8
GW0024	12/12/13	460-68263-9
GW0025	12/12/13	460-68263-10
GW0026	12/12/13	460-68263-11
GW0016MS	12/12/13	460-68263-1MS
GW0016MSD	12/12/13	460-68263-1MSD
GW0016DUP	12/12/13	460-68263-1DUP
GW0018MS	12/12/13	460-68263-3MS
GW0018MSD	12/12/13	460-68263-3MSD
GW0020MS	12/12/13	460-68263-5MS
GW0022MS	12/12/13	460-68263-7MS
GW0022MSD	12/12/13	460-68263-7MSD
GW0023MS	12/12/13	460-68263-8MS
GW0023MSD	12/12/13	460-68263-8MSD
GW0024MS	12/12/13	460-68263-9MS
GW0024MSD	12/12/13	460-68263-9MSD
GW0026DUP	12/12/13	460-68263-11DUP

**Indicates sample underwent Stage 4 review

Introduction

This data review covers 24 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Standard Method 2320B for Alkalinity, Standard Method 4500 NH3-H for Ammonia as Nitrogen, EPA Method 300.0 for Bromide, Chloride, Fluoride, and Sulfate, EPA Method 353.2 for Nitrate/Nitrite as Nitrogen, Standard Method 2340C for Hardness, Standard Method 4500 P E for Orthophosphate as Phosphorus, Standard Method 4500 H+B for pH, Standard Method 2540D for Total Suspended Solids, and Standard Method 5310B for Total Organic Carbon.

This review follows the Site Specific Quality Assurance Project Plan (QAPP) dated November 15, 2013 and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Samples indicated by a double asterisk on the front cover underwent a Stage 4 review. A Stage 2B review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Stage 2B criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J+ Data are qualified as estimated, with a high bias likely to occur.

J- Data are qualified as estimated, with a low bias likely to occur.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

Qualification Codes

1 Holding Times
2 Sample Preservation (Cooler Temp)
3 Sample Custody
4 Missing Deliverables
5 Calibration
6 Field Blanks
7 Laboratory Blanks
8 Matrix Spike (%)
9 Matrix Spike Duplicate (RPD or Duplicate Sample Analysis)
10 Laboratory Control Sample
11 ICP Interference Check
12 RPD Between Two Columns
13 Surrogates
14 Field Duplicates
15 Peak Resolution
16 ICP Serial Dilution
17 Chemical Recoveries
18 Trip Blanks
19 Internal Standards
20 Linear Range Exceeded
21 Potential False Positives
22 Do not use, other result more technically sound
23 Estimated Maximum Possible Concentration
24 Less than reporting limit
25 Other

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
GW0016 GW0017 GW0018 GW0019 GW0020 GW0021 GW0022** GW0023 GW0024 GW0025 GW0026 GW0016DUP	pH	12 days	48 hours	J- (all detects) UJ (all non-detects)	P

The laboratory flagged the nitrate/nitrite results as "H" for holding time exceedance however, no data were qualified since the 28-day analysis holding time criteria were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Concentration	Associated Samples
ICB/CCB	Alkalinity Bicarbonate alkalinity Carbonate alkalinity	2.00 mg/L 1.48 mg/L 0.950 mg/L	GW0019 GW0021 GW0022** GW0023 GW0024 GW0025 GW0026

Sample concentrations were compared to concentrations detected in the blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QAPP limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QAPP limits.

VIII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Stage 4 review was performed. Raw data were not evaluated for the samples reviewed by Stage 2B criteria.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples GW0021 and GW0022** and samples GW0016 and GW0015 (from SDG 460-68260-1) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD (Limits)
	GW0021	GW0022**	
Chloride	44.0 mg/L	43.9 mg/L	0 (≤35)
Fluoride	1.2 mg/L	1.1 mg/L	9 (≤35)
Sulfate	8.2 mg/L	8.2 mg/L	0 (≤35)
Nitrate/Nitrite as N	0.35 mg/L	0.37 mg/L	6 (≤35)

Analyte	Concentration		RPD (Limits)
	GW0021	GW0022**	
Ammonia as N	0.11 mg/L	0.19 mg/L	53 (≤35)
Bicarbonate Alkalinity	121 mg/L	121 mg/L	0 (≤35)
Alkalinity	121 mg/L	121 mg/L	0 (≤35)
Hardness	54.0 mg/L	52.0 mg/L	4 (≤35)
TSS	2.2U mg/L	2.2 mg/L	200 (≤35)
pH	8.20 units	8.24 units	0 (≤35)
Orthophosphate as P	0.15 mg/L	0.14 mg/L	7 (≤35)
TOC	1.1 mg/L	1.1 mg/L	0 (≤35)

Analyte	Concentration		RPD (Limits)
	GW0015	GW0016	
Chloride	21.2 mg/L	21.2 mg/L	0 (≤35)
Fluoride	0.31 mg/L	0.32 mg/L	3 (≤35)
Sulfate	29.1 mg/L	29.7 mg/L	2 (≤35)
Ammonia as N	0.34 mg/L	0.23 mg/L	39 (≤35)
TSS	1.2U mg/L	1.4 mg/L	200 (≤35)
Bicarbonate Alkalinity	131 mg/L	161 mg/L	21 (≤35)
Alkalinity	131 mg/L	161 mg/L	21 (≤35)
Hardness	134 mg/L	122 mg/L	9 (≤35)
pH	8.05 units	8.14 units	1 (≤35)
Orthophosphate as P	0.24 mg/L	0.24 mg/L	0 (≤35)
TOC	1.5 mg/L	1.3 mg/L	14 (≤35)

PFCs, Project#C1165
Wet Chemistry - Data Qualification Summary - SDG 460-68263-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
460-68263-1	GW0016 GW0017 GW0018 GW0019 GW0020 GW0021 GW0022** GW0023 GW0024 GW0025 GW0026	pH	J- (all detects) UJ (all non-detects)	P	Technical holding time (1)

PFCs, Project#C1165
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 460-68263-1

No Sample Data Qualified in this SDG

PFCs, Project#C1165
Wet Chemistry - Field Blank Data Qualification Summary - SDG 460-68263-1

No Sample Data Qualified in this SDG

LDC #: 31127A6

SDG #: 460-68263-1

Laboratory: Test America, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 1/8/14

Page: 1 of 1

Reviewer: CL

2nd Reviewer: [illegible]

METHOD: (Analyte) Alkalinity (SM2320B), Ammonia-N (SM4500 NH3-H), Bromide, Chloride, Fluoride, Sulfate (EPA Method 300.0), Nitrate/Nitrite-N (EPA Method 353.2), Hardness (SM2340C), Orthophosphate (SM4500 P E), pH (SM4500 H+B), TSS (SM2540D), TOC (SM5310B) P

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/12/13
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	SW	
V	Matrix Spike/Matrix Spike Duplicates	A	MS/D
VI.	Duplicates	A	DP
VII.	Laboratory control samples	SW	LCS
VIII.	Sample result verification	A	Not reviewed for Level III validation.
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(6,7) (1, GW0015 (SDG: 460-68260-1))
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

water

1	GW0016	11	GW0026	21	GW0023MSD	31	
2	GW0017	12	GW0016MS	22	GW0024MS	32	
3	GW0018	13	GW0016MSD	23	GW0024MSD	33	
4	GW0019	14	GW0016DUP	24	GW0026DUP	34	
5	GW0020	15	GW0018MS	25		35	
6	GW0021	16	GW0018MSD	26		36	
7	GW0022**	17	GW0020MS	27		37	
8	GW0023	18	GW0022MS	28		38	
9	GW0024	19	GW0022MSD	29		39	
10	GW0025	20	GW0023MS	30		40	

Notes:

Privileged and Confidential

LDC #: 31127AG

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.		✓		
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)	✓			
Were balance checks performed as required? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

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LDC #: 31127A6

VALIDATION FINDINGS CHECKLIST

Reviewer: 2nd
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

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LDC #: 31127A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: pl

All circled methods are applicable to each sample.

Sample ID	Parameter
H11	pH TDS Cl F NO_3/NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 Br Hardness TSS
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
QC 12	pH TDS Cl F NO_3/NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
13	pH TDS Cl F NO_3/NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
14	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
15	pH TDS Cl F NO_3/NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
16	pH TDS Cl F NO_3/NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
17	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
18	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 Br
19	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 Br
20	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
21	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
22	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
23	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
24	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 Hardness
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments:

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LDC #: 311 C/PC

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: OR
2nd reviewer: A

All circled dates have exceeded the technical holding time.
Y N N/A Were all samples preserved as applicable to each method ?
Y N N/A Were all cooler temperatures within validation criteria?

Method:		SM4500HB					
Parameters:		pH					
Technical holding time:		48 hrs					
Sample ID	**Sampling date**	**Analysis date**	**Analysis date**	**Analysis date**	**Analysis date**	**Analysis date**	**Qualifier**
1-11,14	12/12/13	12/24/13	(12 days)				J/UJ/P
Nitrate/Nitrite-N results were within the 28 day holding time							
criteria.		Text					

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LDC #: 31127A6

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See Cover

Conc. units: mg/L **Associated Samples:** 4, 6-11

Analyte	Blank ID	Blank ID	Blank Action Limit										
	PB	ICB/CCB (mg/L)		No Qualifiers (<RL)									
Alkalinity	2.00												
Bicarbonate Alkalinity	1.48												
Carbonate Alkalinity	0.950												

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

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LDC #: 31127A6

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: CL
2nd Reviewer: [illegible]

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a laboratory control sample (LCS) analyzed for each matrix in this SDG?

Y N N/A Were all LCS percent recoveries (%R) within the control limits of 80-120% (85-115% for Method 300.0)?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	LCS ID	Matrix	Analyte	%R (limits)	Associated Samples	Qualifications
		LCS 480-157769/S1		Br	82 (90-110)	None	No Qual
				Cl	86 ↓	↓	↓

Comments:

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LDC: 31127A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

Method: Inorganics (see cover)

Analyte	Concentration (mg/L)		RPD (≤ 35)
	6	7	
Chloride	44.0	43.9	0
Fluoride	1.2	1.1	9
Sulfate	8.2	8.2	0
Nitrate/Nitrite as N	0.35	0.37	6
Ammonia as N	0.11	0.19	53
Bicarbonate Alkalinity	121	121	0
Alkalinity	121	121	0
Hardness	54.0	52.0	4
TSS	2.2U	2.2	200
pH (units)	8.20	8.24	0
Orthophosphate as P	0.15	0.14	7
TOC	1.1	1.1	0

Analyte	Concentration (mg/L)		RPD (≤ 35)
	GW0015	GW0016	
Chloride	21.2	21.2	0
Fluoride	0.31	0.32	3
Sulfate	29.1	29.7	2
Ammonia as N	0.34	0.23	39
TSS	1.2U	1.4	200
Bicarbonate Alkalinity	131	161	21
Alkalinity	131	161	21
Hardness	134	122	9
pH (units)	8.05	8.14	1
Orthophosphate as P	0.24	0.24	0
TOC	1.5	1.3	14

LDC #: 31127A6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of NO_3/NO_2-N was recalculated. Calibration date: 12/13/13

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/L)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	NO_3/NO_2-N	s1	0.0	47299	0.9998	0.9998	Y
		s2	0.1	952448			
		s3	0.5	4172768			
		s4	1	8589011			
		s5	1.5	12613370			
		s6	2	16526279			
Calibration verification	↓	CCV	1	0.9473	95	95	
Calibration verification	OPO4	↓	0.1	0.109	102	102	
Calibration verification	TOC	↓	50	54.39	109	109	↓

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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LDC #: 31127AE

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: QR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method seecover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	NH_3N	0.998	1	100	100	Y
18	Matrix spike sample	Br	(SSR-SR) 2.49	2.5	100	100	
24	Duplicate sample	Hardness	84	84	0	0	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

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LDC #: 31122A6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: CR
2nd reviewer: [illegible]

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for SO4 reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$cy = 13571x + 1327$

Recalculation:

$\frac{112930 - 1327}{13571} = 8.224$ mg/L

#	Sample ID	Analyte	Reported Concentration mg/L	Calculated Concentration (mg/L)	Acceptable (Y/N)
	7	Cl	43.9	43.9	Y
		F	1.1	1.1	
		SO4	8.2	8.2	
		NO3/NO2N	0.37	0.37	
		NH3N	0.19	0.19	
		Alk	121	121	
		Hardness	52.0	52.0	
		pH (units)	8.24	8.24	
		OPO4-P	0.14	0.14	
		TOC	1.1	1.1	

Note:

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TestAmerica Laboratory Report

– J68263-1

ANALYTICAL REPORT

Job Number: 460-68263-1

Job Description: Solvay

For:
Integral Consulting Inc
1205 W Bay Drive NW
Olympia, WA 98502

Attention: Craig Hutchings

Approved for release.
Shalini Isaac
Project Management Assistant II
1/6/2014 1:01 PM

Designee for
Thomas Tanico, Project Manager II
777 New Durham Road, Edison, NJ, 08817
(732)593-2555
thomas.tanico@testamericainc.com
01/06/2014

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CASE NARRATIVE

Client: Integral Consulting Inc

Project: Solvay

Report Number: 460-68263-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/13/2013 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1º C and 4.1º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

ALKALINITY
Samples 460-68263-1 through 460-68263-11 were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 12/26/2013.

Alkalinity failed the recovery criteria low for the MS of sample 480-52359-3 in batch .

Refer to the QC report for details.

No other difficulties were encountered during the alkalinity analyses.

All other quality control parameters were within the acceptance limits.

HARDNESS
Samples 460-68263-1 through 460-68263-11 were analyzed for hardness in accordance with SM 2340C. The samples were analyzed on 12/26/2013.

No difficulties were encountered during the hardness analyses.

All quality control parameters were within the acceptance limits.

TOTAL SUSPENDED SOLIDS
Samples 460-68263-1 through 460-68263-11 were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 12/17/2013 and 12/18/2013.

The matrix duplicate %RPD for Total Suspended Solids associated with batch 198189 was outside the control limits .

Insufficient sample volume was provided to produce results within the specifications of SM 2540D which requires at least 2.5 mg dried residue with a sample volume not to exceed 1L. A sample volume less than 1L, that yielded less than 2.5 mg dried residue, was provided for the following sample(s): GW0021 (460-68263-6), GW0022 (460-68263-7), GW0023 (460-68263-8), GW0024 (460-68263-9), GW0025 (460-68263-10), GW0026 (460-68263-11).

The matrix duplicate %RPD fo rTotal Suspened Solids associated with batch 198448 was outside the control limits.

Total Suspended Solids exceeded the rpd limit for the duplicate of sample 460-68392-5. Total Suspended Solids exceeded the rpd limit for the duplicate of sample 460-68392-6.

Refer to the QC report for details.

No other difficulties were encountered during the TSS analyses.

All other quality control parameters were within the acceptance limits.

ANIONS
Samples 460-68263-1 through 460-68263-11 were analyzed for anions in accordance with EPA Method 300.0_28D Anions by Ion Chromatograph. The samples were analyzed on 12/16/2013 and 12/17/2013.

Bromide and Chloride were detected in method blank MB 480-157769/52 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Refer to the QC report for details.

No other difficulties were encountered during the anions analyses.

All other quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Samples 460-68263-1 through 460-68263-11 were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 01/02/2014 and 12/31/2013.

The following sample was analyzed outside of analytical holding time due to issues with Lachat instrumentation: GW0018 (460-68263-3), GW0019 (460-68263-4), GW0020 (460-68263-5), GW0021 (460-68263-6), GW0022 (460-68263-7), GW0023 (460-68263-8), GW0024 (460-68263-9), GW0025 (460-68263-10), GW0026 (460-68263-11).

No other difficulties were encountered during the nitrate-nitrite analyses.

All quality control parameters were within the acceptance limits.

ORTHOPHOSPHATE AS P
Samples 460-68263-1 through 460-68263-11 were analyzed for orthophosphate as P in accordance with SM 4500 P E. The samples were analyzed on 12/14/2013.

No difficulties were encountered during the orthophosphate analyses.

All quality control parameters were within the acceptance limits.

PH
Samples 460-68263-1 through 460-68263-11 were analyzed for pH in accordance with SM 4500 H+. The samples were analyzed on 12/24/2013.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: GW0016 (460-68263-1), GW0017 (460-68263-2), GW0018 (460-68263-3), GW0019 (460-68263-4), GW0020 (460-68263-5), GW0021 (460-68263-6), GW0022 (460-68263-7), GW0023 (460-68263-8), GW0024 (460-68263-9), GW0025 (460-68263-10), GW0026 (460-68263-11)

No other difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

AMMONIA
Samples 460-68263-1 through 460-68263-11 were analyzed for ammonia in accordance with SM 4500 NH3 H. The samples were prepared and analyzed on 12/23/2013 and 12/24/2013.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON
Samples 460-68263-1 through 460-68263-11 were analyzed for total organic carbon in accordance with SM 5310B. The samples were analyzed on 12/21/2013.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-68263-1	GW0016	Water	12/12/2013 1155	12/13/2013 0945
460-68263-2	GW0017	Water	12/12/2013 1220	12/13/2013 0945
460-68263-3	GW0018	Water	12/12/2013 1230	12/13/2013 0945
460-68263-4	GW0019	Water	12/12/2013 1255	12/13/2013 0945
460-68263-5	GW0020	Water	12/12/2013 1302	12/13/2013 0945
460-68263-6	GW0021	Water	12/12/2013 1318	12/13/2013 0945
460-68263-7	GW0022	Water	12/12/2013 1322	12/13/2013 0945
460-68263-8	GW0023	Water	12/12/2013 1344	12/13/2013 0945
460-68263-9	GW0024	Water	12/12/2013 1400	12/13/2013 0945
460-68263-10	GW0025	Water	12/12/2013 1422	12/13/2013 0945
460-68263-11	GW0026	Water	12/12/2013 1438	12/13/2013 0945

EXECUTIVE SUMMARY - Detections

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-68263-1	**GW0016**					
Chloride		21.2		0.50	mg/L	300.0
Fluoride		0.32		0.050	mg/L	300.0
Sulfate		29.7		2.0	mg/L	300.0
Ammonia (as N)		0.23		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		161		5.0	mg/L	SM 2320B
Alkalinity		161		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		122		5.0	mg/L	SM 2340C
Total Suspended Solids		1.4		1.1	mg/L	SM 2540D
pH		8.14	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.24		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.3		1.0	mg/L	SM 5310B
460-68263-2	**GW0017**					
Chloride		25.2		0.50	mg/L	300.0
Fluoride		0.17		0.050	mg/L	300.0
Sulfate		31.3		2.0	mg/L	300.0
Ammonia (as N)		0.35		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		189		5.0	mg/L	SM 2320B
Alkalinity		189		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		166		5.0	mg/L	SM 2340C
pH		8.02	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.29		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.6		1.0	mg/L	SM 5310B
460-68263-3	**GW0018**					
Chloride		28.0		0.50	mg/L	300.0
Fluoride		0.23		0.050	mg/L	300.0
Sulfate		35.6		2.0	mg/L	300.0
Bicarbonate Alkalinity as CaCO3		199		5.0	mg/L	SM 2320B
Alkalinity		199		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		164		5.0	mg/L	SM 2340C
pH		7.71	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.44		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.4		1.0	mg/L	SM 5310B

EXECUTIVE SUMMARY - Detections

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
460-68263-4	**GW0019**					
Chloride		43.5		0.50	mg/L	300.0
Fluoride		1.2		0.050	mg/L	300.0
Sulfate		8.1		2.0	mg/L	300.0
Nitrate Nitrite as N		0.36	H	0.10	mg/L	353.2
Ammonia (as N)		0.21		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		122		5.0	mg/L	SM 2320B
Alkalinity		122		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		56.0		5.0	mg/L	SM 2340C
pH		8.24	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.17		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.2		1.0	mg/L	SM 5310B
460-68263-5	**GW0020**					
Chloride		36.5		0.50	mg/L	300.0
Fluoride		1.1		0.050	mg/L	300.0
Sulfate		12.2		2.0	mg/L	300.0
Ammonia (as N)		0.13		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		134		5.0	mg/L	SM 2320B
Alkalinity		134		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		18.0		5.0	mg/L	SM 2340C
pH		8.19	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.20		0.030	mg/L	SM 4500 P E
Total Organic Carbon		0.54	J	1.0	mg/L	SM 5310B
460-68263-6	**GW0021**					
Chloride		44.0		0.50	mg/L	300.0
Fluoride		1.2		0.050	mg/L	300.0
Sulfate		8.2		2.0	mg/L	300.0
Nitrate Nitrite as N		0.35	H	0.10	mg/L	353.2
Ammonia (as N)		0.11		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		121		5.0	mg/L	SM 2320B
Alkalinity		121		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		54.0		5.0	mg/L	SM 2340C
pH		8.20	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.15		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.1		1.0	mg/L	SM 5310B

EXECUTIVE SUMMARY - Detections

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-68263-7	**GW0022**					
Chloride		43.9		0.50	mg/L	300.0
Fluoride		1.1		0.050	mg/L	300.0
Sulfate		8.2		2.0	mg/L	300.0
Nitrate Nitrite as N		0.37	H	0.10	mg/L	353.2
Ammonia (as N)		0.19		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		121		5.0	mg/L	SM 2320B
Alkalinity		121		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		52.0		5.0	mg/L	SM 2340C
Total Suspended Solids		2.2		2.2	mg/L	SM 2540D
pH		8.24	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.14		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.1		1.0	mg/L	SM 5310B
460-68263-8	**GW0023**					
Chloride		86.2		0.50	mg/L	300.0
Fluoride		1.4		0.050	mg/L	300.0
Sulfate		9.5		2.0	mg/L	300.0
Ammonia (as N)		0.19		0.10	mg/L	4500 NH3 H
Bicarbonate Alkalinity as CaCO3		120		5.0	mg/L	SM 2320B
Alkalinity		120		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		24.0		5.0	mg/L	SM 2340C
pH		8.22	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.20		0.030	mg/L	SM 4500 P E
Total Organic Carbon		0.61	J	1.0	mg/L	SM 5310B
460-68263-9	**GW0024**					
Chloride		48.6		0.50	mg/L	300.0
Fluoride		0.072		0.050	mg/L	300.0
Sulfate		15.0		2.0	mg/L	300.0
Nitrate Nitrite as N		0.89	H	0.10	mg/L	353.2
Bicarbonate Alkalinity as CaCO3		53.2		5.0	mg/L	SM 2320B
Alkalinity		53.2		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		104		5.0	mg/L	SM 2340C
pH		7.92	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.090		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.4		1.0	mg/L	SM 5310B

EXECUTIVE SUMMARY - Detections

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-68263-10	**GW0025**					
Chloride		46.8		0.50	mg/L	300.0
Fluoride		0.52		0.050	mg/L	300.0
Sulfate		21.7		2.0	mg/L	300.0
Nitrate Nitrite as N		0.56	H	0.10	mg/L	353.2
Bicarbonate Alkalinity as CaCO3		84.2		5.0	mg/L	SM 2320B
Alkalinity		84.2		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		86.0		5.0	mg/L	SM 2340C
pH		8.02	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.11		0.030	mg/L	SM 4500 P E
Total Organic Carbon		1.2		1.0	mg/L	SM 5310B
460-68263-11	**GW0026**					
Chloride		49.8		0.50	mg/L	300.0
Fluoride		0.63		0.050	mg/L	300.0
Sulfate		19.6		2.0	mg/L	300.0
Nitrate Nitrite as N		0.31	H	0.10	mg/L	353.2
Bicarbonate Alkalinity as CaCO3		95.3		5.0	mg/L	SM 2320B
Carbonate Alkalinity as CaCO3		1.1	J	5.0	mg/L	SM 2320B
Alkalinity		96.5		5.0	mg/L	SM 2320B
Hardness as calcium carbonate		84.0		5.0	mg/L	SM 2340C
pH		8.29	HF		SU	SM 4500 H+ B
Orthophosphate as P		0.19		0.030	mg/L	SM 4500 P E
Total Organic Carbon		0.85	J	1.0	mg/L	SM 5310B

METHOD SUMMARY

Client: Integral Consulting Inc

Job Number: 460-68263-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Nitrogen, Nitrate-Nitrite	TAL EDI	MCAWW 353.2	
Ammonia	TAL EDI	SM 4500 NH3 H	
Ammonia, Distillation	TAL EDI		SM SM 4500 NH3 B
Alkalinity	TAL EDI	SM SM 2320B	
Hardness, Total	TAL EDI	SM SM 2340C	
Solids, Total Suspended (TSS)	TAL EDI	SM SM 2540D	
pH	TAL EDI	SM SM 4500 H+ B	
Orthophosphate	TAL EDI	SM SM 4500 P E	
Organic Carbon, Total (TOC)	TAL EDI	SM SM 5310B	
Anions, Ion Chromatography	TAL BUF	MCAWW 300.0	
Alkalinity	TAL BUF	SM SM 2320B	

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

METHOD / ANALYST SUMMARY

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method	Analyst	Analyst ID
MCAWW 300.0	Clark, Kyra R	KRC
MCAWW 300.0	Cudney, Kevin A	KAC
MCAWW 353.2	Brown, Sarah E	SEB
SM 4500 NH3 H	Brown, Sarah E	SEB
SM SM 2320B	Cabanganan, Maria	MCC
SM SM 2320B	Nyznyk, Elizabeth G	EGN
SM SM 2340C	Afremova, Izabella	IAA
SM SM 2540D	Staib, Patricia L	PLS
SM SM 4500 H+ B	Hu, Youhao	YAH
SM SM 4500 P E	Kamenetskaya, Raisa	RAK
SM SM 5310B	Leye, Mamadou	MAL

General Chemistry

Client Sample ID: **GW0016**

Lab Sample ID: 460-68263-1

Client Matrix: Water

Date Sampled: 12/12/2013 1155

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2003						
Chloride	21.2		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2003						
Fluoride	0.32		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2003						
Sulfate	29.7		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2152						
Nitrate Nitrite as N	0.047	U	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-201031	Analysis Date: 01/02/2014 1240						
Ammonia (as N)	0.23		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1709						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	161		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1411						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1411						
Alkalinity	161		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1411						
Hydroxide Alkalinity	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1411						
Hardness as calcium carbonate	122		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	1.4		mg/L	1.1	1.1	1.0	SM 2540D
Analysis Batch: 460-198189	Analysis Date: 12/17/2013 0717						
pH	8.14	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1517						
Orthophosphate as P	0.24		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.3		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1236						

General Chemistry

Client Sample ID: **GW0017**

Lab Sample ID: 460-68263-2

Client Matrix: Water

Date Sampled: 12/12/2013 1220

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2013						
Chloride	25.2		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2013						
Fluoride	0.17		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2013						
Sulfate	31.3		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2202						
Nitrate Nitrite as N	0.047	U	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-201031	Analysis Date: 01/02/2014 1241						
Ammonia (as N)	0.35		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1711						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	189		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1418						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1418						
Alkalinity	189		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1418						
Hydroxide Alkalinity	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1418						
Hardness as calcium carbonate	166		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	1.1	U	mg/L	1.1	1.1	1.0	SM 2540D
Analysis Batch: 460-198189	Analysis Date: 12/17/2013 0717						
pH	8.02	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1521						
Orthophosphate as P	0.29		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.6		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1340						

General Chemistry

Client Sample ID: **GW0018**

Lab Sample ID: 460-68263-3

Client Matrix: Water

Date Sampled: 12/12/2013 1230

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2024						
Chloride	28.0		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2024						
Fluoride	0.23		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2024						
Sulfate	35.6		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2212						
Nitrate Nitrite as N	0.047	U H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1417						
Ammonia (as N)	0.080	U	mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1712						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	199		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1424						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1424						
Alkalinity	199		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1424						
Hydroxide Alkalinity	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1424						
Hardness as calcium carbonate	164		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	1.0	U	mg/L	1.0	1.0	1.0	SM 2540D
Analysis Batch: 460-198189	Analysis Date: 12/17/2013 0717						
pH	7.71	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1523						
Orthophosphate as P	0.44		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.4		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1359						

General Chemistry

Client Sample ID: **GW0019**

Lab Sample ID: 460-68263-4

Client Matrix: Water

Date Sampled: 12/12/2013 1255

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2034						
Chloride	43.5		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2034						
Fluoride	1.2		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2034						
Sulfate	8.1		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2222						
Nitrate Nitrite as N	0.36	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1418						
Ammonia (as N)	0.21		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1718						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	122		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1645						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1645						
Alkalinity	122		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1645						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1645						
Hardness as calcium carbonate	56.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	1.0	U	mg/L	1.0	1.0	1.0	SM 2540D
Analysis Batch: 460-198189	Analysis Date: 12/17/2013 0717						
pH	8.24	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1525						
Orthophosphate as P	0.17		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.2		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1419						

General Chemistry

Client Sample ID: **GW0020**

Lab Sample ID: 460-68263-5

Client Matrix: Water

Date Sampled: 12/12/2013 1302

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2044						
Chloride	36.5		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2044						
Fluoride	1.1		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2044						
Sulfate	12.2		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2232						
Nitrate Nitrite as N	0.047	U H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1420						
Ammonia (as N)	0.13		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1719						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	134		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1432						
Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1432						
Alkalinity	134		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1432						
Hydroxide Alkalinity	5.0	U	mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 460-200246	Analysis Date: 12/26/2013 1432						
Hardness as calcium carbonate	18.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	1.1	U	mg/L	1.1	1.1	1.0	SM 2540D
Analysis Batch: 460-198189	Analysis Date: 12/17/2013 0717						
pH	8.19	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1528						
Orthophosphate as P	0.20		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	0.54	J	mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1439						

General Chemistry

Client Sample ID: **GW0021**

Lab Sample ID: 460-68263-6

Client Matrix: Water

Date Sampled: 12/12/2013 1318

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2054						
Chloride	44.0		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2054						
Fluoride	1.2		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2054						
Sulfate	8.2		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2313						
Nitrate Nitrite as N	0.35	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1421						
Ammonia (as N)	0.11		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1721						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	121		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1652						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1652						
Alkalinity	121		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1652						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1652						
Hardness as calcium carbonate	54.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.2	U	mg/L	2.2	2.2	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	8.20	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1530						
Orthophosphate as P	0.15		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.1		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1458						

General Chemistry

Client Sample ID: **GW0022**

Lab Sample ID: 460-68263-7

Client Matrix: Water

Date Sampled: 12/12/2013 1322

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2104						
Chloride	43.9		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2104						
Fluoride	1.1		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158039	Analysis Date: 12/17/2013 2104						
Sulfate	8.2		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2323						
Nitrate Nitrite as N	0.37	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1427						
Ammonia (as N)	0.19		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1722						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	121		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1658						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1658						
Alkalinity	121		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1658						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1658						
Hardness as calcium carbonate	52.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.2		mg/L	2.2	2.2	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	8.24	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1535						
Orthophosphate as P	0.14		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.1		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1600						

General Chemistry

Client Sample ID: **GW0023**

Lab Sample ID: 460-68263-8

Client Matrix: Water

Date Sampled: 12/12/2013 1344

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2215						
Chloride	86.2		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2215						
Fluoride	1.4		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2215						
Sulfate	9.5		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2333						
Nitrate Nitrite as N	0.047	U H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1428						
Ammonia (as N)	0.19		mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199611	Analysis Date: 12/23/2013 1705						
Prep Batch: 460-199450	Prep Date: 12/23/2013 0630						
Bicarbonate Alkalinity as CaCO3	120		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1704						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1704						
Alkalinity	120		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1704						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1704						
Hardness as calcium carbonate	24.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.1	U	mg/L	2.1	2.1	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	8.22	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1537						
Orthophosphate as P	0.20		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	0.61	J	mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1620						

General Chemistry

Client Sample ID: **GW0024**

Lab Sample ID: 460-68263-9

Client Matrix: Water

Date Sampled: 12/12/2013 1400

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2225						
Chloride	48.6		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2225						
Fluoride	0.072		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2225						
Sulfate	15.0		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2343						
Nitrate Nitrite as N	0.89	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1430						
Ammonia (as N)	0.080	U	mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199783	Analysis Date: 12/24/2013 1246						
Prep Batch: 460-199718	Prep Date: 12/24/2013 0630						
Bicarbonate Alkalinity as CaCO3	53.2		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1710						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1710						
Alkalinity	53.2		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1710						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1710						
Hardness as calcium carbonate	104		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.1	U	mg/L	2.1	2.1	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	7.92	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1539						
Orthophosphate as P	0.090		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.4		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1639						

General Chemistry

Client Sample ID: **GW0025**

Lab Sample ID: 460-68263-10

Client Matrix: Water

Date Sampled: 12/12/2013 1422

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2235						
Chloride	46.8		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2235						
Fluoride	0.52		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2235						
Sulfate	21.7		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/16/2013 2353						
Nitrate Nitrite as N	0.56	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1431						
Ammonia (as N)	0.080	U	mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199783	Analysis Date: 12/24/2013 1247						
Prep Batch: 460-199718	Prep Date: 12/24/2013 0630						
Bicarbonate Alkalinity as CaCO3	84.2		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1715						
Carbonate Alkalinity as CaCO3	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1715						
Alkalinity	84.2		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1715						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1715						
Hardness as calcium carbonate	86.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.2	U	mg/L	2.2	2.2	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	8.02	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1541						
Orthophosphate as P	0.11		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	1.2		mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1700						

General Chemistry

Client Sample ID: **GW0026**

Lab Sample ID: 460-68263-11

Client Matrix: Water

Date Sampled: 12/12/2013 1438

Date Received: 12/13/2013 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Bromide	0.073	U	mg/L	0.073	0.20	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2245						
Chloride	49.8		mg/L	0.28	0.50	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2245						
Fluoride	0.63		mg/L	0.0060	0.050	1.0	300.0
Analysis Batch: 480-158052	Analysis Date: 12/17/2013 2245						
Sulfate	19.6		mg/L	0.35	2.0	1.0	300.0
Analysis Batch: 480-157769	Analysis Date: 12/17/2013 0003						
Nitrate Nitrite as N	0.31	H	mg/L	0.047	0.10	1.0	353.2
Analysis Batch: 460-200863	Analysis Date: 12/31/2013 1433						
Ammonia (as N)	0.080	U	mg/L	0.080	0.10	1.0	4500 NH3 H
Analysis Batch: 460-199783	Analysis Date: 12/24/2013 1253						
Prep Batch: 460-199718	Prep Date: 12/24/2013 0630						
Bicarbonate Alkalinity as CaCO3	95.3		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1721						
Carbonate Alkalinity as CaCO3	1.1	J	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1721						
Alkalinity	96.5		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1721						
Hydroxide Alkalinity	0.79	U	mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-159583	Analysis Date: 12/26/2013 1721						
Hardness as calcium carbonate	84.0		mg/L	1.6	5.0	1.0	SM 2340C
Analysis Batch: 460-200035	Analysis Date: 12/26/2013 1100						
Total Suspended Solids	2.2	U	mg/L	2.2	2.2	1.0	SM 2540D
Analysis Batch: 460-198448	Analysis Date: 12/18/2013 0850						
pH	8.29	HF	SU			1.0	SM 4500 H+ B
Analysis Batch: 460-199830	Analysis Date: 12/24/2013 1544						
Orthophosphate as P	0.19		mg/L	0.010	0.030	1.0	SM 4500 P E
Analysis Batch: 460-197786	Analysis Date: 12/14/2013 1130						
Total Organic Carbon	0.85	J	mg/L	0.30	1.0	1.0	SM 5310B
Analysis Batch: 460-199349	Analysis Date: 12/21/2013 1719						

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 480-157769

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 480-157769/52	Analysis Batch:	480-157769	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121613-1_052.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/16/2013 2121	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bromide	0.073	U ^	0.073	0.20
Chloride	0.28	U ^	0.28	0.50
Fluoride	0.0060	U	0.0060	0.050
Sulfate	0.35	U	0.35	2.0

Lab Control Sample - Batch: 480-157769

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 480-157769/51	Analysis Batch:	480-157769	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121613-1_051.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/16/2013 2111	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	1.65	82	90 - 110	^ *
Chloride	20.0	17.23	86	90 - 110	^ *
Fluoride	2.00	1.80	90	90 - 110	
Sulfate	20.0	18.55	93	90 - 110	

Matrix Spike - Batch: 480-157769

Method: 300.0
Preparation: N/A

Lab Sample ID:	460-68263-5	Analysis Batch:	480-157769	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121613-1_060.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/16/2013 2242	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				1 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	12.2	25.0	37.63	102	90 - 110	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 480-158039

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 480-158039/4	Analysis Batch:	480-158039	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_015.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 1802	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bromide	0.073	U	0.073	0.20
Chloride	0.28	U	0.28	0.50
Fluoride	0.0060	U	0.0060	0.050
Sulfate	0.35	U	0.35	2.0

Lab Control Sample - Batch: 480-158039

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 480-158039/3	Analysis Batch:	480-158039	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_014.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 1752	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	1.92	96	90 - 110	
Chloride	20.0	19.93	100	90 - 110	
Fluoride	2.00	2.05	102	90 - 110	
Sulfate	20.0	20.02	100	90 - 110	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-158039

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	460-68263-7	Analysis Batch:	480-158039	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_034.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 2114			Final Weight/Volume:	
Prep Date:	N/A				1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-7	Analysis Batch:	480-158039	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_035.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 2124			Final Weight/Volume:	
Prep Date:	N/A				1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	100	102	90 - 110	3	20		
Chloride	94	94	90 - 110	0	20		
Fluoride	92	92	90 - 110	0	20		
Sulfate	97	98	90 - 110	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-158039

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	460-68263-7	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/17/2013 2114		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	460-68263-7
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/17/2013 2124
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	0.073	U	2.50	2.50	2.49	2.56
Chloride	43.9		25.0	25.0	67.34	67.51
Fluoride	1.1		2.50	2.50	3.45	3.45
Sulfate	8.1		25.0	25.0	32.29	32.50

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 480-158052

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 480-158052/28	Analysis Batch:	480-158052	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_039.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 2205	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bromide	0.073	U	0.073	0.20
Chloride	0.28	U	0.28	0.50
Fluoride	0.0060	U	0.0060	0.050
Sulfate	0.35	U	0.35	2.0

Lab Control Sample - Batch: 480-158052

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 480-158052/27	Analysis Batch:	480-158052	Instrument ID:	IC-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121713-1_038.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	12/17/2013 2155	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	1.87	94	90 - 110	
Chloride	20.0	19.85	99	90 - 110	
Fluoride	2.00	1.99	99	90 - 110	
Sulfate	20.0	19.91	100	90 - 110	

Client: Integral Consulting Inc

Job Number: 460-68263-1

LCS-Certified Reference Material - Batch: 460-197566

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCSSRM 460-197566/63	Analysis Batch:	460-197566	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131213A.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2013 1129	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	0.612	0.587	96.0	88.9 - 110.5	

LCS-Certified Reference Material - Batch: 460-197566

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCSSRM 460-197566/64	Analysis Batch:	460-197566	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131213A.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2013 1130	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.51	1.41	93.5	87.4 - 112.6	^
Nitrate Nitrite as N	1.51	1.41	93.5	85.4 - 109.9	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-200863

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 460-200863/9	Analysis Batch:	460-200863	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131231B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2013 1407	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	0.047	U	0.047	0.10

LCS-Certified Reference Material - Batch: 460-200863

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCSSRM 460-200863/10	Analysis Batch:	460-200863	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131231B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2013 1408	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	0.612	0.567	92.6	88.9 - 110.5	

LCS-Certified Reference Material - Batch: 460-200863

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCSSRM 460-200863/11	Analysis Batch:	460-200863	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131231B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2013 1410	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.51	1.33	88.0	87.4 - 112.6	
Nitrate Nitrite as N	1.51	1.33	88.0	85.4 - 109.9	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-200863

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	460-68263-3	Analysis Batch:	460-200863	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131231B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2013 1434			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-3	Analysis Batch:	460-200863	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N131231B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2013 1436			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as N	86	86	67 - 130	0	34		
Nitrate Nitrite as N	91	91	66 - 124	0	19		
Nitrite as N	92	92	84 - 109	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-200863

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	460-68263-3	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/31/2013 1434		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	460-68263-3
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/31/2013 1436
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate as N	0.047	U	0.500	0.500	0.432	0.432
Nitrate Nitrite as N	0.047	U	1.00	1.00	0.911	0.913
Nitrite as N	0.020	J	0.500	0.500	0.479	0.481

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-201031

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 460-201031/9	Analysis Batch:	460-201031	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N140102B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/02/2014 1231	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N	0.047	U	0.047	0.10

LCS-Certified Reference Material - Batch: 460-201031

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCSSRM 460-201031/11	Analysis Batch:	460-201031	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N140102B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/02/2014 1237	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.51	1.35	89.3	85.4 - 109.9	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-201031

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	460-68263-1	Analysis Batch:	460-201031	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N140102B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/02/2014 1246			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-1	Analysis Batch:	460-201031	Instrument ID:	Lachat1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N140102B.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/02/2014 1247			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate Nitrite as N	94	94	66 - 124	1	19		

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-201031

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	460-68263-1	Units:	mg/L	MSD Lab Sample ID:	460-68263-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/02/2014 1246			Analysis Date:	01/02/2014 1247
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	0.047	U	1.00	1.00	0.939	0.944

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-199450

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

Lab Sample ID:	MB 460-199450/1-A	Analysis Batch:	460-199611	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199450	Lab File ID:	A131223.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/23/2013 1702	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	12/23/2013 0630				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia (as N)	0.080	U	0.080	0.10

Lab Control Sample - Batch: 460-199450

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

Lab Sample ID:	LCS 460-199450/2-A	Analysis Batch:	460-199611	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199450	Lab File ID:	A131223.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/23/2013 1703	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	12/23/2013 0630				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	1.00	0.998	100	85 - 117	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199450

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

MS Lab Sample ID:	460-68263-8	Analysis Batch:	460-199611	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199450	Lab File ID:	A131223.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/23/2013 1706			Final Weight/Volume:	50.0 mL
Prep Date:	12/23/2013 0630				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-8	Analysis Batch:	460-199611	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199450	Lab File ID:	A131223.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/23/2013 1708			Final Weight/Volume:	50.0 mL
Prep Date:	12/23/2013 0630				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	101	101	60 - 147	0	16		

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199450

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

MS Lab Sample ID:	460-68263-8	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/23/2013 1706		
Prep Date:	12/23/2013 0630		
Leach Date:	N/A		

MSD Lab Sample ID:	460-68263-8
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/23/2013 1708
Prep Date:	12/23/2013 0630
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	0.19	1.00	1.00	1.21	1.21

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-199718

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

Lab Sample ID:	MB 460-199718/1-A	Analysis Batch:	460-199783	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199718	Lab File ID:	A131224.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/24/2013 1218	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	12/24/2013 0630				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia (as N)	0.080	U	0.080	0.10

Lab Control Sample - Batch: 460-199718

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

Lab Sample ID:	LCS 460-199718/2-A	Analysis Batch:	460-199783	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199718	Lab File ID:	A131224.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/24/2013 1219	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	12/24/2013 0630				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	1.00	0.989	99	85 - 117	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199718

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

MS Lab Sample ID:	460-68504-F-4-B MS	Analysis Batch:	460-199783	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199718	Lab File ID:	A131224.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/24/2013 1222			Final Weight/Volume:	50.0 mL
Prep Date:	12/24/2013 0630				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68504-F-4-C MSD	Analysis Batch:	460-199783	Instrument ID:	Lachat2
Client Matrix:	Water	Prep Batch:	460-199718	Lab File ID:	A131224.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	12/24/2013 1224			Final Weight/Volume:	50.0 mL
Prep Date:	12/24/2013 0630				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	63	75	60 - 147	4	16		

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199718

Method: 4500 NH3 H
Preparation: SM 4500 NH3 B

MS Lab Sample ID:	460-68504-F-4-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/24/2013 1222		
Prep Date:	12/24/2013 0630		
Leach Date:	N/A		

MSD Lab Sample ID:	460-68504-F-4-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/24/2013 1224
Prep Date:	12/24/2013 0630
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	2.6	1.00	1.00	3.23	3.35

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 480-159583

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 480-159583/6	Analysis Batch:	480-159583	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak122613b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/26/2013 1633	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bicarbonate Alkalinity as CaCO3	0.79	U	0.79	5.0
Carbonate Alkalinity as CaCO3	0.79	U	0.79	5.0
Alkalinity	0.79	U	0.79	5.0
Hydroxide Alkalinity	0.79	U	0.79	5.0

Lab Control Sample - Batch: 480-159583

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 480-159583/7	Analysis Batch:	480-159583	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak122613b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/26/2013 1639	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	100	97.07	97	90 - 110	

Matrix Spike - Batch: 480-159583

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	480-52359-I-3 MS	Analysis Batch:	480-159583	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak122613b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/26/2013 1800	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	221	100	258.1	37	42 - 116	F

Client: Integral Consulting Inc

Job Number: 460-68263-1

Duplicate - Batch: 480-159583

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	480-52359-I-2 DU	Analysis Batch:	480-159583	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak122613b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/26/2013 1748	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO3	323		320.4	0.8	20	
Carbonate Alkalinity as CaCO3	0.79	U	0.79	NC	20	U
Alkalinity	323		320.4	0.8	20	
Hydroxide Alkalinity	0.79	U	0.79	NC	20	U

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-200246

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 460-200246/2	Analysis Batch:	460-200246	Instrument ID:	Auto_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122613alk.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/26/2013 1114	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0
Alkalinity	5.0	U	5.0	5.0
Hydroxide Alkalinity	5.0	U	5.0	5.0

LCS-Certified Reference Material - Batch: 460-200246

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCSSRM 460-200246/3	Analysis Batch:	460-200246	Instrument ID:	Auto_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122613alk.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/26/2013 1121	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	37.7	35.32	93.7	90.9 - 110.0	

Duplicate - Batch: 460-200246

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	460-68260-G-1 DU	Analysis Batch:	460-200246	Instrument ID:	Auto_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	122613alk.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/26/2013 1224	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Bicarbonate Alkalinity as CaCO3	213		215.1	1	27	
Carbonate Alkalinity as CaCO3	5.0	U	5.0	NC	27	U
Alkalinity	213		215.1	1	27	
Hydroxide Alkalinity	5.0	U	5.0	NC	27	U

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-200035

Method: SM 2340C
Preparation: N/A

Lab Sample ID:	MB 460-200035/1	Analysis Batch:	460-200035	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/26/2013 1100	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hardness as calcium carbonate	1.6	U	1.6	5.0

LCS-Certified Reference Material - Batch: 460-200035

Method: SM 2340C
Preparation: N/A

Lab Sample ID:	LCSSRM 460-200035/2	Analysis Batch:	460-200035	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/26/2013 1100	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hardness as calcium carbonate	208	204.0	98.1	91.3 - 109.1	

Duplicate - Batch: 460-200035

Method: SM 2340C
Preparation: N/A

Lab Sample ID:	460-68263-11	Analysis Batch:	460-200035	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/26/2013 1100	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Hardness as calcium carbonate	84.0	84.00	0	10	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-198189

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 460-198189/1	Analysis Batch:	460-198189	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/17/2013 0717	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	1.0	U	1.0	1.0

LCS-Certified Reference Material - Batch: 460-198189

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCSSRM 460-198189/2	Analysis Batch:	460-198189	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2013 0717	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	75.5	70.00	92.7	82.6 - 107.9	

Duplicate - Batch: 460-198189

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	460-68392-A-5 DU	Analysis Batch:	460-198189	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2013 0717	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	158	140.0	12	5	F

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-198448

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 460-198448/1	Analysis Batch:	460-198448	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/18/2013 0850	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	1.0	U	1.0	1.0

LCS-Certified Reference Material - Batch: 460-198448

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCSSRM 460-198448/2	Analysis Batch:	460-198448	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/18/2013 0850	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	75.5	68.00	90.1	82.6 - 107.9	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Duplicate - Batch: 460-198448

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	460-68392-A-3 DU	Analysis Batch:	460-198448	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/18/2013 0850	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	104	108.0	4	5	

Duplicate - Batch: 460-198448

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	460-68392-A-6 DU	Analysis Batch:	460-198448	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/18/2013 0850	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	190	166.0	13	5	F

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-199830

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID:	MB 460-199830/2	Analysis Batch:	460-199830	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/24/2013 1512	Units:	SU	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
pH	4.780			

LCS-Certified Reference Material - Batch: 460-199830

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID:	LCSSRM 460-199830/3	Analysis Batch:	460-199830	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/24/2013 1514	Units:	SU	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.03	7.000	99.6	98.0 - 102.0	

Duplicate - Batch: 460-199830

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID:	460-68263-1	Analysis Batch:	460-199830	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/24/2013 1519	Units:	SU	Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	8.14	8.140	0	10	

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-197786

Method: SM 4500 P E
Preparation: N/A

Lab Sample ID:	MB 460-197786/3	Analysis Batch:	460-197786	Instrument ID:	WetPhosSpec
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2013 0910	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Orthophosphate as P	0.010	U	0.010	0.030

LCS-Certified Reference Material - Batch: 460-197786

Method: SM 4500 P E
Preparation: N/A

Lab Sample ID:	LCSSRM 460-197786/4	Analysis Batch:	460-197786	Instrument ID:	WetPhosSpec
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2013 0910	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate as P	5.34	5.79	108.5	86.1 - 109.0	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-197786

Method: SM 4500 P E
Preparation: N/A

MS Lab Sample ID:	460-68263-9	Analysis Batch:	460-197786	Instrument ID:	WetPhosSpec
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2013 1130			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-9	Analysis Batch:	460-197786	Instrument ID:	WetPhosSpec
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2013 1130			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Orthophosphate as P	105	104	82 - 118	1	10		

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-197786

Method: SM 4500 P E
Preparation: N/A

MS Lab Sample ID:	460-68263-9	Units:	mg/L	MSD Lab Sample ID:	460-68263-9
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2013 1130			Analysis Date:	12/14/2013 1130
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Orthophosphate as P	0.090	0.200	0.200	0.300	0.297

Client: Integral Consulting Inc

Job Number: 460-68263-1

Method Blank - Batch: 460-199349

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 460-199349/3	Analysis Batch:	460-199349	Instrument ID:	TOC_Shimadzu3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131221.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/21/2013 1139	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	0.30	U	0.30	1.0

LCS-Certified Reference Material - Batch: 460-199349

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCSSRM 460-199349/4	Analysis Batch:	460-199349	Instrument ID:	TOC_Shimadzu3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131221.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/21/2013 1209	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	72.0	75.58	105.0	86.9 - 113.1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199349

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	460-68263-1	Analysis Batch:	460-199349	Instrument ID:	TOC_Shimadzu3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131221.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/21/2013 1257			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	460-68263-1	Analysis Batch:	460-199349	Instrument ID:	TOC_Shimadzu3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	131221.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/21/2013 1319			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon	110	110	80 - 120	0	10		

Client: Integral Consulting Inc

Job Number: 460-68263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-199349

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	460-68263-1	Units:	mg/L	MSD Lab Sample ID:	460-68263-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/21/2013 1257			Analysis Date:	12/21/2013 1319
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	1.3	50.0	50.0	56.31	56.25

DATA REPORTING QUALIFIERS

Client: Integral Consulting Inc

Job Number: 460-68263-1

Lab Section	Qualifier	Description
General Chemistry		
	F	Duplicate RPD exceeds the control limit
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	^	Instrument related QC exceeds the control limits
	F	MS/MSD Recovery or RPD exceeds the control limits
	*	Recovery or RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-157769					
LCS 480-157769/51	Lab Control Sample	T	Water	300.0	
MB 480-157769/52	Method Blank	T	Water	300.0	
460-68263-1	GW0016	T	Water	300.0	
460-68263-2	GW0017	T	Water	300.0	
460-68263-3	GW0018	T	Water	300.0	
460-68263-4	GW0019	T	Water	300.0	
460-68263-5	GW0020	T	Water	300.0	
460-68263-5MS	Matrix Spike	T	Water	300.0	
460-68263-6	GW0021	T	Water	300.0	
460-68263-7	GW0022	T	Water	300.0	
460-68263-8	GW0023	T	Water	300.0	
460-68263-9	GW0024	T	Water	300.0	
460-68263-10	GW0025	T	Water	300.0	
460-68263-11	GW0026	T	Water	300.0	
Analysis Batch:480-158039					
LCS 480-158039/3	Lab Control Sample	T	Water	300.0	
MB 480-158039/4	Method Blank	T	Water	300.0	
460-68263-1	GW0016	T	Water	300.0	
460-68263-2	GW0017	T	Water	300.0	
460-68263-3	GW0018	T	Water	300.0	
460-68263-4	GW0019	T	Water	300.0	
460-68263-5	GW0020	T	Water	300.0	
460-68263-6	GW0021	T	Water	300.0	
460-68263-7	GW0022	T	Water	300.0	
460-68263-7MS	Matrix Spike	T	Water	300.0	
460-68263-7MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:480-158052					
LCS 480-158052/27	Lab Control Sample	T	Water	300.0	
MB 480-158052/28	Method Blank	T	Water	300.0	
460-68263-8	GW0023	T	Water	300.0	
460-68263-9	GW0024	T	Water	300.0	
460-68263-10	GW0025	T	Water	300.0	
460-68263-11	GW0026	T	Water	300.0	

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-159583					
LCS 480-159583/7	Lab Control Sample	T	Water	SM 2320B	
MB 480-159583/6	Method Blank	T	Water	SM 2320B	
480-52359-I-2 DU	Duplicate	T	Water	SM 2320B	
480-52359-I-3 MS	Matrix Spike	T	Water	SM 2320B	
460-68263-4	GW0019	T	Water	SM 2320B	
460-68263-6	GW0021	T	Water	SM 2320B	
460-68263-7	GW0022	T	Water	SM 2320B	
460-68263-8	GW0023	T	Water	SM 2320B	
460-68263-9	GW0024	T	Water	SM 2320B	
460-68263-10	GW0025	T	Water	SM 2320B	
460-68263-11	GW0026	T	Water	SM 2320B	
Analysis Batch:460-197566					
LCSSRM 460-197566/63	LCS-Certified Reference Material	T	Water	353.2	
LCSSRM 460-197566/64	LCS-Certified Reference Material	T	Water	353.2	
460-68263-1	GW0016	T	Water	353.2	
460-68263-2	GW0017	T	Water	353.2	
Analysis Batch:460-197786					
LCSSRM 460-197786/4	LCS-Certified Reference Material	T	Water	SM 4500 P E	
MB 460-197786/3	Method Blank	T	Water	SM 4500 P E	
460-68263-1	GW0016	T	Water	SM 4500 P E	
460-68263-2	GW0017	T	Water	SM 4500 P E	
460-68263-3	GW0018	T	Water	SM 4500 P E	
460-68263-4	GW0019	T	Water	SM 4500 P E	
460-68263-5	GW0020	T	Water	SM 4500 P E	
460-68263-6	GW0021	T	Water	SM 4500 P E	
460-68263-7	GW0022	T	Water	SM 4500 P E	
460-68263-8	GW0023	T	Water	SM 4500 P E	
460-68263-9	GW0024	T	Water	SM 4500 P E	
460-68263-9MS	Matrix Spike	T	Water	SM 4500 P E	
460-68263-9MSD	Matrix Spike Duplicate	T	Water	SM 4500 P E	
460-68263-10	GW0025	T	Water	SM 4500 P E	
460-68263-11	GW0026	T	Water	SM 4500 P E	
Analysis Batch:460-198189					
LCSSRM 460-198189/2	LCS-Certified Reference Material	T	Water	SM 2540D	
MB 460-198189/1	Method Blank	T	Water	SM 2540D	
460-68263-1	GW0016	T	Water	SM 2540D	
460-68263-2	GW0017	T	Water	SM 2540D	
460-68263-3	GW0018	T	Water	SM 2540D	
460-68263-4	GW0019	T	Water	SM 2540D	
460-68263-5	GW0020	T	Water	SM 2540D	
460-68392-A-5 DU	Duplicate	T	Water	SM 2540D	

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-198448					
LCSSRM 460-198448/2	LCS-Certified Reference Material	T	Water	SM 2540D	
MB 460-198448/1	Method Blank	T	Water	SM 2540D	
460-68263-6	GW0021	T	Water	SM 2540D	
460-68263-7	GW0022	T	Water	SM 2540D	
460-68263-8	GW0023	T	Water	SM 2540D	
460-68263-9	GW0024	T	Water	SM 2540D	
460-68263-10	GW0025	T	Water	SM 2540D	
460-68263-11	GW0026	T	Water	SM 2540D	
460-68392-A-3 DU	Duplicate	T	Water	SM 2540D	
460-68392-A-6 DU	Duplicate	T	Water	SM 2540D	
Analysis Batch:460-199349					
LCSSRM 460-199349/4	LCS-Certified Reference Material	T	Water	SM 5310B	
MB 460-199349/3	Method Blank	T	Water	SM 5310B	
460-68263-1	GW0016	T	Water	SM 5310B	
460-68263-1MS	Matrix Spike	T	Water	SM 5310B	
460-68263-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
460-68263-2	GW0017	T	Water	SM 5310B	
460-68263-3	GW0018	T	Water	SM 5310B	
460-68263-4	GW0019	T	Water	SM 5310B	
460-68263-5	GW0020	T	Water	SM 5310B	
460-68263-6	GW0021	T	Water	SM 5310B	
460-68263-7	GW0022	T	Water	SM 5310B	
460-68263-8	GW0023	T	Water	SM 5310B	
460-68263-9	GW0024	T	Water	SM 5310B	
460-68263-10	GW0025	T	Water	SM 5310B	
460-68263-11	GW0026	T	Water	SM 5310B	
Prep Batch: 460-199450					
LCS 460-199450/2-A	Lab Control Sample	T	Water	SM 4500 NH3 B	
MB 460-199450/1-A	Method Blank	T	Water	SM 4500 NH3 B	
460-68263-1	GW0016	T	Water	SM 4500 NH3 B	
460-68263-2	GW0017	T	Water	SM 4500 NH3 B	
460-68263-3	GW0018	T	Water	SM 4500 NH3 B	
460-68263-4	GW0019	T	Water	SM 4500 NH3 B	
460-68263-5	GW0020	T	Water	SM 4500 NH3 B	
460-68263-6	GW0021	T	Water	SM 4500 NH3 B	
460-68263-7	GW0022	T	Water	SM 4500 NH3 B	
460-68263-8	GW0023	T	Water	SM 4500 NH3 B	
460-68263-8MS	Matrix Spike	T	Water	SM 4500 NH3 B	
460-68263-8MSD	Matrix Spike Duplicate	T	Water	SM 4500 NH3 B	

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-199611					
LCS 460-199450/2-A	Lab Control Sample	T	Water	4500 NH3 H	460-199450
MB 460-199450/1-A	Method Blank	T	Water	4500 NH3 H	460-199450
460-68263-1	GW0016	T	Water	4500 NH3 H	460-199450
460-68263-2	GW0017	T	Water	4500 NH3 H	460-199450
460-68263-3	GW0018	T	Water	4500 NH3 H	460-199450
460-68263-4	GW0019	T	Water	4500 NH3 H	460-199450
460-68263-5	GW0020	T	Water	4500 NH3 H	460-199450
460-68263-6	GW0021	T	Water	4500 NH3 H	460-199450
460-68263-7	GW0022	T	Water	4500 NH3 H	460-199450
460-68263-8	GW0023	T	Water	4500 NH3 H	460-199450
460-68263-8MS	Matrix Spike	T	Water	4500 NH3 H	460-199450
460-68263-8MSD	Matrix Spike Duplicate	T	Water	4500 NH3 H	460-199450
Prep Batch: 460-199718					
LCS 460-199718/2-A	Lab Control Sample	T	Water	SM 4500 NH3 B	
MB 460-199718/1-A	Method Blank	T	Water	SM 4500 NH3 B	
460-68263-9	GW0024	T	Water	SM 4500 NH3 B	
460-68263-10	GW0025	T	Water	SM 4500 NH3 B	
460-68263-11	GW0026	T	Water	SM 4500 NH3 B	
460-68504-F-4-B MS	Matrix Spike	T	Water	SM 4500 NH3 B	
460-68504-F-4-C MSD	Matrix Spike Duplicate	T	Water	SM 4500 NH3 B	
Analysis Batch:460-199783					
LCS 460-199718/2-A	Lab Control Sample	T	Water	4500 NH3 H	460-199718
MB 460-199718/1-A	Method Blank	T	Water	4500 NH3 H	460-199718
460-68263-9	GW0024	T	Water	4500 NH3 H	460-199718
460-68263-10	GW0025	T	Water	4500 NH3 H	460-199718
460-68263-11	GW0026	T	Water	4500 NH3 H	460-199718
460-68504-F-4-B MS	Matrix Spike	T	Water	4500 NH3 H	460-199718
460-68504-F-4-C MSD	Matrix Spike Duplicate	T	Water	4500 NH3 H	460-199718

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-199830					
LCSSRM 460-199830/3	LCS-Certified Reference Material	T	Water	SM 4500 H+ B	
MB 460-199830/2	Method Blank	T	Water	SM 4500 H+ B	
460-68263-1	GW0016	T	Water	SM 4500 H+ B	
460-68263-1DU	Duplicate	T	Water	SM 4500 H+ B	
460-68263-2	GW0017	T	Water	SM 4500 H+ B	
460-68263-3	GW0018	T	Water	SM 4500 H+ B	
460-68263-4	GW0019	T	Water	SM 4500 H+ B	
460-68263-5	GW0020	T	Water	SM 4500 H+ B	
460-68263-6	GW0021	T	Water	SM 4500 H+ B	
460-68263-7	GW0022	T	Water	SM 4500 H+ B	
460-68263-8	GW0023	T	Water	SM 4500 H+ B	
460-68263-9	GW0024	T	Water	SM 4500 H+ B	
460-68263-10	GW0025	T	Water	SM 4500 H+ B	
460-68263-11	GW0026	T	Water	SM 4500 H+ B	
Analysis Batch:460-200035					
LCSSRM 460-200035/2	LCS-Certified Reference Material	T	Water	SM 2340C	
MB 460-200035/1	Method Blank	T	Water	SM 2340C	
460-68263-1	GW0016	T	Water	SM 2340C	
460-68263-2	GW0017	T	Water	SM 2340C	
460-68263-3	GW0018	T	Water	SM 2340C	
460-68263-4	GW0019	T	Water	SM 2340C	
460-68263-5	GW0020	T	Water	SM 2340C	
460-68263-6	GW0021	T	Water	SM 2340C	
460-68263-7	GW0022	T	Water	SM 2340C	
460-68263-8	GW0023	T	Water	SM 2340C	
460-68263-9	GW0024	T	Water	SM 2340C	
460-68263-10	GW0025	T	Water	SM 2340C	
460-68263-11	GW0026	T	Water	SM 2340C	
460-68263-11DU	Duplicate	T	Water	SM 2340C	
Analysis Batch:460-200246					
LCSSRM 460-200246/3	LCS-Certified Reference Material	T	Water	SM 2320B	
MB 460-200246/2	Method Blank	T	Water	SM 2320B	
460-68260-G-1 DU	Duplicate	T	Water	SM 2320B	
460-68263-1	GW0016	T	Water	SM 2320B	
460-68263-2	GW0017	T	Water	SM 2320B	
460-68263-3	GW0018	T	Water	SM 2320B	
460-68263-5	GW0020	T	Water	SM 2320B	

Client: Integral Consulting Inc

Job Number: 460-68263-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-200863					
LCSSRM 460-200863/10	LCS-Certified Reference Material	T	Water	353.2	
LCSSRM 460-200863/11	LCS-Certified Reference Material	T	Water	353.2	
MB 460-200863/9	Method Blank	T	Water	353.2	
460-68263-3	GW0018	T	Water	353.2	
460-68263-3MS	Matrix Spike	T	Water	353.2	
460-68263-3MSD	Matrix Spike Duplicate	T	Water	353.2	
460-68263-4	GW0019	T	Water	353.2	
460-68263-5	GW0020	T	Water	353.2	
460-68263-6	GW0021	T	Water	353.2	
460-68263-7	GW0022	T	Water	353.2	
460-68263-8	GW0023	T	Water	353.2	
460-68263-9	GW0024	T	Water	353.2	
460-68263-10	GW0025	T	Water	353.2	
460-68263-11	GW0026	T	Water	353.2	
Analysis Batch:460-201031					
LCSSRM 460-201031/11	LCS-Certified Reference Material	T	Water	353.2	
MB 460-201031/9	Method Blank	T	Water	353.2	
460-68263-1	GW0016	T	Water	353.2	
460-68263-1MS	Matrix Spike	T	Water	353.2	
460-68263-1MSD	Matrix Spike Duplicate	T	Water	353.2	
460-68263-2	GW0017	T	Water	353.2	

Report Basis

T = Total

Client: Integral Consulting Inc

Job Number: 460-68263-1

Laboratory Chronicle

Lab ID: **460-68263-1** **Client ID:** **GW0016**

Sample Date/Time: 12/12/2013 11:55 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-1		480-157769		12/16/2013 21:52	1	TAL BUF	KRC
A:300.0	460-68263-A-1		480-158039		12/17/2013 20:03	1	TAL BUF	KAC
A:353.2	460-68263-C-1		460-201031		01/02/2014 12:40	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-1-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-1-A		460-199611	460-199450	12/23/2013 17:09	1	TAL EDI	SEB
A:SM 2320B	460-68263-F-1		460-200246		12/26/2013 14:11	1	TAL EDI	MCC
A:SM 2340C	460-68263-E-1		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-G-1		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-1		460-199830		12/24/2013 15:17	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-F-1		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-1		460-199349		12/21/2013 12:36	1	TAL EDI	MAL

Lab ID: **460-68263-1 MS** **Client ID:** **GW0016**

Sample Date/Time: 12/12/2013 11:55 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	460-68263-C-1 MS		460-201031		01/02/2014 12:46	1	TAL EDI	SEB
A:SM 5310B	460-68263-B-1 MS		460-199349		12/21/2013 12:57	1	TAL EDI	MAL

Lab ID: **460-68263-1 MSD** **Client ID:** **GW0016**

Sample Date/Time: 12/12/2013 11:55 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	460-68263-C-1 MSD		460-201031		01/02/2014 12:47	1	TAL EDI	SEB
A:SM 5310B	460-68263-B-1 MSD		460-199349		12/21/2013 13:19	1	TAL EDI	MAL

Lab ID: **460-68263-1 DU** **Client ID:** **GW0016**

Sample Date/Time: 12/12/2013 11:55 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 4500 H+ B	460-68263-C-1 DU		460-199830		12/24/2013 15:19	1	TAL EDI	YAH

Client: Integral Consulting Inc

Job Number: 460-68263-1

Laboratory Chronicle

Lab ID: **460-68263-2** **Client ID:** **GW0017**

Sample Date/Time: 12/12/2013 12:20 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-2		480-157769		12/16/2013 22:02	1	TAL BUF	KRC
A:300.0	460-68263-A-2		480-158039		12/17/2013 20:13	1	TAL BUF	KAC
A:353.2	460-68263-C-2		460-201031		01/02/2014 12:41	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-2-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-2-A		460-199611	460-199450	12/23/2013 17:11	1	TAL EDI	SEB
A:SM 2320B	460-68263-F-2		460-200246		12/26/2013 14:18	1	TAL EDI	MCC
A:SM 2340C	460-68263-E-2		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-G-2		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-2		460-199830		12/24/2013 15:21	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-F-2		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-2		460-199349		12/21/2013 13:40	1	TAL EDI	MAL

Lab ID: **460-68263-3** **Client ID:** **GW0018**

Sample Date/Time: 12/12/2013 12:30 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-3		480-157769		12/16/2013 22:12	1	TAL BUF	KRC
A:300.0	460-68263-A-3		480-158039		12/17/2013 20:24	1	TAL BUF	KAC
A:353.2	460-68263-C-3		460-200863		12/31/2013 14:17	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-3-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-3-A		460-199611	460-199450	12/23/2013 17:12	1	TAL EDI	SEB
A:SM 2320B	460-68263-F-3		460-200246		12/26/2013 14:24	1	TAL EDI	MCC
A:SM 2340C	460-68263-E-3		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-G-3		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-3		460-199830		12/24/2013 15:23	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-F-3		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-3		460-199349		12/21/2013 13:59	1	TAL EDI	MAL

Lab ID: **460-68263-3 MS** **Client ID:** **GW0018**

Sample Date/Time: 12/12/2013 12:30 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	460-68263-C-3 MS		460-200863		12/31/2013 14:34	1	TAL EDI	SEB

Lab ID: **460-68263-3 MSD** **Client ID:** **GW0018**

Sample Date/Time: 12/12/2013 12:30 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	460-68263-C-3 MSD		460-200863		12/31/2013 14:36	1	TAL EDI	SEB

Client: Integral Consulting Inc

Job Number: 460-68263-1

Laboratory Chronicle

Lab ID: **460-68263-4** **Client ID:** **GW0019**

Sample Date/Time: 12/12/2013 12:55 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-4		480-157769		12/16/2013 22:22	1	TAL BUF	KRC
A:300.0	460-68263-A-4		480-158039		12/17/2013 20:34	1	TAL BUF	KAC
A:353.2	460-68263-C-4		460-200863		12/31/2013 14:18	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-4-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-4-A		460-199611	460-199450	12/23/2013 17:18	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-4		480-159583		12/26/2013 16:45	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-4		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-G-4		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-4		460-199830		12/24/2013 15:25	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-4		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-4		460-199349		12/21/2013 14:19	1	TAL EDI	MAL

Lab ID: **460-68263-5** **Client ID:** **GW0020**

Sample Date/Time: 12/12/2013 13:02 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-5		480-157769		12/16/2013 22:32	1	TAL BUF	KRC
A:300.0	460-68263-A-5		480-158039		12/17/2013 20:44	1	TAL BUF	KAC
A:353.2	460-68263-C-5		460-200863		12/31/2013 14:20	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-5-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-5-A		460-199611	460-199450	12/23/2013 17:19	1	TAL EDI	SEB
A:SM 2320B	460-68263-F-5		460-200246		12/26/2013 14:32	1	TAL EDI	MCC
A:SM 2340C	460-68263-E-5		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-G-5		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-5		460-199830		12/24/2013 15:28	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-5		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-5		460-199349		12/21/2013 14:39	1	TAL EDI	MAL

Lab ID: **460-68263-5 MS** **Client ID:** **GW0020**

Sample Date/Time: 12/12/2013 13:02 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-5 MS		480-157769		12/16/2013 22:42	1	TAL BUF	KRC

Client: Integral Consulting Inc

Job Number: 460-68263-1

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Lab ID: **460-68263-6** **Client ID:** **GW0021**

Sample Date/Time: 12/12/2013 13:18 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-6		480-157769		12/16/2013 23:13	1	TAL BUF	KRC
A:300.0	460-68263-A-6		480-158039		12/17/2013 20:54	1	TAL BUF	KAC
A:353.2	460-68263-C-6		460-200863		12/31/2013 14:21	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-6-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-6-A		460-199611	460-199450	12/23/2013 17:21	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-6		480-159583		12/26/2013 16:52	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-6		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-6		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-6		460-199830		12/24/2013 15:30	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-6		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-6		460-199349		12/21/2013 14:58	1	TAL EDI	MAL

Lab ID: **460-68263-7** **Client ID:** **GW0022**

Sample Date/Time: 12/12/2013 13:22 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-7		480-157769		12/16/2013 23:23	1	TAL BUF	KRC
A:300.0	460-68263-A-7		480-158039		12/17/2013 21:04	1	TAL BUF	KAC
A:353.2	460-68263-C-7		460-200863		12/31/2013 14:27	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-7-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-7-A		460-199611	460-199450	12/23/2013 17:22	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-7		480-159583		12/26/2013 16:58	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-7		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-7		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-7		460-199830		12/24/2013 15:35	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-7		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-7		460-199349		12/21/2013 16:00	1	TAL EDI	MAL

Lab ID: **460-68263-7 MS** **Client ID:** **GW0022**

Sample Date/Time: 12/12/2013 13:22 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-7 MS		480-158039		12/17/2013 21:14	1	TAL BUF	KAC

Lab ID: **460-68263-7 MSD** **Client ID:** **GW0022**

Sample Date/Time: 12/12/2013 13:22 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-7 MSD		480-158039		12/17/2013 21:24	1	TAL BUF	KAC

Client: Integral Consulting Inc

Job Number: 460-68263-1

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Lab ID: **460-68263-8** **Client ID:** **GW0023**

Sample Date/Time: 12/12/2013 13:44 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-8		480-157769		12/16/2013 23:33	1	TAL BUF	KRC
A:300.0	460-68263-A-8		480-158052		12/17/2013 22:15	1	TAL BUF	KAC
A:353.2	460-68263-C-8		460-200863		12/31/2013 14:28	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-8-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-8-A		460-199611	460-199450	12/23/2013 17:05	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-8		480-159583		12/26/2013 17:04	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-8		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-8		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-8		460-199830		12/24/2013 15:37	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-8		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-8		460-199349		12/21/2013 16:20	1	TAL EDI	MAL

Lab ID: **460-68263-8 MS** **Client ID:** **GW0023**

Sample Date/Time: 12/12/2013 13:44 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM 4500 NH3 B	460-68263-D-8-B MS		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-8-B MS		460-199611	460-199450	12/23/2013 17:06	1	TAL EDI	SEB

Lab ID: **460-68263-8 MSD** **Client ID:** **GW0023**

Sample Date/Time: 12/12/2013 13:44 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM 4500 NH3 B	460-68263-D-8-C MSD		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-8-C MSD		460-199611	460-199450	12/23/2013 17:08	1	TAL EDI	SEB

Client: Integral Consulting Inc

Job Number: 460-68263-1

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Lab ID: **460-68263-9** **Client ID:** **GW0024**

Sample Date/Time: 12/12/2013 14:00 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-9		480-157769		12/16/2013 23:43	1	TAL BUF	KRC
A:300.0	460-68263-A-9		480-158052		12/17/2013 22:25	1	TAL BUF	KAC
A:353.2	460-68263-C-9		460-200863		12/31/2013 14:30	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-9-A		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-9-A		460-199783	460-199718	12/24/2013 12:46	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-9		480-159583		12/26/2013 17:10	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-9		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-9		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-9		460-199830		12/24/2013 15:39	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-9		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-9		460-199349		12/21/2013 16:39	1	TAL EDI	MAL

Lab ID: **460-68263-9 MS** **Client ID:** **GW0024**

Sample Date/Time: 12/12/2013 14:00 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 4500 P E	460-68263-C-9 MS		460-197786		12/14/2013 11:30	1	TAL EDI	RAK

Lab ID: **460-68263-9 MSD** **Client ID:** **GW0024**

Sample Date/Time: 12/12/2013 14:00 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 4500 P E	460-68263-C-9 MSD		460-197786		12/14/2013 11:30	1	TAL EDI	RAK

Lab ID: **460-68263-10** **Client ID:** **GW0025**

Sample Date/Time: 12/12/2013 14:22 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-10		480-157769		12/16/2013 23:53	1	TAL BUF	KRC
A:300.0	460-68263-A-10		480-158052		12/17/2013 22:35	1	TAL BUF	KAC
A:353.2	460-68263-C-10		460-200863		12/31/2013 14:31	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-D-10-A		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-D-10-A		460-199783	460-199718	12/24/2013 12:47	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-10		480-159583		12/26/2013 17:15	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-10		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-10		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-10		460-199830		12/24/2013 15:41	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-10		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-10		460-199349		12/21/2013 17:00	1	TAL EDI	MAL

Client: Integral Consulting Inc

Job Number: 460-68263-1

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Lab ID: **460-68263-11** **Client ID:** **GW0026**

Sample Date/Time: 12/12/2013 14:38 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	460-68263-A-11		480-157769		12/17/2013 00:03	1	TAL BUF	KRC
A:300.0	460-68263-A-11		480-158052		12/17/2013 22:45	1	TAL BUF	KAC
A:353.2	460-68263-C-11		460-200863		12/31/2013 14:33	1	TAL EDI	SEB
P:SM 4500 NH3 B	460-68263-B-11-A		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68263-B-11-A		460-199783	460-199718	12/24/2013 12:53	1	TAL EDI	SEB
A:SM 2320B	460-68263-A-11		480-159583		12/26/2013 17:21	1	TAL BUF	EGN
A:SM 2340C	460-68263-E-11		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	460-68263-F-11		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	460-68263-C-11		460-199830		12/24/2013 15:44	1	TAL EDI	YAH
A:SM 4500 P E	460-68263-C-11		460-197786		12/14/2013 11:30	1	TAL EDI	RAK
A:SM 5310B	460-68263-B-11		460-199349		12/21/2013 17:19	1	TAL EDI	MAL

Lab ID: **460-68263-11 DU** **Client ID:** **GW0026**

Sample Date/Time: 12/12/2013 14:38 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2340C	460-68263-E-11 DU		460-200035		12/26/2013 11:00	1	TAL EDI	IAA

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MB 480-157769/52		480-157769		12/16/2013 21:21	1	TAL BUF	KRC
A:300.0	MB 480-158039/4		480-158039		12/17/2013 18:02	1	TAL BUF	KAC
A:300.0	MB 480-158052/28		480-158052		12/17/2013 22:05	1	TAL BUF	KAC
A:353.2	MB 460-200863/9		460-200863		12/31/2013 14:07	1	TAL EDI	SEB
A:353.2	MB 460-201031/9		460-201031		01/02/2014 12:31	1	TAL EDI	SEB
P:SM 4500 NH3 B	MB 460-199450/1-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	MB 460-199450/1-A		460-199611	460-199450	12/23/2013 17:02	1	TAL EDI	SEB
P:SM 4500 NH3 B	MB 460-199718/1-A		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	MB 460-199718/1-A		460-199783	460-199718	12/24/2013 12:18	1	TAL EDI	SEB
A:SM 2320B	MB 460-200246/2		460-200246		12/26/2013 11:14	1	TAL EDI	MCC
A:SM 2320B	MB 480-159583/6		480-159583		12/26/2013 16:33	1	TAL BUF	EGN
A:SM 2340C	MB 460-200035/1		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	MB 460-198189/1		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 2540D	MB 460-198448/1		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	MB 460-199830/2		460-199830		12/24/2013 15:12	1	TAL EDI	YAH
A:SM 4500 P E	MB 460-197786/3		460-197786		12/14/2013 09:10	1	TAL EDI	RAK
A:SM 5310B	MB 460-199349/3		460-199349		12/21/2013 11:39	1	TAL EDI	MAL

Client: Integral Consulting Inc

Job Number: 460-68263-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCS 480-157769/51		480-157769		12/16/2013 21:11	1	TAL BUF	KRC
A:300.0	LCS 480-158039/3		480-158039		12/17/2013 17:52	1	TAL BUF	KAC
A:300.0	LCS 480-158052/27		480-158052		12/17/2013 21:55	1	TAL BUF	KAC
P:SM 4500 NH3 B	LCS 460-199450/2-A		460-199611	460-199450	12/23/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	LCS 460-199450/2-A		460-199611	460-199450	12/23/2013 17:03	1	TAL EDI	SEB
P:SM 4500 NH3 B	LCS 460-199718/2-A		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	LCS 460-199718/2-A		460-199783	460-199718	12/24/2013 12:19	1	TAL EDI	SEB
A:SM 2320B	LCS 480-159583/7		480-159583		12/26/2013 16:39	1	TAL BUF	EGN

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	LCSSRM 460-197566/63		460-197566		12/13/2013 11:29	1	TAL EDI	MAL
A:353.2	LCSSRM 460-197566/64		460-197566		12/13/2013 11:30	1	TAL EDI	MAL
A:353.2	LCSSRM 460-200863/10		460-200863		12/31/2013 14:08	1	TAL EDI	SEB
A:353.2	LCSSRM 460-200863/11		460-200863		12/31/2013 14:10	1	TAL EDI	SEB
A:353.2	LCSSRM 460-201031/11		460-201031		01/02/2014 12:37	1	TAL EDI	SEB
A:SM 2320B	LCSSRM 460-200246/3		460-200246		12/26/2013 11:21	1	TAL EDI	MCC
A:SM 2340C	LCSSRM 460-200035/2		460-200035		12/26/2013 11:00	1	TAL EDI	IAA
A:SM 2540D	LCSSRM 460-198189/2		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 2540D	LCSSRM 460-198448/2		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 4500 H+ B	LCSSRM 460-199830/3		460-199830		12/24/2013 15:14	1	TAL EDI	YAH
A:SM 4500 P E	LCSSRM 460-197786/4		460-197786		12/14/2013 09:10	25	TAL EDI	RAK
A:SM 5310B	LCSSRM 460-199349/4		460-199349		12/21/2013 12:09	1	TAL EDI	MAL

Client: Integral Consulting Inc

Job Number: 460-68263-1

Laboratory Chronicle

Lab ID: **MS** **Client ID:** **N/A**

Sample Date/Time: 12/17/2013 11:11 Received Date/Time: 12/17/2013 19:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM 4500 NH3 B	460-68504-F-4-B MS		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68504-F-4-B MS		460-199783	460-199718	12/24/2013 12:22	1	TAL EDI	SEB
A:SM 2320B	480-52359-I-3 MS		480-159583		12/26/2013 18:00	1	TAL BUF	EGN

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: 12/17/2013 11:11 Received Date/Time: 12/17/2013 19:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM 4500 NH3 B	460-68504-F-4-C MSD		460-199783	460-199718	12/24/2013 06:30	1	TAL EDI	IAA
A:4500 NH3 H	460-68504-F-4-C MSD		460-199783	460-199718	12/24/2013 12:24	1	TAL EDI	SEB

Lab ID: **DU** **Client ID:** **N/A**

Sample Date/Time: 12/12/2013 09:27 Received Date/Time: 12/13/2013 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	460-68260-G-1 DU		460-200246		12/26/2013 12:24	1	TAL EDI	MCC
A:SM 2320B	480-52359-I-2 DU		480-159583		12/26/2013 17:48	1	TAL BUF	EGN
A:SM 2540D	460-68392-A-5 DU		460-198189		12/17/2013 07:17	1	TAL EDI	PLS
A:SM 2540D	460-68392-A-3 DU		460-198448		12/18/2013 08:50	1	TAL EDI	PLS
A:SM 2540D	460-68392-A-6 DU		460-198448		12/18/2013 08:50	1	TAL EDI	PLS

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG No.:

Project: Solvay

Client Sample ID	Lab Sample ID
GW0016	460-68263-1
GW0017	460-68263-2
GW0018	460-68263-3
GW0019	460-68263-4
GW0020	460-68263-5
GW0021	460-68263-6
GW0022	460-68263-7
GW0023	460-68263-8
GW0024	460-68263-9
GW0025	460-68263-10
GW0026	460-68263-11

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-68263-1

SDG No.:

Project: Solvay

Client Sample ID	Lab Sample ID
GW0016	460-68263-1
GW0017	460-68263-2
GW0018	460-68263-3
GW0019	460-68263-4
GW0020	460-68263-5
GW0021	460-68263-6
GW0022	460-68263-7
GW0023	460-68263-8
GW0024	460-68263-9
GW0025	460-68263-10
GW0026	460-68263-11

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0016 | Lab Sample ID: 460-68263-1

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 11:55

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.047	0.10	0.047	mg/L	U		1	353.2
	Hardness as calcium carbonate	122	5.0	1.6	mg/L			1	SM 2340C
	Bicarbonate Alkalinity as CaCO3	161	5.0	5.0	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Alkalinity	161	5.0	5.0	mg/L			1	SM 2320B
	Hydroxide Alkalinity	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Total Suspended Solids	1.4	1.1	1.1	mg/L			1	SM 2540D
	Orthophosphate as P	0.24	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.3	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.23	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.14			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0017 | Lab Sample ID: 460-68263-2

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 12:20

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.047	0.10	0.047	mg/L	U		1	353.2
	Hardness as calcium carbonate	166	5.0	1.6	mg/L			1	SM 2340C
	Bicarbonate Alkalinity as CaCO3	189	5.0	5.0	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Alkalinity	189	5.0	5.0	mg/L			1	SM 2320B
	Hydroxide Alkalinity	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Total Suspended Solids	1.1	1.1	1.1	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.29	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.6	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.35	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.02			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0018 | Lab Sample ID: 460-68263-3

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 12:30

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.047	0.10	0.047	mg/L	U	H	1	353.2
	Hardness as calcium carbonate	164	5.0	1.6	mg/L			1	SM 2340C
	Bicarbonate Alkalinity as CaCO3	199	5.0	5.0	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Alkalinity	199	5.0	5.0	mg/L			1	SM 2320B
	Hydroxide Alkalinity	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Total Suspended Solids	1.0	1.0	1.0	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.44	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.4	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.080	0.10	0.080	mg/L	U		1	4500 NH3 H
	pH	7.71			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0019 | Lab Sample ID: 460-68263-4

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 12:55

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.36	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	56.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	1.0	1.0	1.0	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.17	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.2	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.21	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.24			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0020 | Lab Sample ID: 460-68263-5

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 13:02

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.047	0.10	0.047	mg/L	U	H	1	353.2
	Hardness as calcium carbonate	18.0	5.0	1.6	mg/L			1	SM 2340C
	Bicarbonate Alkalinity as CaCO3	134	5.0	5.0	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Alkalinity	134	5.0	5.0	mg/L			1	SM 2320B
	Hydroxide Alkalinity	5.0	5.0	5.0	mg/L	U		1	SM 2320B
	Total Suspended Solids	1.1	1.1	1.1	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.20	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	0.54	1.0	0.30	mg/L	J		1	SM 5310B
7664-41-7	Ammonia (as N)	0.13	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.19			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0021 | Lab Sample ID: 460-68263-6

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 13:18

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.35	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	54.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.2	2.2	2.2	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.15	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.1	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.11	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.20			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0022
Lab Sample ID: 460-68263-7
Lab Name: TestAmerica Edison
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 13:22
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.37	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	52.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.2	2.2	2.2	mg/L			1	SM 2540D
	Orthophosphate as P	0.14	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.1	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.19	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.24			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0023 | Lab Sample ID: 460-68263-8

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 13:44

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.047	0.10	0.047	mg/L	U	H	1	353.2
	Hardness as calcium carbonate	24.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.1	2.1	2.1	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.20	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	0.61	1.0	0.30	mg/L	J		1	SM 5310B
7664-41-7	Ammonia (as N)	0.19	0.10	0.080	mg/L			1	4500 NH3 H
	pH	8.22			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0024 | Lab Sample ID: 460-68263-9

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 14:00

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.89	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	104	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.1	2.1	2.1	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.090	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.4	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.080	0.10	0.080	mg/L	U		1	4500 NH3 H
	pH	7.92			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0025
Lab Sample ID: 460-68263-10
Lab Name: TestAmerica Edison
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 14:22
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.56	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	86.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.2	2.2	2.2	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.11	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	1.2	1.0	0.30	mg/L			1	SM 5310B
7664-41-7	Ammonia (as N)	0.080	0.10	0.080	mg/L	U		1	4500 NH3 H
	pH	8.02			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0026 | Lab Sample ID: 460-68263-11

Lab Name: TestAmerica Edison | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 14:38

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Nitrate Nitrite as N	0.31	0.10	0.047	mg/L		H	1	353.2
	Hardness as calcium carbonate	84.0	5.0	1.6	mg/L			1	SM 2340C
	Total Suspended Solids	2.2	2.2	2.2	mg/L	U		1	SM 2540D
	Orthophosphate as P	0.19	0.030	0.010	mg/L			1	SM 4500 P E
7440-44-0	Total Organic Carbon	0.85	1.0	0.30	mg/L	J		1	SM 5310B
7664-41-7	Ammonia (as N)	0.080	0.10	0.080	mg/L	U		1	4500 NH3 H
	pH	8.29			SU		HF	1	SM 4500 H+ B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0016
Lab Sample ID: 460-68263-1
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 11:55
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	21.2	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.32	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	29.7	2.0	0.35	mg/L			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0017
Lab Sample ID: 460-68263-2
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 12:20
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	25.2	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.17	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	31.3	2.0	0.35	mg/L			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0018
Lab Sample ID: 460-68263-3
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 12:30
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	28.0	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.23	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	35.6	2.0	0.35	mg/L			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0019 | Lab Sample ID: 460-68263-4

Lab Name: TestAmerica Buffalo | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 12:55

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	43.5	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	1.2	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	8.1	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	122	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	122	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0020
Lab Sample ID: 460-68263-5
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 13:02
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	36.5	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	1.1	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	12.2	2.0	0.35	mg/L			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0021
Lab Sample ID: 460-68263-6
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 13:18
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	44.0	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	1.2	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	8.2	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	121	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	121	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0022
Lab Sample ID: 460-68263-7
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 13:22
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	43.9	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	1.1	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	8.2	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	121	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	121	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0023
Lab Sample ID: 460-68263-8
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 13:44
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	86.2	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	1.4	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	9.5	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	120	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	120	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0024
Lab Sample ID: 460-68263-9
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 14:00
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	48.6	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.072	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	15.0	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	53.2	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	53.2	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0025
Lab Sample ID: 460-68263-10
Lab Name: TestAmerica Buffalo
Job No.: 460-68263-1
SDG ID.:
Matrix: Water
Date Sampled: 12/12/2013 14:22
Reporting Basis: WET
Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	46.8	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.52	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	21.7	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	84.2	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	0.79	5.0	0.79	mg/L	U		1	SM 2320B
	Alkalinity	84.2	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW0026 | Lab Sample ID: 460-68263-11

Lab Name: TestAmerica Buffalo | Job No.: 460-68263-1

SDG ID.:

Matrix: Water | Date Sampled: 12/12/2013 14:38

Reporting Basis: WET | Date Received: 12/13/2013 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
24959-67-9	Bromide	0.073	0.20	0.073	mg/L	U		1	300.0
16887-00-6	Chloride	49.8	0.50	0.28	mg/L			1	300.0
16984-48-8	Fluoride	0.63	0.050	0.0060	mg/L			1	300.0
14808-79-8	Sulfate	19.6	2.0	0.35	mg/L			1	300.0
	Bicarbonate Alkalinity as CaCO3	95.3	5.0	0.79	mg/L			1	SM 2320B
	Carbonate Alkalinity as CaCO3	1.1	5.0	0.79	mg/L	J		1	SM 2320B
	Alkalinity	96.5	5.0	0.79	mg/L			1	SM 2320B
	Hydroxide Alkalinity	0.79	5.0	0.79	mg/L	U		1	SM 2320B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: MAL Batch Start Date: 12/13/2013

Reporting Units: mg/L Analytical Batch No.: 197566

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	10:04	Nitrate Nitrite as N	1.03	1.00	103	90-110		WTno3+2IM2_00242
8	ICB	10:05	Nitrate Nitrite as N	0.047				U	
55	CCV	11:17	Nitrate Nitrite as N	0.952	1.00	95	90-110		WTno3+2IM2_00242
56	CCB	11:18	Nitrate Nitrite as N	0.047				U	
67	CCV	11:34	Nitrate Nitrite as N	0.949	1.00	95	90-110		WTno3+2IM2_00242
68	CCB	11:36	Nitrate Nitrite as N	0.047				U	
79	CCV	11:52	Nitrate Nitrite as N	0.941	1.00	94	90-110		WTno3+2IM2_00242
80	CCB	11:53	Nitrate Nitrite as N	0.047				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: SEB Batch Start Date: 12/31/2013

Reporting Units: mg/L Analytical Batch No.: 200863

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	14:03	Nitrate Nitrite as N	0.951	1.00	95	90-110		WTno3+2IM2_00245
8	ICB	14:06	Nitrate Nitrite as N	0.047				U	
19	CCV	14:23	Nitrate Nitrite as N	0.947	1.00	95	90-110		WTno3+2IM2_00245
20	CCB	14:25	Nitrate Nitrite as N	0.047				U	
31	CCV	14:42	Nitrate Nitrite as N	1.01	1.00	101	90-110		WTno3+2IM2_00245
32	CCB	14:45	Nitrate Nitrite as N	0.047				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: SEB Batch Start Date: 01/02/2014

Reporting Units: mg/L Analytical Batch No.: 201031

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	12:28	Nitrate Nitrite as N	1.03	1.00	103	90-110		WTno3+2IM2_00245
8	ICB	12:29	Nitrate Nitrite as N	0.047				U	
19	CCV	12:52	Nitrate Nitrite as N	1.02	1.00	102	90-110		WTno3+2IM2_00245
20	CCB	12:54	Nitrate Nitrite as N	0.047				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: RAK Batch Start Date: 12/14/2013

Reporting Units: mg/L Analytical Batch No.: 197786

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:10	Orthophosphate as P	0.203	0.200	101	90-110		WTphosSS1_00018
2	ICB	09:10	Orthophosphate as P	0.010				U	
13	CCV	09:45	Orthophosphate as P	0.203	0.200	101	90-110		WTphosSS1_00018
14	CCB	09:45	Orthophosphate as P	0.010				U	
25	CCV	11:30	Orthophosphate as P	0.203	0.200	101	90-110		WTphosSS1_00018
26	CCB	11:30	Orthophosphate as P	0.010				U	
31	CCV	11:30	Orthophosphate as P	0.203	0.200	101	90-110		WTphosSS1_00018
32	CCB	11:30	Orthophosphate as P	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: MAL Batch Start Date: 12/21/2013

Reporting Units: mg/L Analytical Batch No.: 199349

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	11:00	Total Organic Carbon	52.19	50.0	104	90-110		WTtocSP2_00019
2	ICB	11:20	Total Organic Carbon	0.30				U	
13	CCV	15:20	Total Organic Carbon	52.54	50.0	105	90-110		WTtocSP2_00019
14	CCB	15:41	Total Organic Carbon	0.30				U	
25	CCV	19:25	Total Organic Carbon	54.39	50.0	109	90-110		WTtocSP2_00019
26	CCB	19:45	Total Organic Carbon	0.30				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: SEB Batch Start Date: 12/23/2013

Reporting Units: mg/L Analytical Batch No.: 199611

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	16:58	Ammonia (as N)	1.95	2.00	97	90-110		WTamnSS1_00005
8	ICB	17:00	Ammonia (as N)	0.080				U	
17	CCV	17:14	Ammonia (as N)	2.02	2.00	101	90-110		WTamnSS1_00005
18	CCB	17:15	Ammonia (as N)	0.080				U	
29	CCV	17:32	Ammonia (as N)	2.02	2.00	101	90-110		WTamnSS1_00005
30	CCB	17:34	Ammonia (as N)	0.080				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: SEB Batch Start Date: 12/24/2013

Reporting Units: mg/L Analytical Batch No.: 199783

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	12:15	Ammonia (as N)	1.92	2.00	96	90-110		WTamnSS1_00005
8	ICB	12:16	Ammonia (as N)	0.080				U	
17	CCV	12:30	Ammonia (as N)	2.03	2.00	101	90-110		WTamnSS1_00005
18	CCB	12:31	Ammonia (as N)	0.080				U	
29	CCV	12:49	Ammonia (as N)	2.01	2.00	101	90-110		WTamnSS1_00005
30	CCB	12:50	Ammonia (as N)	0.080				U	
32	CCV	12:55	Ammonia (as N)	2.02	2.00	101	90-110		WTamnSS1_00005
33	CCB	12:57	Ammonia (as N)	0.080				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Analyst: YAH Batch Start Date: 12/24/2013

Reporting Units: SU Analytical Batch No.: 199830

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:10	pH	7.030	7.00	100	99-101		WTpHCCV_00020
11	CCV	15:32	pH	7.040	7.00	101	99-101		WTpHCCV_00020
17	CCV	15:46	pH	7.020	7.00	100	99-101		WTpHCCV_00020

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Analyst: KRC Batch Start Date: 12/16/2013

Reporting Units: mg/L Analytical Batch No.: 157769

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
49	CCV	20:51	Bromide	1.64	2.00	82	90-110		IC_ANION_LCS__00023
			Chloride	17.68	20.0	88	90-110		IC_ANION_LCS__00023
			Fluoride	1.80	2.00	90	90-110		IC_ANION_LCS__00023
			Sulfate	18.48	20.0	92	90-110		IC_ANION_LCS__00023
50	CCB	21:01	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	
61	CCV	22:52	Bromide	1.65	2.00	83	90-110		IC_ANION_LCS__00023
			Chloride	18.07	20.0	90	90-110		IC_ANION_LCS__00023
			Fluoride	1.80	2.00	90	90-110		IC_ANION_LCS__00023
			Sulfate	18.57	20.0	93	90-110		IC_ANION_LCS__00023
62	CCB	23:03	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	
73	CCV	00:54	Bromide	1.60	2.00	80	90-110		IC_ANION_LCS__00023
			Chloride	18.39	20.0	92	90-110		IC_ANION_LCS__00023
			Fluoride	1.82	2.00	91	90-110		IC_ANION_LCS__00023
			Sulfate	18.74	20.0	94	90-110		IC_ANION_LCS__00023
74	CCB	01:04	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Analyst: KAC Batch Start Date: 12/17/2013

Reporting Units: mg/L Analytical Batch No.: 158039

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	17:31	Bromide	1.92	2.00	96	90-110		IC_ANION_LCS__00023
			Chloride	19.89	20.0	99	90-110		IC_ANION_LCS__00023
			Fluoride	2.03	2.00	102	90-110		IC_ANION_LCS__00023
			Sulfate	20.01	20.0	100	90-110		IC_ANION_LCS__00023
2	CCB	17:41	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	
13	CCV	19:33	Bromide	1.91	2.00	95	90-110		IC_ANION_LCS__00023
			Chloride	19.94	20.0	100	90-110		IC_ANION_LCS__00023
			Fluoride	2.02	2.00	101	90-110		IC_ANION_LCS__00023
			Sulfate	19.92	20.0	100	90-110		IC_ANION_LCS__00023
14	CCB	19:43	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	
25	CCV	21:34	Bromide	1.86	2.00	93	90-110		IC_ANION_LCS__00023
			Chloride	19.88	20.0	99	90-110		IC_ANION_LCS__00023
			Fluoride	1.98	2.00	99	90-110		IC_ANION_LCS__00023
			Sulfate	19.88	20.0	99	90-110		IC_ANION_LCS__00023
26	CCB	21:45	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Analyst: KAC Batch Start Date: 12/17/2013

Reporting Units: mg/L Analytical Batch No.: 158052

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	21:34	Bromide	1.86	2.00	93	90-110		IC_ANION_LCS__00023
			Chloride	19.88	20.0	99	90-110		IC_ANION_LCS__00023
			Fluoride	1.98	2.00	99	90-110		IC_ANION_LCS__00023
			Sulfate	19.88	20.0	99	90-110		IC_ANION_LCS__00023
26	CCB	21:45	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	
37	CCV	23:36	Bromide	1.92	2.00	96	90-110		IC_ANION_LCS__00023
			Chloride	20.05	20.0	100	90-110		IC_ANION_LCS__00023
			Fluoride	2.02	2.00	101	90-110		IC_ANION_LCS__00023
			Sulfate	20.08	20.0	100	90-110		IC_ANION_LCS__00023
38	CCB	23:46	Bromide	0.073				U	
			Chloride	0.28				U	
			Fluoride	0.0060				U	
			Sulfate	0.35				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Analyst: EGN Batch Start Date: 12/26/2013

Reporting Units: mg/L Analytical Batch No.: 159583

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	16:21	Bicarbonate Alkalinity as CaCO3	14.66					
			Carbonate Alkalinity as CaCO3	79.17					
			Alkalinity	93.83	100	94	90-110		ALK 100_00123
			Hydroxide Alkalinity	0.79				U	
5	CCB	16:27	Bicarbonate Alkalinity as CaCO3	1.05				J	
			Carbonate Alkalinity as CaCO3	0.950				J	
			Alkalinity	2.00				J	
			Hydroxide Alkalinity	0.79				U	
16	CCV	17:35	Bicarbonate Alkalinity as CaCO3	21.52					
			Carbonate Alkalinity as CaCO3	73.52					
			Alkalinity	95.04	100	95	90-110		ALK 100_00123
			Hydroxide Alkalinity	0.79				U	
17	CCB	17:41	Bicarbonate Alkalinity as CaCO3	1.48				J	
			Carbonate Alkalinity as CaCO3	0.79				U	
			Alkalinity	1.48				J	
			Hydroxide Alkalinity	0.79				U	
21	CCV	18:06	Bicarbonate Alkalinity as CaCO3	15.82					
			Carbonate Alkalinity as CaCO3	79.67					
			Alkalinity	95.50	100	96	90-110		ALK 100_00123
			Hydroxide Alkalinity	0.79				U	
22	CCB	18:12	Bicarbonate Alkalinity as CaCO3	1.32				J	
			Carbonate Alkalinity as CaCO3	0.79				U	
			Alkalinity	1.32				J	
			Hydroxide Alkalinity	0.79				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 200863 Date: 12/31/2013 14:07							
353.2	MB 460-200863/9	Nitrate as N	0.047	U	mg/L	0.10	1
353.2	MB 460-200863/9	Nitrate Nitrite as N	0.047	U	mg/L	0.10	1
353.2	MB 460-200863/9	Nitrite as N	0.0041	U	mg/L	0.10	1
Batch ID: 201031 Date: 01/02/2014 12:31							
353.2	MB 460-201031/9	Nitrate Nitrite as N	0.047	U	mg/L	0.10	1
Batch ID: 199611 Date: 12/23/2013 17:02 Prep Batch: 199450 Date: 12/23/2013 06:30							
4500 NH3 H	MB 460-199450/1-A	Ammonia (as N)	0.080	U	mg/L	0.10	1
Batch ID: 199783 Date: 12/24/2013 12:18 Prep Batch: 199718 Date: 12/24/2013 06:30							
4500 NH3 H	MB 460-199718/1-A	Ammonia (as N)	0.080	U	mg/L	0.10	1
Batch ID: 200246 Date: 12/26/2013 11:14							
SM 2320B	MB 460-200246/2	Bicarbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
SM 2320B	MB 460-200246/2	Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
SM 2320B	MB 460-200246/2	Alkalinity	5.0	U	mg/L	5.0	1
SM 2320B	MB 460-200246/2	Hydroxide Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 200035 Date: 12/26/2013 11:00							
SM 2340C	MB 460-200035/1	Hardness as calcium carbonate	1.6	U	mg/L	5.0	1
Batch ID: 198189 Date: 12/17/2013 07:17							
SM 2540D	MB 460-198189/1	Total Suspended Solids	1.0	U	mg/L	1.0	1
Batch ID: 198448 Date: 12/18/2013 08:50							
SM 2540D	MB 460-198448/1	Total Suspended Solids	1.0	U	mg/L	1.0	1
Batch ID: 199830 Date: 12/24/2013 15:12							
SM 4500 H+ B	MB 460-199830/2	pH	4.780		SU		1
Batch ID: 197786 Date: 12/14/2013 09:10							
SM 4500 P E	MB 460-197786/3	Orthophosphate as P	0.010	U	mg/L	0.030	1
Batch ID: 199349 Date: 12/21/2013 11:39							
SM 5310B	MB 460-199349/3	Total Organic Carbon	0.30	U	mg/L	1.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 157769 Date: 12/16/2013 21:21							
300.0	MB 480-157769/52	Bromide	0.073	U ^	mg/L	0.20	1
300.0	MB 480-157769/52	Chloride	0.28	U ^	mg/L	0.50	1
300.0	MB 480-157769/52	Fluoride	0.0060	U	mg/L	0.050	1
300.0	MB 480-157769/52	Sulfate	0.35	U	mg/L	2.0	1
Batch ID: 158039 Date: 12/17/2013 18:02							
300.0	MB 480-158039/4	Bromide	0.073	U	mg/L	0.20	1
300.0	MB 480-158039/4	Chloride	0.28	U	mg/L	0.50	1
300.0	MB 480-158039/4	Fluoride	0.0060	U	mg/L	0.050	1
300.0	MB 480-158039/4	Sulfate	0.35	U	mg/L	2.0	1
Batch ID: 158052 Date: 12/17/2013 22:05							
300.0	MB 480-158052/28	Bromide	0.073	U	mg/L	0.20	1
300.0	MB 480-158052/28	Chloride	0.28	U	mg/L	0.50	1
300.0	MB 480-158052/28	Fluoride	0.0060	U	mg/L	0.050	1
300.0	MB 480-158052/28	Sulfate	0.35	U	mg/L	2.0	1
Batch ID: 159583 Date: 12/26/2013 16:33							
SM 2320B	MB 480-159583/6	Bicarbonate Alkalinity as CaCO3	0.79	U	mg/L	5.0	1
SM 2320B	MB 480-159583/6	Carbonate Alkalinity as CaCO3	0.79	U	mg/L	5.0	1
SM 2320B	MB 480-159583/6	Alkalinity	0.79	U	mg/L	5.0	1
SM 2320B	MB 480-159583/6	Hydroxide Alkalinity	0.79	U	mg/L	5.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 200863	Date: 12/31/2013 14:34										
353.2	460-68263-3	Nitrate as N	0.047	U	mg/L						H
353.2	460-68263-3 MS	Nitrate as N	0.432		mg/L	0.500	86	67-130			
353.2	460-68263-3	Nitrate Nitrite as N	0.047	U	mg/L						H
353.2	460-68263-3 MS	Nitrate Nitrite as N	0.911		mg/L	1.00	91	66-124			
353.2	460-68263-3	Nitrite as N	0.020	J	mg/L						H
353.2	460-68263-3 MS	Nitrite as N	0.479		mg/L	0.500	92	84-109			
Batch ID: 201031	Date: 01/02/2014 12:46										
353.2	460-68263-1	Nitrate Nitrite as N	0.047	U	mg/L						
353.2	460-68263-1 MS	Nitrate Nitrite as N	0.939		mg/L	1.00	94	66-124			
Batch ID: 199611	Date: 12/23/2013 17:06	Prep Batch: 199450	Date: 12/23/2013 06:30								
4500 NH3 H	460-68263-8	Ammonia (as N)	0.19		mg/L						
4500 NH3 H	460-68263-8 MS	Ammonia (as N)	1.21		mg/L	1.00	101	60-147			
Batch ID: 199783	Date: 12/24/2013 12:22	Prep Batch: 199718	Date: 12/24/2013 06:30								
4500 NH3 H	460-68504-F-4 -B	Ammonia (as N)	2.6		mg/L						
4500 NH3 H	460-68504-F-4 -B MS	Ammonia (as N)	3.23		mg/L	1.00	63	60-147			
Batch ID: 197786	Date: 12/14/2013 11:30										
SM 4500 P E	460-68263-9	Orthophosphate as P	0.090		mg/L						
SM 4500 P E	460-68263-9 MS	Orthophosphate as P	0.300		mg/L	0.200	105	82-118			
Batch ID: 199349	Date: 12/21/2013 12:57										
SM 5310B	460-68263-1	Total Organic Carbon	1.3		mg/L						
SM 5310B	460-68263-1 MS	Total Organic Carbon	56.31		mg/L	50.0	110	80-120			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 200863	Date: 12/31/2013 14:36										
353.2	460-68263-3 MSD	Nitrate as N	0.432		mg/L	0.500	86	67-130	0	34	
353.2	460-68263-3 MSD	Nitrate Nitrite as N	0.913		mg/L	1.00	91	66-124	0	19	
353.2	460-68263-3 MSD	Nitrite as N	0.481		mg/L	0.500	92	84-109	0	10	
Batch ID: 201031	Date: 01/02/2014 12:47										
353.2	460-68263-1 MSD	Nitrate Nitrite as N	0.944		mg/L	1.00	94	66-124	1	19	
Batch ID: 199611	Date: 12/23/2013 17:08	Prep Batch: 199450	Date: 12/23/2013 06:30								
4500 NH3 H	460-68263-8 MSD	Ammonia (as N)	1.21		mg/L	1.00	101	60-147	0	16	
Batch ID: 199783	Date: 12/24/2013 12:24	Prep Batch: 199718	Date: 12/24/2013 06:30								
4500 NH3 H	460-68504-F-4 -C MSD	Ammonia (as N)	3.35		mg/L	1.00	75	60-147	4	16	
Batch ID: 197786	Date: 12/14/2013 11:30										
SM 4500 P E	460-68263-9 MSD	Orthophosphate as P	0.297		mg/L	0.200	104	82-118	1	10	
Batch ID: 199349	Date: 12/21/2013 13:19										
SM 5310B	460-68263-1 MSD	Total Organic Carbon	56.25		mg/L	50.0	110	80-120	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 157769	Date: 12/16/2013 22:42										
300.0	460-68263-5	Sulfate	12.2		mg/L						
300.0	460-68263-5 MS	Sulfate	37.63		mg/L	25.0	102	90-110			
Batch ID: 158039	Date: 12/17/2013 21:14										
300.0	460-68263-7	Bromide	0.073	U	mg/L						
300.0	460-68263-7 MS	Bromide	2.49		mg/L	2.50	100	90-110			
300.0	460-68263-7	Chloride	43.9		mg/L						
300.0	460-68263-7 MS	Chloride	67.34		mg/L	25.0	94	90-110			
300.0	460-68263-7	Fluoride	1.1		mg/L						
300.0	460-68263-7 MS	Fluoride	3.45		mg/L	2.50	92	90-110			
300.0	460-68263-7	Sulfate	8.1		mg/L						
300.0	460-68263-7 MS	Sulfate	32.29		mg/L	25.0	97	90-110			
Batch ID: 159583	Date: 12/26/2013 18:00										
SM 2320B	480-52359-I-3	Alkalinity	221		mg/L						
SM 2320B	480-52359-I-3 MS	Alkalinity	258.1		mg/L	100	37	42-116			F

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 158039	Date: 12/17/2013 21:24										
300.0	460-68263-7 MSD	Bromide	2.56		mg/L	2.50	102	90-110	3	20	
300.0	460-68263-7 MSD	Chloride	67.51		mg/L	25.0	94	90-110	0	20	
300.0	460-68263-7 MSD	Fluoride	3.45		mg/L	2.50	92	90-110	0	20	
300.0	460-68263-7 MSD	Sulfate	32.50		mg/L	25.0	98	90-110	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 200246	Date: 12/26/2013 12:24							
SM 2320B		460-68260-G-1	Bicarbonate Alkalinity as CaCO3	213	mg/L			
SM 2320B		460-68260-G-1 DU	Bicarbonate Alkalinity as CaCO3	215.1	mg/L	1	27	
SM 2320B		460-68260-G-1	Carbonate Alkalinity as CaCO3	5.0	mg/L			U
SM 2320B		460-68260-G-1 DU	Carbonate Alkalinity as CaCO3	5.0	mg/L	NC	27	U
SM 2320B		460-68260-G-1	Alkalinity	213	mg/L			
SM 2320B		460-68260-G-1 DU	Alkalinity	215.1	mg/L	1	27	
SM 2320B		460-68260-G-1	Hydroxide Alkalinity	5.0	mg/L			U
SM 2320B		460-68260-G-1 DU	Hydroxide Alkalinity	5.0	mg/L	NC	27	U
Batch ID: 200035	Date: 12/26/2013 11:00							
SM 2340C	GW0026	460-68263-11	Hardness as calcium carbonate	84.0	mg/L			
SM 2340C	GW0026	460-68263-11 DU	Hardness as calcium carbonate	84.00	mg/L	0	10	
Batch ID: 198189	Date: 12/17/2013 07:17							
SM 2540D		460-68392-A-5	Total Suspended Solids	158	mg/L			
SM 2540D		460-68392-A-5 DU	Total Suspended Solids	140.0	mg/L	12	5	F
Batch ID: 198448	Date: 12/18/2013 08:50							
SM 2540D		460-68392-A-3	Total Suspended Solids	104	mg/L			
SM 2540D		460-68392-A-3 DU	Total Suspended Solids	108.0	mg/L	4	5	
Batch ID: 198448	Date: 12/18/2013 08:50							
SM 2540D		460-68392-A-6	Total Suspended Solids	190	mg/L			
SM 2540D		460-68392-A-6 DU	Total Suspended Solids	166.0	mg/L	13	5	F
Batch ID: 199830	Date: 12/24/2013 15:19							
SM 4500 H+ B	GW0016	460-68263-1	pH	8.14	SU			
SM 4500 H+ B	GW0016	460-68263-1 DU	pH	8.140	SU	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 159583	Date: 12/26/2013 17:48							
SM 2320B		480-52359-I-2	Bicarbonate Alkalinity as CaCO3	323	mg/L			
SM 2320B		480-52359-I-2 DU	Bicarbonate Alkalinity as CaCO3	320.4	mg/L	0.8	20	
SM 2320B		480-52359-I-2	Carbonate Alkalinity as CaCO3	0.79	mg/L			U
SM 2320B		480-52359-I-2 DU	Carbonate Alkalinity as CaCO3	0.79	mg/L	NC	20	U
SM 2320B		480-52359-I-2	Alkalinity	323	mg/L			
SM 2320B		480-52359-I-2 DU	Alkalinity	320.4	mg/L	0.8	20	
SM 2320B		480-52359-I-2	Hydroxide Alkalinity	0.79	mg/L			U
SM 2320B		480-52359-I-2 DU	Hydroxide Alkalinity	0.79	mg/L	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 199611	Date: 12/23/2013 17:03		Prep Batch: 199450			Date: 12/23/2013 06:30					
						LCS Source: WTamnIM1_00035					
4500 NH3 H	LCS 460-199450/2-A	Ammonia (as N)	0.998		mg/L	1.00	100	85-117			
Batch ID: 199783	Date: 12/24/2013 12:19		Prep Batch: 199718			Date: 12/24/2013 06:30					
						LCS Source: WTamnIM1_00035					
4500 NH3 H	LCS 460-199718/2-A	Ammonia (as N)	0.989		mg/L	1.00	99	85-117			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 197566	Date: 12/13/2013 11:29										
						LCS Source:	WTntritLCS_00020				
353.2	LCSSRM 460-197566/63	Nitrite as N	0.587		mg/L	0.612	96.0	88.9-11 0.5			
Batch ID: 197566	Date: 12/13/2013 11:30										
						LCS Source:	WTno3LCS_00014				
353.2	LCSSRM 460-197566/64	Nitrate as N	1.41		mg/L	1.51	93.5	87.4-11 2.6			^
353.2	LCSSRM 460-197566/64	Nitrate Nitrite as N	1.41		mg/L	1.51	93.5	85.4-10 9.9			
Batch ID: 200863	Date: 12/31/2013 14:08										
						LCS Source:	WTntritLCS_00020				
353.2	LCSSRM 460-200863/10	Nitrite as N	0.567		mg/L	0.612	92.6	88.9-11 0.5			
Batch ID: 200863	Date: 12/31/2013 14:10										
						LCS Source:	WTno3LCS_00014				
353.2	LCSSRM 460-200863/11	Nitrate as N	1.33		mg/L	1.51	88.0	87.4-11 2.6			
353.2	LCSSRM 460-200863/11	Nitrate Nitrite as N	1.33		mg/L	1.51	88.0	85.4-10 9.9			
Batch ID: 201031	Date: 01/02/2014 12:37										
						LCS Source:	WTno3LCS_00014				
353.2	LCSSRM 460-201031/11	Nitrate Nitrite as N	1.35		mg/L	1.51	89.3	85.4-10 9.9			
Batch ID: 200246	Date: 12/26/2013 11:21										
						LCS Source:	WTalkLCS_00093				
SM 2320B	LCSSRM 460-200246/3	Alkalinity	35.32		mg/L	37.7	93.7	90.9-11 0.0			
Batch ID: 200035	Date: 12/26/2013 11:00										
						LCS Source:	WThardLCS0001_00012				
SM 2340C	LCSSRM 460-200035/2	Hardness as calcium carbonate	204.0		mg/L	208	98.1	91.3-10 9.1			
Batch ID: 198189	Date: 12/17/2013 07:17										
						LCS Source:	WTtssLCS_00045				
SM 2540D	LCSSRM 460-198189/2	Total Suspended Solids	70.00		mg/L	75.5	92.7	82.6-10 7.9			
Batch ID: 198448	Date: 12/18/2013 08:50										
						LCS Source:	WTtssLCS_00045				
SM 2540D	LCSSRM 460-198448/2	Total Suspended Solids	68.00		mg/L	75.5	90.1	82.6-10 7.9			
Batch ID: 199830	Date: 12/24/2013 15:14										
						LCS Source:	WTpHLCS_00015				
SM 4500 H+ B	LCSSRM 460-199830/3	pH	7.000		SU	7.03	99.6	98.0-10 2.0			
Batch ID: 197786	Date: 12/14/2013 09:10										
						LCS Source:	WTophosLCS_00004				
SM 4500 P E	LCSSRM 460-197786/4	Orthophosphate as P	5.79		mg/L	5.34	108.5	86.1-10 9.0			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 199349	Date: 12/21/2013 12:09										
						LCS Source:	WTtocLCS_00022				
SM 5310B	LCSSRM 460-199349/4	Total Organic Carbon	75.58		mg/L	72.0	105.0	86.9-113.1			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 157769	Date: 12/16/2013 21:11										
						LCS Source: IC_ANION_LCS__00023					
300.0	LCS 480-157769/51	Bromide	1.65		mg/L	2.00	82	90-110			^ *
300.0	LCS 480-157769/51	Chloride	17.23		mg/L	20.0	86	90-110			^ *
300.0	LCS 480-157769/51	Fluoride	1.80		mg/L	2.00	90	90-110			
300.0	LCS 480-157769/51	Sulfate	18.55		mg/L	20.0	93	90-110			
Batch ID: 158039	Date: 12/17/2013 17:52										
						LCS Source: IC_ANION_LCS__00023					
300.0	LCS 480-158039/3	Bromide	1.92		mg/L	2.00	96	90-110			
300.0	LCS 480-158039/3	Chloride	19.93		mg/L	20.0	100	90-110			
300.0	LCS 480-158039/3	Fluoride	2.05		mg/L	2.00	102	90-110			
300.0	LCS 480-158039/3	Sulfate	20.02		mg/L	20.0	100	90-110			
Batch ID: 158052	Date: 12/17/2013 21:55										
						LCS Source: IC_ANION_LCS__00023					
300.0	LCS 480-158052/27	Bromide	1.87		mg/L	2.00	94	90-110			
300.0	LCS 480-158052/27	Chloride	19.85		mg/L	20.0	99	90-110			
300.0	LCS 480-158052/27	Fluoride	1.99		mg/L	2.00	99	90-110			
300.0	LCS 480-158052/27	Sulfate	19.91		mg/L	20.0	100	90-110			
Batch ID: 159583	Date: 12/26/2013 16:39										
						LCS Source: ALK 100_00123					
SM 2320B	LCS 480-159583/7	Alkalinity	97.07		mg/L	100	97	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Lachat1

Method: 353.2 MDL Date: 04/22/2013 11:28

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate Nitrite as N		0.1	0.0474

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Lachat1

Method: 353.2 XMDL Date: 04/22/2013 11:29

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate Nitrite as N		0.1	0.0474

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340C MDL Date: 12/12/2012 12:42

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hardness as calcium carbonate		5	1.62

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340C XMDL Date: 12/12/2012 12:43

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		5	1.62

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Auto_Titrator

Method: SM 2320B MDL Date: 01/03/2013 12:46

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	3.54
Bicarbonate Alkalinity as CaCO3		5	3.54
Carbonate Alkalinity as CaCO3		5	3.54
Hydroxide Alkalinity		5	3.54

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Auto_Titrator

Method: SM 2320B XMDL Date: 01/03/2013 12:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	3.54
Bicarbonate Alkalinity as CaCO3		5	3.54
Carbonate Alkalinity as CaCO3		5	3.54
Hydroxide Alkalinity		5	3.54

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D MDL Date: 11/21/2012 16:34

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Suspended Solids		10	2.57

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D XMDL Date: 11/21/2012 16:34

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		10	2.57

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: WetPhosSpec

Method: SM 4500 P E MDL Date: 01/04/2013 09:20

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Orthophosphate as P		0.03	0.01

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: WetPhosSpec

Method: SM 4500 P E XMDL Date: 01/04/2013 09:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Orthophosphate as P		0.03	0.01

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: TOC_Shimadzu3

Method: SM 5310B MDL Date: 10/16/2012 11:56

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon		1	0.296

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: TOC_Shimadzu3

Method: SM 5310B XMDL Date: 10/16/2012 11:57

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon		1	0.296

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Lachat2

Method: 4500 NH3 H MDL Date: 02/07/2013 21:40

Prep Method: SM 4500 NH3 B

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia (as N)		0.1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: Lachat2

Method: 4500 NH3 H XMDL Date: 02/07/2013 21:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia (as N)		0.1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 4500 H+ B RL Date: 01/01/2007 10:02

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: IC-1

Method: 300.0 MDL Date: 02/09/2012 15:09

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073
Chloride		0.5	0.282
Fluoride		0.05	0.006
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: IC-1

Method: 300.0 XMDL Date: 02/09/2012 15:10

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073
Chloride		0.5	0.282
Fluoride		0.05	0.006
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: PC_Titrator

Method: SM 2320B MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	0.79
Bicarbonate Alkalinity as CaCO3		5	0.79
Carbonate Alkalinity as CaCO3		5	0.79
Hydroxide Alkalinity		5	0.79

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-68263-1

SDG Number:

Matrix: Water Instrument ID: PC_Titrator

Method: SM 2320B XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	0.79
Bicarbonate Alkalinity as CaCO3		5	0.79
Carbonate Alkalinity as CaCO3		5	0.79
Hydroxide Alkalinity		5	0.79

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Prep Method: SM 4500 NH3 B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-199450/1-A	12/23/2013 06:30	199450		50.0	50.0
LCS 460-199450/2-A	12/23/2013 06:30	199450		50.0	50.0
460-68263-8	12/23/2013 06:30	199450		50.0	50.0
460-68263-8 MS	12/23/2013 06:30	199450		50.0	50.0
460-68263-8 MSD	12/23/2013 06:30	199450		50.0	50.0
460-68263-1	12/23/2013 06:30	199450		50.0	50.0
460-68263-2	12/23/2013 06:30	199450		50.0	50.0
460-68263-3	12/23/2013 06:30	199450		50.0	50.0
460-68263-4	12/23/2013 06:30	199450		50.0	50.0
460-68263-5	12/23/2013 06:30	199450		50.0	50.0
460-68263-6	12/23/2013 06:30	199450		50.0	50.0
460-68263-7	12/23/2013 06:30	199450		50.0	50.0

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Prep Method: SM 4500 NH3 B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-199718/1-A	12/24/2013 06:30	199718		50.0	50.0
LCS 460-199718/2-A	12/24/2013 06:30	199718		50.0	50.0
460-68504-F-4-B MS	12/24/2013 06:30	199718		50.0	50.0
460-68504-F-4-C MSD	12/24/2013 06:30	199718		50.0	50.0
460-68263-9	12/24/2013 06:30	199718		50.0	50.0
460-68263-10	12/24/2013 06:30	199718		50.0	50.0
460-68263-11	12/24/2013 06:30	199718		50.0	50.0

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 12/13/2013 09:54 End Date: 12/13/2013 11:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NNO32	NO3																	
ZZZZZZ			09:54																				
ZZZZZZ			09:56																				
ZZZZZZ			09:57																				
ZZZZZZ			09:59																				
ZZZZZZ			10:00																				
ZZZZZZ			10:01																				
ICV 460-197566/7	1		10:04	X	X	X																	
ICB 460-197566/8	1		10:05		X																		
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
ZZZZZZ			10:10																				
ZZZZZZ			10:11																				
ZZZZZZ			10:12																				
ZZZZZZ			10:14																				
ZZZZZZ			10:15																				
ZZZZZZ			10:20																				
ZZZZZZ			10:21																				
ZZZZZZ			10:23																				
CCV 460-197566/19			10:24																				
CCB 460-197566/20			10:26																				
ZZZZZZ			10:27																				
ZZZZZZ			10:28																				
ZZZZZZ			10:30																				
ZZZZZZ			10:31																				
ZZZZZZ			10:33																				
ZZZZZZ			10:34																				
ZZZZZZ			10:36																				
ZZZZZZ			10:37																				
ZZZZZZ			10:39																				
ZZZZZZ			10:40																				
CCV 460-197566/31			10:42																				
CCB 460-197566/32			10:43																				
ZZZZZZ			10:45																				
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
ZZZZZZ			10:52																				
ZZZZZZ			10:53																				
ZZZZZZ			10:55																				
ZZZZZZ			10:56																				
ZZZZZZ			10:58																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 12/13/2013 09:54 End Date: 12/13/2013 11:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NNO32	NO3																	
CCV 460-197566/43			10:59																				
CCB 460-197566/44			11:01																				
ZZZZZZ			11:02																				
ZZZZZZ			11:04																				
ZZZZZZ			11:05																				
ZZZZZZ			11:06																				
ZZZZZZ			11:08																				
ZZZZZZ			11:09																				
ZZZZZZ			11:11																				
ZZZZZZ			11:12																				
ZZZZZZ			11:14																				
ZZZZZZ			11:15																				
CCV 460-197566/55	1		11:17	X	X	X																	
CCB 460-197566/56	1		11:18		X																		
ZZZZZZ			11:20																				
ZZZZZZ			11:21																				
ZZZZZZ			11:23																				
ZZZZZZ			11:24																				
ZZZZZZ			11:26																				
ZZZZZZ			11:27																				
LCSSRM 460-197566/63	1	T	11:29	X	X																		
LCSSRM 460-197566/64	1	T	11:30		X	X																	
ZZZZZZ			11:31																				
ZZZZZZ			11:33																				
CCV 460-197566/67	1		11:34	X	X	X																	
CCB 460-197566/68	1		11:36		X																		
ZZZZZZ			11:37																				
ZZZZZZ			11:39																				
ZZZZZZ			11:40																				
ZZZZZZ			11:42																				
ZZZZZZ			11:43																				
ZZZZZZ			11:45																				
ZZZZZZ			11:46																				
ZZZZZZ			11:48																				
ZZZZZZ			11:49																				
ZZZZZZ			11:51																				
CCV 460-197566/79	1		11:52	X	X	X																	
CCB 460-197566/80	1		11:53		X																		
ZZZZZZ			11:55																				
ZZZZZZ			11:56																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 12/13/2013 09:54 End Date: 12/13/2013 11:56

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 12/31/2013 13:53 End Date: 12/31/2013 16:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NNO32	NO3																	
ZZZZZZ			13:53																				
ZZZZZZ			13:55																				
ZZZZZZ			13:56																				
ZZZZZZ			13:58																				
ZZZZZZ			13:59																				
ZZZZZZ			14:01																				
ICV 460-200863/7	1		14:03	X	X	X																	
ICB 460-200863/8	1		14:06		X																		
MB 460-200863/9	1	T	14:07		X																		
LCSSRM 460-200863/10	1	T	14:08	X	X																		
LCSSRM 460-200863/11	1	T	14:10		X	X																	
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:15																				
460-68263-3	1	T	14:17		X																		
460-68263-4	1	T	14:18		X																		
460-68263-5	1	T	14:20		X																		
460-68263-6	1	T	14:21		X																		
CCV 460-200863/19	1		14:23	X	X	X																	
CCB 460-200863/20	1		14:25		X																		
460-68263-7	1	T	14:27		X																		
460-68263-8	1	T	14:28		X																		
460-68263-9	1	T	14:30		X																		
460-68263-10	1	T	14:31		X																		
460-68263-11	1	T	14:33		X																		
460-68263-3 MS	1	T	14:34	X	X	X																	
460-68263-3 MSD	1	T	14:36	X	X	X																	
ZZZZZZ			14:37																				
ZZZZZZ			14:39																				
ZZZZZZ			14:40																				
CCV 460-200863/31	1		14:42	X	X	X																	
CCB 460-200863/32	1		14:45		X																		
ZZZZZZ			14:46																				
ZZZZZZ			14:47																				
ZZZZZZ			14:49																				
ZZZZZZ			14:50																				
ZZZZZZ			14:52																				
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:57																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 12/31/2013 13:53 End Date: 12/31/2013 16:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				N-No2	NNO32	NO3																	
CCV 460-200863/43			15:01																				
CCB 460-200863/44			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:06																				
ZZZZZZ			15:08																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
ZZZZZZ			15:15																				
ZZZZZZ			15:17																				
ZZZZZZ			15:18																				
ZZZZZZ			15:20																				
CCV 460-200863/55			15:21																				
CCB 460-200863/56			15:24																				
ZZZZZZ			15:25																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:39																				
ZZZZZZ			15:41																				
ZZZZZZ			15:42																				
ZZZZZZ			15:45																				
CCV 460-200863/67			15:47																				
CCB 460-200863/68			15:51																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			15:59																				
ZZZZZZ			16:01																				
ZZZZZZ			16:02																				
ZZZZZZ			16:04																				
ZZZZZZ			16:05																				
CCV 460-200863/79			16:07																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat1 Method: 353.2

Start Date: 01/02/2014 12:18 End Date: 01/02/2014 12:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				NNO32																			
ZZZZZZ			12:18																				
ZZZZZZ			12:20																				
ZZZZZZ			12:21																				
ZZZZZZ			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:26																				
ICV 460-201031/7	1		12:28	X																			
ICB 460-201031/8	1		12:29	X																			
MB 460-201031/9	1	T	12:31	X																			
ZZZZZZ			12:32																				
LCSSRM 460-201031/11	1	T	12:37	X																			
460-68263-1	1	T	12:40	X																			
460-68263-2	1	T	12:41	X																			
ZZZZZZ			12:43																				
460-68263-1 MS	1	T	12:46	X																			
460-68263-1 MSD	1	T	12:47	X																			
ZZZZZZ			12:49																				
ZZZZZZ			12:50																				
CCV 460-201031/19	1		12:52	X																			
CCB 460-201031/20	1		12:54	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2340C

Start Date: 12/26/2013 11:00 End Date: 12/26/2013 11:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				HardCC																			
MB 460-200035/1	1	T	11:00	X																			
LCSSRM 460-200035/2	1	T	11:00	X																			
460-68263-11	1	T	11:00	X																			
460-68263-11 DU	1	T	11:00	X																			
460-68263-1	1	T	11:00	X																			
460-68263-2	1	T	11:00	X																			
460-68263-3	1	T	11:00	X																			
460-68263-4	1	T	11:00	X																			
460-68263-5	1	T	11:00	X																			
460-68263-6	1	T	11:00	X																			
460-68263-7	1	T	11:00	X																			
460-68263-8	1	T	11:00	X																			
460-68263-9	1	T	11:00	X																			
460-68263-10	1	T	11:00	X																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Auto_Titrator Method: SM 2320B

Start Date: 12/26/2013 11:07 End Date: 12/26/2013 14:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk	BALKCC	CarAlk	OHAlk																
RINSE 460-200246/1			11:07																				
MB 460-200246/2	1	T	11:14	X	X	X	X																
LCSSRM 460-200246/3	1	T	11:21	X																			
ZZZZZZ			12:17																				
460-68260-G-1 DU	1	T	12:24	X	X	X	X																
ZZZZZZ			12:31																				
ZZZZZZ			12:38																				
ZZZZZZ			12:44																				
ZZZZZZ			12:50																				
ZZZZZZ			12:58																				
ZZZZZZ			13:04																				
ZZZZZZ			13:11																				
ZZZZZZ			13:18																				
ZZZZZZ			13:25																				
ZZZZZZ			13:32																				
ZZZZZZ			13:38																				
ZZZZZZ			13:46																				
ZZZZZZ			13:52																				
ZZZZZZ			13:58																				
ZZZZZZ			14:04																				
460-68263-1	1	T	14:11	X	X	X	X																
460-68263-2	1	T	14:18	X	X	X	X																
460-68263-3	1	T	14:24	X	X	X	X																
460-68263-5	1	T	14:32	X	X	X	X																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540D

Start Date: 12/17/2013 07:17 End Date: 12/17/2013 07:17

Lab Sample ID	D/F	Type	Time	Analytes																			
				TSS																			
MB 460-198189/1	1	T	07:17	X																			
LCSSRM 460-198189/2	1	T	07:17	X																			
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
460-68392-A-5 DU	1	T	07:17	X																			
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
ZZZZZZ			07:17																				
460-68263-1	1	T	07:17	X																			
460-68263-2	1	T	07:17	X																			
460-68263-3	1	T	07:17	X																			
460-68263-4	1	T	07:17	X																			
460-68263-5	1	T	07:17	X																			
ZZZZZZ			07:17																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540D

Start Date: 12/18/2013 08:50 End Date: 12/18/2013 08:50

Lab Sample ID	D/F	Type	Time	Analytes																			
				TSS																			
MB 460-198448/1	1	T	08:50	X																			
LCSSRM 460-198448/2	1	T	08:50	X																			
ZZZZZZ			08:50																				
460-68392-A-3 DU	1	T	08:50	X																			
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
460-68263-6	1	T	08:50	X																			
460-68263-7	1	T	08:50	X																			
460-68263-8	1	T	08:50	X																			
460-68263-9	1	T	08:50	X																			
ZZZZZZ			08:50																				
460-68392-A-6 DU	1	T	08:50	X																			
ZZZZZZ			08:50																				
460-68263-10	1	T	08:50	X																			
460-68263-11	1	T	08:50	X																			
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				
ZZZZZZ			08:50																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: WetPhosSpec Method: SM 4500 P E

Start Date: 12/14/2013 09:10 End Date: 12/14/2013 11:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Orthop																			
ICV 460-197786/1	1		09:10	X																			
ICB 460-197786/2	1		09:10	X																			
MB 460-197786/3	1	T	09:10	X																			
LCSSRM 460-197786/4	25	T	09:10	X																			
ZZZZZZ			09:10																				
ZZZZZZ			09:10																				
ZZZZZZ			09:10																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
CCV 460-197786/13	1		09:45	X																			
CCB 460-197786/14	1		09:45	X																			
460-68263-1	1	T	11:30	X																			
460-68263-2	1	T	11:30	X																			
460-68263-3	1	T	11:30	X																			
460-68263-4	1	T	11:30	X																			
460-68263-5	1	T	11:30	X																			
460-68263-6	1	T	11:30	X																			
460-68263-7	1	T	11:30	X																			
460-68263-8	1	T	11:30	X																			
460-68263-9	1	T	11:30	X																			
460-68263-10	1	T	11:30	X																			
CCV 460-197786/25	1		11:30	X																			
CCB 460-197786/26	1		11:30	X																			
460-68263-11	1	T	11:30	X																			
ZZZZZZ			11:30																				
460-68263-9 MS	1	T	11:30	X																			
460-68263-9 MSD	1	T	11:30	X																			
CCV 460-197786/31	1		11:30	X																			
CCB 460-197786/32	1		11:30	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: TOC_Shimadzu3 Method: SM 5310B

Start Date: 12/21/2013 11:00 End Date: 12/22/2013 05:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC																			
ICV 460-199349/1	1		11:00	X																			
ICB 460-199349/2	1		11:20	X																			
MB 460-199349/3	1	T	11:39	X																			
LCSSRM 460-199349/4	1	T	12:09	X																			
460-68263-1	1	T	12:36	X																			
460-68263-1 MS	1	T	12:57	X																			
460-68263-1 MSD	1	T	13:19	X																			
460-68263-2	1	T	13:40	X																			
460-68263-3	1	T	13:59	X																			
460-68263-4	1	T	14:19	X																			
460-68263-5	1	T	14:39	X																			
460-68263-6	1	T	14:58	X																			
CCV 460-199349/13	1		15:20	X																			
CCB 460-199349/14	1		15:41	X																			
460-68263-7	1	T	16:00	X																			
460-68263-8	1	T	16:20	X																			
460-68263-9	1	T	16:39	X																			
460-68263-10	1	T	17:00	X																			
460-68263-11	1	T	17:19	X																			
ZZZZZZ			17:38																				
ZZZZZZ			17:58																				
ZZZZZZ			18:16																				
ZZZZZZ			18:44																				
ZZZZZZ			19:04																				
CCV 460-199349/25	1		19:25	X																			
CCB 460-199349/26	1		19:45	X																			
ZZZZZZ			20:04																				
ZZZZZZ			20:25																				
ZZZZZZ			20:46																				
ZZZZZZ			21:06																				
ZZZZZZ			21:27																				
ZZZZZZ			21:46																				
ZZZZZZ			22:08																				
ZZZZZZ			22:30																				
ZZZZZZ			22:50																				
ZZZZZZ			23:10																				
CCV 460-199349/37			23:31																				
CCB 460-199349/38			23:52																				
ZZZZZZ			00:12																				
ZZZZZZ			00:33																				
ZZZZZZ			00:53																				
ZZZZZZ			01:13																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: TOC_Shimadzu3 Method: SM 5310B

Start Date: 12/21/2013 11:00 End Date: 12/22/2013 05:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC																			
ZZZZZZ			01:34																				
ZZZZZZ			01:55																				
ZZZZZZ			02:16																				
ZZZZZZ			02:37																				
ZZZZZZ			02:58																				
ZZZZZZ			03:19																				
CCV 460-199349/49			03:40																				
CCB 460-199349/50			04:01																				
ZZZZZZ			04:21																				
ZZZZZZ			04:42																				
CCV 460-199349/53			05:04																				
CCB 460-199349/54			05:24																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat2 Method: 4500 NH3 H

Start Date: 12/23/2013 16:48 End Date: 12/23/2013 17:42

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ICV 460-199611/7	1		16:58	X																			
ICB 460-199611/8	1		17:00	X																			
MB 460-199450/1-A	1	T	17:02	X																			
LCS 460-199450/2-A	1	T	17:03	X																			
460-68263-8	1	T	17:05	X																			
460-68263-8 MS	1	T	17:06	X																			
460-68263-8 MSD	1	T	17:08	X																			
460-68263-1	1	T	17:09	X																			
460-68263-2	1	T	17:11	X																			
460-68263-3	1	T	17:12	X																			
CCV 460-199611/17	1		17:14	X																			
CCB 460-199611/18	1		17:15	X																			
460-68263-4	1	T	17:18	X																			
460-68263-5	1	T	17:19	X																			
460-68263-6	1	T	17:21	X																			
460-68263-7	1	T	17:22	X																			
CCV 460-199611/29	1		17:32	X																			
CCB 460-199611/30	1		17:34	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: Lachat2 Method: 4500 NH3 H

Start Date: 12/24/2013 12:05 End Date: 12/24/2013 12:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ICV 460-199783/7	1		12:15	X																			
ICB 460-199783/8	1		12:16	X																			
MB 460-199718/1-A	1	T	12:18	X																			
LCS 460-199718/2-A	1	T	12:19	X																			
460-68504-F-4-B MS	1	T	12:22	X																			
460-68504-F-4-C MSD	1	T	12:24	X																			
CCV 460-199783/17	1		12:30	X																			
CCB 460-199783/18	1		12:31	X																			
460-68263-9	1	T	12:46	X																			
460-68263-10	1	T	12:47	X																			
CCV 460-199783/29	1		12:49	X																			
CCB 460-199783/30	1		12:50	X																			
460-68263-11	1	T	12:53	X																			
CCV 460-199783/32	1		12:55	X																			
CCB 460-199783/33	1		12:57	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 4500 H+ B

Start Date: 12/24/2013 15:10 End Date: 12/24/2013 16:48

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
CCV 460-199830/1	1		15:10	X																			
MB 460-199830/2	1	T	15:12	X																			
LCSSRM 460-199830/3	1	T	15:14	X																			
460-68263-1	1	T	15:17	X																			
460-68263-1 DU	1	T	15:19	X																			
460-68263-2	1	T	15:21	X																			
460-68263-3	1	T	15:23	X																			
460-68263-4	1	T	15:25	X																			
460-68263-5	1	T	15:28	X																			
460-68263-6	1	T	15:30	X																			
CCV 460-199830/11	1		15:32	X																			
460-68263-7	1	T	15:35	X																			
460-68263-8	1	T	15:37	X																			
460-68263-9	1	T	15:39	X																			
460-68263-10	1	T	15:41	X																			
460-68263-11	1	T	15:44	X																			
CCV 460-199830/17	1		15:46	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Instrument ID: IC-1 Method: 300.0

Start Date: 12/16/2013 20:51 End Date: 12/17/2013 01:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				Br	CL-	F	SO4																
CCV 480-157769/49	1		20:51	X	X	X	X																
CCB 480-157769/50	1		21:01	X	X	X	X																
LCS 480-157769/51	1	T	21:11	X	X	X	X																
MB 480-157769/52	1	T	21:21	X	X	X	X																
ZZZZZZ			21:31																				
ZZZZZZ			21:41																				
460-68263-1	1	T	21:52				X																
460-68263-2	1	T	22:02				X																
460-68263-3	1	T	22:12				X																
460-68263-4	1	T	22:22				X																
460-68263-5	1	T	22:32				X																
460-68263-5 MS	1	T	22:42				X																
CCV 480-157769/61	1		22:52	X	X	X	X																
CCB 480-157769/62	1		23:03	X	X	X	X																
460-68263-6	1	T	23:13				X																
460-68263-7	1	T	23:23				X																
460-68263-8	1	T	23:33				X																
460-68263-9	1	T	23:43				X																
460-68263-10	1	T	23:53				X																
460-68263-11	1	T	00:03				X																
CCV 480-157769/73	1		00:54	X	X	X	X																
CCB 480-157769/74	1		01:04	X	X	X	X																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Instrument ID: IC-1 Method: 300.0

Start Date: 12/17/2013 17:31 End Date: 12/17/2013 21:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Br	CL-	F	SO4																
CCV 480-158039/1	1		17:31	X	X	X	X																
CCB 480-158039/2	1		17:41	X	X	X	X																
LCS 480-158039/3	1	T	17:52	X	X	X	X																
MB 480-158039/4	1	T	18:02	X	X	X	X																
ZZZZZZ			18:12																				
ZZZZZZ			18:22																				
ZZZZZZ			18:32																				
ZZZZZZ			18:42																				
ZZZZZZ			18:52																				
ZZZZZZ			19:03																				
ZZZZZZ			19:13																				
ZZZZZZ			19:23																				
CCV 480-158039/13	1		19:33	X	X	X	X																
CCB 480-158039/14	1		19:43	X	X	X	X																
ZZZZZZ			19:53																				
460-68263-1	1	T	20:03	X	X	X																	
460-68263-2	1	T	20:13	X	X	X																	
460-68263-3	1	T	20:24	X	X	X																	
460-68263-4	1	T	20:34	X	X	X																	
460-68263-5	1	T	20:44	X	X	X																	
460-68263-6	1	T	20:54	X	X	X																	
460-68263-7	1	T	21:04	X	X	X																	
460-68263-7 MS	1	T	21:14	X	X	X	X																
460-68263-7 MSD	1	T	21:24	X	X	X	X																
CCV 480-158039/25	1		21:34	X	X	X	X																
CCB 480-158039/26	1		21:45	X	X	X	X																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Instrument ID: IC-1 Method: 300.0

Start Date: 12/17/2013 21:34 End Date: 12/18/2013 01:48

Lab Sample ID	D/F	Type	Time	Analytes																			
				Br	CL-	F	SO4																
CCV 480-158052/25	1		21:34	X	X	X	X																
CCB 480-158052/26	1		21:45	X	X	X	X																
LCS 480-158052/27	1	T	21:55	X	X	X	X																
MB 480-158052/28	1	T	22:05	X	X	X	X																
460-68263-8	1	T	22:15	X	X	X																	
460-68263-9	1	T	22:25	X	X	X																	
460-68263-10	1	T	22:35	X	X	X																	
460-68263-11	1	T	22:45	X	X	X																	
ZZZZZZ			23:06																				
ZZZZZZ			23:16																				
ZZZZZZ			23:26																				
CCV 480-158052/37	1		23:36	X	X	X	X																
CCB 480-158052/38	1		23:46	X	X	X	X																
ZZZZZZ			23:56																				
ZZZZZZ			00:06																				
ZZZZZZ			00:17																				
ZZZZZZ			00:57																				
ZZZZZZ			01:07																				
ZZZZZZ			01:17																				
ZZZZZZ			01:28																				
CCV 480-158052/49			01:38																				
CCB 480-158052/50			01:48																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Instrument ID: PC_Titrator Method: SM 2320B

Start Date: 12/26/2013 16:02 End Date: 12/26/2013 18:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk	BALKCC	CarAlk	OHAlk																
ZZZZZZ			16:02																				
ZZZZZZ			16:08																				
ZZZZZZ			16:14																				
CCV 480-159583/4	1		16:21	X	X	X	X																
CCB 480-159583/5	1		16:27	X	X	X	X																
MB 480-159583/6	1	T	16:33	X	X	X	X																
LCS 480-159583/7	1	T	16:39	X	X	X	X																
460-68263-4	1	T	16:45	X	X	X	X																
460-68263-6	1	T	16:52	X	X	X	X																
460-68263-7	1	T	16:58	X	X	X	X																
460-68263-8	1	T	17:04	X	X	X	X																
460-68263-9	1	T	17:10	X	X	X	X																
460-68263-10	1	T	17:15	X	X	X	X																
460-68263-11	1	T	17:21	X	X	X	X																
ZZZZZZ			17:29																				
CCV 480-159583/16	1		17:35	X	X	X	X																
CCB 480-159583/17	1		17:41	X	X	X	X																
480-52359-I-2 DU	1	T	17:48	X	X	X	X																
ZZZZZZ			17:54																				
480-52359-I-3 MS	1	T	18:00	X	X	X	X																
CCV 480-159583/21	1		18:06	X	X	X	X																
CCB 480-159583/22	1		18:12	X	X	X	X																

Prep Types

T = Total/NA

Method - Ch. 1 (NO3+NO2)

OPERATOR:	leye
ACQ. TIME:	Dec 13, 2013 9:54:39
DATA FILENAME:PTION:	C:\OMNION\DATA\NITRATE\2013DA~1\N131213A.FDT
METHOD FILENAME:	C:\OMNION\METHODS\NO3NO2A.MET
TRAY FILENAME:	Dec 12, 2013 10:50:35
NO3+NO2a.met	
TRAY DESCRIPTION:	
Created:TE DATA:	Oct 18, 2013 14:04:36
Modified:ame:	Dec 13, 2013 11:42:15
360 trayration Units:	mg /L
DATA DESCRIPTION:	Direct
Created: Peak Start (s):	Dec 13, 2013 9:54:39
Modified:: Width (s):	Dec 13, 2013 9:54:39
% Width Tolerance:	100.000
Threshold:	1371.000
Autodilution Trigger:	Off
QuikChem Method:	10-107-04-1-C

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.500 3 : 1.000 4 : 0.500
5 : 0.100 6 : 0.000

Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	90.0
Min. Probe in Wash Period:	14.0
Probe in Sample Period:	25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:

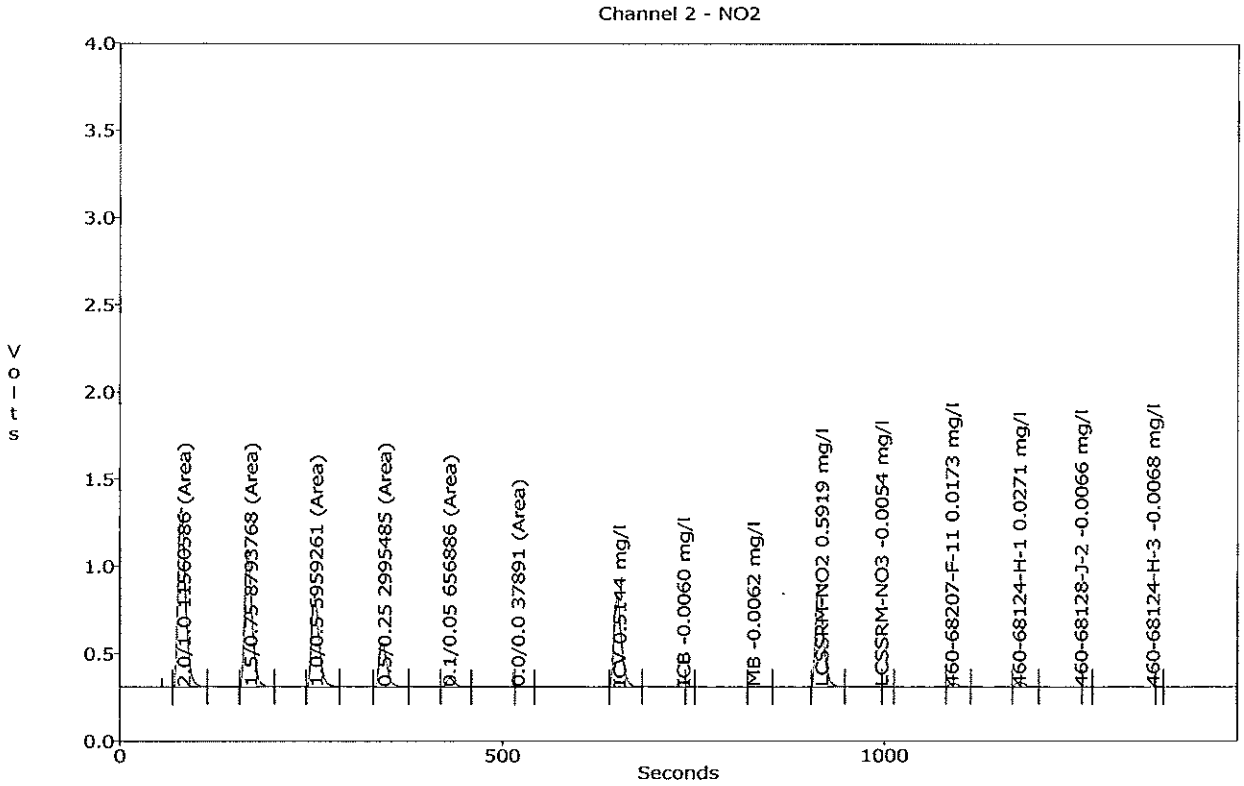
Method Cycle Period:	90.0
Sample Reaches 1st Valve:	37.0
Valve:	On
Load Time:	0.0
Load Period:	10.0
Inject Period:	80.0

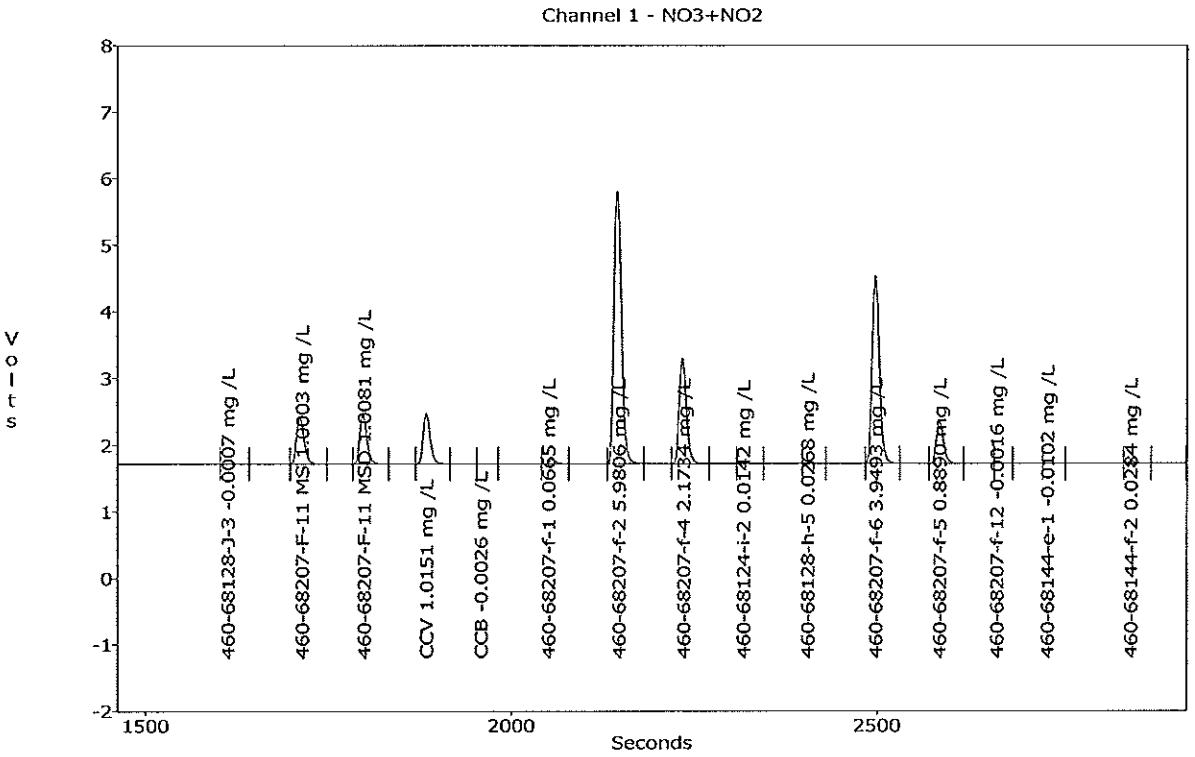
Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (uv-s)	NO2 (uv-s)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	2.0/1.0	13 Dec 2013	09:54:40	1	16526279.00	11560586.00	1.0	1.00	1.00000	g
2	1.5/0.75	13 Dec 2013	09:56:07	1	12613370.00	8793768.00	1.0	1.00	1.00000	g
3	1.0/0.5	13 Dec 2013	09:57:34	1	8589011.00	5959261.00	1.0	1.00	1.00000	g
4	0.5/0.25	13 Dec 2013	09:59:02	1	4172768.00	2995485.00	1.0	1.00	1.00000	g
5	0.1/0.05	13 Dec 2013	10:00:30	1	952448.00	656886.00	1.0	1.00	1.00000	g
6	0.0/0.0	13 Dec 2013	10:01:59	1	47299.00	37891.00	1.0	1.00	1.00000	g

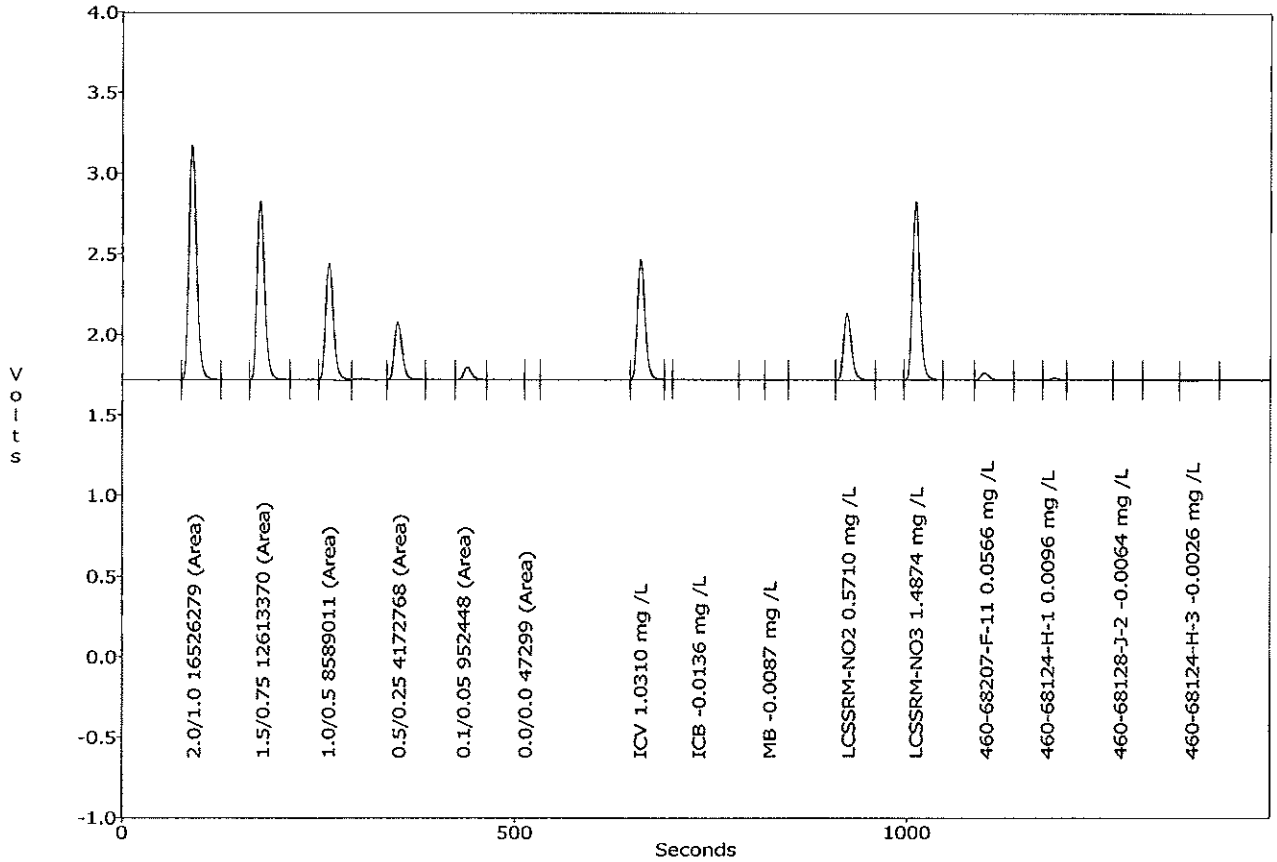
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (mg /L)	NO2 (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV	13 Dec 2013	10:04:10	1	1.0310	0.5144	1.0	1.00	1.00000	g
2	ICB	13 Dec 2013	10:05:38	1	-0.0136	-0.0060	1.0	1.00	1.00000	g
3	MB	13 Dec 2013	10:07:06	1	-0.0087	-0.0062	1.0	1.00	1.00000	g
4	LCSSRM-NO2	13 Dec 2013	10:08:34	1	0.5710	0.5919	1.0	1.00	1.00000	g
5	LCSSRM-NO3	13 Dec 2013	10:10:01	1	1.4874	-0.0054	1.0	1.00	1.00000	g
6	460-68207-F-11	13 Dec 2013	10:11:29	1	0.0566	0.0173	1.0	1.00	1.00000	g
7	460-68124-H-1	13 Dec 2013	10:12:57	1	0.0096	0.0271	1.0	1.00	1.00000	g
8	460-68128-J-2	13 Dec 2013	10:14:24	1	-0.0064	-0.0066	1.0	1.00	1.00000	g
9	460-68124-H-3	13 Dec 2013	10:15:52	1	-0.0026	-0.0068	1.0	1.00	1.00000	g
10	460-68128-J-3	13 Dec 2013	10:20:15	1	-0.0007	-0.0032	1.0	1.00	1.00000	g
11	460-68207-F-11 MS	13 Dec 2013	10:21:42	1	1.0003	0.4954	1.0	1.00	1.00000	g
12	460-68207-F-11 MSD	13 Dec 2013	10:23:08	1	1.0081	0.4989	1.0	1.00	1.00000	g
13	CCV	13 Dec 2013	10:24:35	1	1.0151	0.5086	1.0	1.00	1.00000	g
14	CCB	13 Dec 2013	10:26:01	1	-0.0026	-0.0075	1.0	1.00	1.00000	g
15	460-68207-f-1	13 Dec 2013	10:27:28	1	0.0665	0.0141	1.0	1.00	1.00000	g
16	460-68207-f-2	13 Dec 2013	10:28:57	1	5.9806	-0.0062	1.0	1.00	1.00000	g
17	460-68207-f-4	13 Dec 2013	10:30:25	1	2.1734	0.0016	1.0	1.00	1.00000	g
18	460-68124-i-2	13 Dec 2013	10:31:54	1	0.0142	0.0256	1.0	1.00	1.00000	g
19	460-68128-h-5	13 Dec 2013	10:33:22	1	0.0268	0.0209	1.0	1.00	1.00000	g
20	460-68207-f-6	13 Dec 2013	10:34:49	1	3.9493	0.0282	1.0	1.00	1.00000	g
21	460-68207-f-5	13 Dec 2013	10:36:17	1	0.8890	0.2190	1.0	1.00	1.00000	g
22	460-68207-f-12	13 Dec 2013	10:37:44	1	-0.0016	-0.0066	1.0	1.00	1.00000	g
23	460-68144-e-1	13 Dec 2013	10:39:12	1	-0.0102	0.0494	1.0	1.00	1.00000	g
24	460-68144-f-2	13 Dec 2013	10:40:40	1	0.0284	0.0134	1.0	1.00	1.00000	g
25	CCV	13 Dec 2013	10:42:07	1	1.0053	0.5127	1.0	1.00	1.00000	g
26	CCB	13 Dec 2013	10:43:35	1	-0.0121	-0.0067	1.0	1.00	1.00000	g
27	MB	13 Dec 2013	10:45:02	1	-0.0107	-0.0061	1.0	1.00	1.00000	g
28	LCSSRM-NO2	13 Dec 2013	10:46:28	1	0.5579	0.5815	1.0	1.00	1.00000	g
29	LCSSRM-NO3	13 Dec 2013	10:47:55	1	1.4957	-0.0065	1.0	1.00	1.00000	g
30	460-68144-f-3	13 Dec 2013	10:49:22	1	0.0451	0.0041	1.0	1.00	1.00000	g
31	460-68144-e-5	13 Dec 2013	10:50:50	1	0.0649	0.0086	1.0	1.00	1.00000	g
32	460-68144-e-6	13 Dec 2013	10:52:19	1	0.7182	-0.0049	1.0	1.00	1.00000	g
33	460-68144-e-6 MS	13 Dec 2013	10:53:48	1	1.6421	0.4914	1.0	1.00	1.00000	g
34	460-68144-e-6 MSD	13 Dec 2013	10:55:16	1	1.6759	0.4935	1.0	1.00	1.00000	g
35	460-68144-e-7	13 Dec 2013	10:56:45	1	0.7112	-0.0045	1.0	1.00	1.00000	g
36	460-68207-f-8	13 Dec 2013	10:58:13	1	1.7750	-0.0050	1.0	1.00	1.00000	g
37	CCV	13 Dec 2013	10:59:40	1	1.0011	0.5091	1.0	1.00	1.00000	g
38	CCB	13 Dec 2013	11:01:08	1	-0.0103	-0.0064	1.0	1.00	1.00000	g
39	460-68207-f-7	13 Dec 2013	11:02:36	1	3.0312	-0.0037	1.0	1.00	1.00000	g
40	460-68207-f-10	13 Dec 2013	11:04:03	1	15.8949	0.0305	1.0	1.00	1.00000	g
41	460-68207-f-9	13 Dec 2013	11:05:31	1	10.6958	0.0121	1.0	1.00	1.00000	g
42	460-68207-f-3	13 Dec 2013	11:06:58	1	1.7529	0.0125	1.0	1.00	1.00000	g
43	460-68144-e-4	13 Dec 2013	11:08:25	1	0.0426	0.0204	1.0	1.00	1.00000	g
44	460-68207-f-13	13 Dec 2013	11:09:55	1	-0.0082	-0.0036	1.0	1.00	1.00000	g
45	460-68128-h-4	13 Dec 2013	11:11:22	1	-0.0082	-0.0063	1.0	1.00	1.00000	g
46	460-68217-g-5	13 Dec 2013	11:12:55	1	0.0133	0.0123	1.0	1.00	1.00000	g
47	460-68217-g-2	13 Dec 2013	11:14:24	1	0.0152	0.0151	1.0	1.00	1.00000	g
48	460-68217-g-3	13 Dec 2013	11:15:52	1	0.0166	0.0154	1.0	1.00	1.00000	g
49	CCV	13 Dec 2013	11:17:21	1	0.9516	0.5154	1.0	1.00	1.00000	g
50	CCB	13 Dec 2013	11:18:50	1	-0.0121	-0.0073	1.0	1.00	1.00000	g

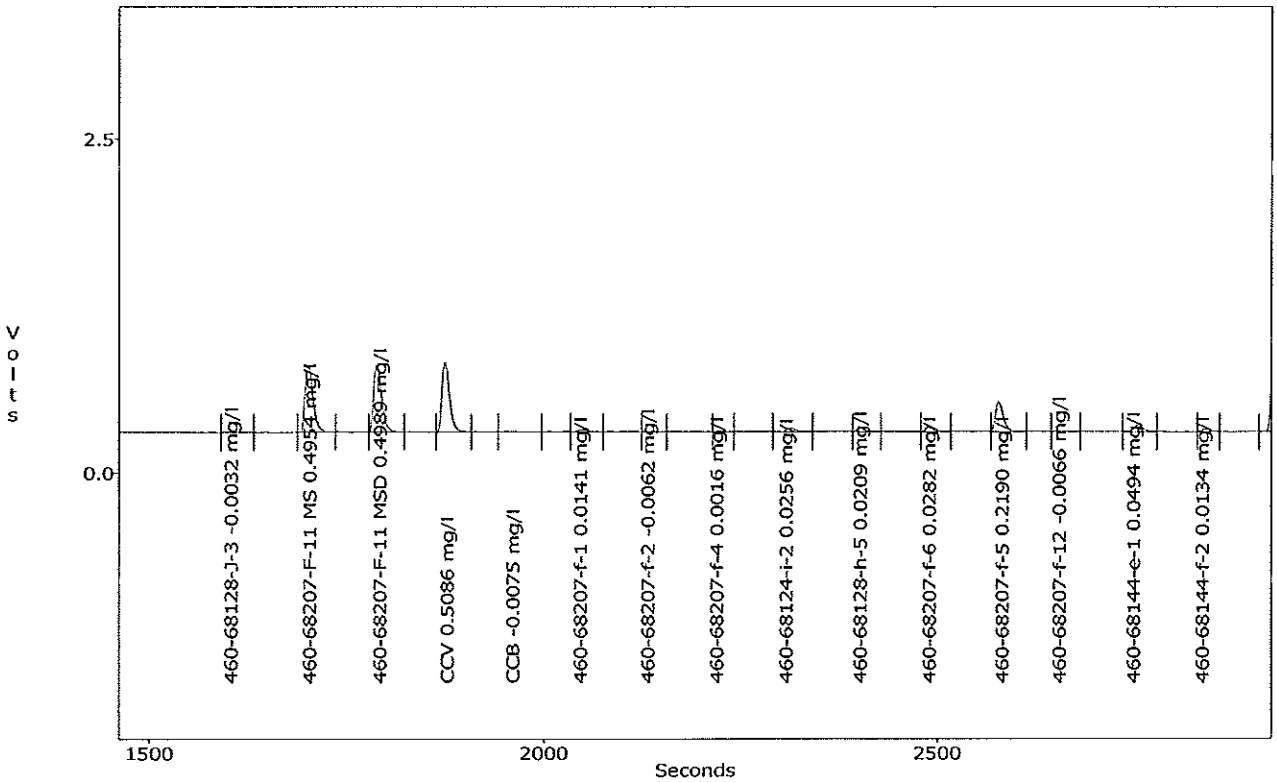

Channel 2 - NO2
Volts
Seconds
2.0/1.0 11560586 (Area)
1.5/0.75 8793768 (Area)
1.0/0.5 5959261 (Area)
0.5/0.25 2995485 (Area)
0.1/0.05 656886 (Area)
0.0/0.0 37891 (Area)
ICV 0.5144 mg/l
ICB -0.0060 mg/l
MB -0.0062 mg/l
LCSSRM-NO2 0.5919 mg/l
LCSSRM-NO3 -0.0054 mg/l
460-68207-F-11 0.0173 mg/l
460-68124-H-1 0.0271 mg/l
460-68128-J-2 -0.0066 mg/l
460-68124-H-3 -0.0068 mg/l


Channel 1 - NO3+NO2
Volts
Seconds
460-68128-J-3 -0.0007 mg /L
460-68207-F-11 MS 1.0003 mg /L
460-68207-F-11 MSD 1.0081 mg /L
CCV 1.0151 mg /L
CCB -0.0026 mg /L
460-68207-f-1 0.0665 mg /L
460-68207-f-2 5.9806 mg /L
460-68207-f-4 2.1733 mg /L
460-68124-i-2 0.0142 mg /L
460-68128-h-5 0.0268 mg /L
460-68207-f-6 3.9493 mg /L
460-68207-f-5 0.8890 mg /L
460-68207-f-12 -0.0016 mg /L
460-68144-e-1 -0.0102 mg /L
460-68144-f-2 0.0284 mg /L

Channel 1 - NO3+NO2



Channel 2 - NO2



Sample Information/Results: Ch. 2
INO2 (Cup Range: 1 - 19))

Unknowns:

Cup: 1, Sample ID: ICV, Sample Type: Unknowme: Unknownn
Rep 1/1, Result: 0.5144 mg/l

Cup: 2, Sample ID: ICB, Sample Type: Unknowme: Unknown
Rep 1/1, Result: -0.0060 mg/l

Cup: 3, Sample ID: MB, Sample Type: Unknownype: Unknown
Rep 1/1, Result: -0.0062 mg/l

Cup: 4, Sample ID: LCSSRM-NO2, Sample Type: Unknownwn
Rep 1/1, Result: 0.5919 mg/l

Cup: 5, Sample ID: LCSSRM-NO3, Sample Type: Unknownwnn
Rep 1/1, Result: -0.0054 mg/l

Cup: 6, Sample ID: 460-68207-F-11, Sample Type: Unknown
Rep 1/1, Result: 0.0173 mg/ll

Cup: 7, Sample ID: 460-68124-H-1, Sample Type: Unknownn
Rep 1/1, Result: 0.0271 mg/ll

Cup: 8, Sample ID: 460-68128-J-2, Sample Type: Unknownn
Rep 1/1, Result: -0.0066 mg/l

Cup: 9, Sample ID: 460-68124-H-3, Sample Type: Unknownn
Rep 1/1, Result: -0.0068 mg/l

Cup: 10, Sample ID: 460-68128-J-3, Sample Type: Unknown
Rep 1/1, Result: -0.0032 mg/l

Cup: 11, Sample ID: 460-68207-F-11 MS, Sample Type: Unknown
Rep 1/1, Result: 0.4954 mg/ll

Cup: 12, Sample ID: 460-68207-F-11 MSD, Sample Type: Unknown
Rep 1/1, Result: 0.4989 mg/l

Cup: 13, Sample ID: CCV, Sample Type: Unknowme: Unknown
Rep 1/1, Result: 0.5086 mg/ll

Cup: 14, Sample ID: CCB, Sample Type: Unknown'ype: Unknown
Rep 1/1, Result: -0.0075 mg/l

Cup: 15, Sample ID: 460-68207-f-1, Sample Type: Unknownnown
Rep 1/1, Result: 0.0141 mg/l

Cup: 16, Sample ID: 460-68207-f-2, Sample Type: Unknownwn
Rep 1/1, Result: -0.0062 mg/l

Cup: 17, Sample ID: 460-68207-f-4, Sample Type: Unknown
Rep 1/1, Result: 0.0016 mg/ll

Cup: 18, Sample ID: 460-68124-i-2, Sample Type: Unknown
Rep 1/1, Result: 0.0256 mg/l

Cup: 19, Sample ID: 460-68128-h-5, Sample Type: Unknown
Rep 1/1, Result: 0.0209 mg/ll

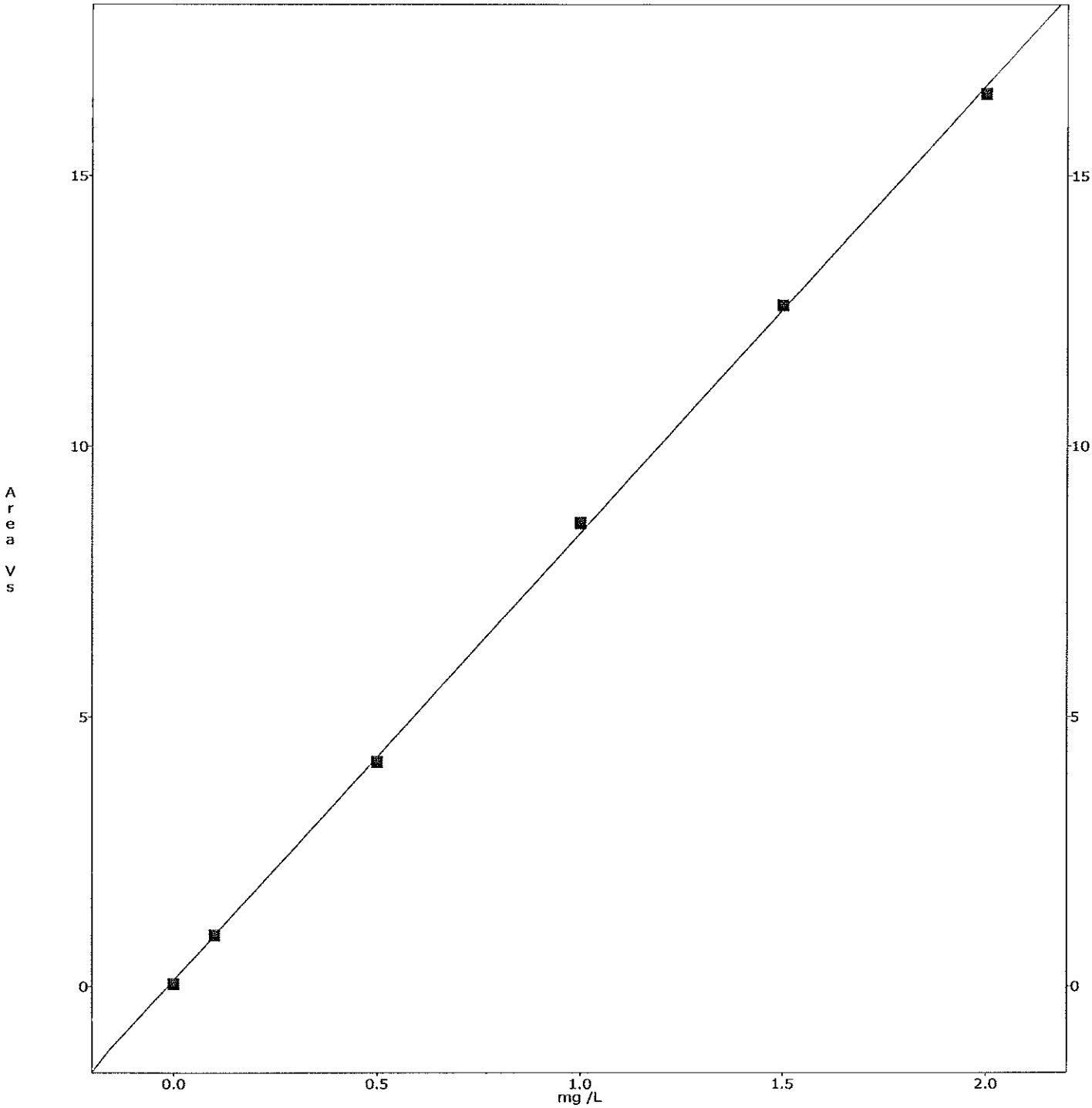
Cup: 39, Sample ID: 460-68207-f-7, Sample Type: Unknownown
Rep 1/1, Result: -0.0037 mg/l

NO3+NO2

Lvl	Area	mg /L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	16526279	2.0	16526279					0.0	0.0	0.9
2	12613370	1.5	12613370					0.0	0.0	-0.7
3	8589011	1.0	8589011					0.0	0.0	-2.4
4	4172768	0.5	4172768					0.0	0.0	1.9
5	952448	0.1	952448					0.0	0.0	-1.4
6	47299	0.0	47299					0.0	0.0	

1st Order Poly
Conc = 1.208e-007 Area - 1.363e-002
r = 0.9998

Scaling: None - Weighting: None



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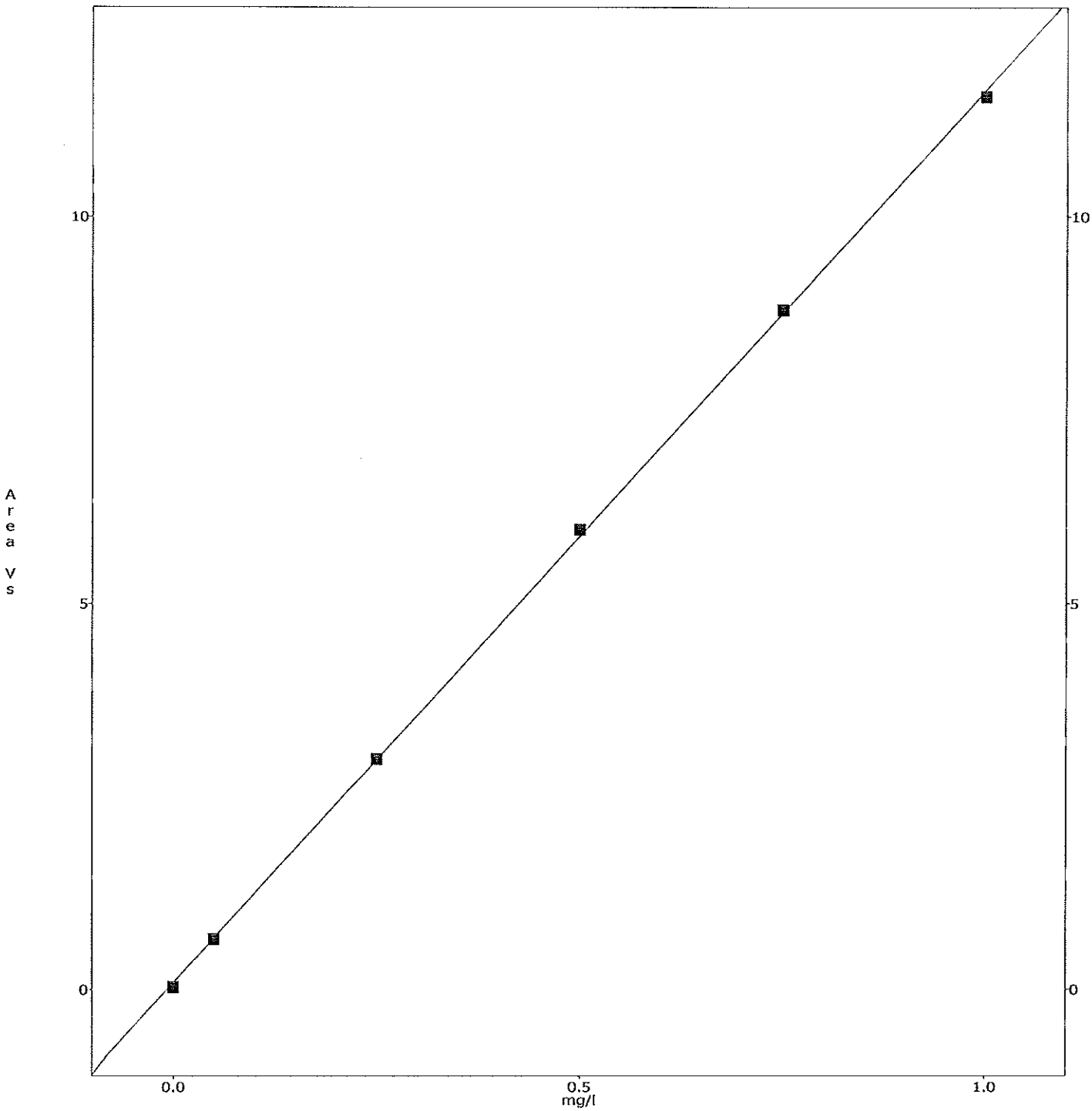
NO2

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	11560586	1.00	11560586					0.0	0.0	0.7
2	8793768	0.75	8793768					0.0	0.0	-0.5
3	5959261	0.50	5959261					0.0	0.0	-1.6
4	2995485	0.25	2995485					0.0	0.0	-0.6
5	656886	0.05	656886					0.0	0.0	2.2
6	37891	0.00	37891					0.0	0.0	

1st Order Poly
Conc = 8.658e-008 Area - 7.979e-003
r = 0.9999

Scaling: None - Weighting: None



Printed: Friday, December 13, 2013 - 12:00 PM

OPERATOR:	sarah	Method - Ch. 1 (NO3+NO2)
ACQ. TIME:	Dec 31, 2013 13:53:41	
DATA FILENAME:PTION:	C:\OMNION\DATA\NITRATE\2013DA~1\N131231B.FDT	
METHOD FILENAME:	C:\OMNION\METHODS\NO3NO2A.MET	
TRAY FILENAME:	Dec 31, 2013 11:11:04	
NO3+NO2a.met		
TRAY DESCRIPTION:		
Created:TE DATA:	Oct 18, 2013 14:04:36	
Modified:ame:	Dec 31, 2013 16:01:31	
360 trayration Units:	mg /L	
DATA DESCRIPTION:	Direct	
Created: Peak Start (s):	Dec 31, 2013 13:53:41	
Modified:: Width (s):	Dec 31, 2013 13:53:41	
% Width Tolerance:	100.000	
Threshold:	1371.000	
Autodilution Trigger:	Off	
QuikChem Method:	10-107-04-1-C	

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.500 3 : 1.000 4 : 0.500
5 : 0.100 6 : 0.000

Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	90.0
Min. Probe in Wash Period:	14.0
Probe in Sample Period:	25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:

Method Cycle Period:	90.0
Sample Reaches 1st Valve:	37.0
Valve:	On
Load Time:	0.0
Load Period:	10.0
Inject Period:	80.0

Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 -- Cup Range: 1 to 50

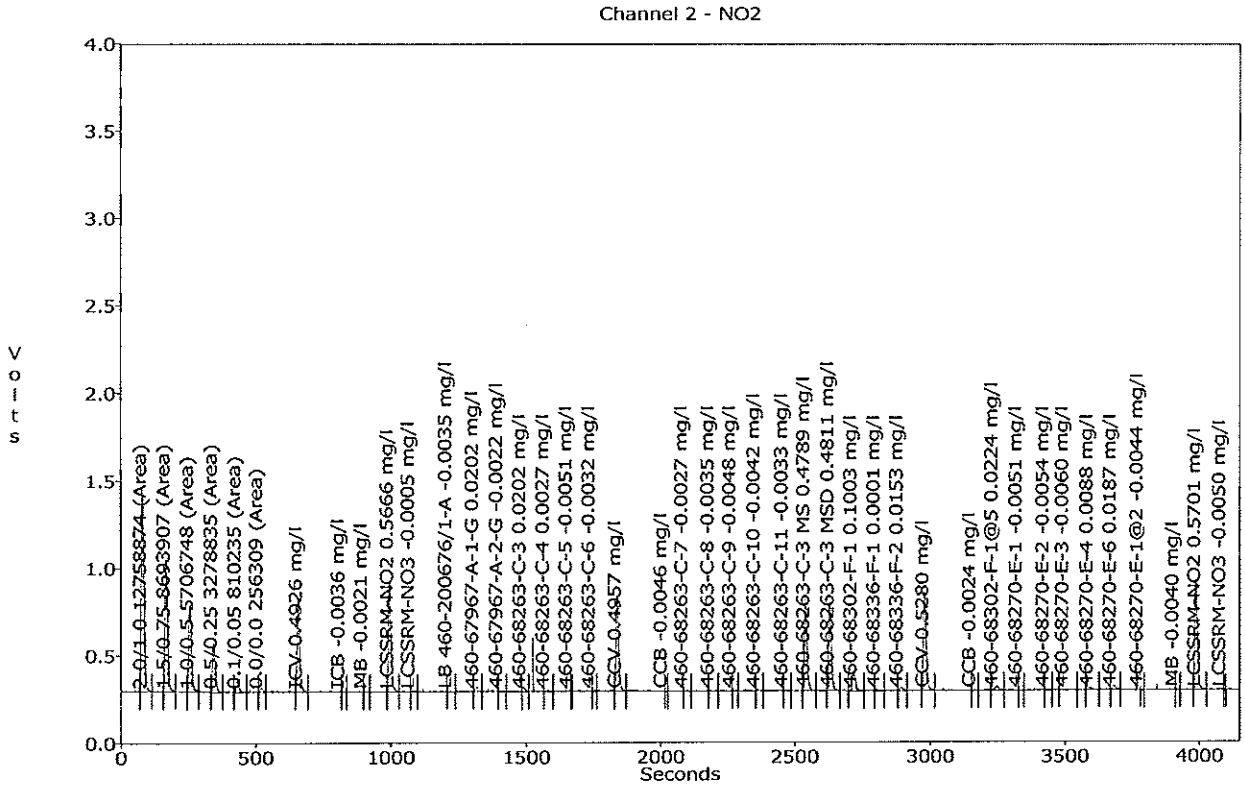
Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (uv-s)	NO2 (uv-s)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	2.0/1.0	31 Dec 2013	13:53:42	1	19261774.00	12758874.00	1.0	1.00	1.00000	g
2	1.5/0.75	31 Dec 2013	13:55:10	1	13702810.00	8693907.00	1.0	1.00	1.00000	g
3	1.0/0.5	31 Dec 2013	13:56:38	1	8693127.00	5706748.00	1.0	1.00	1.00000	g
4	0.5/0.25	31 Dec 2013	13:58:06	1	5026880.00	3278835.00	1.0	1.00	1.00000	g
5	0.1/0.05	31 Dec 2013	13:59:34	1	1128102.00	810235.00	1.0	1.00	1.00000	g
6	0.0/0.0	31 Dec 2013	14:01:03	1	341158.00	256309.00	1.0	1.00	1.00000	g

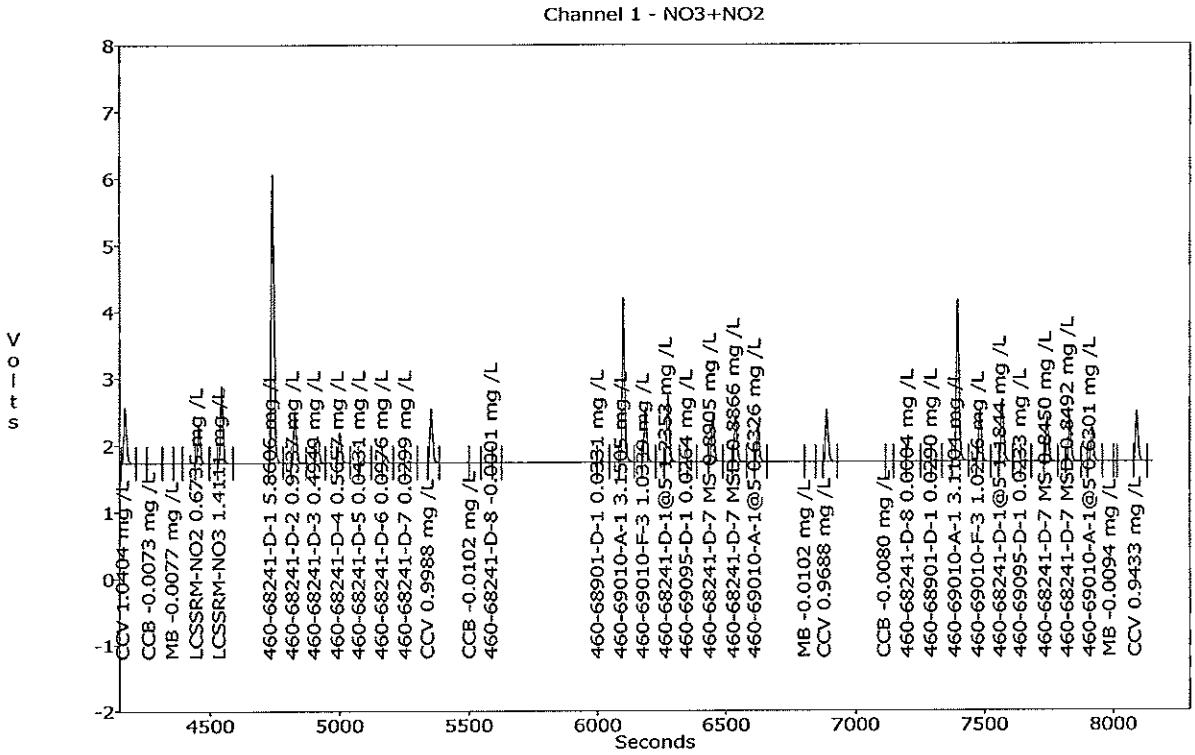
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (mg /L)	NO2 (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV	31 Dec 2013	14:03:20	1	0.9513	0.4926	1.0	1.00	1.00000	g
2	ICB	31 Dec 2013	14:06:03	1	-0.0090	-0.0036	1.0	1.00	1.00000	g
3	MB	31 Dec 2013	14:07:30	1	-0.0099	-0.0021	1.0	1.00	1.00000	g
4	LCSSRM-NO2	31 Dec 2013	14:08:58	1	0.6574	0.5666	1.0	1.00	1.00000	g
5	LCSSRM-NO3	31 Dec 2013	14:10:26	1	1.3292	-0.0005	1.0	1.00	1.00000	g
6	LB 460-200676/1-A	31 Dec 2013	14:12:50	1	-0.0053	-0.0035	1.0	1.00	1.00000	g
7	460-67967-A-1-G	31 Dec 2013	14:14:17	1	0.0496	0.0202	1.0	1.00	1.00000	g
8	460-67967-A-2-G	31 Dec 2013	14:15:45	1	0.0278	-0.0022	1.0	1.00	1.00000	g
9	460-68263-C-3	31 Dec 2013	14:17:13	1	0.0166	0.0202	1.0	1.00	1.00000	g
10	460-68263-C-4	31 Dec 2013	14:18:40	1	0.3574	0.0027	1.0	1.00	1.00000	g
11	460-68263-C-5	31 Dec 2013	14:20:08	1	0.0063	-0.0051	1.0	1.00	1.00000	g
12	460-68263-C-6	31 Dec 2013	14:21:35	1	0.3530	-0.0032	1.0	1.00	1.00000	g
13	CCV	31 Dec 2013	14:23:01	1	0.9473	0.4957	1.0	1.00	1.00000	g
14	CCB	31 Dec 2013	14:25:59	1	-0.0088	-0.0046	1.0	1.00	1.00000	g
15	460-68263-C-7	31 Dec 2013	14:27:25	1	0.3733	-0.0027	1.0	1.00	1.00000	g
16	460-68263-C-8	31 Dec 2013	14:28:54	1	0.0209	-0.0035	1.0	1.00	1.00000	g
17	460-68263-C-9	31 Dec 2013	14:30:22	1	0.8875	-0.0048	1.0	1.00	1.00000	g
18	460-68263-C-10	31 Dec 2013	14:31:50	1	0.5556	-0.0042	1.0	1.00	1.00000	g
19	460-68263-C-11	31 Dec 2013	14:33:19	1	0.3106	-0.0033	1.0	1.00	1.00000	g
20	460-68263-C-3 MS	31 Dec 2013	14:34:46	1	0.9112	0.4789	1.0	1.00	1.00000	g
21	460-68263-C-3 MSD	31 Dec 2013	14:36:14	1	0.9133	0.4811	1.0	1.00	1.00000	g
22	460-68302-F-1	31 Dec 2013	14:37:43	1	6.9961	0.1003	1.0	1.00	1.00000	g
23	460-68336-F-1	31 Dec 2013	14:39:11	1	0.0020	0.0001	1.0	1.00	1.00000	g
24	460-68336-F-2	31 Dec 2013	14:40:38	1	0.0147	0.0153	1.0	1.00	1.00000	g
25	CCV	31 Dec 2013	14:42:06	1	1.0080	0.5280	1.0	1.00	1.00000	g
26	CCB	31 Dec 2013	14:45:05	1	-0.0074	-0.0024	1.0	1.00	1.00000	g
27	460-68302-F-1@5	31 Dec 2013	14:46:32	1	1.6283	0.0224	1.0	1.00	1.00000	g
28	460-68270-E-1	31 Dec 2013	14:47:59	1	2.4070	-0.0051	1.0	1.00	1.00000	g
29	460-68270-E-2	31 Dec 2013	14:49:25	1	1.6207	-0.0054	1.0	1.00	1.00000	g
30	460-68270-E-3	31 Dec 2013	14:50:52	1	1.4343	-0.0060	1.0	1.00	1.00000	g
31	460-68270-E-4	31 Dec 2013	14:52:20	1	0.1029	0.0088	1.0	1.00	1.00000	g
32	460-68270-E-6	31 Dec 2013	14:53:49	1	0.0455	0.0187	1.0	1.00	1.00000	g
33	460-68270-E-1@2	31 Dec 2013	14:55:17	1	1.2095	-0.0044	1.0	1.00	1.00000	g
34	MB	31 Dec 2013	14:57:28	1	-0.0104	-0.0040	1.0	1.00	1.00000	g
35	LCSSRM-NO2	31 Dec 2013	14:58:56	1	0.6750	0.5701	1.0	1.00	1.00000	g
36	LCSSRM-NO3	31 Dec 2013	15:00:24	1	1.2977	-0.0050	1.0	1.00	1.00000	g
37	CCV	31 Dec 2013	15:01:51	1	1.0404	0.5352	1.0	1.00	1.00000	g
38	CCB	31 Dec 2013	15:03:43	1	-0.0073	-0.0043	1.0	1.00	1.00000	g
39	MB	31 Dec 2013	15:05:10	1	-0.0077	-0.0044	1.0	1.00	1.00000	g
40	LCSSRM-NO2	31 Dec 2013	15:06:38	1	0.6735	0.5714	1.0	1.00	1.00000	g
41	LCSSRM-NO3	31 Dec 2013	15:08:05	1	1.4111	-0.0033	1.0	1.00	1.00000	g
42	460-68241-D-1	31 Dec 2013	15:11:23	1	5.8606	0.0408	1.0	1.00	1.00000	g
43	460-68241-D-2	31 Dec 2013	15:12:49	1	0.9537	0.1428	1.0	1.00	1.00000	g
44	460-68241-D-3	31 Dec 2013	15:14:16	1	0.4949	0.0249	1.0	1.00	1.00000	g
45	460-68241-D-4	31 Dec 2013	15:15:43	1	0.5657	-0.0040	1.0	1.00	1.00000	g
46	460-68241-D-5	31 Dec 2013	15:17:11	1	0.0431	-0.0006	1.0	1.00	1.00000	g
47	460-68241-D-6	31 Dec 2013	15:18:40	1	0.0976	0.0276	1.0	1.00	1.00000	g
48	460-68241-D-7	31 Dec 2013	15:20:07	1	0.0299	-0.0046	1.0	1.00	1.00000	g
49	CCV	31 Dec 2013	15:21:35	1	0.9988	0.5322	1.0	1.00	1.00000	g
50	CCB	31 Dec 2013	15:24:17	1	-0.0102	-0.0027	1.0	1.00	1.00000	g

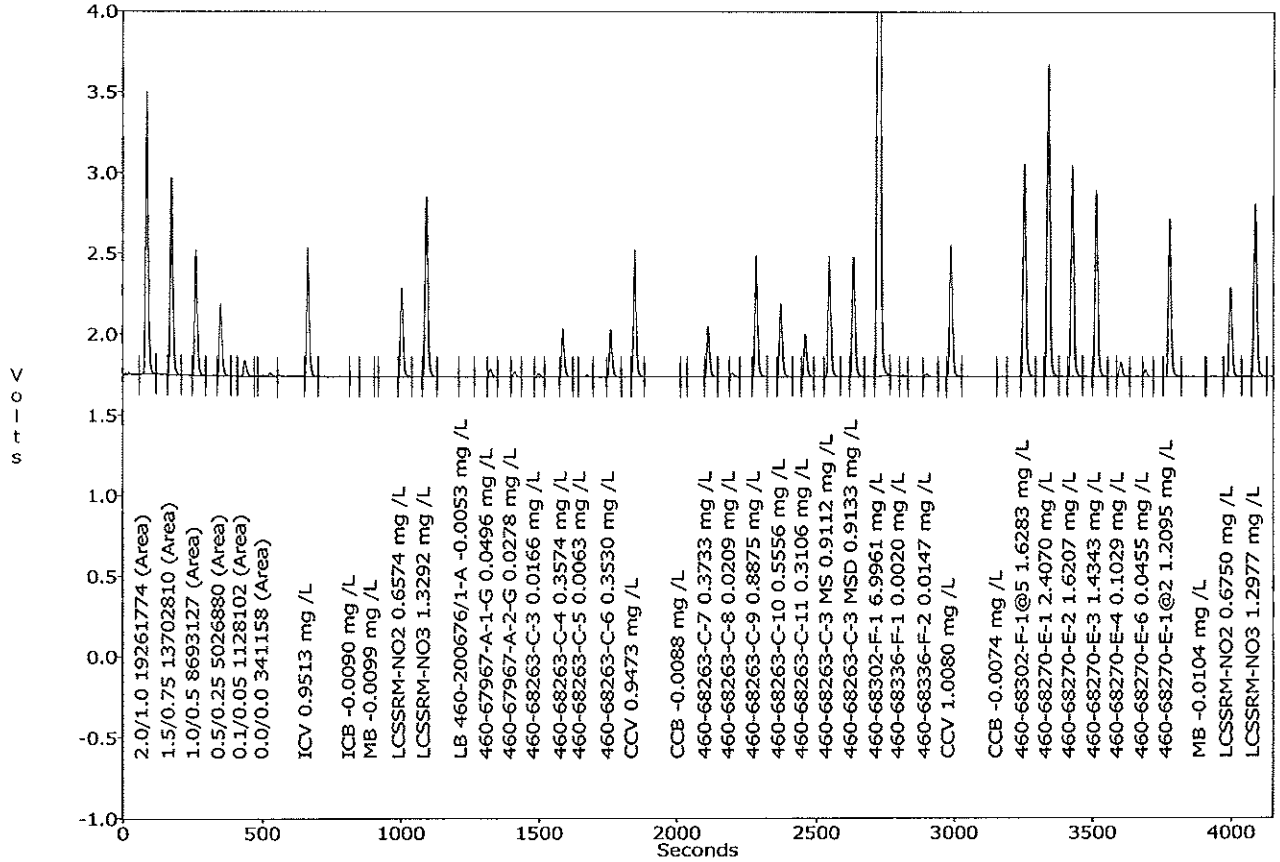
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 51 to 100

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (mg /L)	NO2 (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
51	460-68241-D-8	31 Dec 2013	15:25:44	1	-0.0001	-0.0017	1.0	1.00	1.00000	g
51	460-68241-D-8	31 Dec 2013	15:52:40	1	0.0004	-0.0044	1.0	1.00	1.00000	g
52	460-68901-D-1	31 Dec 2013	15:32:34	1	0.0331	0.0335	1.0	1.00	1.00000	g
52	460-68901-D-1	31 Dec 2013	15:54:08	1	0.0290	0.0283	1.0	1.00	1.00000	g
53	460-69010-A-1	31 Dec 2013	15:34:01	1	3.1505	2.9045	1.0	1.00	1.00000	g
53	460-69010-A-1	31 Dec 2013	15:55:36	1	3.1104	2.9142	1.0	1.00	1.00000	g
54	460-69010-F-3	31 Dec 2013	15:35:29	1	1.0339	1.0811	1.0	1.00	1.00000	g
54	460-69010-F-3	31 Dec 2013	15:57:03	1	1.0256	1.0967	1.0	1.00	1.00000	g
55	460-68241-D-1@5	31 Dec 2013	15:36:57	1	1.2353	0.0049	1.0	1.00	1.00000	g
55	460-68241-D-1@5	31 Dec 2013	15:58:31	1	1.1844	0.0055	1.0	1.00	1.00000	g
56	460-69095-D-1	31 Dec 2013	15:38:25	1	0.0264	0.0232	1.0	1.00	1.00000	g
56	460-69095-D-1	31 Dec 2013	15:59:59	1	0.0233	0.0228	1.0	1.00	1.00000	g
57	460-68241-D-7 MS	31 Dec 2013	15:39:52	1	0.8905	0.4739	1.0	1.00	1.00000	g
57	460-68241-D-7 MS	31 Dec 2013	16:01:25	1	0.8450	0.4774	1.0	1.00	1.00000	g
58	460-68241-D-7 MSD	31 Dec 2013	15:41:19	1	0.8866	0.4769	1.0	1.00	1.00000	g
58	460-68241-D-7 MSD	31 Dec 2013	16:02:52	1	0.8492	0.4739	1.0	1.00	1.00000	g
59	460-69010-A-1@5	31 Dec 2013	15:42:45	1	0.6326	0.5823	1.0	1.00	1.00000	g
59	460-69010-A-1@5	31 Dec 2013	16:04:19	1	0.6301	0.5842	1.0	1.00	1.00000	g
60	MB	31 Dec 2013	15:45:43	1	-0.0102	-0.0054	1.0	1.00	1.00000	g
60	MB	31 Dec 2013	16:05:45	1	-0.0094	-0.0051	1.0	1.00	1.00000	g
61	CCV	31 Dec 2013	15:47:11	1	0.9688	0.5225	1.0	1.00	1.00000	g
61	CCV	31 Dec 2013	16:07:14	1	0.9433	0.5255	1.0	1.00	1.00000	g
62	CCB	31 Dec 2013	15:51:12	1	-0.0080	-0.0053	1.0	1.00	1.00000	g

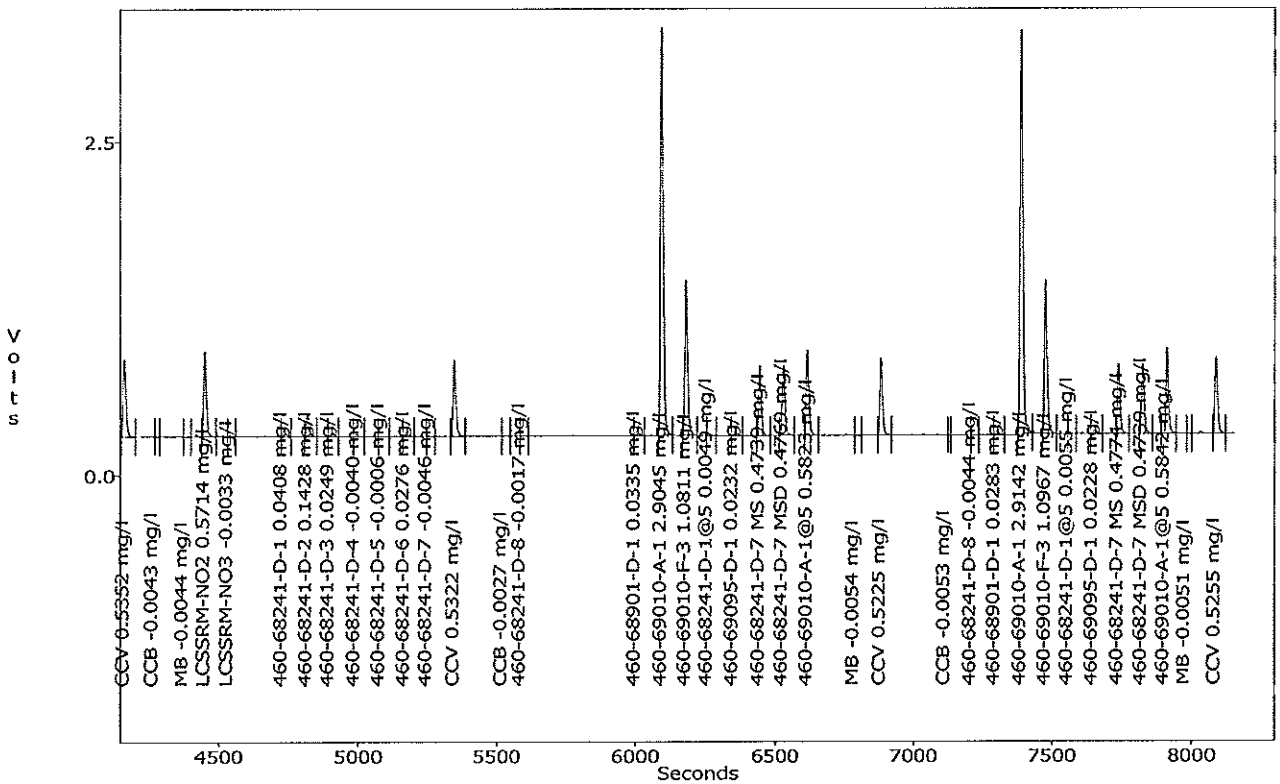

Channel 2 - NO2
Volts
Seconds
2.0/1.0 12758874 (Area)
1.5/0.75 8693907 (Area)
1.0/0.5 5706748 (Area)
0.5/0.25 3278835 (Area)
0.1/0.05 810235 (Area)
0.0/0.0 256309 (Area)
ICV 0.4926 mg/l
ICB -0.0036 mg/l
MB -0.0021 mg/l
LCSSRM-NO2 0.5666 mg/l
LCSSRM-NO3 -0.0005 mg/l
LB 460-200676/1-A -0.0035 mg/l
460-67967-A-1-G 0.0202 mg/l
460-67967-A-2-G -0.0022 mg/l
460-68263-C-3 0.0202 mg/l
460-68263-C-4 0.0027 mg/l
460-68263-C-5 -0.0051 mg/l
460-68263-C-6 -0.0032 mg/l
CCV 0.4957 mg/l
CCB -0.0046 mg/l
460-68263-C-7 -0.0027 mg/l
460-68263-C-8 -0.0035 mg/l
460-68263-C-9 -0.0048 mg/l
460-68263-C-10 -0.0042 mg/l
460-68263-C-11 -0.0033 mg/l
460-68263-C-3 MS 0.4789 mg/l
460-68263-C-3 MSD 0.4811 mg/l
460-68302-F-1 0.1003 mg/l
460-68336-F-1 0.0001 mg/l
460-68336-F-2 0.0153 mg/l
CCV 0.5280 mg/l
CCB -0.0024 mg/l
460-68302-F-1@5 0.0224 mg/l
460-68270-E-1 -0.0051 mg/l
460-68270-E-2 -0.0054 mg/l
460-68270-E-3 -0.0060 mg/l
460-68270-E-4 0.0088 mg/l
460-68270-E-6 0.0187 mg/l
460-68270-E-1@2 -0.0044 mg/l
MB -0.0040 mg/l
LCSSRM-NO2 0.5701 mg/l
LCSSRM-NO3 -0.0050 mg/l


Channel 1 - NO3+NO2
Volts
Seconds
CCV 1.0404 mg/L
CCB -0.0073 mg/L
MB -0.0077 mg/L
LCSSRM-NO2 0.6735 mg/L
LCSSRM-NO3 1.4111 mg/L
460-68241-D-1 5.8606 mg/L
460-68241-D-2 0.9557 mg/L
460-68241-D-3 0.4946 mg/L
460-68241-D-4 0.5657 mg/L
460-68241-D-5 0.0431 mg/L
460-68241-D-6 0.0976 mg/L
460-68241-D-7 0.0299 mg/L
CCV 0.9988 mg/L
CCB -0.0102 mg/L
460-68241-D-8 -0.0001 mg/L
460-68901-D-1 0.0331 mg/L
460-69010-A-1 3.1505 mg/L
460-69010-F-3 1.0379 mg/L
460-68241-D-1@5 1.2353 mg/L
460-69095-D-1 0.0264 mg/L
460-68241-D-7 MS 0.0905 mg/L
460-68241-D-7 MSD 0.8866 mg/L
460-69010-A-1@5 0.6326 mg/L
MB -0.0102 mg/L
CCV 0.9688 mg/L
CCB -0.0080 mg/L
460-68241-D-8 0.0004 mg/L
460-68901-D-1 0.0290 mg/L
460-69010-A-1 3.1104 mg/L
460-69010-F-3 1.0256 mg/L
460-68241-D-1@5 1.1844 mg/L
460-69095-D-1 0.0233 mg/L
460-68241-D-7 MS 0.0450 mg/L
460-68241-D-7 MSD 0.8492 mg/L
460-69010-A-1@5 0.6301 mg/L
MB -0.0094 mg/L
CCV 0.9433 mg/L

Channel 1 - NO3+NO2



Channel 2 - NO2

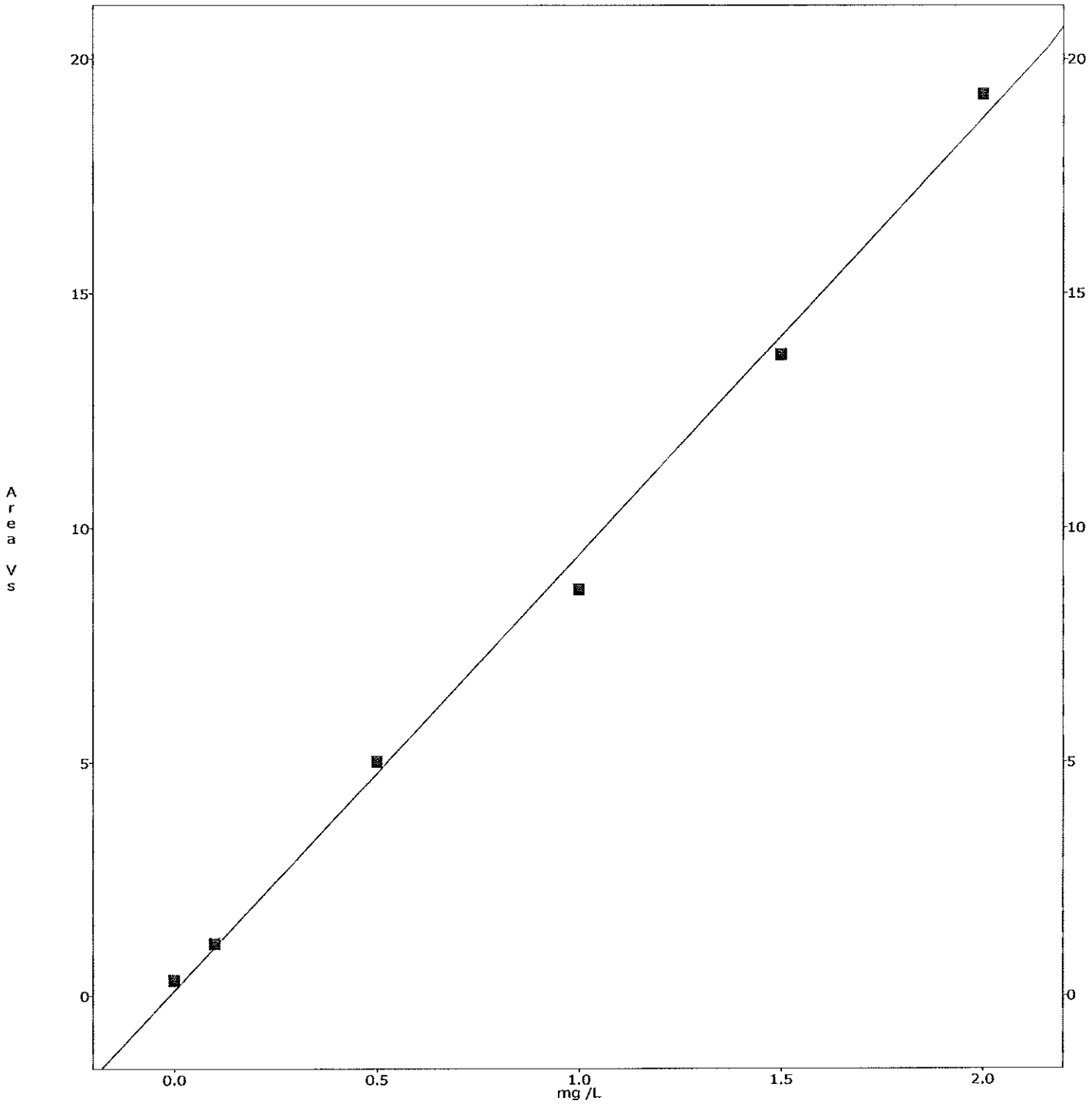


NO3+NO2

Lvl	Area	mg /L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	19261774	2.0	19261774					0.0	0.0	-2.8
2	13702810	1.5	13702810					0.0	0.0	2.7
3	8693127	1.0	8693127					0.0	0.0	7.8
4	5026880	0.5	5026880					0.0	0.0	-5.6
5	1128102	0.1	1128102					0.0	0.0	-9.7
6	341158	0.0	341158					0.0	0.0	

1st Order Poly
Conc = 1.073e-007 Area - 1.137e-002
r = 0.9980

Scaling: None - Weighting: None



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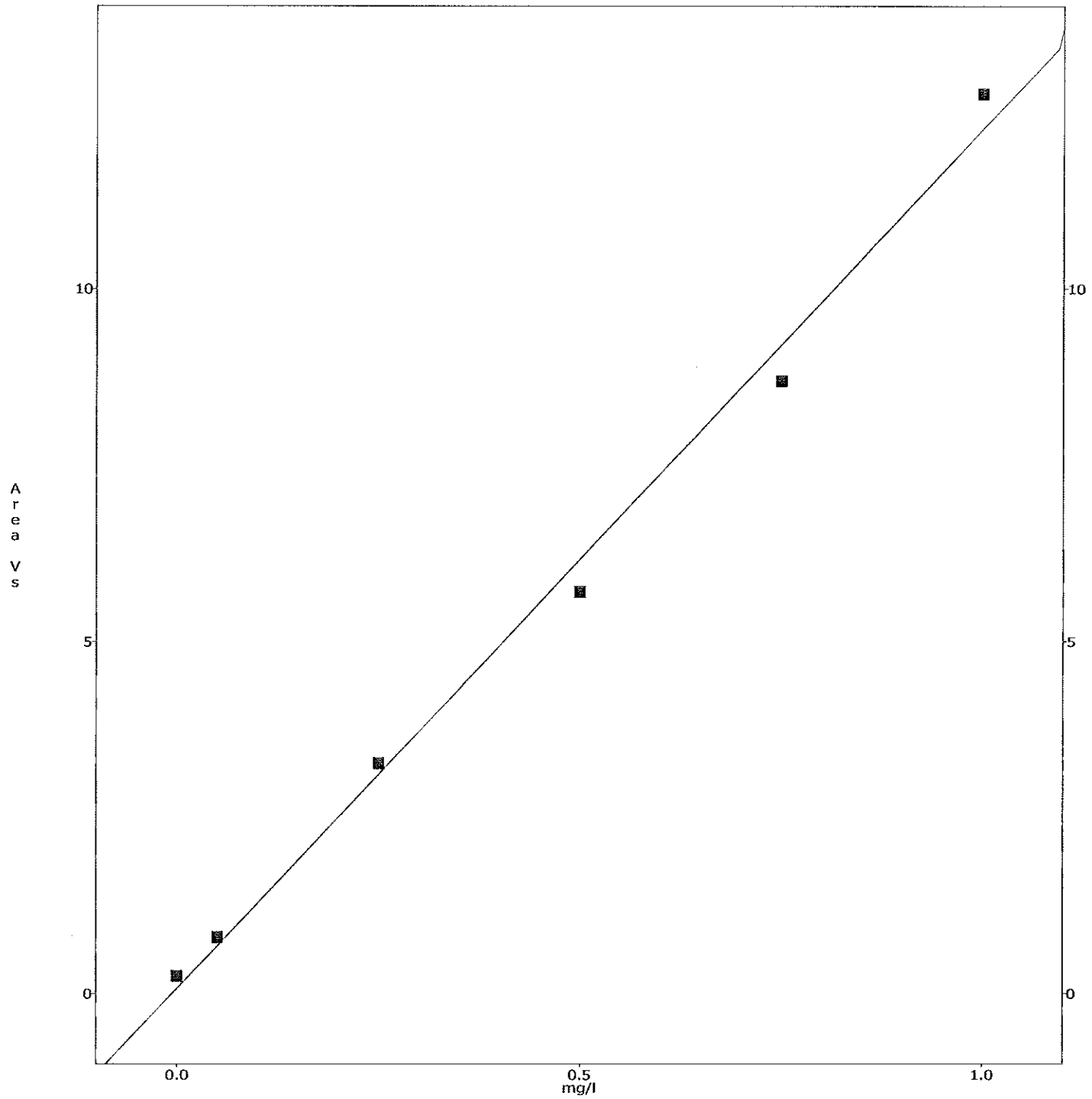
NO2

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	12758874	1.00	12758874					0.0	0.0	-4.1
2	8693907	0.75	8693907					0.0	0.0	5.6
3	5706748	0.50	5706748					0.0	0.0	7.5
4	3278835	0.25	3278835					0.0	0.0	-5.2
5	810235	0.05	810235					0.0	0.0	-21.0
6	256309	0.00	256309					0.0	0.0	

1st Order Poly
Conc = 8.209e-008 Area - 6.036e-003
r = 0.9966

Scaling: None - Weighting: None



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TestAmerica

Sample Dilution Log
Wet Chemistry

Method No.: SM4500-NO3-F

Analyst: Sarah Braun

Prep Batch: —

Analysis Date: 12/31/13

Analytical Batch: 200863

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
68302-1	5	10	50	DI H_2O
68270-1	2	25	50	DI H_2O

EDS-WI-101, Rev 0
05/24/11

OPERATOR:	sarah	Method - Ch. 1 (NO3+NO2)
ACQ. TIME:	Jan 2, 2014 12:18:45	
DATA FILENAME:PTION:	C:\OMNION\DATA\NITRATE\2013DA~1\N140102B.FDT	
METHOD FILENAME:	C:\OMNION\METHODS\NO3NO2A.MET	
TRAY FILENAME:	Dec 31, 2013 17:01:44	
NO3+NO2a.met		
TRAY DESCRIPTION:		
Created:TE DATA:	Oct 18, 2013 14:04:36	
Modified:ame:	Jan 2, 2014 12:53:12	
360 trayration Units:	mg /L	
DATA DESCRIPTION:	Direct	
Created: Peak Start (s):	Jan 2, 2014 12:18:45	
Modified:: Width (s):	Jan 2, 2014 12:18:45	
% Width Tolerance:	100.000	
Threshold:	1371.000	
Autodilution Trigger:	Off	
QuikChem Method:	10-107-04-1-C	

CALIBRATION DATA:
Levels:
1 : 2.000 2 : 1.500 3 : 1.000 4 : 0.500
5 : 0.100 6 : 0.000

Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	90.0
Min. Probe in Wash Period:	14.0
Probe in Sample Period:	25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:

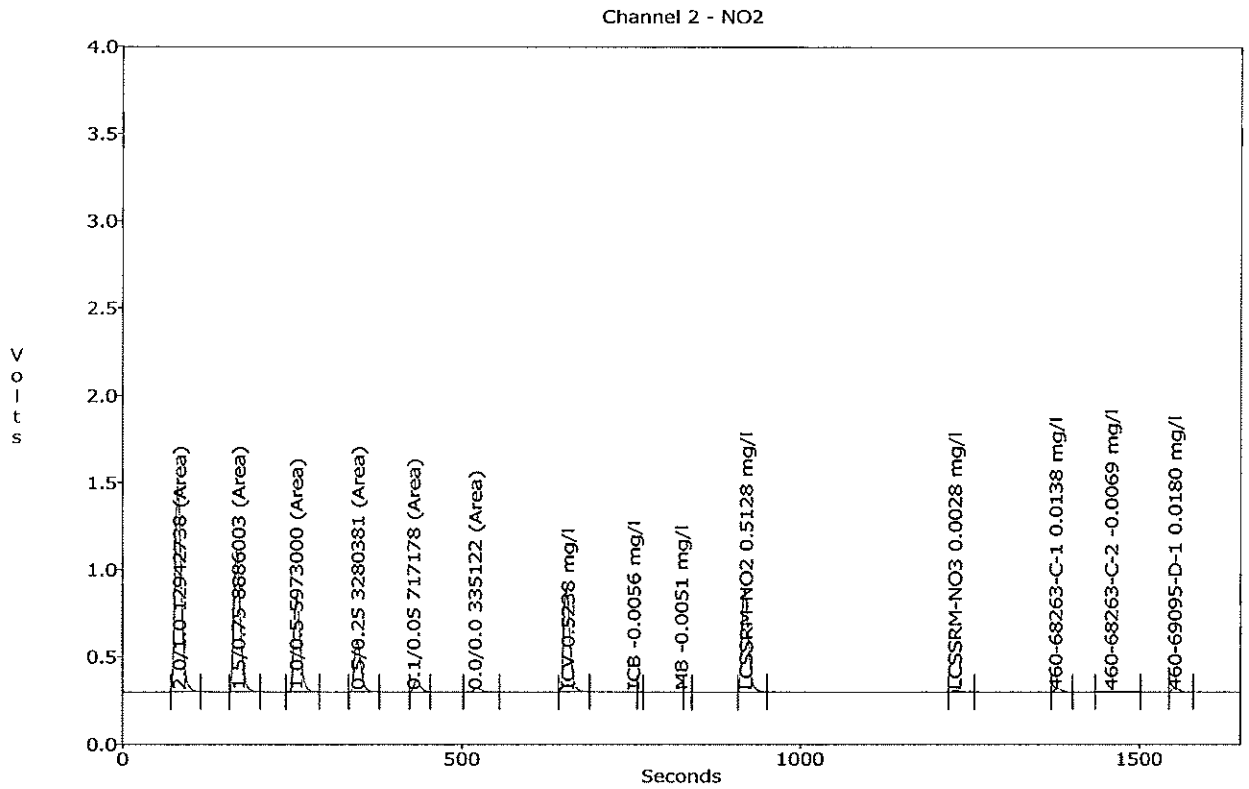
Method Cycle Period:	90.0
Sample Reaches 1st Valve:	37.0
Valve:	On
Load Time:	0.0
Load Period:	10.0
Inject Period:	80.0

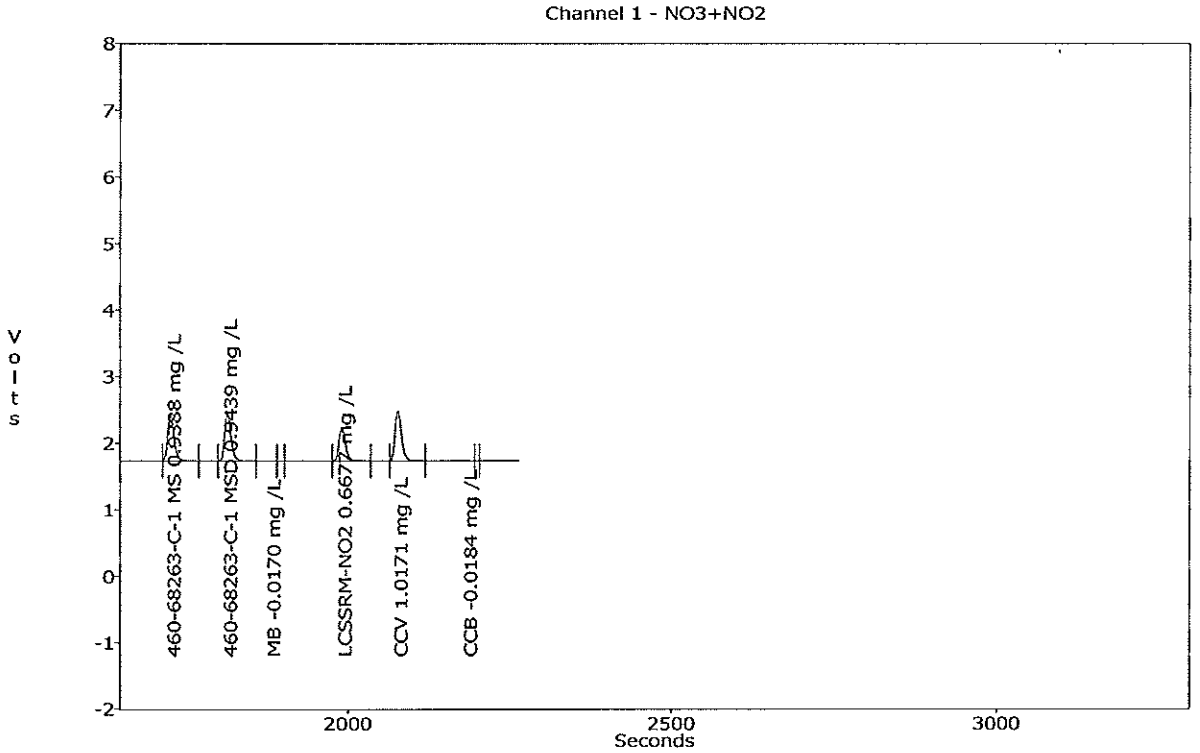
Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (uv-s)	NO2 (uv-s)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	2.0/1.0	02 Jan 2014	12:18:46	1	17411348.00	12942738.00	1.0	1.00	1.00000	g
2	1.5/0.75	02 Jan 2014	12:20:14	1	12522240.00	8886003.00	1.0	1.00	1.00000	g
3	1.0/0.5	02 Jan 2014	12:21:42	1	8319892.00	5973000.00	1.0	1.00	1.00000	g
4	0.5/0.25	02 Jan 2014	12:23:10	1	4524378.00	3280381.00	1.0	1.00	1.00000	g
5	0.1/0.05	02 Jan 2014	12:24:38	1	1036442.00	717178.00	1.0	1.00	1.00000	g
6	0.0/0.0	02 Jan 2014	12:26:07	1	332432.00	335122.00	1.0	1.00	1.00000	g

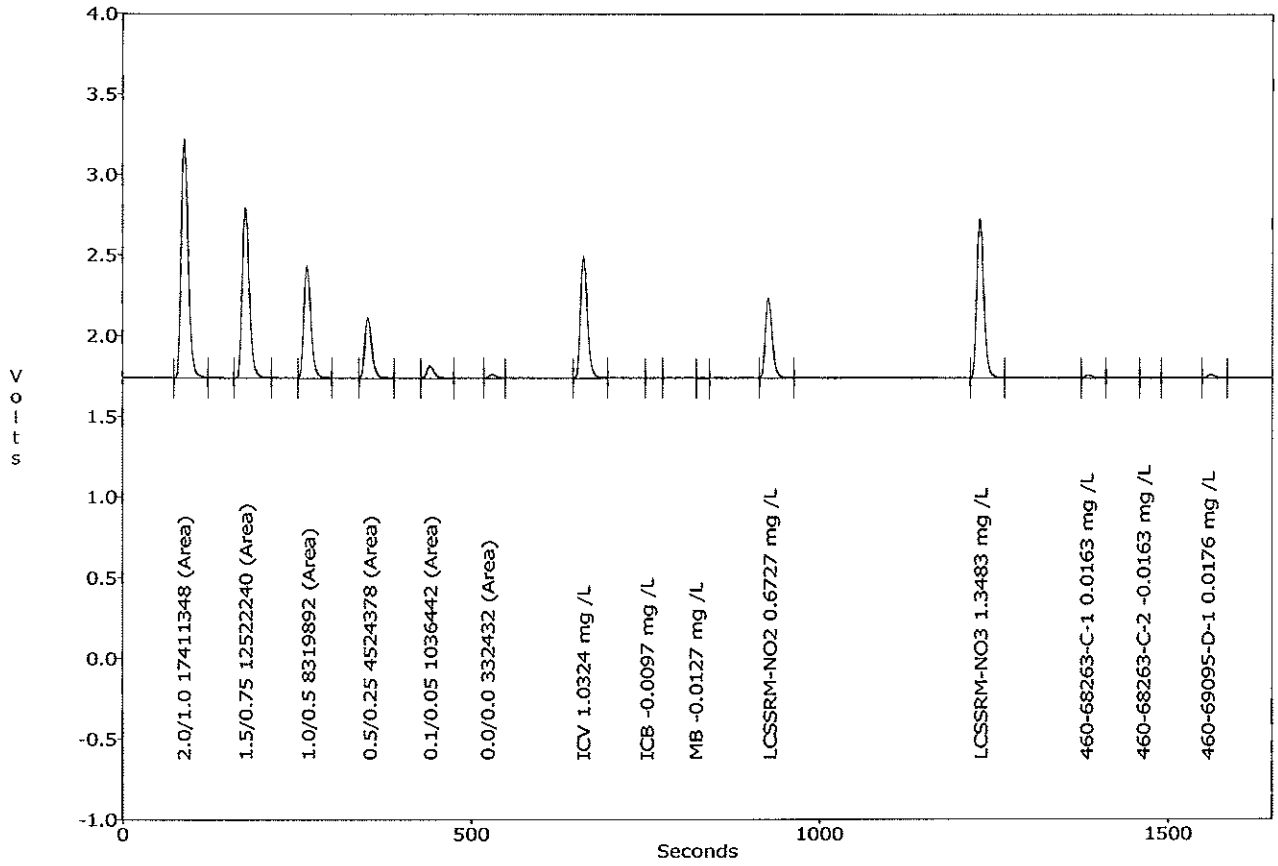
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	NO3+NO2 (mg /L)	NO2 (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV	02 Jan 2014	12:28:19	1	1.0324	0.5238	1.0	1.00	1.00000	g
2	ICB	02 Jan 2014	12:29:47	1	-0.0097	-0.0056	1.0	1.00	1.00000	g
3	MB	02 Jan 2014	12:31:16	1	-0.0127	-0.0051	1.0	1.00	1.00000	g
4	LCSSRM-NO2	02 Jan 2014	12:32:44	1	0.6727	0.5128	1.0	1.00	1.00000	g
5	LCSSRM-NO3	02 Jan 2014	12:37:49	1	1.3483	0.0028	1.0	1.00	1.00000	g
6	460-68263-C-1	02 Jan 2014	12:40:24	1	0.0163	0.0138	1.0	1.00	1.00000	g
7	460-68263-C-2	02 Jan 2014	12:41:52	1	-0.0163	-0.0069	1.0	1.00	1.00000	g
8	460-69095-D-1	02 Jan 2014	12:43:20	1	0.0176	0.0180	1.0	1.00	1.00000	g
9	460-68263-C-1 MS	02 Jan 2014	12:46:13	1	0.9388	0.4754	1.0	1.00	1.00000	g
10	460-68263-C-1 MSD	02 Jan 2014	12:47:40	1	0.9439	0.4787	1.0	1.00	1.00000	g
11	MB	02 Jan 2014	12:49:08	1	-0.0170	-0.0018	1.0	1.00	1.00000	g
12	LCSSRM-NO2	02 Jan 2014	12:50:35	1	0.6677	0.4653	1.0	1.00	1.00000	g
13	CCV	02 Jan 2014	12:52:02	1	1.0171	0.5129	1.0	1.00	1.00000	g
14	CCB	02 Jan 2014	12:54:21	1	-0.0184	-0.0057	1.0	1.00	1.00000	g

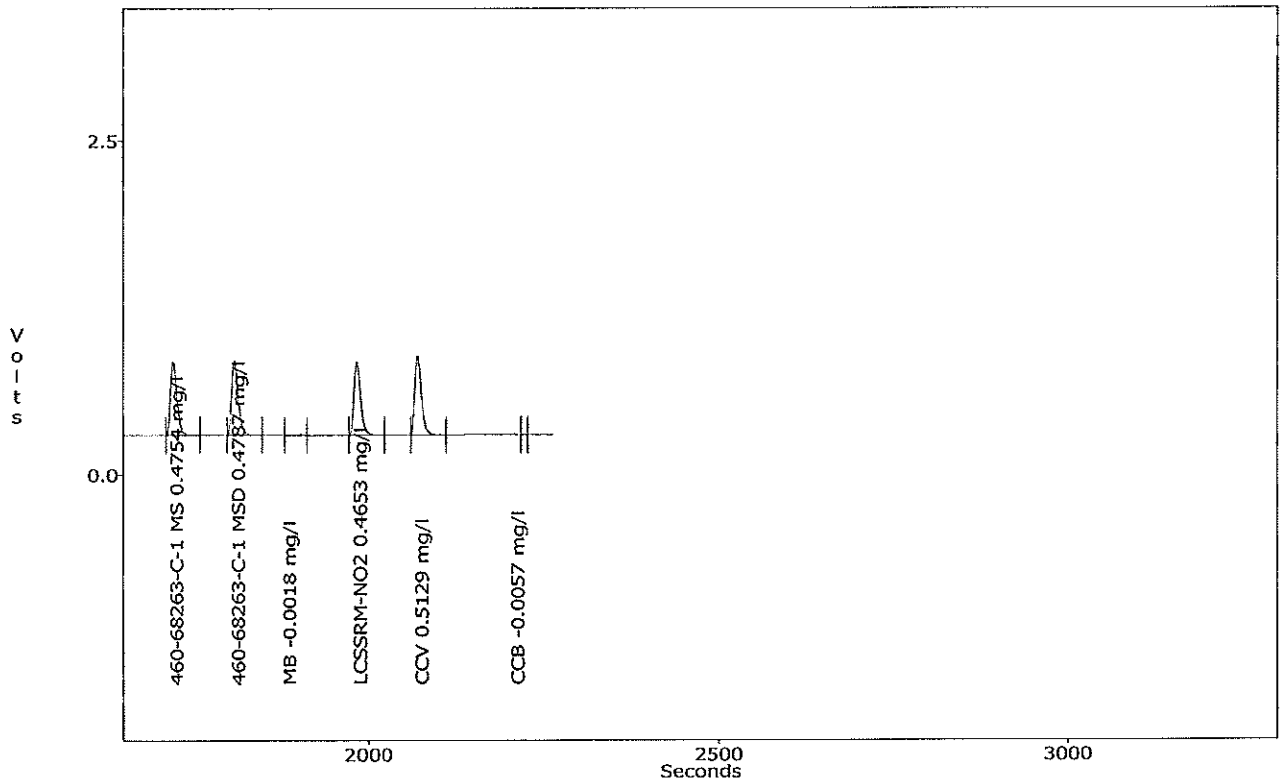

Channel 2 - NO2
Volts
Seconds
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2.0/1.0 1294278 (Area)
1.5/0.75 8866003 (Area)
1.0/0.5 5973000 (Area)
0.5/0.25 3280381 (Area)
0.1/0.05 717178 (Area)
0.0/0.0 335122 (Area)
ICV 0.5298 mg/l
ICB -0.0056 mg/l
MB -0.0051 mg/l
LCSSRM-NO2 0.5128 mg/l
LCSSRM-NO3 0.0028 mg/l
460-68263-C-1 0.0138 mg/l
460-68263-C-2 -0.0069 mg/l
460-69095-D-1 0.0180 mg/l


Channel 1 - NO3+NO2
Volts
Seconds
8
7
6
5
4
3
2
1
0
-1
-2
2000
2500
3000
460-68263-C-1 MS 0.9988 mg /L
460-68263-C-1 MSD 0.9439 mg /L
MB -0.0170 mg /L
LCSSRM-NO2 0.6677 mg /L
CCV 1.0171 mg /L
CCB -0.0184 mg /L

Channel 1 - NO3+NO2



Channel 2 - NO2

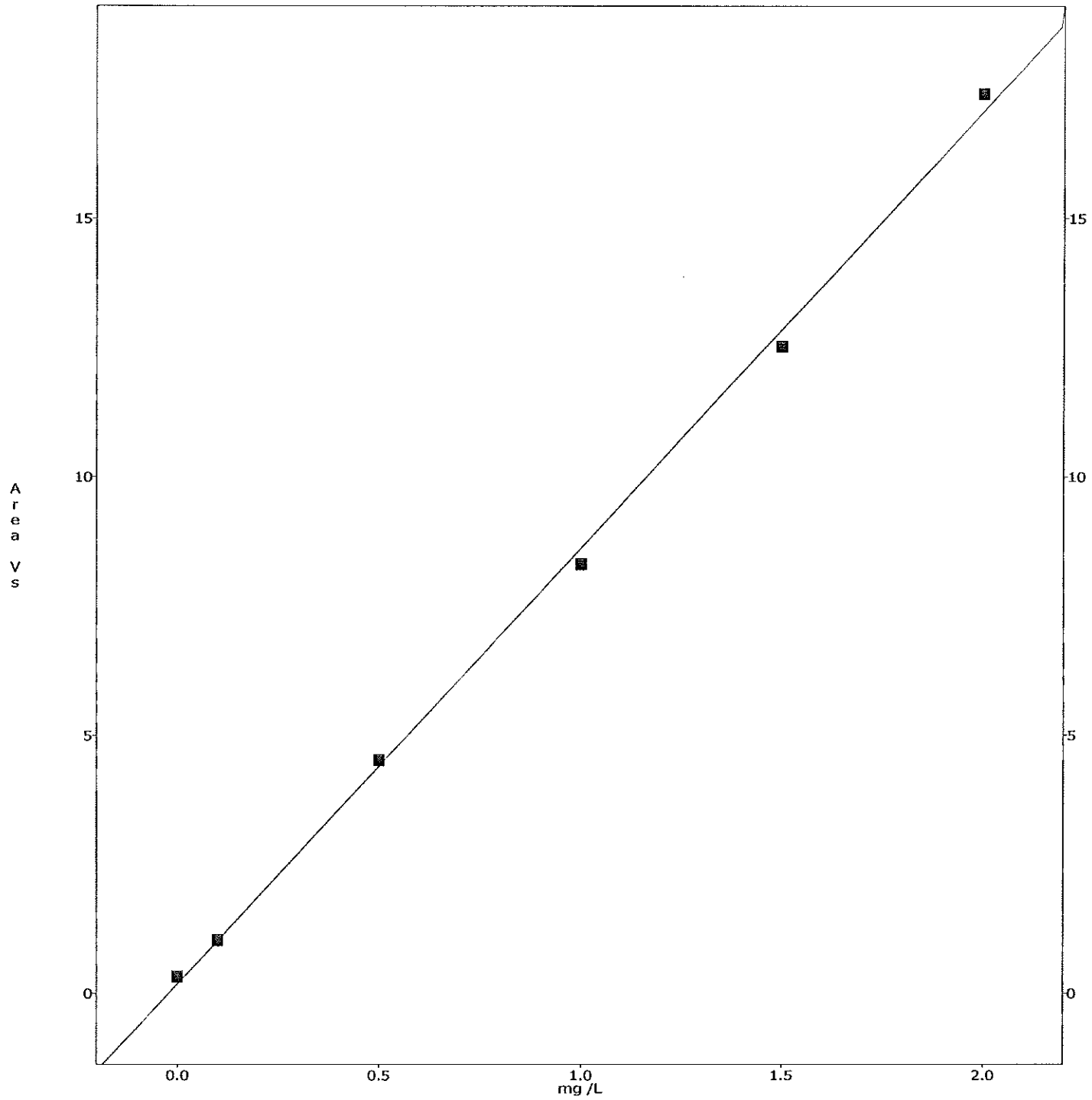


NO3+NO2

Lvl	Area	mg /L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	17411348	2.0	17411348					0.0	0.0	-2.0
2	12522240	1.5	12522240					0.0	0.0	2.6
3	8319892	1.0	8319892					0.0	0.0	3.6
4	4524378	0.5	4524378					0.0	0.0	-2.9
5	1036442	0.1	1036442					0.0	0.0	-1.4
6	332432	0.0	332432					0.0	0.0	

1st Order Poly
Conc = 1.184e-007 Area - 2.139e-002
r = 0.9992

Scaling: None - Weighting: None



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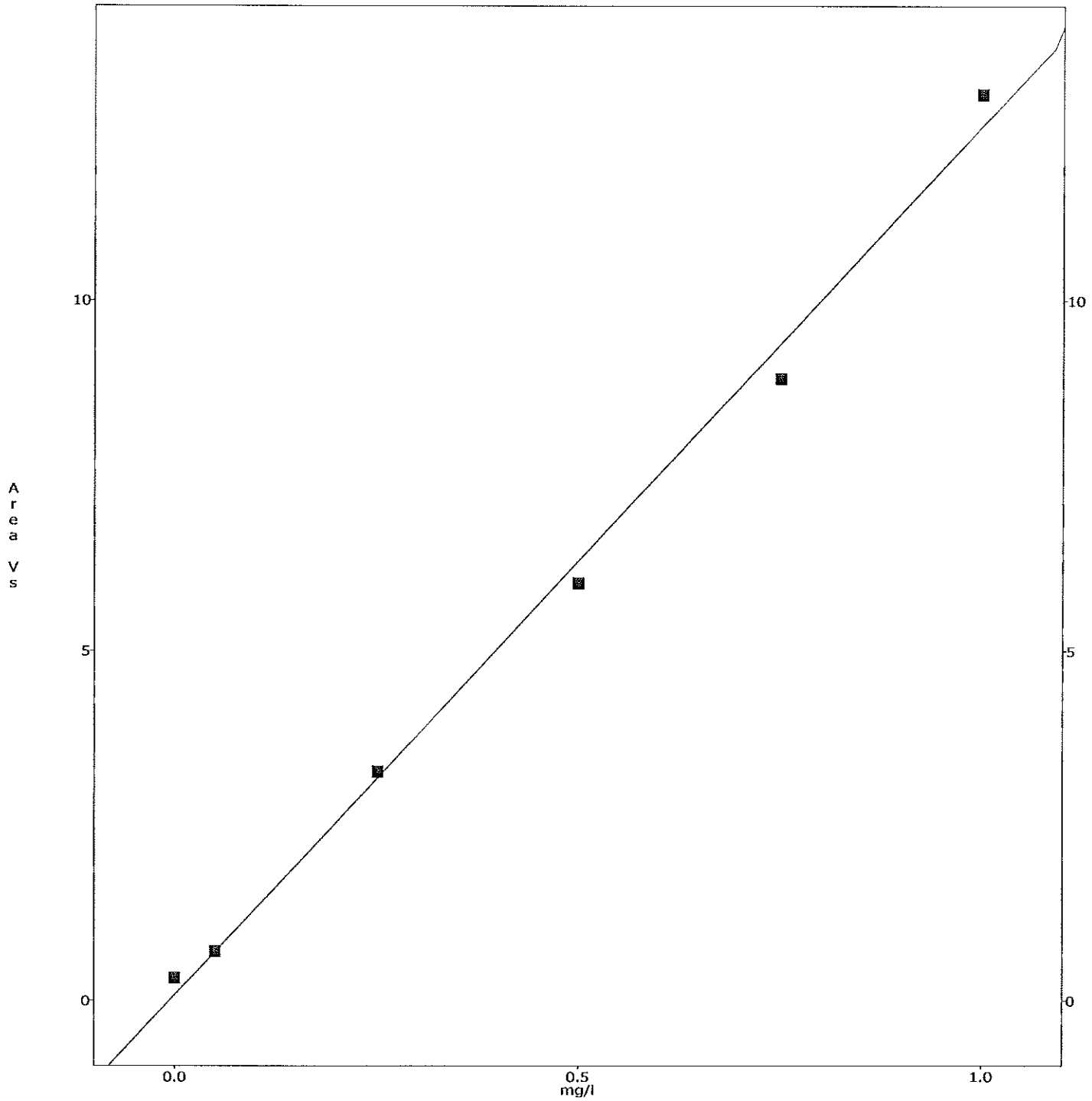
NO2

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	12942738	1.00	12942738					0.0	0.0	-3.7
2	8886003	0.75	8886003					0.0	0.0	5.4
3	5973000	0.50	5973000					0.0	0.0	5.0
4	3280381	0.25	3280381					0.0	0.0	-3.1
5	717178	0.05	717178					0.0	0.0	-1.9
6	335122	0.00	335122					0.0	0.0	

1st Order Poly
Conc = 8.064e-008 Area - 6.884e-003
r = 0.9974

Scaling: None - Weighting: None



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TESTAMERICA- EDISON

Total Alkalinity (SM 2320B), Free Co2 (4500CO2-D)

Run Number 4445 **Order Number** 20131226-2

Job# Sample#	Analysis amt Batch#	RunDate	RunTime	Temp	pH	pH2	palk (mg/L) as CaCO3	talk (mg/L) as CaCO3	bcarb (mg/L) as CaCO3	carb (mg/L) as CaCO3	hydr (mg/L) as CaCO3	Free CO2 (mg/L) as CaCO3	(mL) H2S04 @ 8.3	(mL) H2S04 @ 4.5	(mL) H2S04 @ 4.2
rinse	ALKALINITY 25ML	12/26/2013	11:07 AM	19.14	5.357	.00	0.000	50.787	50.787	0.000	0.000	446.773	0.000	1.281	1.668
mb	ALKALINITY 25ML	12/26/2013	11:14 AM	18.63	5.383	.00	0.000	0.190	0.190	0.000	0.000	1.576	0.000	0.045	0.085
lcssrm	ALKALINITY 25ML	12/26/2013	11:21 AM	17.28	8.690	.00	7.703	35.324	19.919	15.405	0.000	0.081	0.194	0.891	0.946

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GENERAL RESULTS REPORT.SRW

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TESTAMERICA- EDISON

Total Alkalinity (SM 2320B), Free Co2 (4500CO2-D)

Run Number 4446 **Order Number** 20131226-3

Job# Sample#	Analysis amt Batch#	RunDate	RunTime	Temp	pH	pH2	palk (mg/L) as CaCO3	talk (mg/L) as CaCO3	bcarb (mg/L) as CaCO3	carb (mg/L) as CaCO3	hydr (mg/L) as CaCO3	Free CO2 (mg/L) as CaCO3	(mL) H2S04 @ 8.3	(mL) H2S04 @ 4.5	(mL) H2S04 @ 4.2
460-68260-G-1	ALKALINITY 25ML	12/26/2013	12:17 PM	14.26	7.591	.00	0.000	212.785	212.785	0.000	0.000	10.921	0.000	5.368	5.652
460-68260-G-1 du	ALKALINITY 25ML	12/26/2013	12:24 PM	13.86	7.635	.00	0.000	215.132	215.132	0.000	0.000	9.960	0.000	5.427	5.685
460-68217-G-2	ALKALINITY 25ML	12/26/2013	12:31 PM	14.65	7.966	.00	0.000	140.048	140.048	0.000	0.000	3.029	0.000	3.533	3.719
460-68217-G-3	ALKALINITY 25ML	12/26/2013	12:38 PM	14.82	7.942	.00	0.000	359.705	359.705	0.000	0.000	8.213	0.000	9.075	9.485
460-68217-G-4	ALKALINITY 25ML	12/26/2013	12:44 PM	15.35	7.985	.00	0.000	180.952	180.952	0.000	0.000	3.750	0.000	4.565	4.849
460-68217-G-5	ALKALINITY 25ML	12/26/2013	12:50 PM	15.00	7.950	.00	0.000	170.651	170.651	0.000	0.000	3.827	0.000	4.305	4.563
460-68260-G-2	ALKALINITY 25ML	12/26/2013	12:58 PM	15.14	7.624	.00	0.000	220.814	220.814	0.000	0.000	10.490	0.000	5.571	5.867
460-68260-G-3	ALKALINITY 25ML	12/26/2013	1:04 PM	15.41	7.615	.00	0.000	222.423	222.423	0.000	0.000	10.787	0.000	5.611	5.986
460-68260-G-4	ALKALINITY 25ML	12/26/2013	1:11 PM	15.62	7.630	.00	0.000	213.360	213.360	0.000	0.000	10.014	0.000	5.383	5.637
460-68260-G-5	ALKALINITY 25ML	12/26/2013	1:18 PM	15.20	7.653	.00	0.000	193.218	193.218	0.000	0.000	8.584	0.000	4.875	5.148
460-68260-G-6	ALKALINITY 25ML	12/26/2013	1:25 PM	15.07	7.712	.00	0.000	230.438	230.438	0.000	0.000	8.943	0.000	5.814	6.139
460-68260-G-7	ALKALINITY 25ML	12/26/2013	1:32 PM	15.92	7.739	.00	0.000	130.385	130.385	0.000	0.000	4.754	0.000	3.289	3.464
460-68260-G-8	ALKALINITY 25ML	12/26/2013	1:38 PM	16.79	7.797	.00	0.000	131.206	131.206	0.000	0.000	4.186	0.000	3.310	3.474
460-68228-J-1	ALKALINITY 25ML	12/26/2013	1:46 PM	17.11	5.851	.00	0.000	10.511	10.511	0.000	0.000	29.644	0.000	0.305	0.346
460-68228-J-2	ALKALINITY 25ML	12/26/2013	1:52 PM	15.87	8.033	.00	0.000	187.165	187.165	0.000	0.000	3.472	0.000	4.722	4.976
460-68228-J-3	ALKALINITY 25ML	12/26/2013	1:58 PM	16.72	5.577	.00	0.000	0.381	0.381	0.000	0.000	2.015	0.000	0.066	0.123
460-68336-F-1	ALKALINITY 25ML	12/26/2013	2:04 PM	17.25	6.814	.00	0.000	373.812	373.812	0.000	0.000	114.625	0.000	9.431	10.051
460-68263-F-1	ALKALINITY 25ML	12/26/2013	2:11 PM	17.53	7.820	.00	0.000	160.878	160.878	0.000	0.000	4.872	0.000	4.059	4.317
460-68263-F-2	ALKALINITY 25ML	12/26/2013	2:18 PM	17.18	7.804	.00	0.000	188.936	188.936	0.000	0.000	5.929	0.000	4.767	5.052
460-68263-F-3	ALKALINITY 25ML	12/26/2013	2:24 PM	16.77	7.390	.00	0.000	198.810	198.810	0.000	0.000	16.180	0.000	5.016	5.402
460-68263-F-5	ALKALINITY 25ML	12/26/2013	2:32 PM	17.57	8.041	.00	0.000	133.591	133.591	0.000	0.000	2.431	0.000	3.370	3.551

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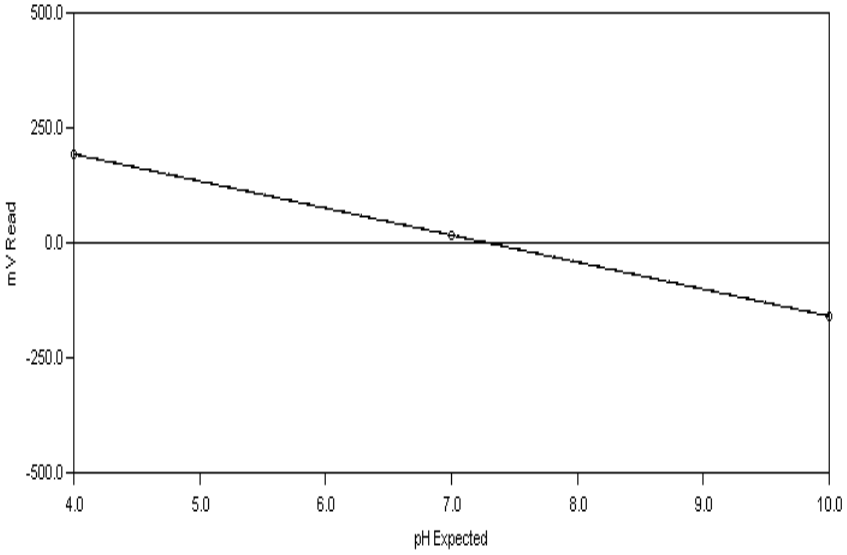
PC-TitratION PLUS
Calibration Report

Calibration Record # 1154



Calibration Settings

Calibration ID	PH CAL 4-7-10	Date	12/26/2013	
Channel	1	Time	10:47 AM	
Probe Type	pH	Temperature	290.28 K	17.13 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-58.918	CorrCoeff	1.0000
Intercept	17.250	Equation: Y = (-58.918) X + (17.250)	

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-58.918	-65.00	-53.00
Intercept	17.250	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	**Standard**	**Reading**
	4.00	193.60
	7.00	18.06
	10.00	-159.91

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BATCH	JOB	SAMPLE	DIL	ABS	BG	RESULT	SPIKE	% REC	TIME
		0		0					
		0.03		0.020					
		0.05		0.034					
		0.10		0.070					
		0.20		0.140					
		0.50		0.359					
		CCV		0.145		0.204	0.200	102%	5:30PM
		CCB		0		ND			5:31
		HB		0		ND			5:32
		LCS	2/50	0.159		5.58	5.34	104%	5:34
177439	61610	61610-11i		0.033		0.048			5:35
		61610-11iMS		0.173		0.243	0.200	97.5%	5:36
		61610-11iMSD		0.173		0.243	0.200	97.5%	5:37
		61610-11		-0.001		ND			5:38
		61610-2i		0.319		0.45			5:39
		61610-3i		0.191	0.031	0.22			5:40
		61610-5i		0.011		ND			5:41
		61610-9i		0.077		0.11			5:42
		CCV		0.143		0.201	0.200	101%	5:44
		CCB		0		ND			5:45
		61610-10i		0.009		ND			5:47
		61610-12i		0.040		0.058			5:48
		61610-13i		0.010		ND			5:49
		CCV		0.143		0.201	0.200	101%	5:51
		CCB		0		ND			5:52PM

		Exp.
#	Calibration on : 08/21/13	(02/14/14)
#	B-2886-13: 5N H_2SO_4	(02/15/14)
#	B-2862-13: NH_4MOLYBDATE	(01/23/14)
#	B-2812-13: ANT. POT. TARTRATE	(12/14/13)
#	B-2887-13: ASCORBIC ACID	(08/22/13)
#	LCS (P203-505): 5.34 ppm (4.60 - 5.82)	(03/31/15)

Continued on Page

Read and Understood By

Signed 08/21/13 Signed

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
RF Rounding:	0

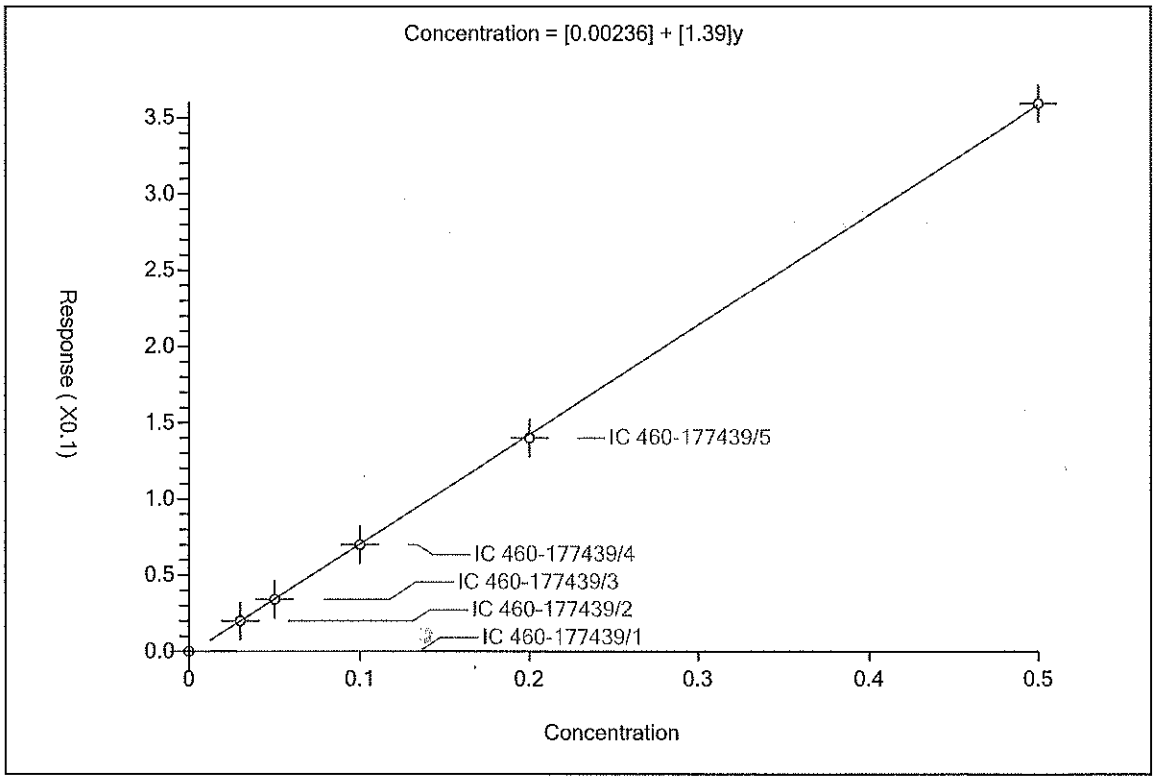
Curve Coefficients

Intercept:	0.00236
Slope:	1.39

Error Coefficients

Standard Error:	0.00206
Relative Standard Error:	NC
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 460-177439/1	0.0	0.0			NaN	Y
2	IC 460-177439/2	0.03	0.02			0.666667	Y
3	IC 460-177439/3	0.05	0.034			0.68	Y
4	IC 460-177439/4	0.1	0.07			0.7	Y
5	IC 460-177439/5	0.2	0.14			0.7	Y
6	IC 460-177439/6	0.5	0.359			0.718	Y



Batch	Sample	Dil	Abs	BG	Result	Time
	0.0		0.00			
	0.03		0.020			
	0.05		0.034			
	0.1		Re ~~0.140~~ 0.070			
	0.2		Re ~~0.359~~ 0.140			
	0.5		Re ~~0.145~~ 0.359			
	ICV		0.144		0.20	8:50
	ICB		0.00			
	MB		0.00			
	LCS	2/50	0.165		5.79	
197186	68260-1		0.077	0.019	0.083	
	68260-2		0.055	0.004	0.073	
	68260-3		0.040	0.001	0.057	9:10
	68260-4		0.248	0.00	0.35	9:30
	68260-5		0.323	0.00	0.45	
	68260-6		0.039	0.00	0.057	
N/A	68260-7		0.564	—		
	68260-8		0.172	0.006	0.23	
	CCV		0.144			
	CCB		0.00			9:45
	68263-1		0.170		0.24	10:00
	68263-2		0.210		0.29	
	68263-3		0.312		0.44	
	68263-4		0.121		0.17	
	68263-5		0.140		0.20	
	68263-6		0.103		0.15	
	68263-7		0.101		0.14	
	68263-8		0.142		0.20	
	68263-9		0.063		0.090	
	68263-10		0.075		0.11	
	CCV		0.144			
	CCB		0.00			
	68263-11		0.132		0.19	

Continued on Page

Read and Understood By

Signed: Rae Date: 12/14/9 Signed: Date:

Batch	Sample	D.P.	HCS	BB	Result	Time
	68260-7	10/50	0.120		0.45	
	68260-9	ms	0.214		0.30	
	68260-9	msd	0.212		0.30	
	CCV		0.144			
	CCB		0.00			11:30

Continued on Page

Read and Understood By

Signed RER Date 12/14/13 Signed Date

Dilution Form
Wet Chemistry

Method No.: 4500 P-E ORTHO

Analyst: 12/14/13

Prep Batch:

Analysis Date: Rec

Analytical Batch: 197786

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
68260-7	5x	10	50	DI

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
RF Rounding:	0

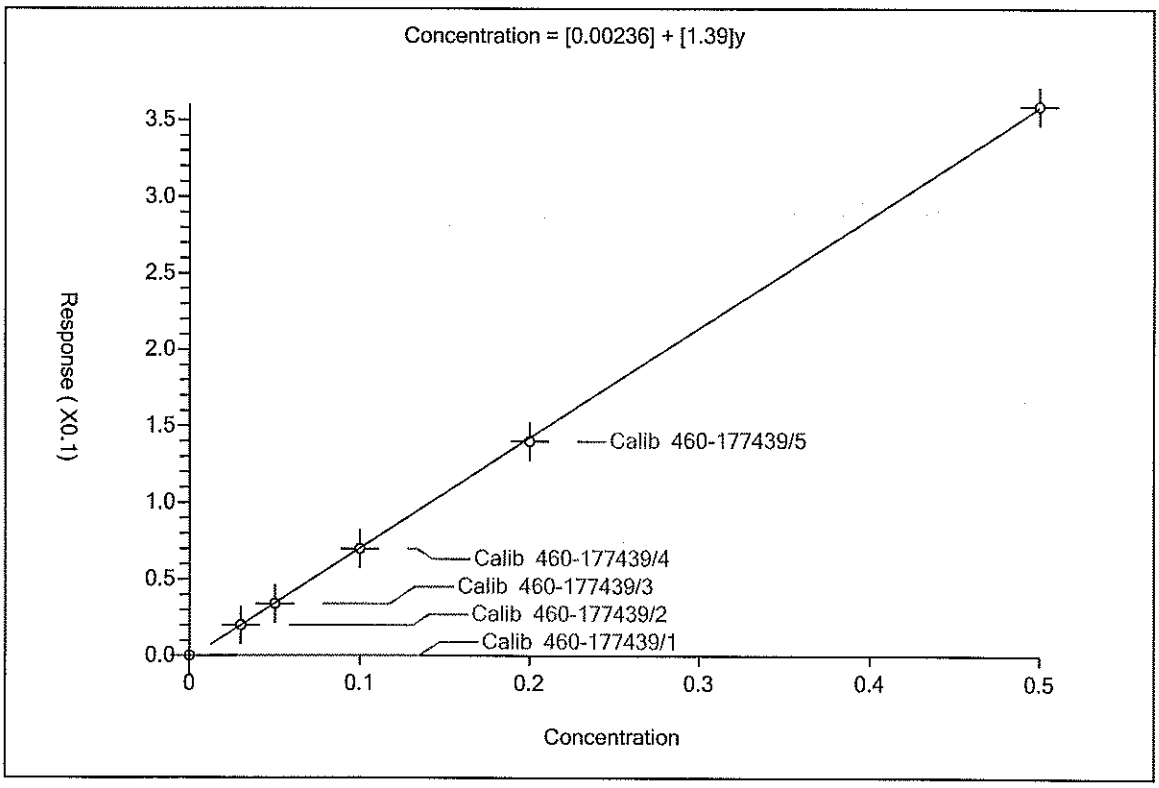
Curve Coefficients

Intercept:	0.00236
Slope:	1.39

Error Coefficients

Standard Error:	0.00206
Relative Standard Error:	NC
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	Calib 460-177439/1	0.0	0.0			NaN	Y
2	Calib 460-177439/2	0.03	0.02			0.666667	Y
3	Calib 460-177439/3	0.05	0.034			0.68	Y
4	Calib 460-177439/4	0.1	0.07			0.7	Y
5	Calib 460-177439/5	0.2	0.14			0.7	Y
6	Calib 460-177439/6	0.5	0.359			0.718	Y



Instr.Information

Catalyst Regular Sensitivity

Sample

Sample Name: Untitled
Sample ID: ICV
Object ID 0L-10000101016-04900389-1332D95195F5-0000
Origin: 5310b.met
Status Completed
Chk. Result

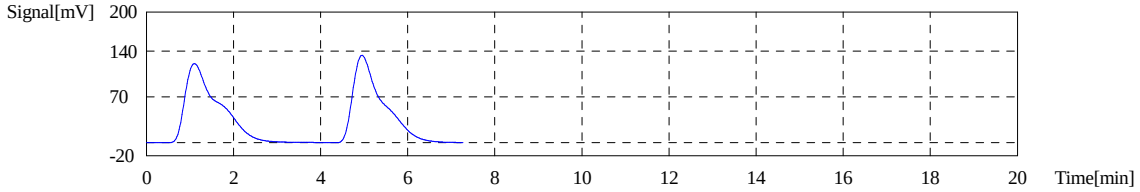
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:52.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	639.7	52.38mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:00:16 AM
2	635.1	52.00mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:03:58 AM

Mean Area 637.4
Mean Conc. 52.19mg/L
Vial 1



Sample

Sample Name: Untitled
Sample ID: ICB
Object ID 0L-10000101016-04900389-1332D95195F6-0000
Origin: 5310b.met
Status Completed
Chk. Result

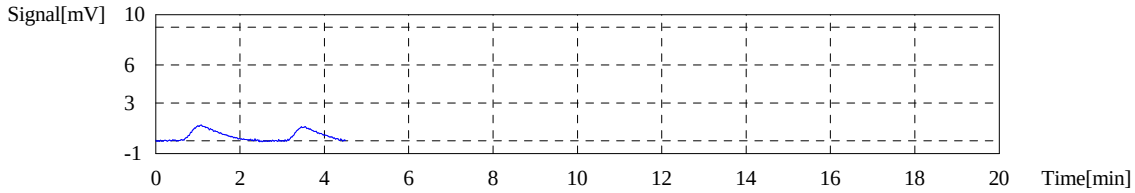
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2675mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.361	0.2948mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:20:32 AM
2	4.696	0.2402mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:22:50 AM

Mean Area 5.029
Mean Conc. 0.2675mg/L
Vial 2



Sample

Sample Name: Untitled
Sample ID: MB
Object ID 0L-10000101016-04900389-1332D95195F6-0001
Origin: 5310b.met
Status Completed
Chk. Result

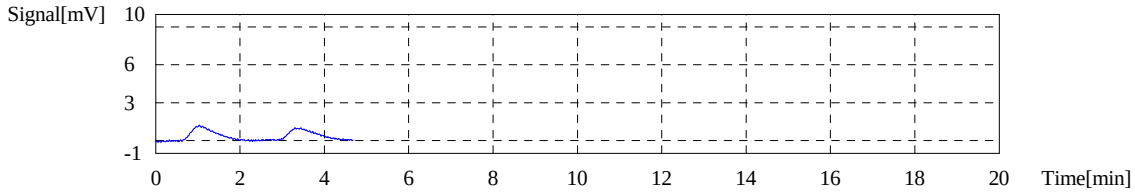
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2560mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.218	0.2830mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:39:15 AM
2	4.560	0.2290mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:41:53 AM

Mean Area 4.889
Mean Conc. 0.2560mg/L
Vial 3



Sample

Sample Name: Untitled
Sample ID: LCSSRM
Object ID 0L-10000101016-04900389-1332D95195F6-0002
Origin: 5310b.met
Status Completed
Chk. Result

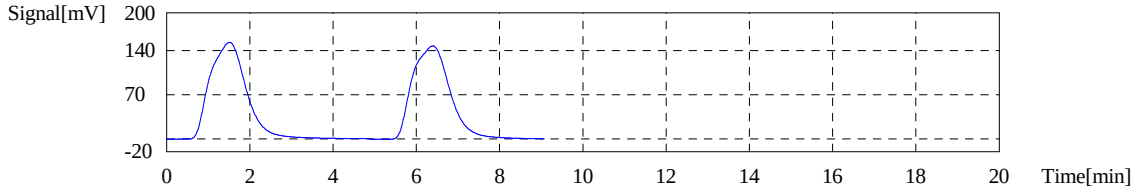
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:75.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	925.4	75.84mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 12:09:19 PM
2	918.9	75.31mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 12:13:45 PM

Mean Area 922.2
Mean Conc. 75.57mg/L
Vial 4



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-1
Object ID 0L-10000101016-04900389-1332D95195F6-0003
Origin: 5310b.met
Status Completed
Chk. Result

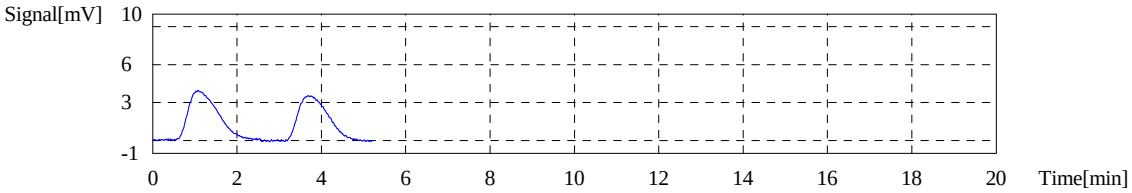
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.344mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.60	1.382mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 12:36:37 PM
2	17.68	1.306mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 12:39:29 PM

Mean Area 18.14
Mean Conc. 1.344mg/L
Vial 5



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-1 MS
Object ID 0L-10000101016-04900389-1332D95195F6-0004
Origin: 5310b.met
Status Completed
Chk. Result

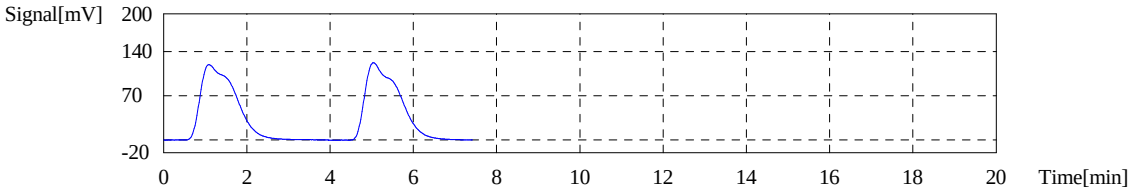
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:56.31mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	689.4	56.46mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 12:57:34 PM
2	685.7	56.16mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:01:18 PM

Mean Area 687.5
Mean Conc. 56.31mg/L
Vial 6



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-1 MSD
Object ID 0L-10000101016-04900389-1332D95195F6-0005
Origin: 5310b.met
Status Completed
Chk. Result

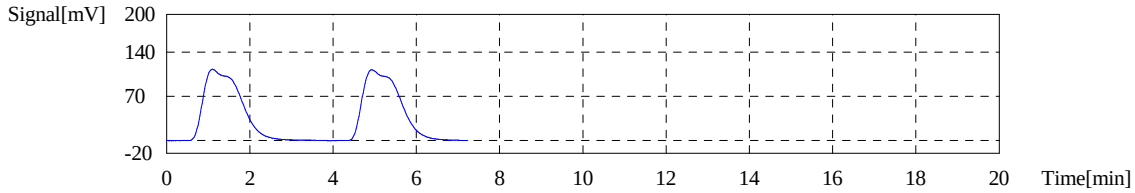
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:56.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	688.5	56.39mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:19:14 PM
2	685.0	56.10mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:22:56 PM

Mean Area 686.8
Mean Conc. 56.25mg/L
Vial 7



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-2
Object ID 0L-10000101016-04900389-1332D95195F6-0006
Origin: 5310b.met
Status Completed
Chk. Result

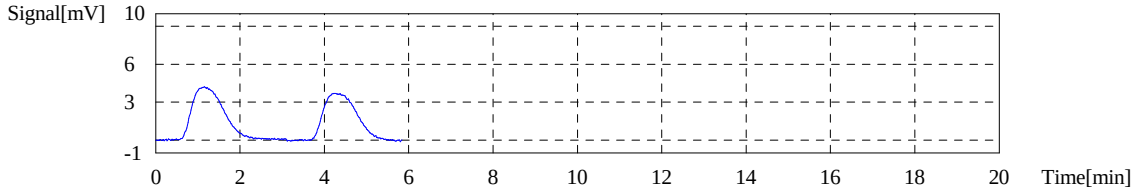
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.620mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.03	1.664mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:40:09 PM
2	20.98	1.577mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:43:10 PM

Mean Area 21.51
Mean Conc. 1.620mg/L
Vial 8



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-3
Object ID 0L-10000101016-04900389-1332D95195F6-0007
Origin: 5310b.met
Status Completed
Chk. Result

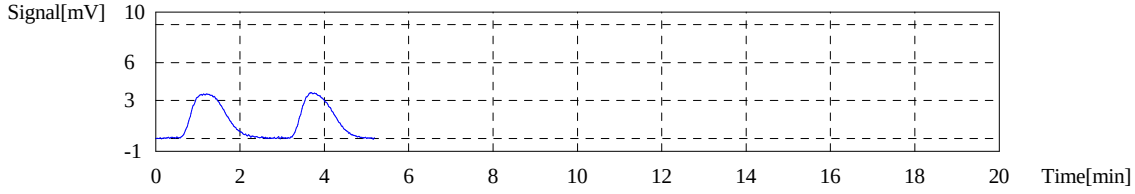
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.373mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.67	1.388mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 1:59:53 PM
2	18.32	1.359mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:02:42 PM

Mean Area 18.50
Mean Conc. 1.373mg/L
Vial 9



Sample

Sample Name:	Untitled
Sample ID:	460-68263-b-4
Object ID	0L-10000101016-04900389-1332D95195F6-0008
Origin:	5310b.met
Status	Completed
Chk. Result	

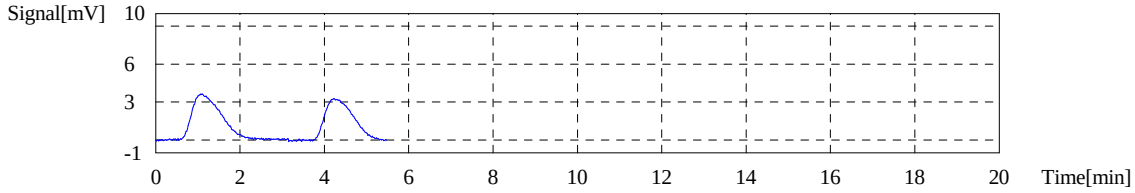
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.212mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.65	1.304mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:19:59 PM
2	15.41	1.120mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:22:32 PM

Mean Area	16.53
Mean Conc.	1.212mg/L
Vial	10



Sample

Sample Name:	Untitled
Sample ID:	460-68263-b-5
Object ID	0L-10000101016-04900389-1332D95195F6-0009
Origin:	5310b.met
Status	Completed
Chk. Result	

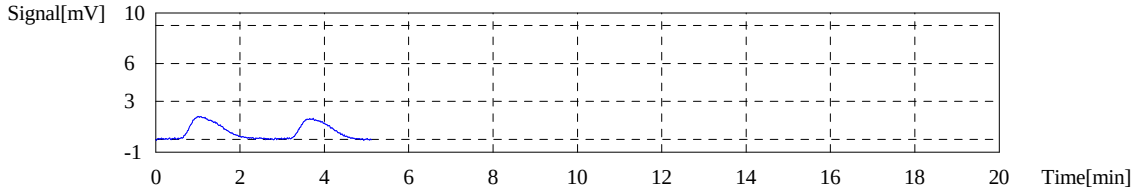
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5448mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.713	0.5700mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:39:16 PM
2	8.099	0.5196mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:42:01 PM

Mean Area	8.406
Mean Conc.	0.5448mg/L
Vial	11



Sample

Sample Name:	Untitled
Sample ID:	460-68263-b-6
Object ID	0L-10000101016-04900389-1332D95195F6-000A
Origin:	5310b.met
Status	Completed
Chk. Result	

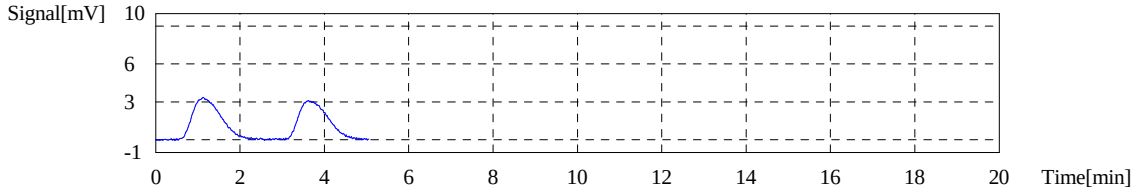
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.095mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.28	1.109mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 2:58:44 PM
2	14.94	1.081mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 3:01:31 PM

Mean Area 15.11
Mean Conc. 1.095mg/L
Vial 12



Sample

Sample Name: Untitled
Sample ID: CCV
Object ID 0L-10000101016-04900389-1332D95195F6-000B
Origin: 5310b.met
Status Completed
Chk. Result

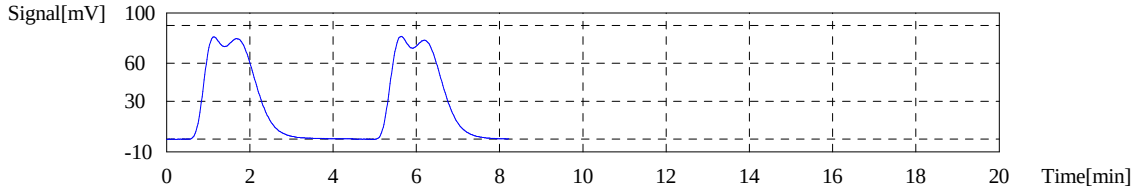
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:52.53mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	644.5	52.78mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 3:20:06 PM
2	638.6	52.29mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 3:24:13 PM

Mean Area 641.5
Mean Conc. 52.53mg/L
Vial 13



Sample

Sample Name: Untitled
Sample ID: CCB
Object ID 0L-10000101016-04900389-1332D95195F6-000C
Origin: 5310b.met
Status Completed
Chk. Result

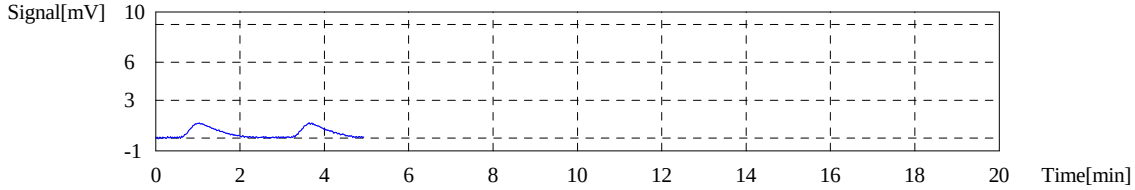
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2744mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.501	0.3063mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 3:41:00 PM
2	4.726	0.2426mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 3:43:41 PM

Mean Area 5.114
Mean Conc. 0.2744mg/L
Vial 14



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-7
Object ID 0L-10000101016-04900389-1332D95195F6-000D
Origin: 5310b.met
Status Completed
Chk. Result

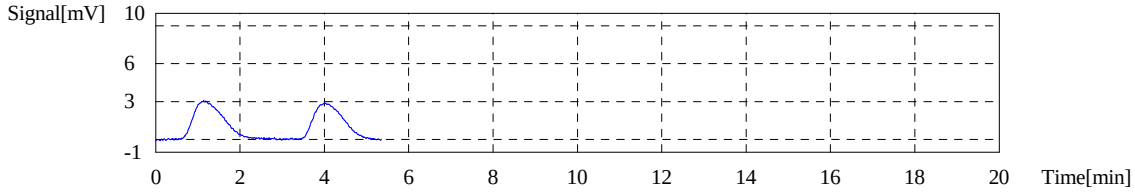
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.069mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.88	1.076mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:00:38 PM
2	14.71	1.062mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:03:27 PM

Mean Area 14.80
Mean Conc. 1.069mg/L
Vial 15



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-8
Object ID 0L-10000101016-04900389-1332D95195F6-000E
Origin: 5310b.met
Status Completed
Chk. Result

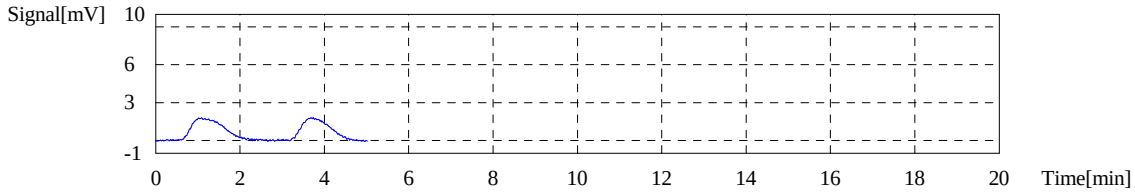
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6097mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.554	0.6391mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:20:08 PM
2	8.839	0.5804mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:22:48 PM

Mean Area 9.197
Mean Conc. 0.6097mg/L
Vial 16



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-9
Object ID 0L-10000101016-04900389-1332D95195F6-000F
Origin: 5310b.met
Status Completed
Chk. Result

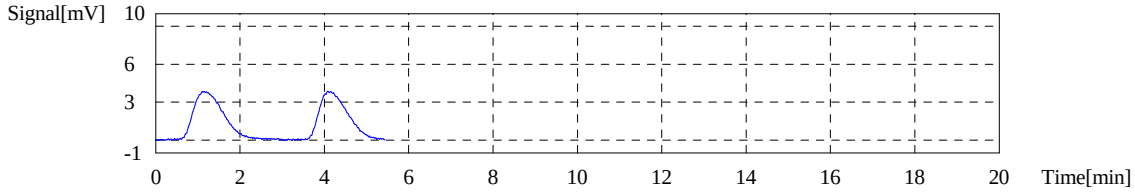
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.371mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.01	1.416mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:39:54 PM
2	17.93	1.327mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 4:42:37 PM

Mean Area 18.47
Mean Conc. 1.371mg/L
Vial 17



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-10
Object ID 0L-10000101016-04900389-1332D95195F6-0010
Origin: 5310b.met
Status Completed
Chk. Result

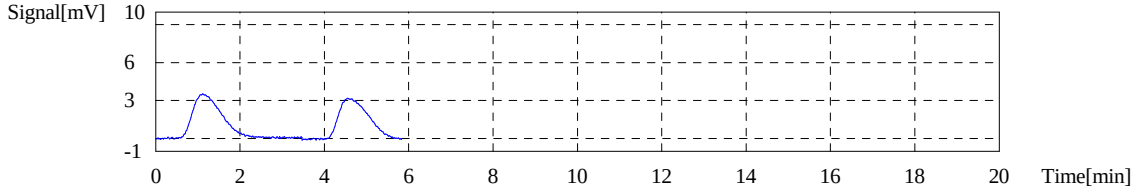
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.218mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.09	1.258mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:00:10 PM
2	16.11	1.177mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:02:49 PM

Mean Area 16.60
Mean Conc. 1.218mg/L
Vial 18



Sample

Sample Name: Untitled
Sample ID: 460-68263-b-11
Object ID 0L-10000101016-04900389-1332D95195F6-0011
Origin: 5310b.met
Status Completed
Chk. Result

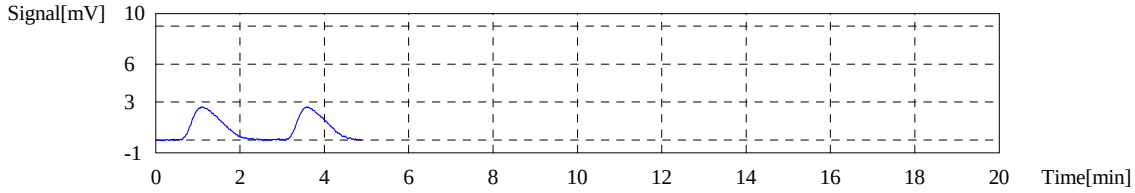
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8539mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.26	0.8613mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:19:26 PM
2	12.08	0.8465mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:22:04 PM

Mean Area 12.17
Mean Conc. 0.8539mg/L
Vial 19



Sample

Sample Name: Untitled
Sample ID: 460-68358-d-1
Object ID 0L-10000101016-04900389-1332D95195F6-0012
Origin: 5310b.met
Status Completed
Chk. Result

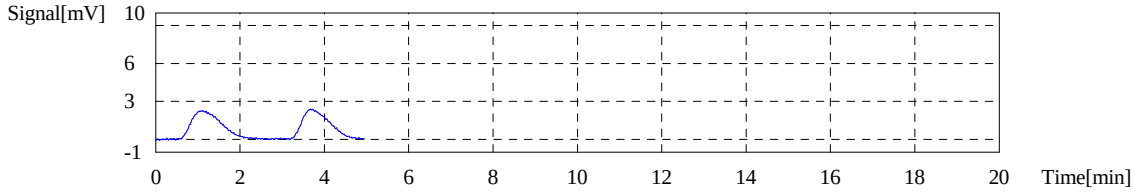
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7492mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.11	0.7668mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:38:48 PM
2	10.68	0.7315mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:41:31 PM

Mean Area 10.90
Mean Conc. 0.7492mg/L
Vial 20



Sample

Sample Name: Untitled
Sample ID: 460-68395-d-1
Object ID 0L-10000101016-04900389-1332D95195F6-0013
Origin: 5310b.met
Status Completed
Chk. Result

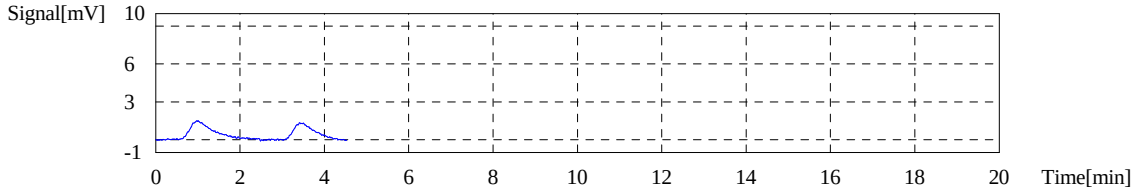
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2925mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.543	0.3097mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 5:58:05 PM
2	5.123	0.2752mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 6:00:29 PM

Mean Area 5.333
Mean Conc. 0.2925mg/L
Vial 21



Sample

Sample Name: Untitled
Sample ID: 460-68395-d-2
Object ID 0L-10000101016-04900389-1332D95195F6-0014
Origin: 5310b.met
Status Completed
Chk. Result

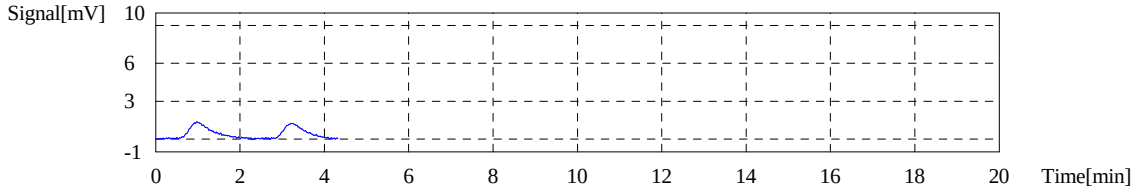
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2169mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.506	0.2246mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 6:16:50 PM
2	4.320	0.2093mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 6:19:13 PM

Mean Area 4.413
Mean Conc. 0.2169mg/L
Vial 22



Sample

Sample Name: Untitled
Sample ID: 460-68448-e-1
Object ID 0L-10000101016-04900389-1332D95195F6-0015
Origin: 5310b.met
Status Completed
Chk. Result

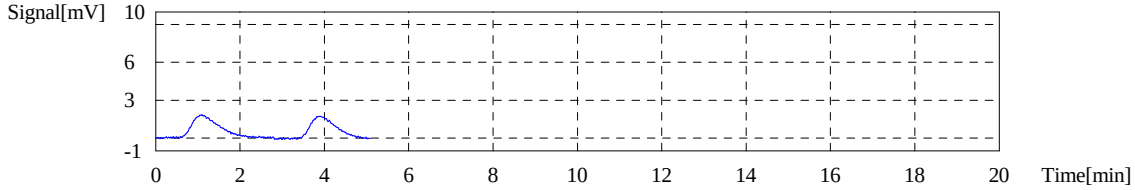
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5262mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.573	0.5585mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 6:44:41 PM
2	7.786	0.4939mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 6:47:16 PM

Mean Area 8.180
Mean Conc. 0.5262mg/L
Vial 23



Sample

Sample Name: Untitled
Sample ID: 460-68448-e-2
Object ID 0L-10000101016-04900389-1332D95195F6-0016
Origin: 5310b.met
Status Completed
Chk. Result

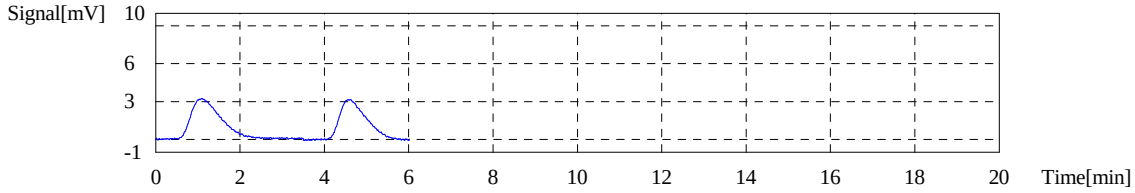
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.118mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.35	1.197mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:04:55 PM
2	14.43	1.039mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:07:42 PM

Mean Area 15.39
Mean Conc. 1.118mg/L
Vial 24



Sample

Sample Name: Untitled
Sample ID: CCV
Object ID 0L-10000101016-04900389-1332D95195F6-0017
Origin: 5310b.met
Status Completed
Chk. Result

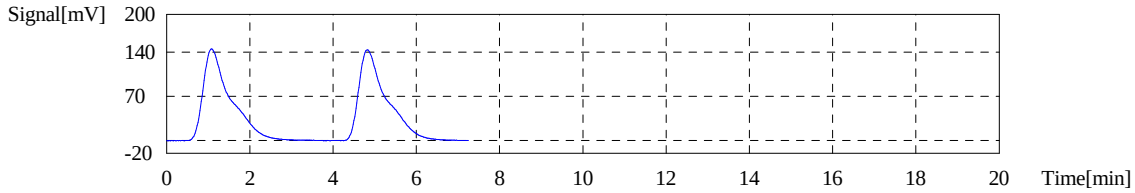
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:54.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	664.1	54.39mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:25:31 PM
2	664.2	54.39mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:29:19 PM

Mean Area 664.2
Mean Conc. 54.39mg/L
Vial 25



Sample

Sample Name: Untitled
Sample ID: CCB
Object ID 0L-10000101016-04900389-1332D95195F6-0018
Origin: 5310b.met
Status Completed
Chk. Result

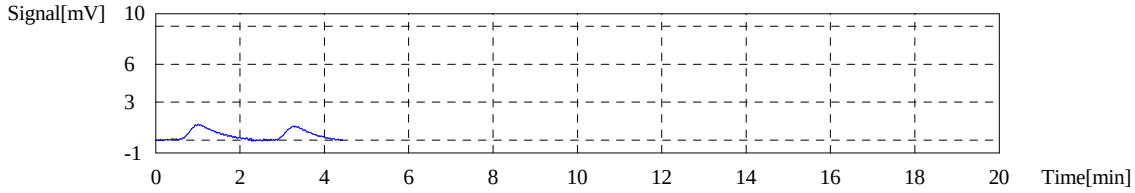
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2510mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.926	0.2591mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:45:41 PM
2	4.731	0.2430mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 7:48:08 PM

Mean Area 4.829
Mean Conc. 0.2510mg/L
Vial 26



Sample

Sample Name: Untitled
Sample ID: MB
Object ID 0L-10000101016-04900389-1332D95195F6-0019
Origin: 5310b.met
Status Completed
Chk. Result

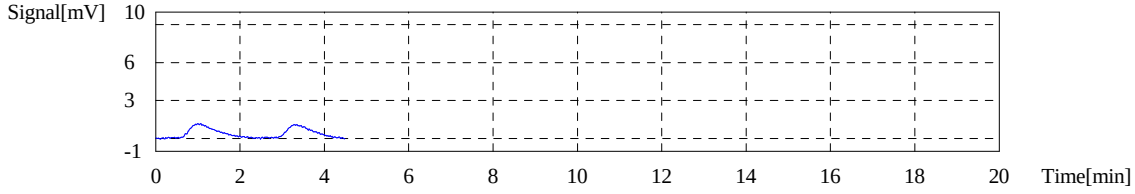
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2470mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.756	0.2451mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:04:33 PM
2	4.803	0.2490mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:07:01 PM

Mean Area 4.780
Mean Conc. 0.2470mg/L
Vial 27



Sample

Sample Name:	Untitled
Sample ID:	LCSSRM
Object ID	0L-10000101016-04900389-1332D95195F6-001A
Origin:	5310b.met
Status	Completed
Chk. Result	

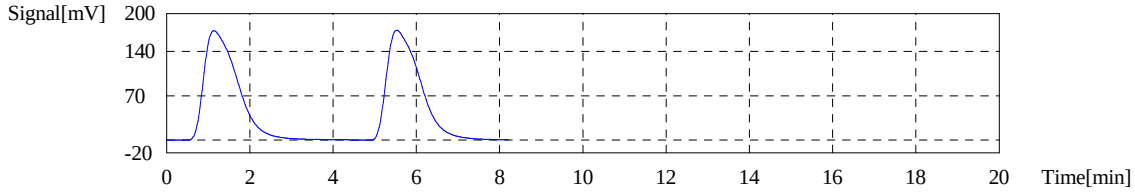
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:78.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	957.4	78.47mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:25:33 PM
2	959.3	78.63mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:29:40 PM

Mean Area	958.4
Mean Conc.	78.55mg/L
Vial	28



Sample

Sample Name:	Untitled
Sample ID:	460-68448-e-3
Object ID	0L-10000101016-04900389-1332D95195F6-001B
Origin:	5310b.met
Status	Completed
Chk. Result	

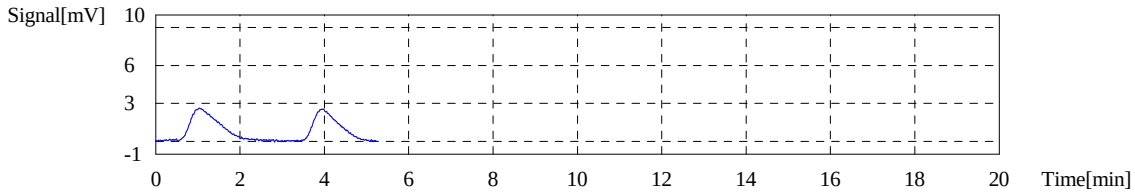
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8210mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.93	0.9163mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:46:41 PM
2	10.61	0.7258mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 8:49:17 PM

Mean Area	11.77
Mean Conc.	0.8210mg/L
Vial	29



Sample

Sample Name:	Untitled
Sample ID:	460-68448-e-4
Object ID	0L-10000101016-04900389-1332D95195F6-001C
Origin:	5310b.met
Status	Completed
Chk. Result	

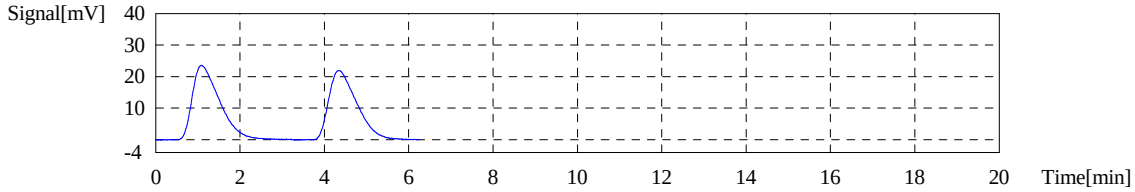
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.341mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.4	8.509mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:06:38 PM
2	101.3	8.173mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:09:56 PM

Mean Area 103.4
Mean Conc. 8.341mg/L
Vial 30



Sample

Sample Name: Untitled
Sample ID: 460-68448-e-5
Object ID 0L-10000101016-04900389-1332D95195F6-001D
Origin: 5310b.met
Status Completed
Chk. Result

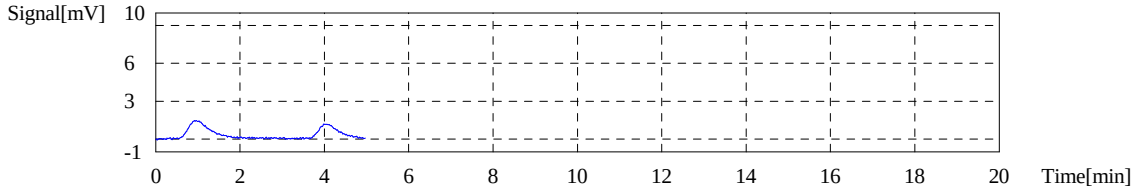
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2451mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.990	0.3464mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:27:08 PM
2	3.521	0.1437mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:29:19 PM

Mean Area 4.756
Mean Conc. 0.2451mg/L
Vial 31



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-6
Object ID 0L-10000101016-04900389-1332D95195F6-001E
Origin: 5310b.met
Status Completed
Chk. Result

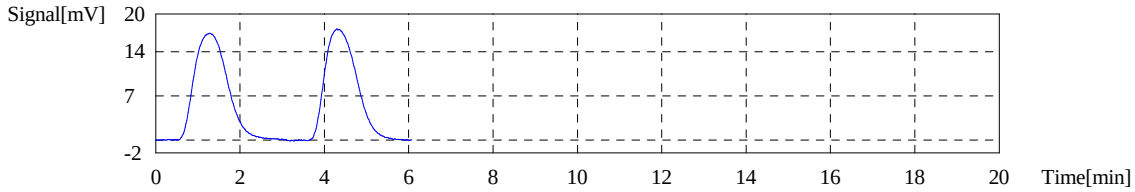
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.386mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.93	7.321mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:46:33 PM
2	92.51	7.451mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 9:49:47 PM

Mean Area 91.72
Mean Conc. 7.386mg/L
Vial 32



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-6 MS
Object ID 0L-10000101016-04900389-1332D95195F6-001F
Origin: 5310b.met
Status Completed
Chk. Result

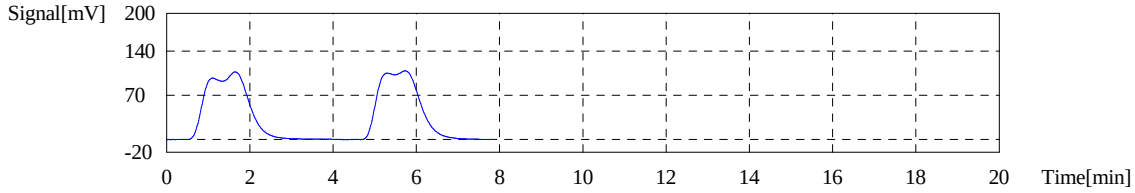
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:60.98mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	743.7	60.92mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:08:05 PM
2	745.0	61.03mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:12:03 PM

Mean Area 744.4
Mean Conc. 60.98mg/L
Vial 33



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-6 MSD
Object ID 0L-10000101016-04900389-1332D95195F6-0020
Origin: 5310b.met
Status Completed
Chk. Result

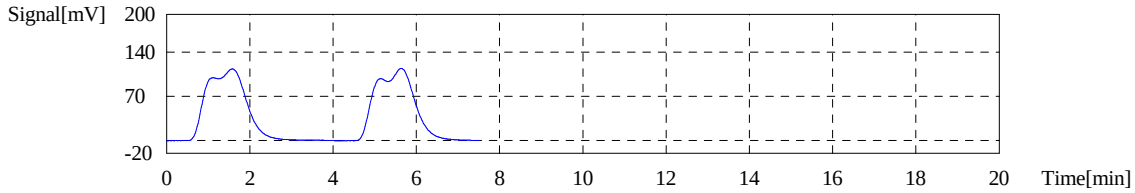
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:60.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	745.6	61.08mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:30:13 PM
2	741.9	60.77mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:33:59 PM

Mean Area 743.8
Mean Conc. 60.93mg/L
Vial 34



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-2
Object ID 0L-10000101016-04900389-1332D95195F6-0021
Origin: 5310b.met
Status Completed
Chk. Result

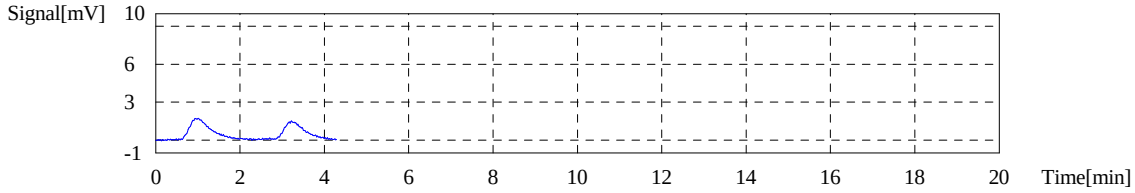
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2982mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.891	0.3383mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:50:22 PM
2	4.914	0.2581mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 10:52:37 PM

Mean Area 5.402
Mean Conc. 0.2982mg/L
Vial 35



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-3
Object ID 0L-10000101016-04900389-1332D95195F6-0022
Origin: 5310b.met
Status Completed
Chk. Result

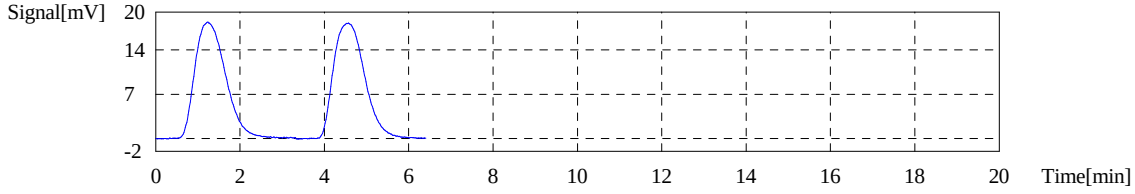
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.468mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.36	7.438mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:10:03 PM
2	93.07	7.497mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:13:28 PM

Mean Area 92.72
Mean Conc. 7.468mg/L
Vial 36



Sample

Sample Name:	Untitled
Sample ID:	CCV
Object ID	0L-10000101016-04900389-1332D95195F6-0023
Origin:	5310b.met
Status	Completed
Chk. Result	

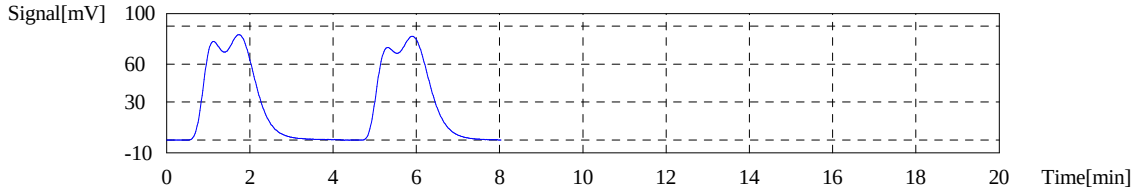
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:52.26mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	641.8	52.55mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:31:46 PM
2	634.7	51.97mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:35:53 PM

Mean Area	638.3
Mean Conc.	52.26mg/L
Vial	37



Sample

Sample Name:	Untitled
Sample ID:	CCB
Object ID	0L-10000101016-04900389-1332D95195F6-0024
Origin:	5310b.met
Status	Completed
Chk. Result	

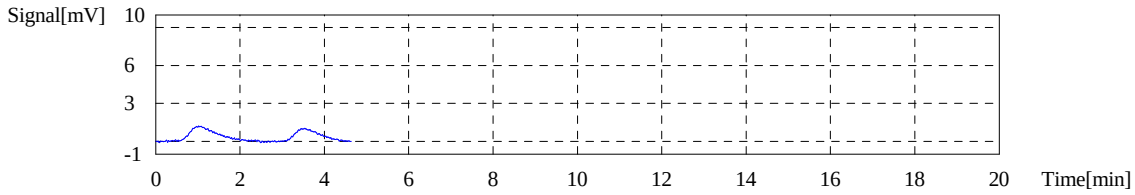
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2550mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.500	0.3062mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:52:28 PM
2	4.253	0.2038mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/21/2013 11:54:55 PM

Mean Area	4.877
Mean Conc.	0.2550mg/L
Vial	38



Sample

Sample Name:	Untitled
Sample ID:	460-68636-e-4
Object ID	0L-10000101016-04900389-1332D95195F6-0025
Origin:	5310b.met
Status	Completed
Chk. Result	

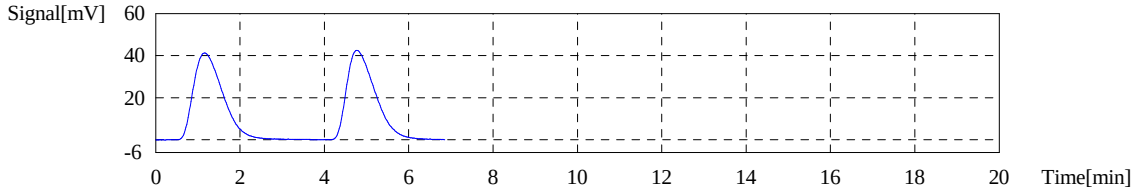
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	198.8	16.18mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:12:42 AM
2	198.3	16.14mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:16:09 AM

Mean Area 198.6
Mean Conc. 16.16mg/L
Vial 39



Sample

Sample Name: Untitled
Sample ID: 460-68636-e-5
Object ID 0L-10000101016-04900389-1332D95195F6-0026
Origin: 5310b.met
Status Completed
Chk. Result

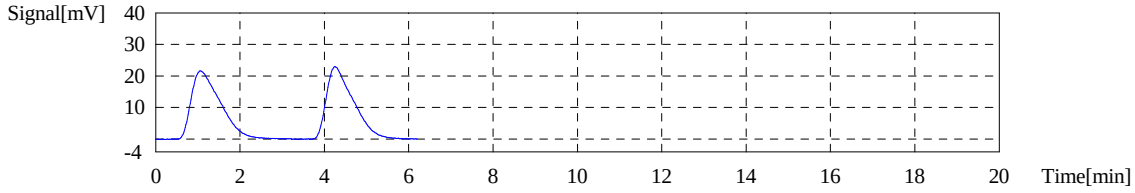
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.251mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.8	8.296mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:33:34 AM
2	101.7	8.205mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:36:49 AM

Mean Area 102.3
Mean Conc. 8.251mg/L
Vial 40



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-2
Object ID 0L-10000101016-04900389-1332D95195F6-0027
Origin: 5310b.met
Status Completed
Chk. Result

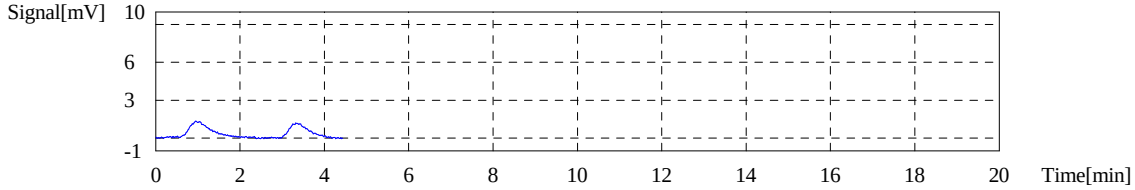
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2206mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.953	0.2613mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:53:18 AM
2	3.962	0.1799mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 12:55:39 AM

Mean Area 4.458
Mean Conc. 0.2206mg/L
Vial 41



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-3
Object ID 0L-10000101016-04900389-1332D95195F6-0028
Origin: 5310b.met
Status Completed
Chk. Result

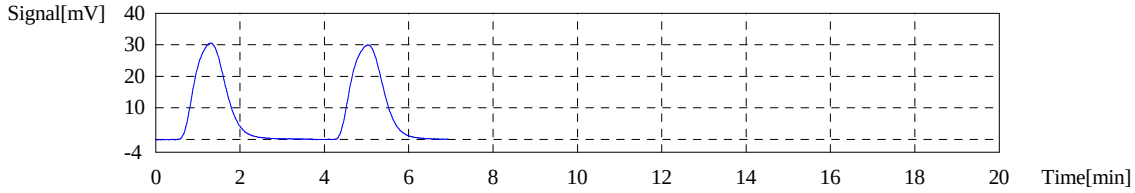
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.62mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	155.2	12.60mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:13:29 AM
2	155.8	12.65mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:17:00 AM

Mean Area 155.5
Mean Conc. 12.62mg/L
Vial 42



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-4
Object ID 0L-10000101016-04900389-1332D95195F6-0029
Origin: 5310b.met
Status Completed
Chk. Result

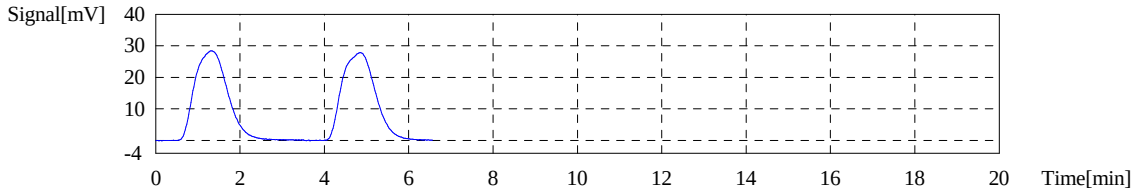
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	152.8	12.40mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:34:38 AM
2	151.7	12.31mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:37:58 AM

Mean Area 152.3
Mean Conc. 12.36mg/L
Vial 43



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-5
Object ID 0L-10000101016-04900389-1332D95195F6-002A
Origin: 5310b.met
Status Completed
Chk. Result

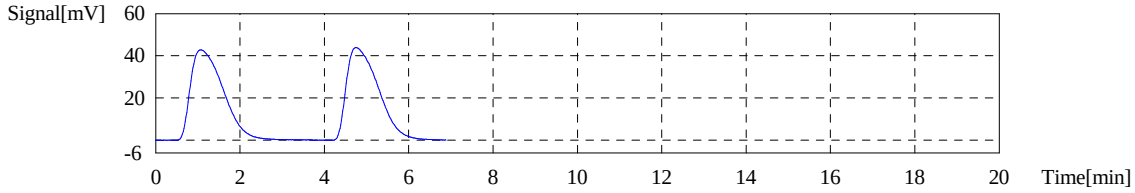
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.75mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	230.0	18.74mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:55:49 AM
2	230.2	18.76mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 1:59:23 AM

Mean Area 230.1
Mean Conc. 18.75mg/L
Vial 44



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-6
Object ID 0L-10000101016-04900389-1332D95195F6-002B
Origin: 5310b.met
Status Completed
Chk. Result

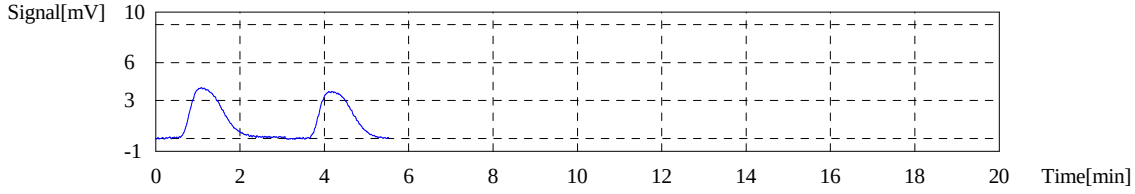
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.488mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.43	1.532mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 2:16:34 AM
2	19.35	1.443mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 2:19:18 AM

Mean Area 19.89
Mean Conc. 1.488mg/L
Vial 45



Sample

Sample Name:	Untitled
Sample ID:	460-68725-e-7
Object ID	0L-10000101016-04900389-1332D95195F6-002C
Origin:	5310b.met
Status	Completed
Chk. Result	

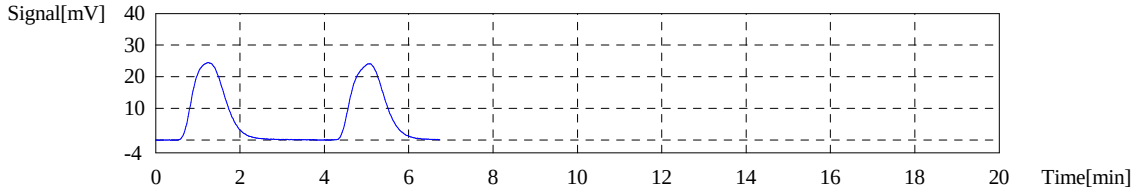
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	128.8	10.43mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 2:37:10 AM
2	128.1	10.37mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 2:40:26 AM

Mean Area	128.4
Mean Conc.	10.40mg/L
Vial	46



Sample

Sample Name:	Untitled
Sample ID:	460-68725-e-8
Object ID	0L-10000101016-04900389-1332D95195F6-002D
Origin:	5310b.met
Status	Completed
Chk. Result	

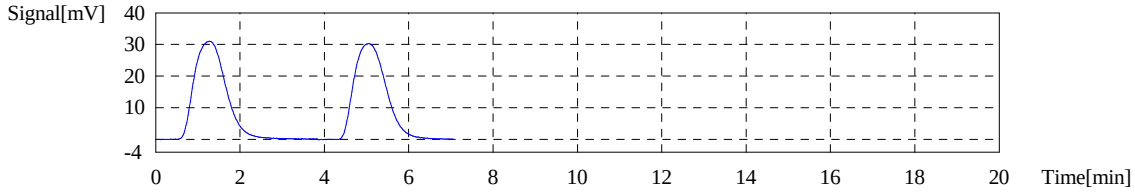
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.96mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	160.9	13.07mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 2:58:24 AM
2	158.4	12.86mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 3:01:54 AM

Mean Area	159.7
Mean Conc.	12.96mg/L
Vial	47



Sample

Sample Name:	Untitled
Sample ID:	460-68725-e-9
Object ID	0L-10000101016-04900389-1332D95195F6-002E
Origin:	5310b.met
Status	Completed
Chk. Result	

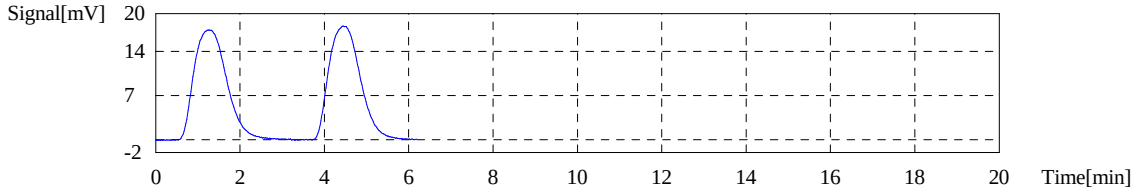
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.533mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.71	7.549mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 3:19:14 AM
2	93.32	7.517mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 3:22:29 AM

Mean Area 93.52
Mean Conc. 7.533mg/L
Vial 48



Sample

Sample Name: Untitled
Sample ID: CCV
Object ID 0L-10000101016-04900389-1332D95195F6-002F
Origin: 5310b.met
Status Completed
Chk. Result

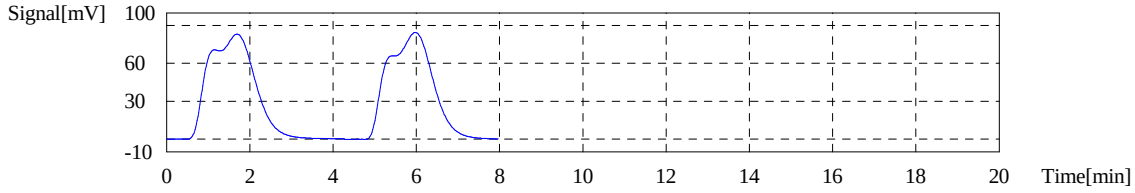
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:52.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	641.0	52.49mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 3:40:53 AM
2	634.3	51.94mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 3:44:50 AM

Mean Area 637.7
Mean Conc. 52.21mg/L
Vial 49



Sample

Sample Name: Untitled
Sample ID: CCB
Object ID 0L-10000101016-04900389-1332D95195F6-0030
Origin: 5310b.met
Status Completed
Chk. Result

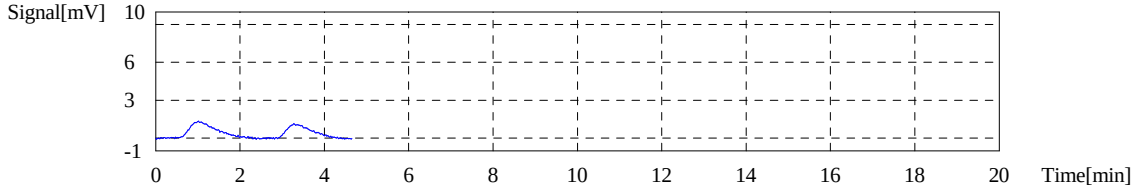
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2883mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.551	0.3104mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:01:15 AM
2	5.013	0.2662mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:03:50 AM

Mean Area 5.282
Mean Conc. 0.2883mg/L
Vial 50



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-11
Object ID 0L-10000101016-04900389-1332D951C0D6-0000
Origin: 5310b.met
Status Completed
Chk. Result

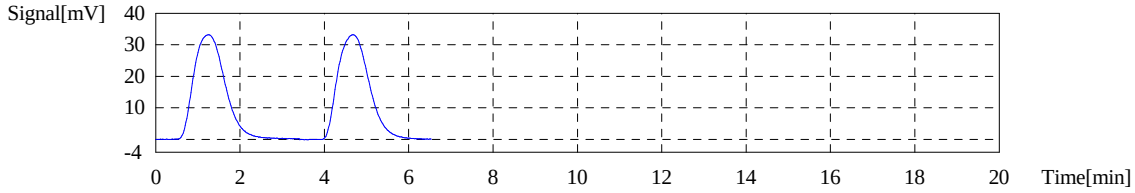
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	168.9	13.72mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:21:24 AM
2	170.9	13.89mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:24:51 AM

Mean Area 169.9
Mean Conc. 13.81mg/L
Vial 51



Sample

Sample Name: Untitled
Sample ID: 460-68725-e-12
Object ID 0L-10000101016-04900389-1332D951C0D6-0001
Origin: 5310b.met
Status Completed
Chk. Result

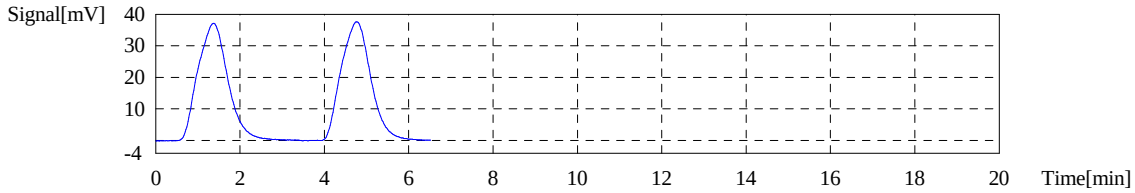
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	182.9	14.87mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:42:23 AM
2	183.7	14.94mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 4:45:48 AM

Mean Area 183.3
Mean Conc. 14.91mg/L
Vial 52



Sample

Sample Name: Untitled
Sample ID: CCV
Object ID 0L-10000101016-04900389-1332D951C0D6-0002
Origin: 5310b.met
Status Completed
Chk. Result

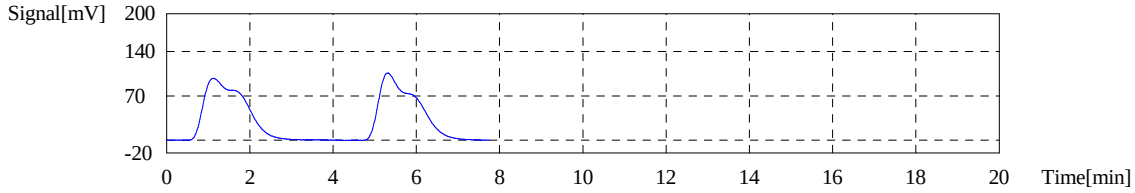
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:53.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	653.9	53.55mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 5:04:08 AM
2	651.4	53.34mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 5:07:57 AM

Mean Area 652.6
Mean Conc. 53.45mg/L
Vial 53



Sample

Sample Name: Untitled
Sample ID: CCB
Object ID 0L-10000101016-04900389-1332D951C0D6-0003
Origin: 5310b.met
Status Completed
Chk. Result

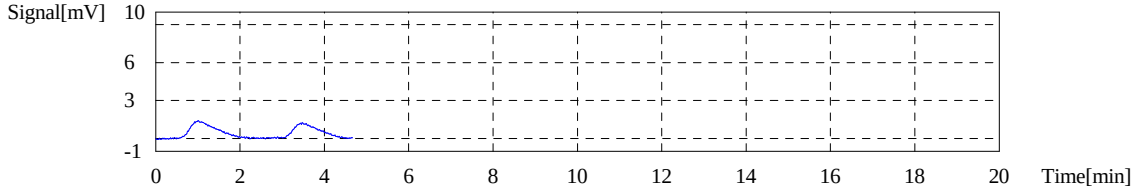
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2974mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.030	0.3497mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 5:24:31 AM
2	4.756	0.2451mg/L	150uL	1.000		HV131205.2013_12_05_09_45_17.cal	12/22/2013 5:27:00 AM

Mean Area 5.393
Mean Conc. 0.2974mg/L
Vial 54



	Sample ID	Origin	Manual Diluti	Result	Status	Date / Time	Vial
1	ICV	5310b.met	1.000	NPOC:52.19	Completed	12/21/2013 1	1
2	ICB	5310b.met	1.000	NPOC:0.267	Completed	12/21/2013 1	2
3	MB	5310b.met	1.000	NPOC:0.256	Completed	12/21/2013 1	3
4	LCSSRM	5310b.met	1.000	NPOC:75.57	Completed	12/21/2013 1	4
5	460-68263-b-1	5310b.met	1.000	NPOC:1.344	Completed	12/21/2013 1	5
6	460-68263-b-1 MS	5310b.met	1.000	NPOC:56.31	Completed	12/21/2013 1	6
7	460-68263-b-1 MSD	5310b.met	1.000	NPOC:56.25	Completed	12/21/2013 1	7
8	460-68263-b-2	5310b.met	1.000	NPOC:1.620	Completed	12/21/2013 1	8
9	460-68263-b-3	5310b.met	1.000	NPOC:1.373	Completed	12/21/2013 2	9
10	460-68263-b-4	5310b.met	1.000	NPOC:1.212	Completed	12/21/2013 2	10
11	460-68263-b-5	5310b.met	1.000	NPOC:0.544	Completed	12/21/2013 2	11
12	460-68263-b-6	5310b.met	1.000	NPOC:1.095	Completed	12/21/2013 3	12
13	CCV	5310b.met	1.000	NPOC:52.53	Completed	12/21/2013 3	13
14	CCB	5310b.met	1.000	NPOC:0.274	Completed	12/21/2013 3	14
15	460-68263-b-7	5310b.met	1.000	NPOC:1.069	Completed	12/21/2013 4	15
16	460-68263-b-8	5310b.met	1.000	NPOC:0.609	Completed	12/21/2013 4	16
17	460-68263-b-9	5310b.met	1.000	NPOC:1.371	Completed	12/21/2013 4	17
18	460-68263-b-10	5310b.met	1.000	NPOC:1.218	Completed	12/21/2013 5	18
19	460-68263-b-11	5310b.met	1.000	NPOC:0.853	Completed	12/21/2013 5	19
20	460-68358-d-1	5310b.met	1.000	NPOC:0.749	Completed	12/21/2013 5	20
21	460-68395-d-1	5310b.met	1.000	NPOC:0.292	Completed	12/21/2013 6	21
22	460-68395-d-2	5310b.met	1.000	NPOC:0.216	Completed	12/21/2013 6	22
23	460-68448-e-1	5310b.met	1.000	NPOC:0.526	Completed	12/21/2013 6	23
24	460-68448-e-2	5310b.met	1.000	NPOC:1.118	Completed	12/21/2013 7	24
25	CCV	5310b.met	1.000	NPOC:54.39	Completed	12/21/2013 7	25
26	CCB	5310b.met	1.000	NPOC:0.251	Completed	12/21/2013 7	26
27	MB	5310b.met	1.000	NPOC:0.247	Completed	12/21/2013 8	27
28	LCSSRM	5310b.met	1.000	NPOC:78.55	Completed	12/21/2013 8	28
29	460-68448-e-3	5310b.met	1.000	NPOC:0.821	Completed	12/21/2013 8	29
30	460-68448-e-4	5310b.met	1.000	NPOC:8.341	Completed	12/21/2013 9	30
31	460-68448-e-5	5310b.met	1.000	NPOC:0.245	Completed	12/21/2013 9	31
32	460-68636-e-6	5310b.met	1.000	NPOC:7.386	Completed	12/21/2013 9	32
33	460-68636-e-6 MS	5310b.met	1.000	NPOC:60.98	Completed	12/21/2013 1	33
34	460-68636-e-6 MSD	5310b.met	1.000	NPOC:60.93	Completed	12/21/2013 1	34
35	460-68636-e-2	5310b.met	1.000	NPOC:0.298	Completed	12/21/2013 1	35
36	460-68636-e-3	5310b.met	1.000	NPOC:7.468	Completed	12/21/2013 1	36
37	CCV	5310b.met	1.000	NPOC:52.26	Completed	12/21/2013 1	37
38	CCB	5310b.met	1.000	NPOC:0.255	Completed	12/21/2013 1	38
39	460-68636-e-4	5310b.met	1.000	NPOC:16.16	Completed	12/22/2013 1	39
40	460-68636-e-5	5310b.met	1.000	NPOC:8.251	Completed	12/22/2013 1	40
41	460-68725-e-2	5310b.met	1.000	NPOC:0.220	Completed	12/22/2013 1	41
42	460-68725-e-3	5310b.met	1.000	NPOC:12.62	Completed	12/22/2013 1	42
43	460-68725-e-4	5310b.met	1.000	NPOC:12.36	Completed	12/22/2013 1	43
44	460-68725-e-5	5310b.met	1.000	NPOC:18.75	Completed	12/22/2013 1	44
45	460-68725-e-6	5310b.met	1.000	NPOC:1.488	Completed	12/22/2013 2	45
46	460-68725-e-7	5310b.met	1.000	NPOC:10.40	Completed	12/22/2013 2	46
47	460-68725-e-8	5310b.met	1.000	NPOC:12.96	Completed	12/22/2013 3	47
48	460-68725-e-9	5310b.met	1.000	NPOC:7.533	Completed	12/22/2013 3	48
49	CCV	5310b.met	1.000	NPOC:52.21	Completed	12/22/2013 3	49
50	CCB	5310b.met	1.000	NPOC:0.288	Completed	12/22/2013 4	50
51	460-68725-e-11	5310b.met	1.000	NPOC:13.81	Completed	12/22/2013 4	51
52	460-68725-e-12	5310b.met	1.000	NPOC:14.91	Completed	12/22/2013 4	52
53	CCV	5310b.met	1.000	NPOC:53.45	Completed	12/22/2013 5	53

	Sample ID	Origin	Manual Diluti	Result	Status	Date / Time	Vial
54	CCB	5310b.met	1.000	NPOC:0.297	Completed	12/22/2013 5	54

Instr.Information

Catalyst Regular Sensitivity

Cal. Curve

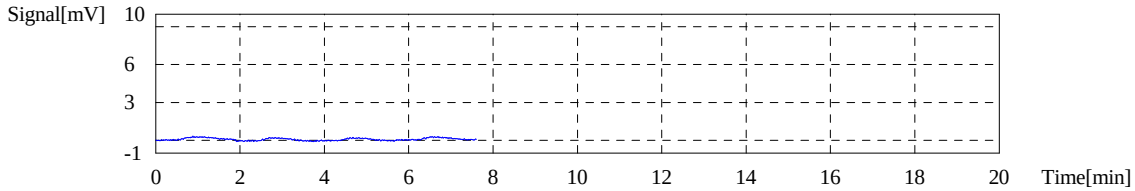
Sample Name: Untitled
Sample ID: Untitled
Object ID 0L-10000101016-04900389-1332D85170CD-0000
Cal. Curve: HV131205.2013_12_05_09_45_17.cal
Status Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.9909	50uL	1.000	*******		12/5/2013 10:01:29 AM
2	1.020	50uL	1.000	*******		12/5/2013 10:03:41 AM
3	0.8766	50uL	1.000	*******		12/5/2013 10:05:49 AM
4	1.083	50uL	1.000	*******		12/5/2013 10:07:57 AM

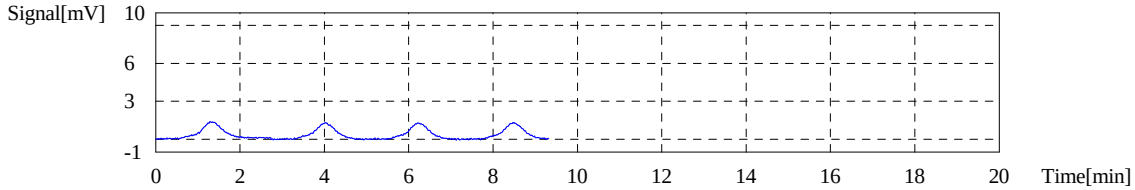
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 600.0sec
Mean Area 0.9926



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.942	50uL	1.000	*******		12/5/2013 10:25:05 AM
2	4.777	50uL	1.000	*******		12/5/2013 10:27:34 AM
3	4.654	50uL	1.000	*******		12/5/2013 10:30:03 AM
4	4.947	50uL	1.000	*******		12/5/2013 10:32:24 AM

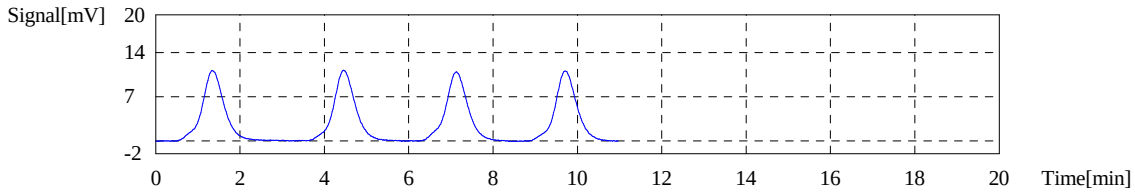
Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 600.0sec
Mean Area 4.830



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	41.61	50uL	1.000	*******		12/5/2013 10:49:55 AM
2	40.09	50uL	1.000	*******		12/5/2013 10:52:51 AM
3	40.20	50uL	1.000	*******		12/5/2013 10:55:38 AM
4	40.26	50uL	1.000	*******		12/5/2013 10:58:30 AM

Acid Add. 1.500%
Sparge Gas Flow 80ml
Sp. Time 600.0sec
Mean Area 40.54



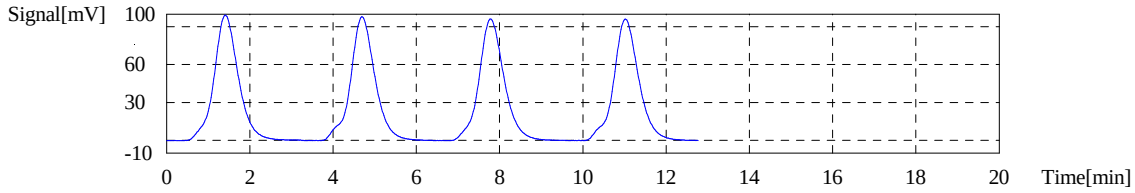
Conc: 100.0mg/L

TOC-Control L Report

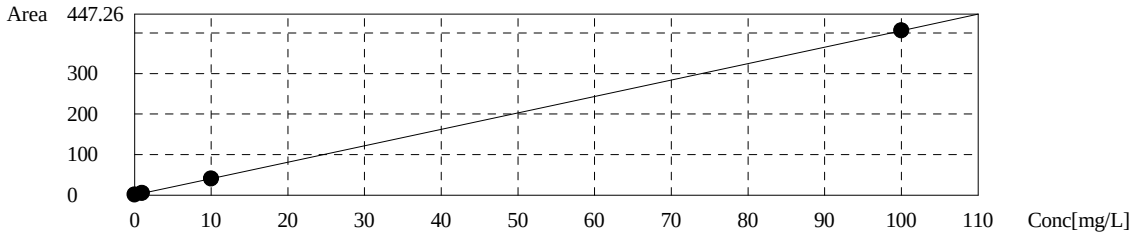
Test America, INC.
131205.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	407.8	50uL	1.000	*******		12/5/2013 11:16:09 AM
2	405.0	50uL	1.000	*******		12/5/2013 11:19:32 AM
3	407.8	50uL	1.000	*******		12/5/2013 11:22:58 AM
4	405.8	50uL	1.000	*******		12/5/2013 11:26:23 AM

Acid Add.	1.500%
Sparge Gas Flow	80ml
Sp. Time	600.0sec
Mean Area	406.6



Slope:	4.059
Intercept	0.5904
r^2	1.0000
r	1.0000
Zero Shift	No



OPERATOR: ~~Juan~~ Sarah SB 12/23/13
ACQ. TIME: Dec 23, 2013 16:48:43
DATA FILENAME: C:\OMNION\DATA\AMMONIA\DATA2013\A131223.FDT
METHOD FILENAME: C:\OMNION\METHODS\AMMONIA.MET
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jan 28, 2013 14:17:09
Modified: Dec 23, 2013 17:09:37

DATA DESCRIPTION:
Created: Dec 23, 2013 16:48:43
Modified: Dec 23, 2013 16:48:43

Method - Ch. 1 (ammonia)

METHOD DESCRIPTION:
Created: Oct 20, 2012 10:22:20
Modified: Dec 18, 2013 14:54:33
ammonia

ANALYTE DATA:
Analyte Name: ammonia
Concentration Units: mg/l
Chemistry: Direct
Inject to Peak Start (s): 22.0
Peak Base Width (s): 45.567
% Width Tolerance: 100.000
Threshold: 300.000
Autodilution Trigger: Off
QuikChem Method: 10-107-06-1-c

CALIBRATION DATA:
Levels:
1 : 4.000 2 : 2.000 3 : 1.000 4 : 0.500
5 : 0.100 6 : 0.000
Calibration Rep Handling: Replace
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

SAMPLER TIMING:
Method Cycle Period: 90.0
Min. Probe in Wash Period: 5.0
Probe in Sample Period: 24.0

*** Prep Sequence Not Enabled ***

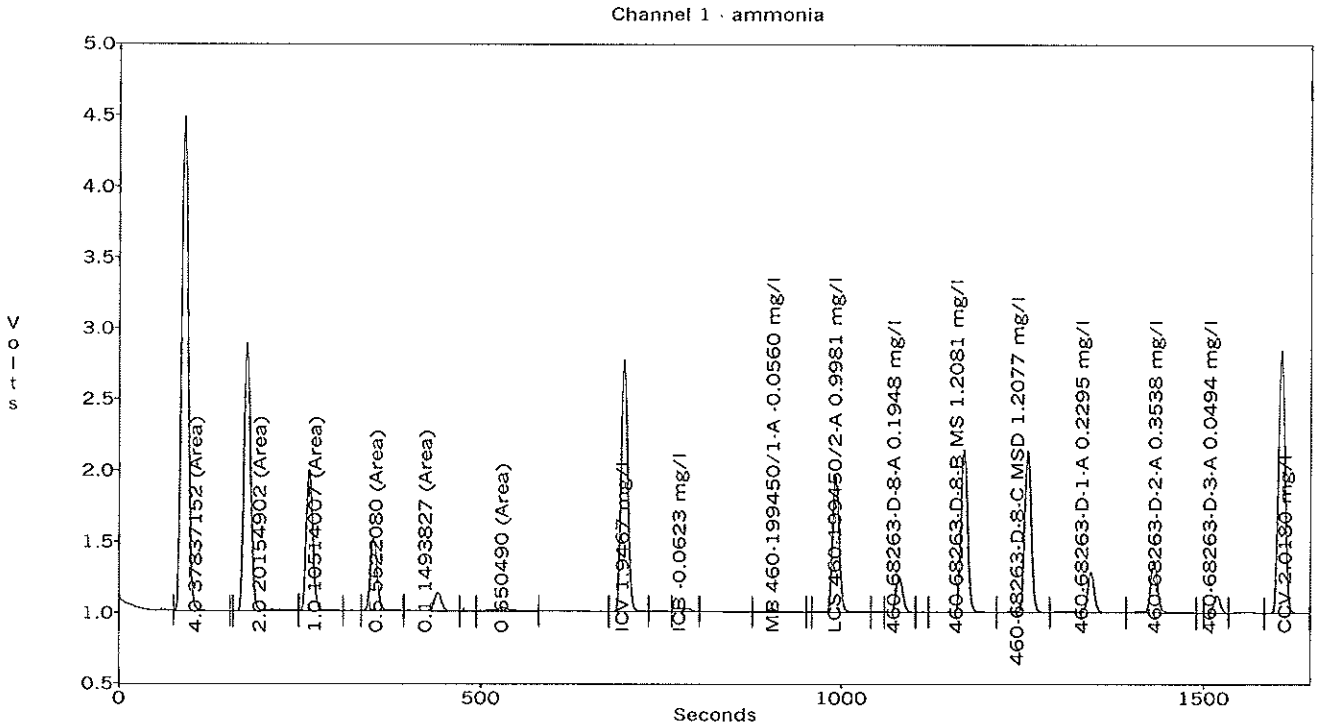
VALVE TIMING:
Method Cycle Period: 90.0
Sample Reaches 1st Valve: 30.0
Valve: On
Load Time: 0.0
Load Period: 18.0
Inject Period: 72.0

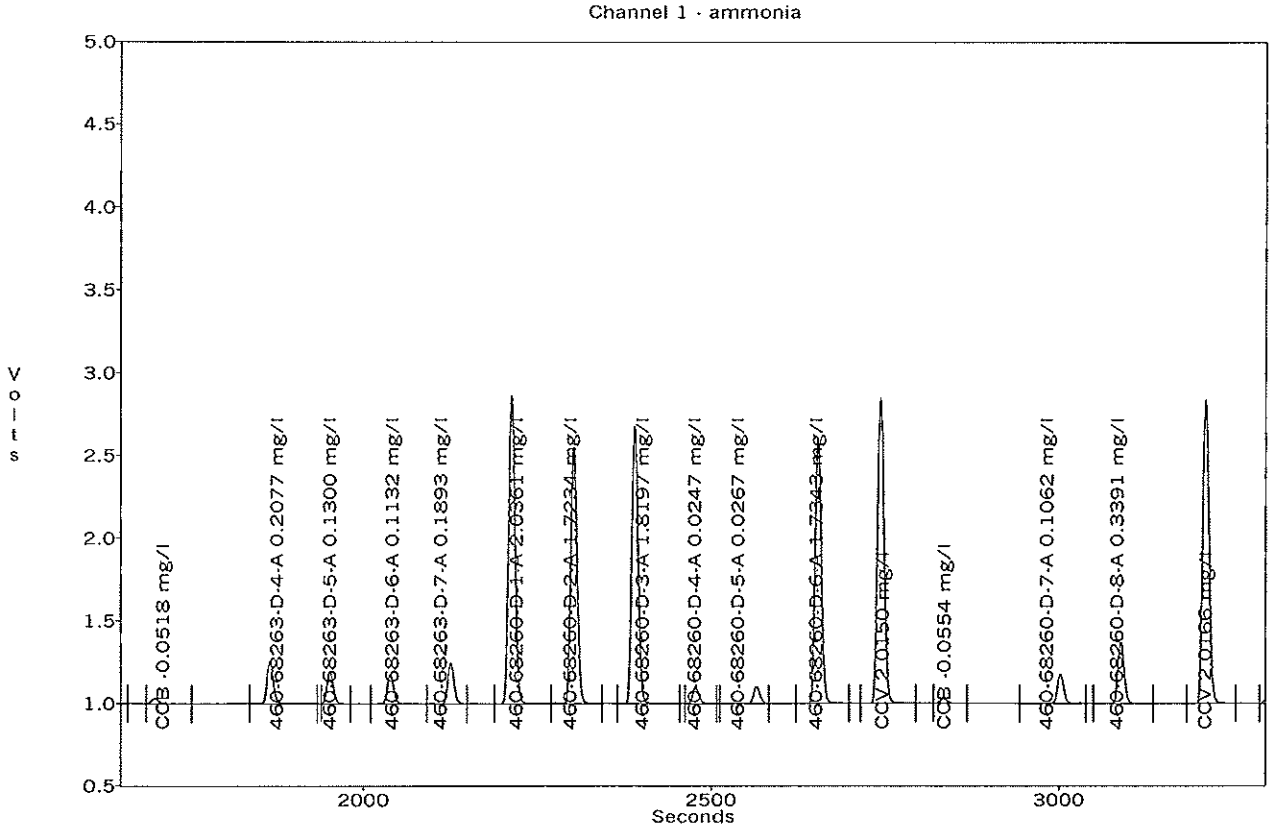
Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 1 -- Cup Range: 1 to 8

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	ammonia (uv-s)	Man Dil Factor	Weight	Unit
1	4.0	23 Dec 2013	16:48:44	1	37837152.00	1.0	1.00000	g
2	2.0	23 Dec 2013	16:50:11	1	20154902.00	1.0	1.00000	g
3	1.0	23 Dec 2013	16:51:38	1	10514007.00	1.0	1.00000	g
4	0.5	23 Dec 2013	16:53:07	1	5522080.00	1.0	1.00000	g
5	0.1	23 Dec 2013	16:54:35	1	1493827.00	1.0	1.00000	g
6	0	23 Dec 2013	16:56:04	1	650490.00	1.0	1.00000	g

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 1 -- Cup Range: 1 to 46

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	ammonia (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV	23 Dec 2013	16:58:52	1	1.9467	1.0	1.00	1.00000	g
2	ICB	23 Dec 2013	17:00:21	1	-0.0623	1.0	1.00	1.00000	g
3	MB 460-199450/1-A	23 Dec 2013	17:02:18	1	-0.0560	1.0	1.00	1.00000	g
4	LCS 460-199450/2-A	23 Dec 2013	17:03:46	1	0.9981	1.0	1.00	1.00000	g
5	460-68263-D-8-A	23 Dec 2013	17:05:14	1	0.1948	1.0	1.00	1.00000	g
6	460-68263-D-8-B MS	23 Dec 2013	17:06:43	1	1.2081	1.0	1.00	1.00000	g
7	460-68263-D-8-C MSD	23 Dec 2013	17:08:10	1	1.2077	1.0	1.00	1.00000	g
8	460-68263-D-1-A	23 Dec 2013	17:09:38	1	0.2295	1.0	1.00	1.00000	g
9	460-68263-D-2-A	23 Dec 2013	17:11:06	1	0.3538	1.0	1.00	1.00000	g
10	460-68263-D-3-A	23 Dec 2013	17:12:33	1	0.0494	1.0	1.00	1.00000	g
11	460-68263-D-4-A	23 Dec 2013	17:18:20	1	0.2077	1.0	1.00	1.00000	g
12	460-68263-D-5-A	23 Dec 2013	17:19:47	1	0.1300	1.0	1.00	1.00000	g
13	460-68263-D-6-A	23 Dec 2013	17:21:13	1	0.1132	1.0	1.00	1.00000	g
14	460-68263-D-7-A	23 Dec 2013	17:22:40	1	0.1893	1.0	1.00	1.00000	g
15	460-68260-D-1-A	23 Dec 2013	17:24:06	1	2.0361	1.0	1.00	1.00000	g
16	460-68260-D-2-A	23 Dec 2013	17:25:35	1	1.7234	1.0	1.00	1.00000	g
17	460-68260-D-3-A	23 Dec 2013	17:27:04	1	1.8197	1.0	1.00	1.00000	g
18	460-68260-D-4-A	23 Dec 2013	17:28:33	1	0.0247	1.0	1.00	1.00000	g
19	460-68260-D-5-A	23 Dec 2013	17:30:01	1	0.0267	1.0	1.00	1.00000	g
20	460-68260-D-6-A	23 Dec 2013	17:31:30	1	1.7343	1.0	1.00	1.00000	g
21	460-68260-D-7-A	23 Dec 2013	17:37:17	1	0.1062	1.0	1.00	1.00000	g
22	460-68260-D-8-A	23 Dec 2013	17:38:45	1	0.3391	1.0	1.00	1.00000	g


Channel 1 · ammonia
Volts
Seconds
4.0 37.37152 (Area)
2.0 20154902 (Area)
1.0 10514007 (Area)
0.5 5622080 (Area)
0.1 1493827 (Area)
0 550490 (Area)
ICV 1.9467 mg/l
ICB -0.0623 mg/l
MB 460-199450/1-A -0.0560 mg/l
LCS 460-199450/2-A 0.9981 mg/l
460-68263-D-8-A 0.1948 mg/l
460-68263-D-8-B MS 1.2081 mg/l
460-68263-D-8-C MSD 1.2077 mg/l
460-68263-D-1-A 0.2295 mg/l
460-68263-D-2-A 0.3538 mg/l
460-68263-D-3-A 0.0494 mg/l
CCV 2.0180 mg/l


Channel 1 · ammonia
Volts
Seconds
CCB -0.0518 mg/l
460-68263-D-4-A 0.2077 mg/l
460-68263-D-5-A 0.1300 mg/l
460-68263-D-6-A 0.1132 mg/l
460-68263-D-7-A 0.1893 mg/l
460-68260-D-1-A 2.0361 mg/l
460-68260-D-2-A 1.7234 mg/l
460-68260-D-3-A 1.8197 mg/l
460-68260-D-4-A 0.0247 mg/l
460-68260-D-5-A 0.0267 mg/l
460-68260-D-6-A 1.7343 mg/l
CCV 2.0150 mg/l
CCB -0.0554 mg/l
460-68260-D-7-A 0.1062 mg/l
460-68260-D-8-A 0.3391 mg/l
CCV 2.0166 mg/l

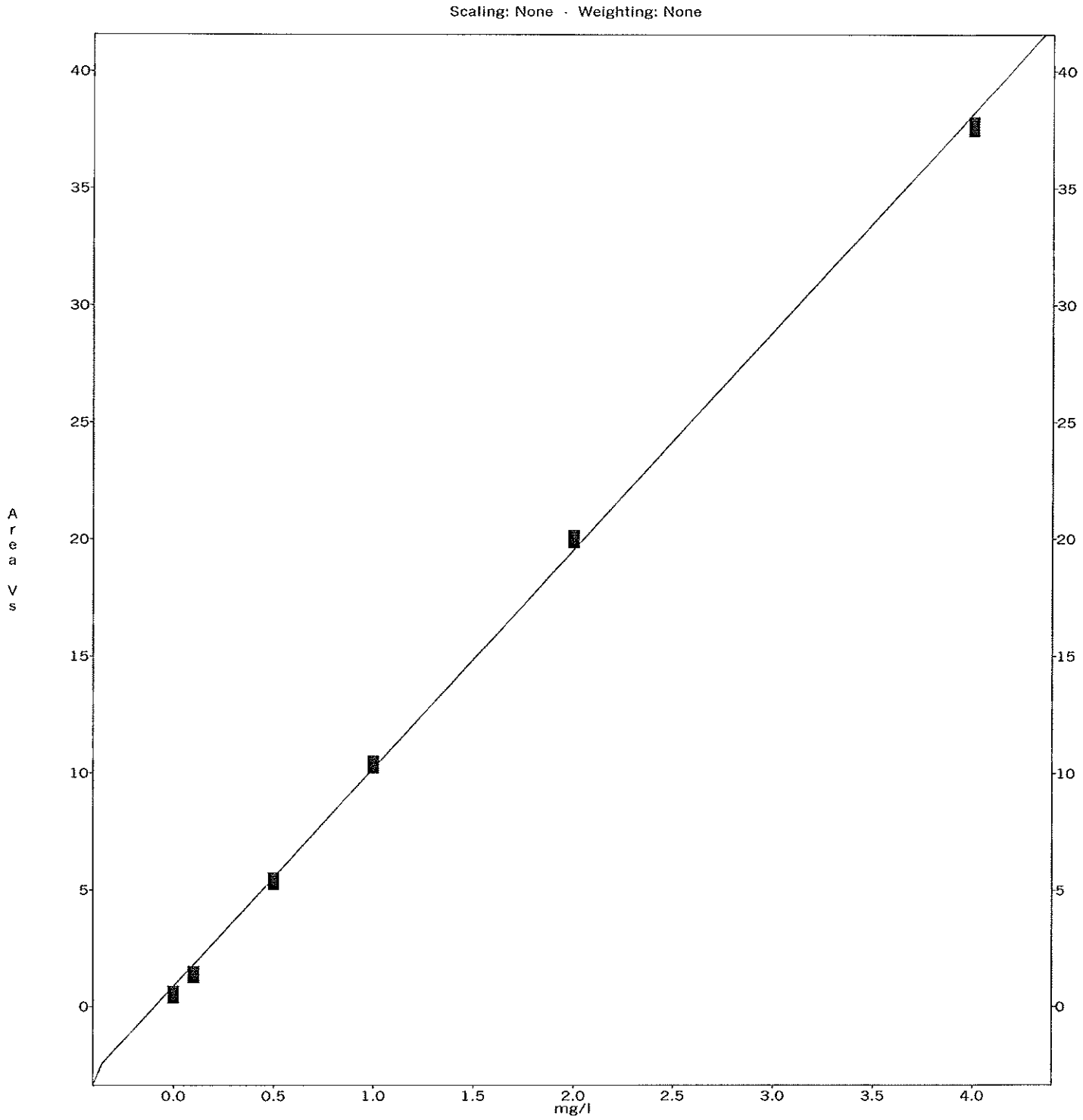
Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	Rep #	ammonia (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
15	CCV	RelChkStd	23 Dec 2013	17:14:03	1	2.02	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		0.90				
15	CCV	RelChkStd	23 Dec 2013	17:32:59	1	2.02	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		0.75				
15	CCV	RelChkStd	23 Dec 2013	17:40:47	1	2.02	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		0.83				
16	CCB	Blank	23 Dec 2013	17:15:34	1	-0.05	1.0	1.00	1.00000	g
16	CCB	Blank	23 Dec 2013	17:34:29	1	-0.06	1.0	1.00	1.00000	g
16	CCB	Blank	23 Dec 2013	17:42:18	1	-0.06	1.0	1.00	1.00000	g

ammonia

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	37837152	4.0	37837152	37501268				237505.9	0.6	1.1
2	20154902	2.0	20154902	19886502				189787.5	0.9	-3.3
3	10514007	1.0	10514007	10258829				180438.1	1.7	-3.3
4	5522080	0.5	5522080	5274269				175228.8	3.2	0.2
5	1493827	0.1	1493827	1278813				152037.9	11.0	32.4
6	650490	0.0	650490	390390				183918.5	35.3	

1st Order Poly
Conc = 1.070e-007 Area - 9.229e-002
r = 0.9996



OPERATOR: huaff Sarah SB 12/24/13
ACQ. TIME: Dec 24, 2013 12:05:15
DATA FILENAME: C:\OMNION\DATA\AMMONIA\DATA2013\A131224.FDT
METHOD FILENAME: C:\OMNION\METHODS\AMMONIA.MET
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jan 28, 2013 14:17:09
Modified: Dec 24, 2013 12:43:27

DATA DESCRIPTION:
Created: Dec 24, 2013 12:05:15
Modified: Dec 24, 2013 12:05:15

Method - Ch. 1 (ammonia)

METHOD DESCRIPTION:
Created: Oct 20, 2012 10:22:20
Modified: Dec 18, 2013 14:54:33
ammonia

ANALYTE DATA:
Analyte Name: ammonia
Concentration Units: mg/l
Chemistry: Direct
Inject to Peak Start (s): 22.0
Peak Base Width (s): 45.567
% Width Tolerance: 100.000
Threshold: 300.000
Autodilution Trigger: Off
QuikChem Method: 10-107-06-1-c

CALIBRATION DATA:
Levels:
1 : 4.000 2 : 2.000 3 : 1.000 4 : 0.500
5 : 0.100 6 : 0.000
Calibration Rep Handling: Replace
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

SAMPLER TIMING:
Method Cycle Period: 90.0
Min. Probe in Wash Period: 5.0
Probe in Sample Period: 24.0

*** Prep Sequence Not Enabled ***

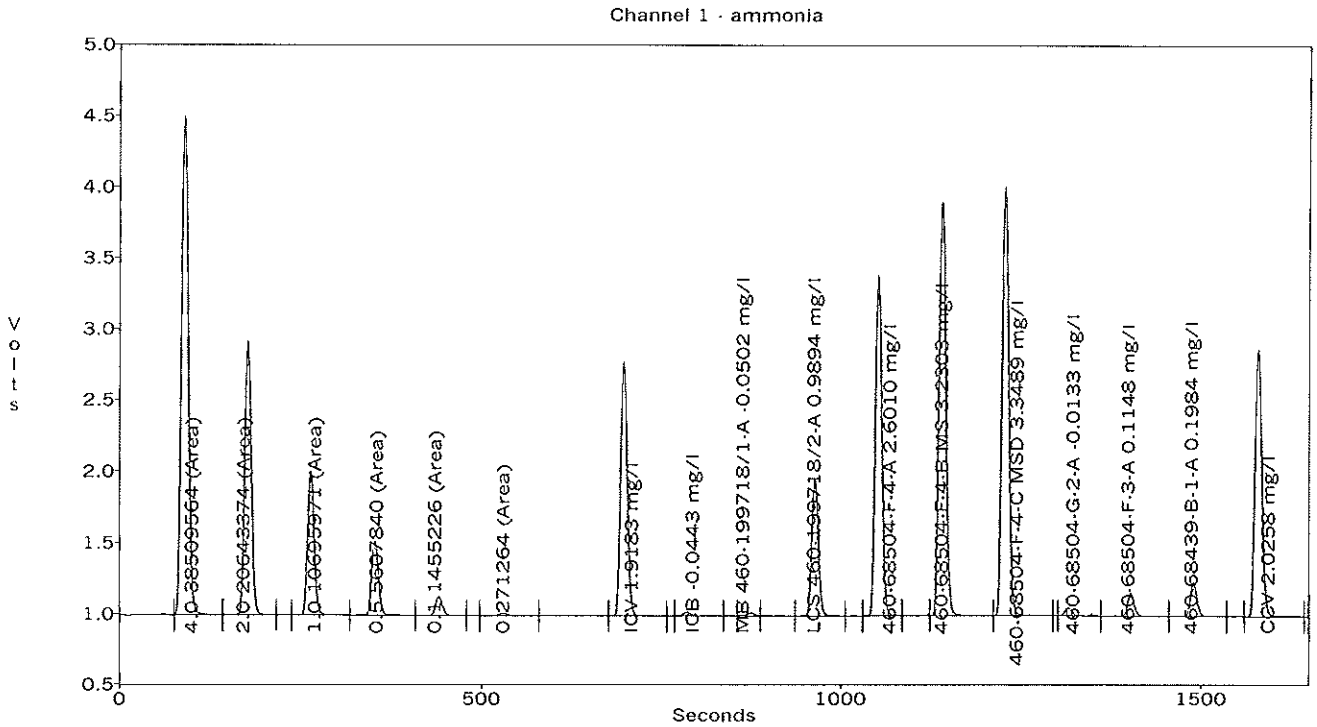
VALVE TIMING:
Method Cycle Period: 90.0
Sample Reaches 1st Valve: 30.0
Valve: On
Load Time: 0.0
Load Period: 18.0
Inject Period: 72.0

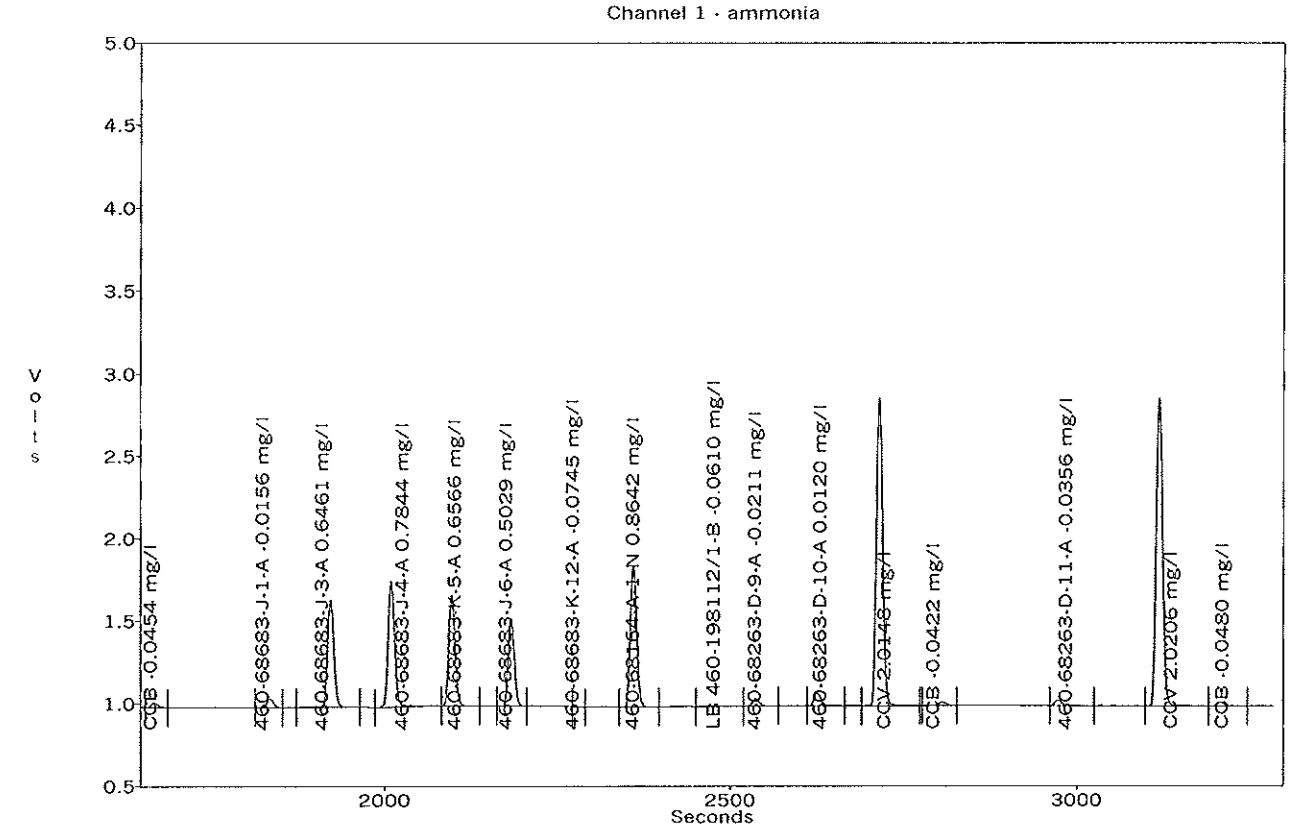
Multi-Channel Table
Type: Calibration Standards
Channel Range: 1 to 1 -- Cup Range: 1 to 8

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	ammonia (uv-s)	Man Dil Factor	Weight	Unit
1	4.0	24 Dec 2013	12:05:16	1	38509564.00	1.0	1.00000	g
2	2.0	24 Dec 2013	12:06:44	1	20643374.00	1.0	1.00000	g
3	1.0	24 Dec 2013	12:08:11	1	10695971.00	1.0	1.00000	g
4	0.5	24 Dec 2013	12:09:39	1	5607840.00	1.0	1.00000	g
5	0.1	24 Dec 2013	12:11:07	1	1455226.00	1.0	1.00000	g
6	0	24 Dec 2013	12:12:37	1	271264.00	1.0	1.00000	g

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 1 -- Cup Range: 1 to 46

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	ammonia (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV	24 Dec 2013	12:15:25	1	1.9183	1.0	1.00	1.00000	g
2	ICB	24 Dec 2013	12:16:53	1	-0.0443	1.0	1.00	1.00000	g
3	MB 460-199718/1-A	24 Dec 2013	12:18:22	1	-0.0502	1.0	1.00	1.00000	g
4	LCS 460-199718/2-A	24 Dec 2013	12:19:51	1	0.9894	1.0	1.00	1.00000	g
5	460-68504-F-4-A	24 Dec 2013	12:21:18	1	2.6010	1.0	1.00	1.00000	g
6	460-68504-F-4-B MS	24 Dec 2013	12:22:46	1	3.2303	1.0	1.00	1.00000	g
7	460-68504-F-4-C MSD	24 Dec 2013	12:24:14	1	3.3489	1.0	1.00	1.00000	g
8	460-68504-G-2-A	24 Dec 2013	12:25:41	1	-0.0133	1.0	1.00	1.00000	g
9	460-68504-F-3-A	24 Dec 2013	12:27:09	1	0.1148	1.0	1.00	1.00000	g
10	460-68439-B-1-A	24 Dec 2013	12:28:37	1	0.1984	1.0	1.00	1.00000	g
11	460-68683-J-1-A	24 Dec 2013	12:34:23	1	-0.0156	1.0	1.00	1.00000	g
12	460-68683-J-3-A	24 Dec 2013	12:35:50	1	0.6461	1.0	1.00	1.00000	g
13	460-68683-J-4-A	24 Dec 2013	12:37:17	1	0.7844	1.0	1.00	1.00000	g
14	460-68683-K-5-A	24 Dec 2013	12:38:43	1	0.6566	1.0	1.00	1.00000	g
15	460-68683-J-6-A	24 Dec 2013	12:40:10	1	0.5029	1.0	1.00	1.00000	g
16	460-68683-K-12-A	24 Dec 2013	12:41:39	1	-0.0745	1.0	1.00	1.00000	g
17	460-68164-A-1-N	24 Dec 2013	12:43:07	1	0.8642	1.0	1.00	1.00000	g
18	LB 460-198112/1-B	24 Dec 2013	12:44:36	1	-0.0610	1.0	1.00	1.00000	g
19	460-68263-D-9-A	24 Dec 2013	12:46:05	1	-0.0211	1.0	1.00	1.00000	g
20	460-68263-D-10-A	24 Dec 2013	12:47:33	1	0.0120	1.0	1.00	1.00000	g
21	460-68263-D-11-A	24 Dec 2013	12:53:20	1	-0.0356	1.0	1.00	1.00000	g


Channel 1 · ammonia
Volts
Seconds
4.0 38509564 (Area)
2.0 20643374 (Area)
1.0 10695971 (Area)
0.5 5007840 (Area)
0.3 1455226 (Area)
0.2 71264 (Area)
ICV 1.9183 mg/l
ICB -0.0443 mg/l
MB 460-199718/1-A -0.0502 mg/l
LCS 460-199718/2-A 0.9894 mg/l
460-68504-F-4-A 2.6010 mg/l
460-68504-F-4-B MS 3.2303 mg/l
460-68504-F-4-C MSD 3.3489 mg/l
460-68504-G-2-A -0.0133 mg/l
460-68504-F-3-A 0.1148 mg/l
460-68439-B-1-A 0.1984 mg/l
CCV 2.0258 mg/l


Channel 1 · ammonia
Volts
Seconds
CCB -0.0454 mg/l
460-68683-J-1-A -0.0156 mg/l
460-68683-J-3-A 0.6461 mg/l
460-68683-J-4-A 0.7844 mg/l
460-68683-K-5-A 0.6566 mg/l
460-68683-J-6-A 0.5029 mg/l
460-68683-K-12-A -0.0745 mg/l
460-68164-A-1-N 0.8642 mg/l
LB 460-198112/1-B -0.0610 mg/l
460-68263-D-9-A -0.0211 mg/l
460-68263-D-10-A 0.0120 mg/l
CCV 2.0148 mg/l
CCB -0.0422 mg/l
460-68263-D-11-A -0.0356 mg/l
CCV 2.0206 mg/l
CCB -0.0480 mg/l

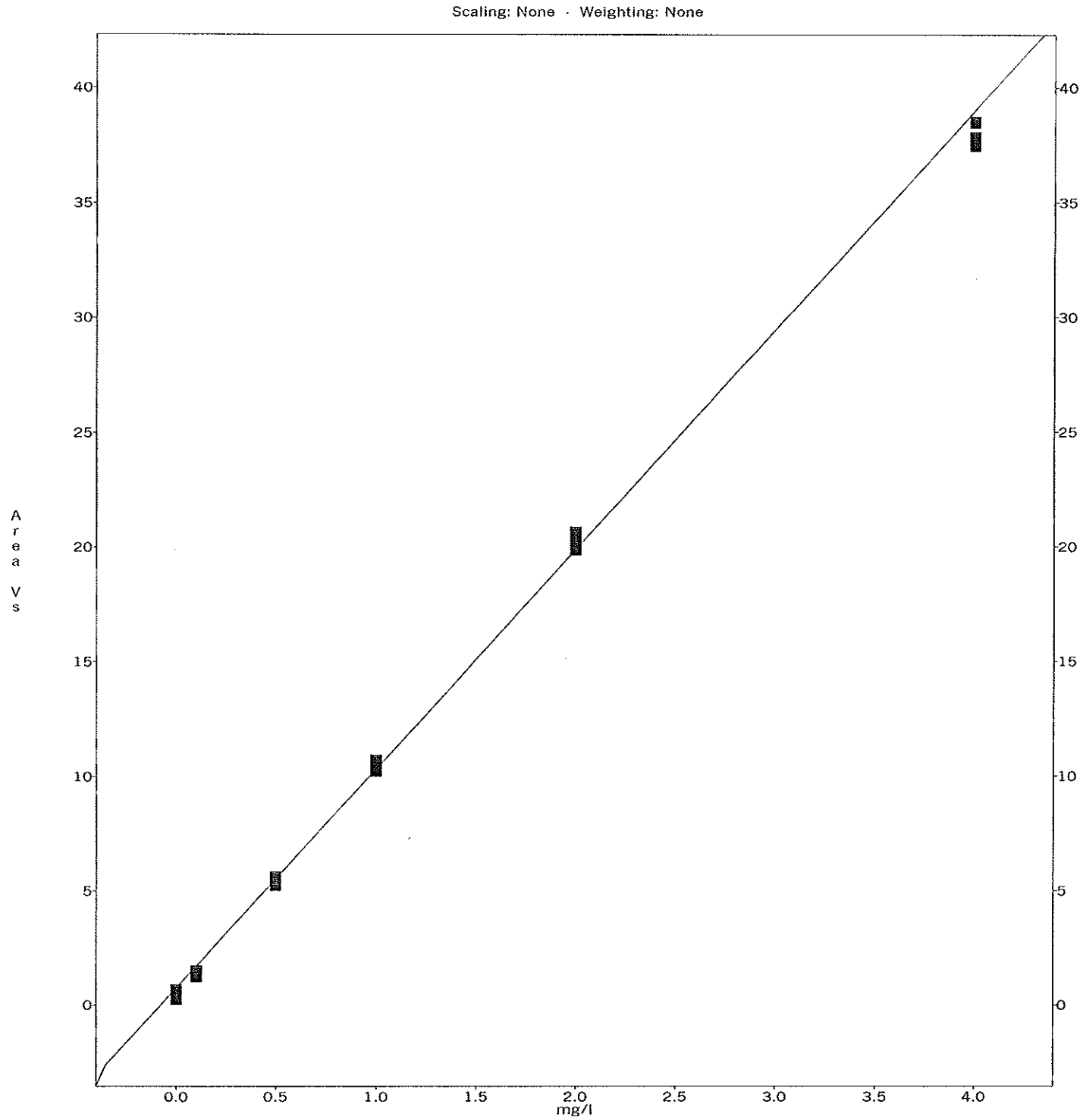
Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	Rep #	ammonia (mg/l)	Man Dil Factor	Auto Dil Factor	Weight	Unit
15	CCV	RelChkStd	24 Dec 2013	12:30:07	1	2.03	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		1.29				
15	CCV	RelChkStd	24 Dec 2013	12:49:02	1	2.01	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		0.74				
15	CCV	RelChkStd	24 Dec 2013	12:55:47	1	2.02	1.0	1.00	1.00000	g
				Known Concentration:		2.00				
				% Difference:		1.03				
16	CCB	Blank	24 Dec 2013	12:31:37	1	-0.05	1.0	1.00	1.00000	g
16	CCB	Blank	24 Dec 2013	12:50:33	1	-0.04	1.0	1.00	1.00000	g
16	CCB	Blank	24 Dec 2013	12:57:17	1	-0.05	1.0	1.00	1.00000	g

ammonia

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	38509564	4.0	38509564	37837152	37501268			513422.6	1.4	1.3
2	20643374	2.0	20643374	20154902	19886502			383731.4	1.9	-4.0
3	10695971	1.0	10695971	10514007	10258829			219590.5	2.1	-4.0
4	5607840	0.5	5607840	5522080	5274269			173221.8	3.2	-1.7
5	1455226	0.1	1455226	1493827	1278813			114631.7	8.1	25.4
6	271264	0.0	271264	650490	390390			193931.0	44.3	

1st Order Poly
Conc = 1.045e-007 Area - 7.743e-002
r = 0.9994



Printed: Tuesday, December 24, 2013 - 01:02 PM

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_002.d
Lims ID: STD1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Dec-2013 11:24:24 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 002 Name: 480-0028121-002
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:45 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

First Level Reviewer: cudneyk Date: 13-Dec-2013 11:38:57

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.983	1.893	2.110	1479	4.29	4.36		1 Fluoride
2.870	2.727	3.130	22582	65.57	5.21		2 Chloride
4.447	4.347	4.553	283	0.82	6.15		3 Bromide
4.757	4.553	4.957	2614	7.59	7.06		
5.703	5.533	5.900	7480	21.72	5.67		5 Sulfate
			34438			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

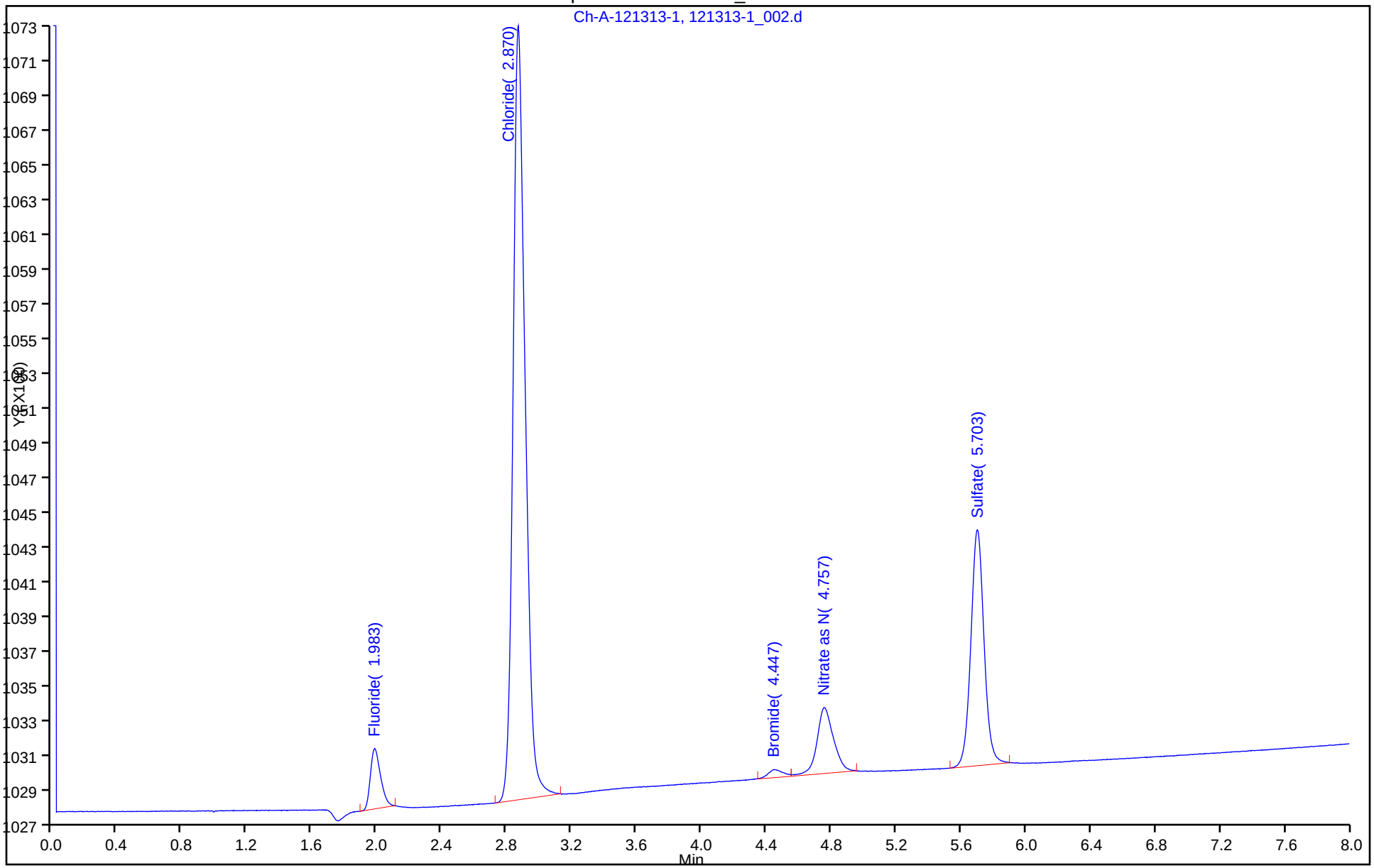
Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_002.d				
Lims ID:	STD1	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	13-Dec-2013 11:24:24	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 002 Name: 480-0028121-002				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	13-Dec-2013 13:08:45	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK031				
First Level Reviewer: cudneyk		Date:	13-Dec-2013 11:38:57		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.983	1.997	-0.014	1479	0.0483	
2 Chloride					
2.870	2.867	0.003	22582	0.8588	
3 Bromide					
4.447	4.443	0.004	283	0.0359	
4 Nitrate as N					
4.757	4.723	0.034	2614	0	
5 Sulfate					
5.703	5.620	0.083	7480	0.4534	

Report Date: 13-Dec-2013 13:08:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_002.d				
Injection Date:	13-Dec-2013 11:24:24	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_003.d
Lims ID: STD2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Dec-2013 11:34:31 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 003 Name: 480-0028121-003
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:44 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

First Level Reviewer: cudneyk Date: 13-Dec-2013 11:48:50

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.987	1.877	2.133	3212	5.93	4.38		1 Fluoride
2.870	2.730	3.170	31055	57.34	5.23		2 Chloride
4.453	4.330	4.563	611	1.13	6.43		3 Bromide
4.757	4.563	5.023	4878	9.01	7.05		
5.700	5.523	5.927	14405	26.60	5.67		5 Sulfate
			54161			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

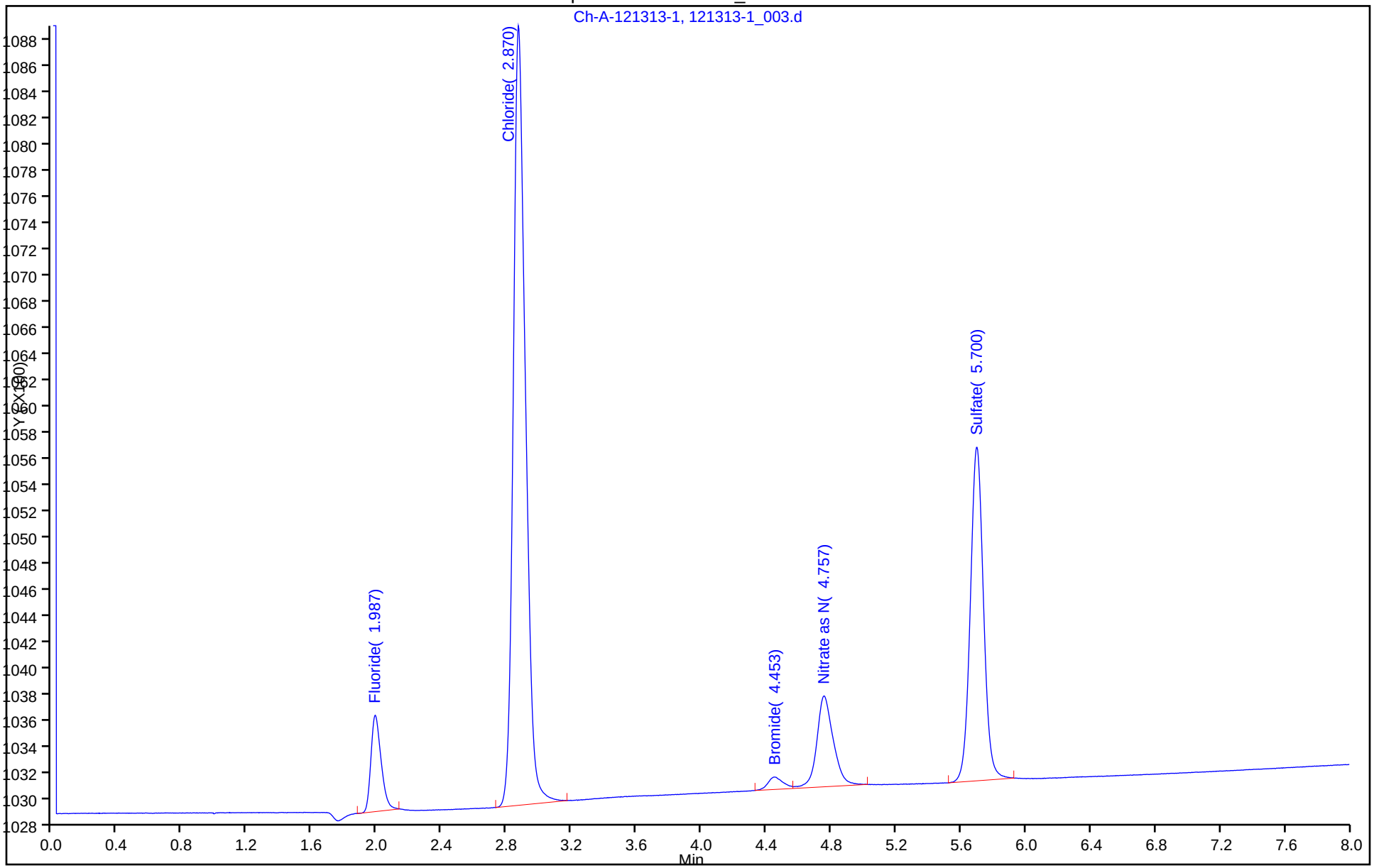
Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_003.d				
Lims ID:	STD2	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	13-Dec-2013 11:34:31	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 003 Name: 480-0028121-003				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	13-Dec-2013 13:08:44	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK031				
First Level Reviewer: cudneyk		Date:	13-Dec-2013 11:48:50		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.987	1.997	-0.010	3212	0.1048	
2 Chloride					
2.870	2.867	0.003	31055	1.31	
3 Bromide					
4.453	4.443	0.010	611	0.0774	
4 Nitrate as N					
4.757	4.723	0.034	4878	0	
5 Sulfate					
5.700	5.620	0.080	14405	0.9637	

Report Date: 13-Dec-2013 13:08:45 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_003.d				
Injection Date:	13-Dec-2013 11:34:31	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Dec-2013 11:44:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028121-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:43 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.990	1.867	2.243	16541	7.41	4.45		1 Fluoride
2.873	2.710	3.183	109977	49.24	5.27		2 Chloride
4.450	4.303	4.593	3490	1.56	6.24		3 Bromide
4.753	4.593	5.050	22622	10.13	6.96		
5.683	5.517	6.030	70740	31.67	6.03		5 Sulfate
			223370			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
IC, ICal Standard Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Dec-2013 11:44:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028121-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:43 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK031

Start Cal Date: 13-Dec-2013 11:14:16
End Cal Date: 13-Dec-2013 12:15:03

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	0.5000	-0.007	0.5399	33082	8.0	0
2 Chloride	5.00	0.006	5.49	21995	9.8	0
3 Bromide	0.5000	0.007	0.4421	6980.00	-11.6	0
5 Sulfate	5.00	0.063	5.11	14148	2.3	0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Dec-2013 11:44:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028121-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:43 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

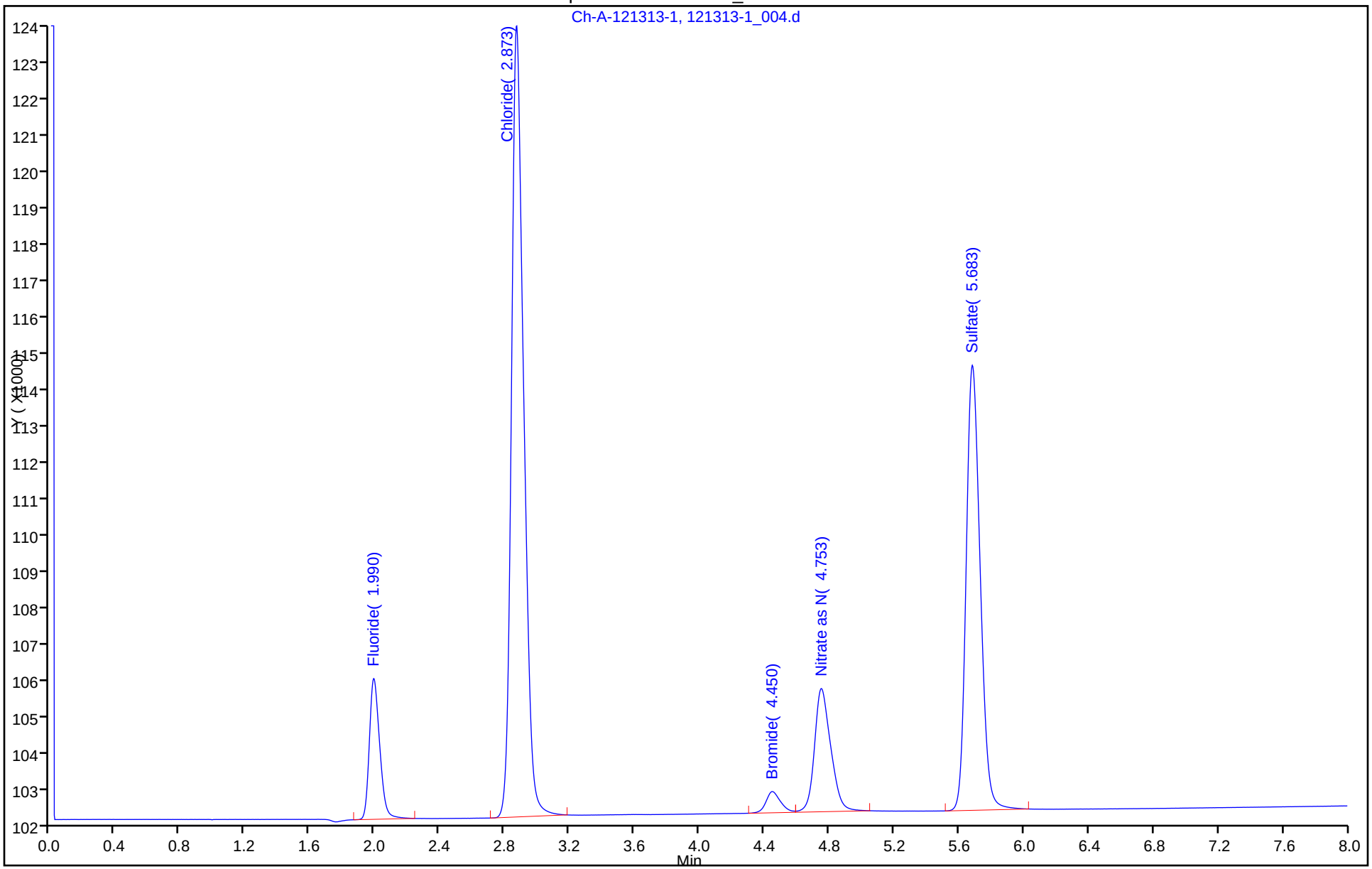
Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK031

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.990	1.997	-0.007	16541	0.5399	
2 Chloride					
2.873	2.867	0.006	109977	5.49	
3 Bromide					
4.450	4.443	0.007	3490	0.4421	
4 Nitrate as N					
4.753	4.723	0.030	22622	0	
5 Sulfate					
5.683	5.620	0.063	70740	5.11	

Report Date: 13-Dec-2013 13:08:44 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_004.d				
Injection Date:	13-Dec-2013 11:44:39	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_005.d
Lims ID: STD4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Dec-2013 11:54:47 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 005 Name: 480-0028121-005
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:42 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

First Level Reviewer: cudneyk Date: 13-Dec-2013 12:26:48

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.997	1.873	2.280	62065	7.56	4.75		1 Fluoride
2.867	2.707	3.297	378315	46.07	5.27		2 Chloride
4.443	4.273	4.583	15231	1.85	6.02		3 Bromide
4.723	4.583	5.103	91408	11.13	7.46		
5.620	5.487	6.077	274100	33.38	7.41		5 Sulfate
			821119			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

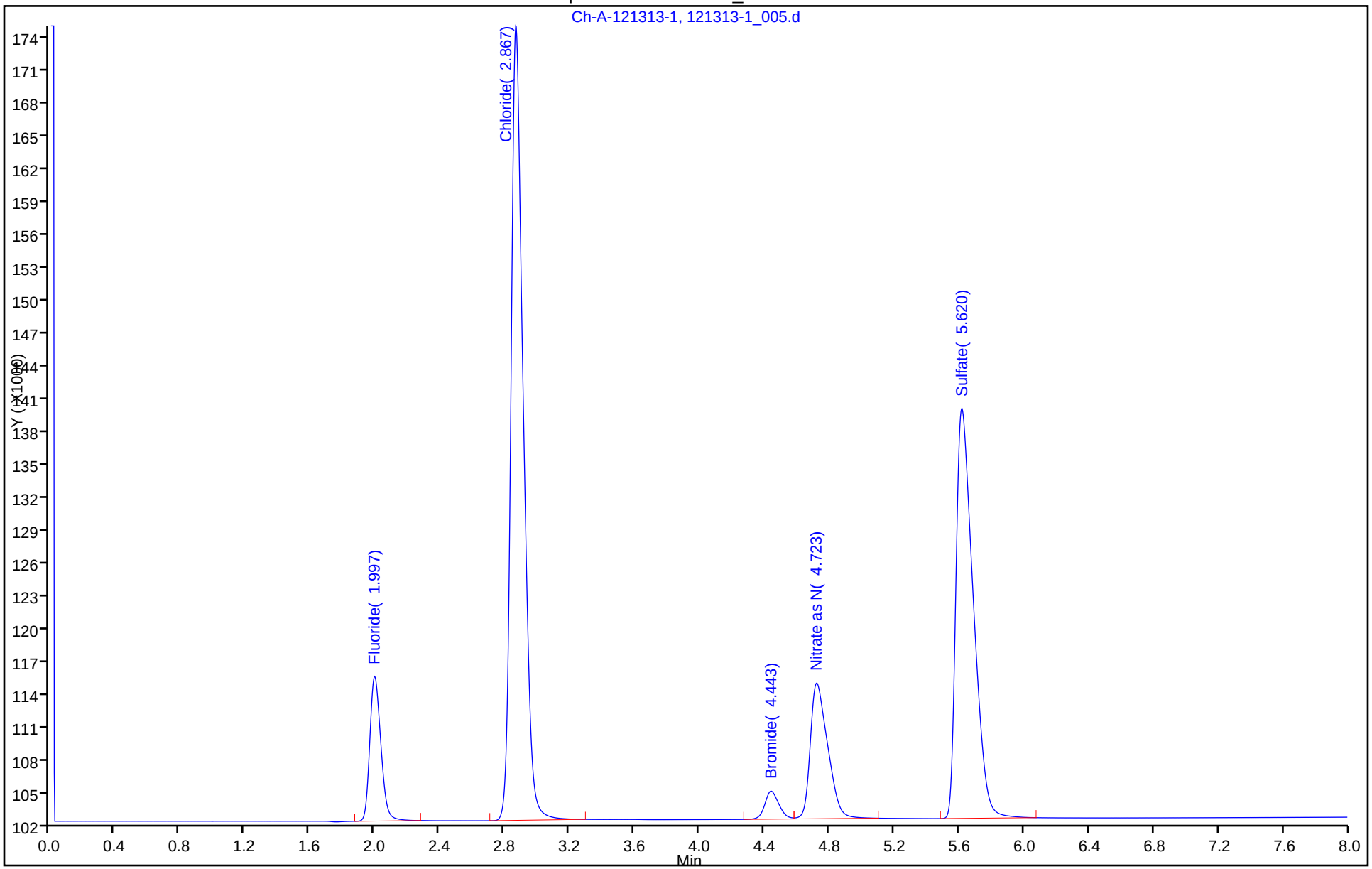
Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_005.d				
Lims ID:	STD4	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	13-Dec-2013 11:54:47	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 005 Name: 480-0028121-005				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	13-Dec-2013 13:08:42	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK031				
First Level Reviewer: cudneyk		Date:	13-Dec-2013 12:26:48		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.997	1.997	0.0	62065	2.03	
2 Chloride					
2.867	2.867	0.0	378315	19.7	
3 Bromide					
4.443	4.443	0.0	15231	1.93	
4 Nitrate as N					
4.723	4.723	0.0	91408	0	
5 Sulfate					
5.620	5.620	0.0	274100	20.1	

Report Date: 13-Dec-2013 13:08:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_005.d				
Injection Date:	13-Dec-2013 11:54:47	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_006.d
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Dec-2013 12:04:55 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 006 Name: 480-0028121-006
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:40 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

First Level Reviewer: cudneyk Date: 13-Dec-2013 12:40:29

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.000	1.867	2.383	145452	7.19	5.18		1 Fluoride
2.860	2.707	3.390	928911	45.91	5.30		2 Chloride
4.430	4.257	4.570	39559	1.96	5.91		3 Bromide
4.683	4.570	5.210	229787	11.36	8.32		
5.540	5.413	6.170	679623	33.59	9.82		5 Sulfate
			2023332			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

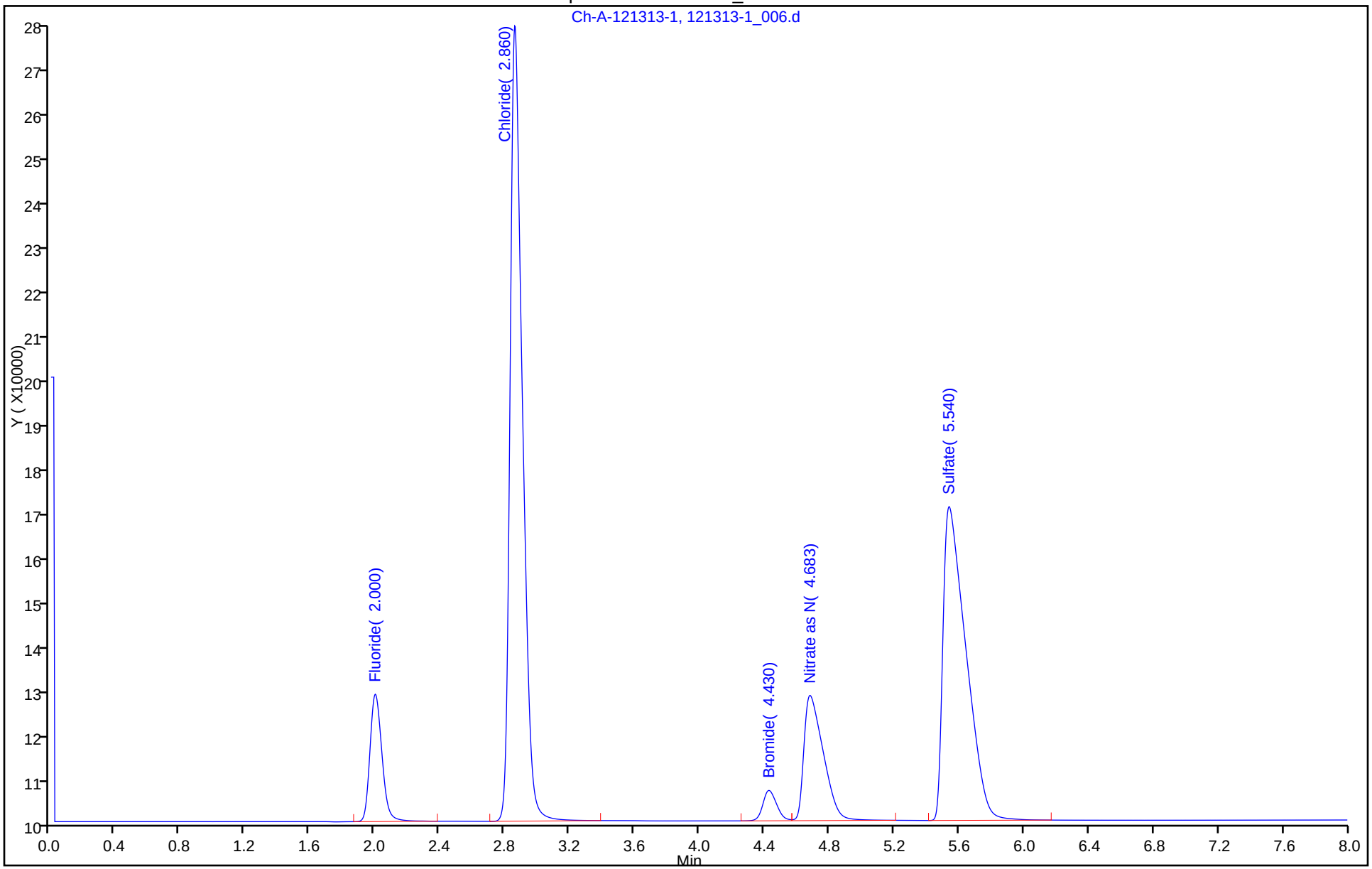
Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_006.d				
Lims ID:	STD5	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	13-Dec-2013 12:04:55	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 006 Name: 480-0028121-006				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	13-Dec-2013 13:08:40	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK031				
First Level Reviewer: cudneyk		Date:	13-Dec-2013 12:40:29		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
2.000	2.000	0.0	145452	4.75	
2 Chloride					
2.860	2.860	0.0	928911	48.9	
3 Bromide					
4.430	4.430	0.0	39559	5.01	
4 Nitrate as N					
4.683	4.683	0.0	229787	0	
5 Sulfate					
5.540	5.540	0.0	679623	50.0	

Report Date: 13-Dec-2013 13:08:41 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_006.d				
Injection Date:	13-Dec-2013 12:04:55	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Lims ID: STD6 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 13-Dec-2013 12:15:03 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 480-0028121-007
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 13-Dec-2013 13:08:39 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK031

First Level Reviewer: cudneyk Date: 13-Dec-2013 12:29:51

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.010	1.867	2.417	289291	7.06	5.77		1 Fluoride
2.857	2.713	3.757	1904544	46.46	5.10		2 Chloride
4.410	4.253	4.543	80159	1.96	5.41		3 Bromide
4.637	4.543	5.233	467422	11.40	9.30		
5.360	5.233	6.123	1358186	33.13	12.41		5 Sulfate
			4099602			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

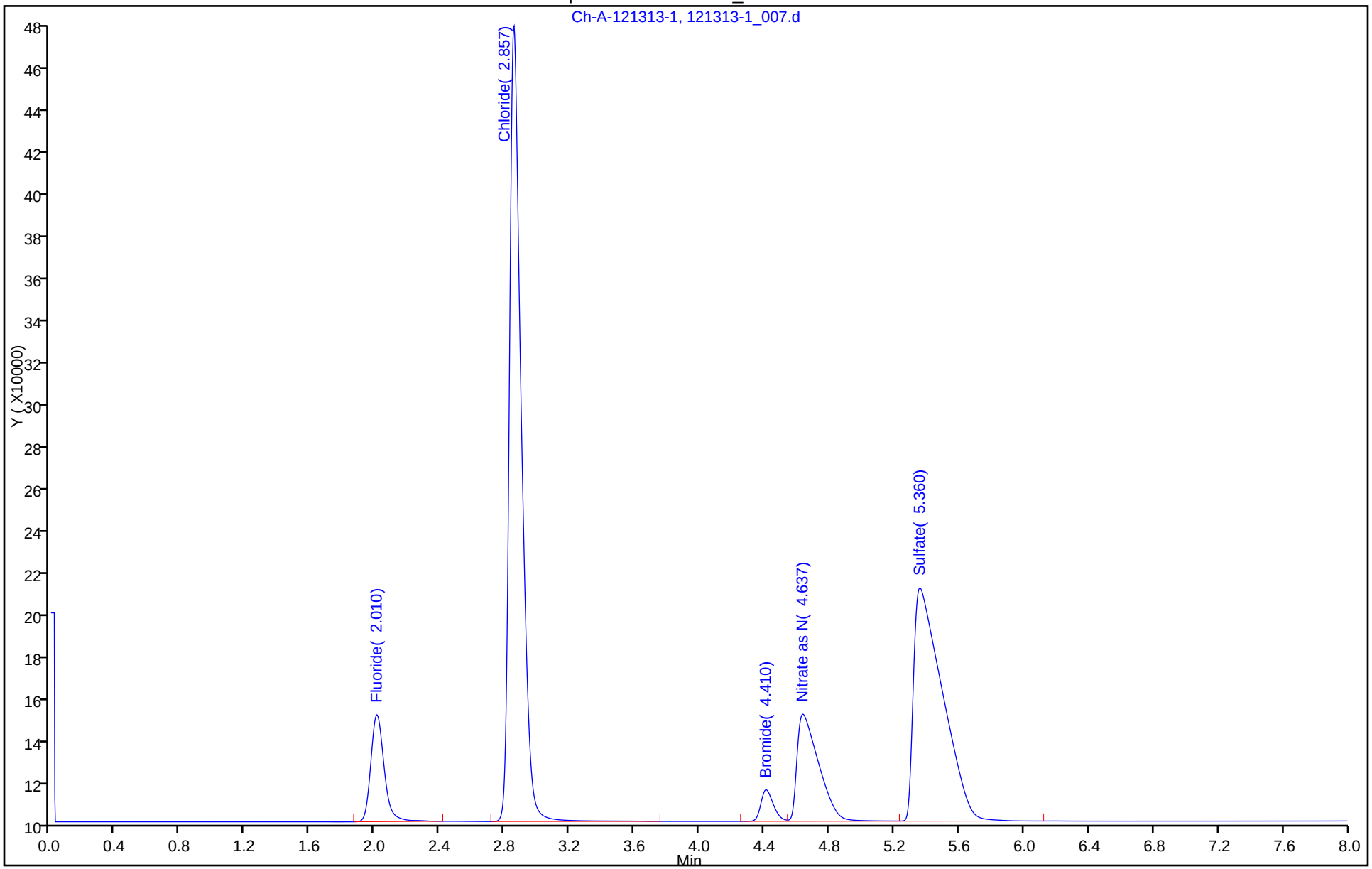
Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Lims ID:	STD6	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	13-Dec-2013 12:15:03	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 480-0028121-007				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	13-Dec-2013 13:08:39	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK031				
First Level Reviewer: cudneyk		Date:	13-Dec-2013 12:29:51		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
2.010	2.010	0.0	289291	9.44	
2 Chloride					
2.857	2.857	0.0	1904544	100.6	
3 Bromide					
4.410	4.410	0.0	80159	10.2	
4 Nitrate as N					
4.637	4.637	0.0	467422	0	
5 Sulfate					
5.360	5.360	0.0	1358186	100.0	

Report Date: 13-Dec-2013 13:08:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Injection Date:	13-Dec-2013 12:15:03	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_049.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 20:51:20 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 049 Name: 480-0028167-049
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:10 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:23

Detector: Ch-A-092410-2
Number of peaks found: 7

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.977	1.867	2.167	55020	7.38	4.39		1 Fluoride
2.210	2.167	2.427	1463	0.20	7.39		
2.840	2.687	3.337	339995	45.62	4.89	M	2 Chloride
4.403	4.257	4.560	12955	1.74	5.34		3 Bromide
4.683	4.560	5.003	81922	10.99	6.79		
5.067	5.003	5.337	1720	0.23	9.94		
5.550	5.403	6.117	252157	33.84	7.82		5 Sulfate
			745232			Totals	

Total Unknown Area% = 0.43

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_049.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 20:51:20 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 049 Name: 480-0028167-049
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:10 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:23

Start Cal Date: 13-Dec-2013 11:14:16
End Cal Date: 13-Dec-2013 12:15:03

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	1.80	27510	-10.2	10
2 Chloride	20.0	0.0	17.7	17000	-11.6	10
3 Bromide	2.00	0.010	1.64	6477.50	-17.9	10
5 Sulfate	20.0	-0.047	18.5	12608	-7.6	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_049.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 20:51:20 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 049 Name: 480-0028167-049
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:10 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.977	1.977	0.0	55020	1.80	
2 Chloride					M
2.840	2.840	0.0	339995	17.7	M
3 Bromide					
4.403	4.393	0.010	12955	1.64	
4 Nitrate as N					
4.683	4.673	0.010	81922	0	
5 Sulfate					
5.550	5.597	-0.047	252157	18.5	

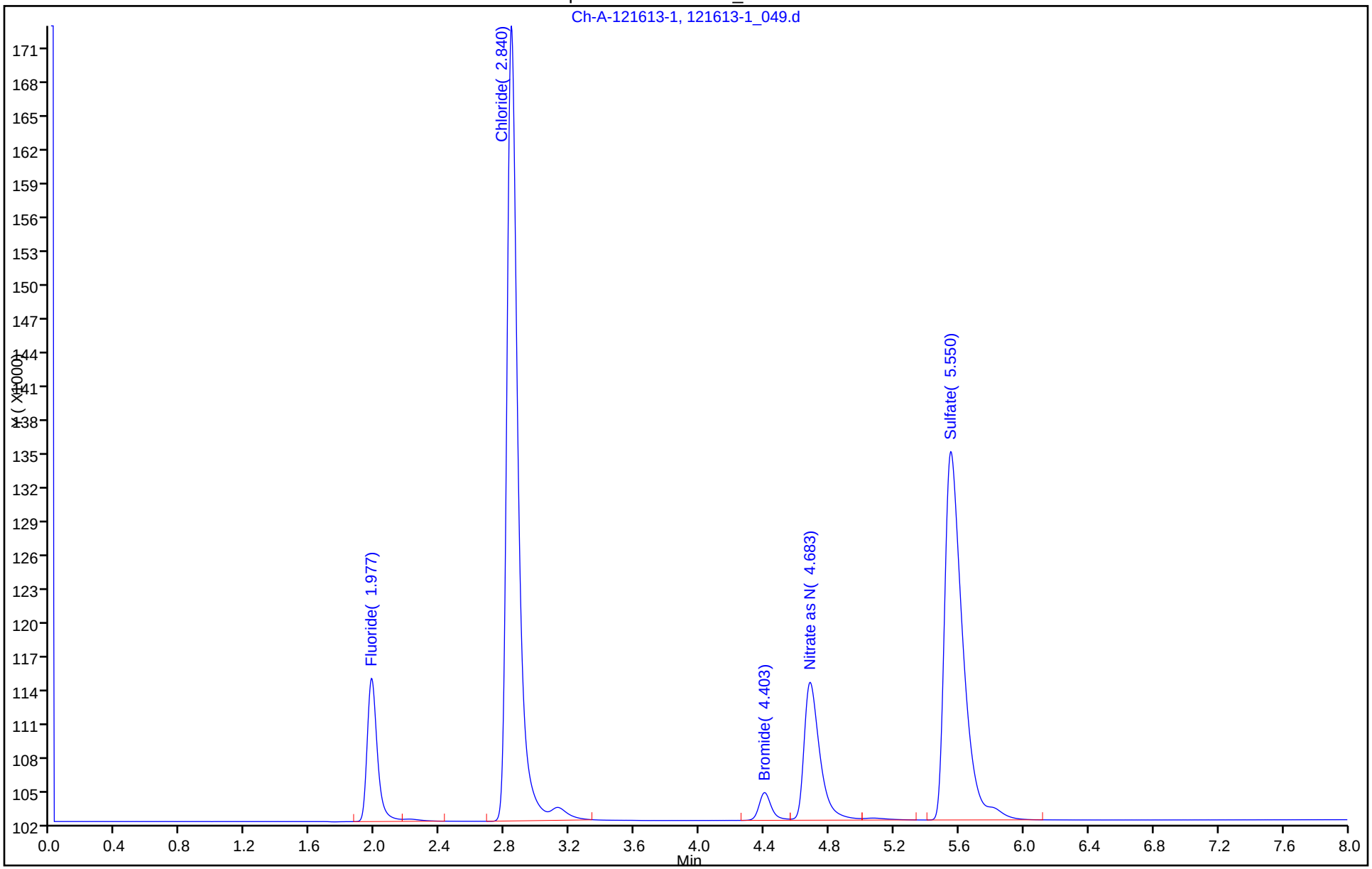
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:10:10 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_049.d				
Injection Date:	16-Dec-2013 20:51:20	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



Manual Integration/User Assign Peak Report

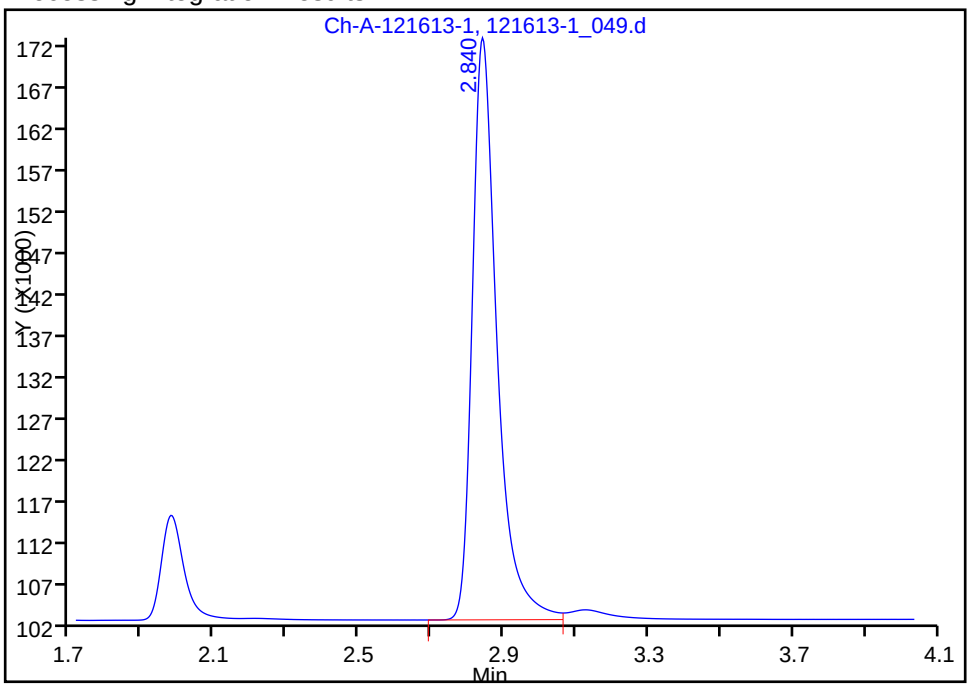
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_049.d				
Injection Date:	16-Dec-2013 20:51:20	Instrument ID:	IC-1		
Lims ID:	CCV	Lab Sample ID:			
Client ID:					
Operator ID:	TCHROM	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		
Column:		Detector	Ch-A-092410-2		

2 Chloride, CAS: 16887-00-6

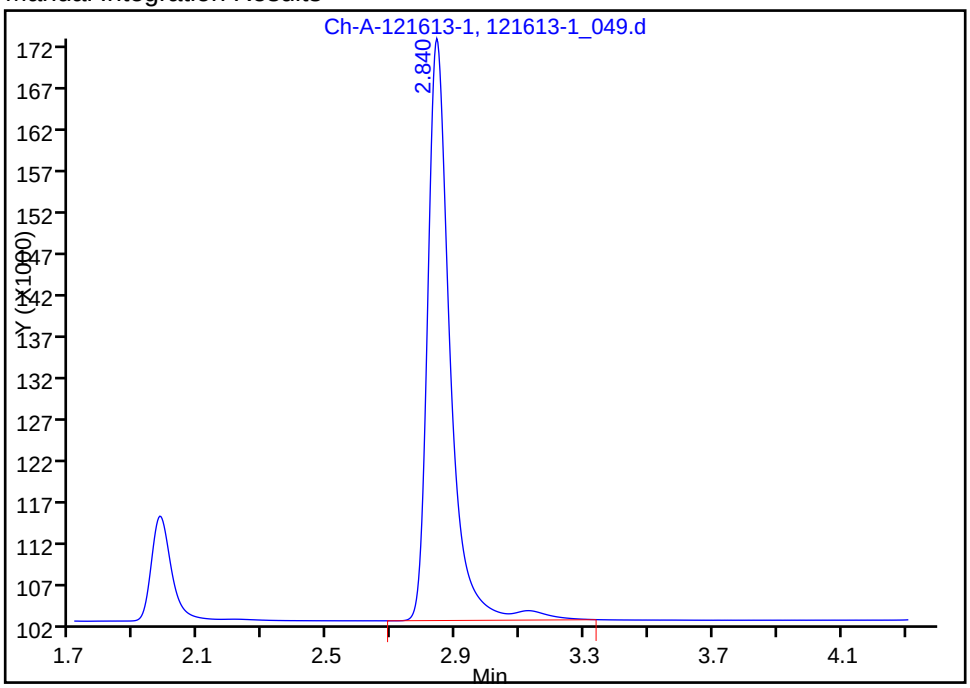
Processing Integration Results

RT: 2.84
Response: 331674
Amount: 17.237897



Manual Integration Results

RT: 2.84
Response: 339995
Amount: 17.678835



Reviewer: clarkk, 17-Dec-2013 08:10:10
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_050.d
Lims ID: CCB Lab Sample ID: CCB 480-157772/50-A
Client ID:
Sample Type: CCB
Inject. Date: 16-Dec-2013 21:01:28 ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 050 Name: 480-0028167-050
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:09:23 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:30

Detector: Ch-A-092410-2
Number of peaks found: 2

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.833	2.747	2.923	274	54.80	3.97		2 Chloride
5.633	5.530	5.717	226	45.20	5.14		5 Sulfate
			500			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

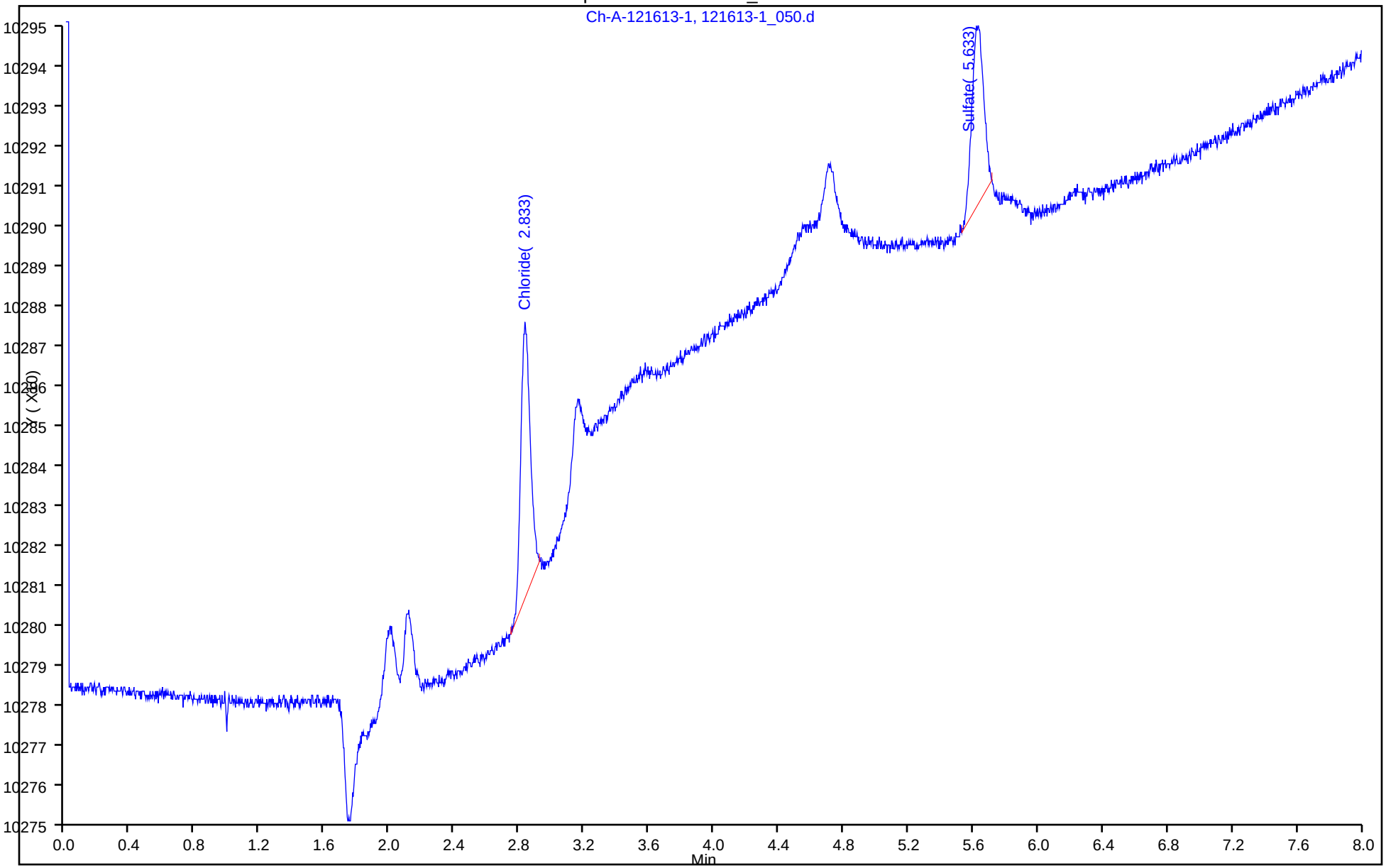
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_050.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/50-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	16-Dec-2013 21:01:28	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 050 Name: 480-0028167-050				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:09:23	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:09:30		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.833	2.840	-0.007	274	-0.3233	
5 Sulfate					
5.633	5.597	0.036	226	-0.0811	

Report Date: 17-Dec-2013 08:09:31 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_050.d				
Injection Date:	16-Dec-2013 21:01:28	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/50-A	Worklist Smp#:	50
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_051.d
Lims ID: LCS Lab Sample ID: LCS 480-157772/51-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Dec-2013 21:11:35 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 051 Name: 480-0028167-051
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:09:23 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:39

Detector: Ch-A-092410-2
Number of peaks found: 8

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.977	1.870	2.167	55234	7.39	4.39		1 Fluoride
2.207	2.167	2.430	1479	0.20	7.29		
2.840	2.707	3.063	331530	44.35	4.77		2 Chloride
3.123	3.063	3.430	9378	1.25	7.99		
4.403	4.253	4.563	12989	1.74	5.36		3 Bromide
4.683	4.563	4.990	81918	10.96	6.78		
5.067	4.990	5.370	1999	0.27	10.92		
5.557	5.417	6.097	253040	33.85	7.83		5 Sulfate
			747567			Totals	

Total Unknown Area% = 1.72

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_051.d
Lims ID: LCS Lab Sample ID: LCS 480-157772/51-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Dec-2013 21:11:35 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 051 Name: 480-0028167-051
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:09:23 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

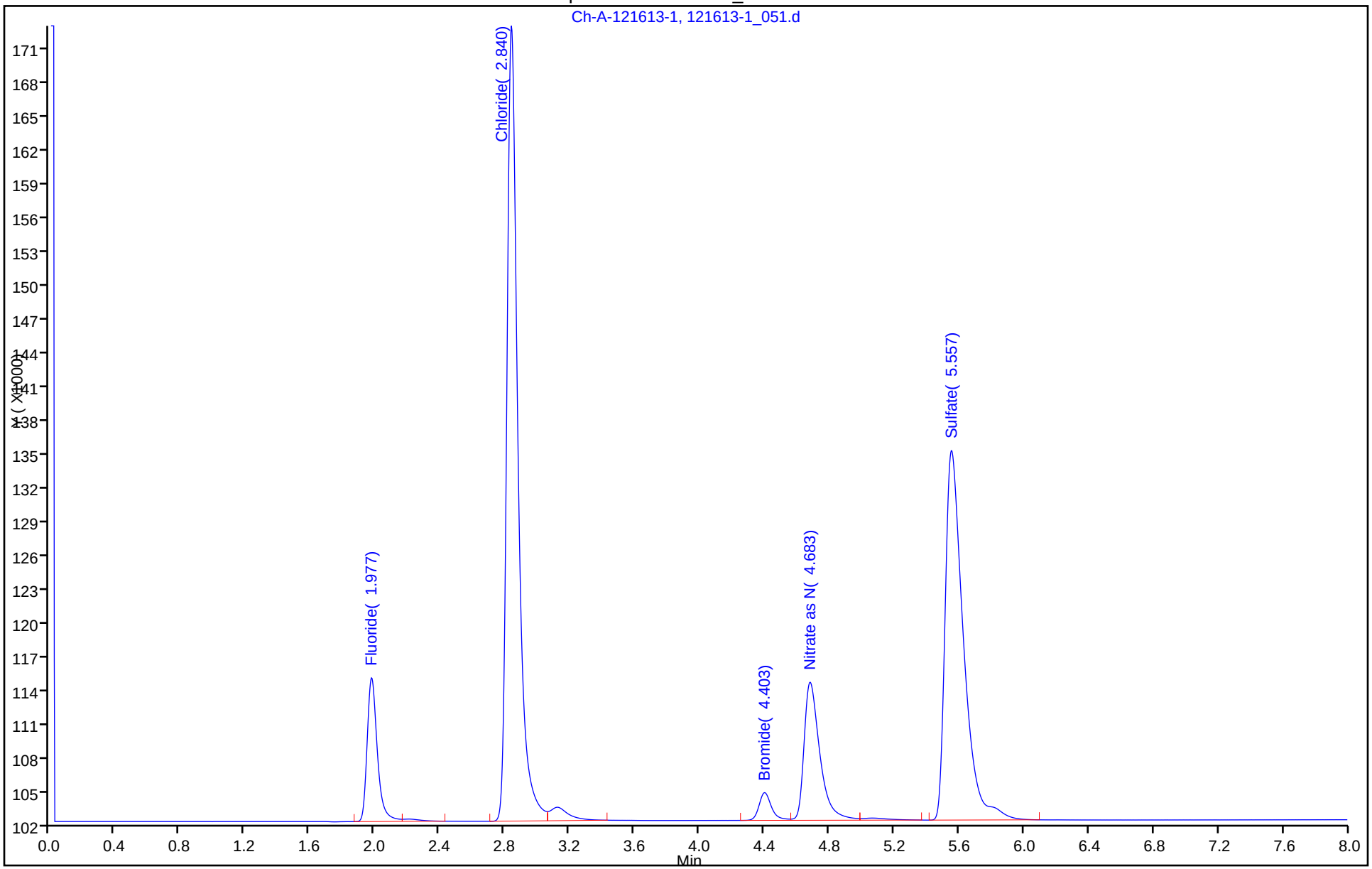
First Level Reviewer: clarkk Date: 17-Dec-2013 08:09:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.977	1.977	0.0	55234	1.80	
2 Chloride					
2.840	2.840	0.0	331530	17.2	
3 Bromide					
4.403	4.393	0.010	12989	1.65	
4 Nitrate as N					
4.683	4.673	0.010	81918	0	
5 Sulfate					
5.557	5.597	-0.040	253040	18.5	

Report Date: 17-Dec-2013 08:09:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_051.d				
Injection Date:	16-Dec-2013 21:11:35	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	LCS	Lab Sample ID:	LCS 480-157772/51-A	Worklist Smp#:	51
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_052.d
Lims ID: MB Lab Sample ID: MB 480-157772/52-A
Client ID:
Sample Type: MB
Inject. Date: 16-Dec-2013 21:21:43 ALS Bottle#: 0 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 052 Name: 480-0028167-052
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:10 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:10:19

Detector: Ch-A-092410-2
Number of peaks found: 2

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.837	2.750	2.930	294	46.67	4.20		2 Chloride
5.630	5.523	5.737	336	53.33	5.42		5 Sulfate
			630			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

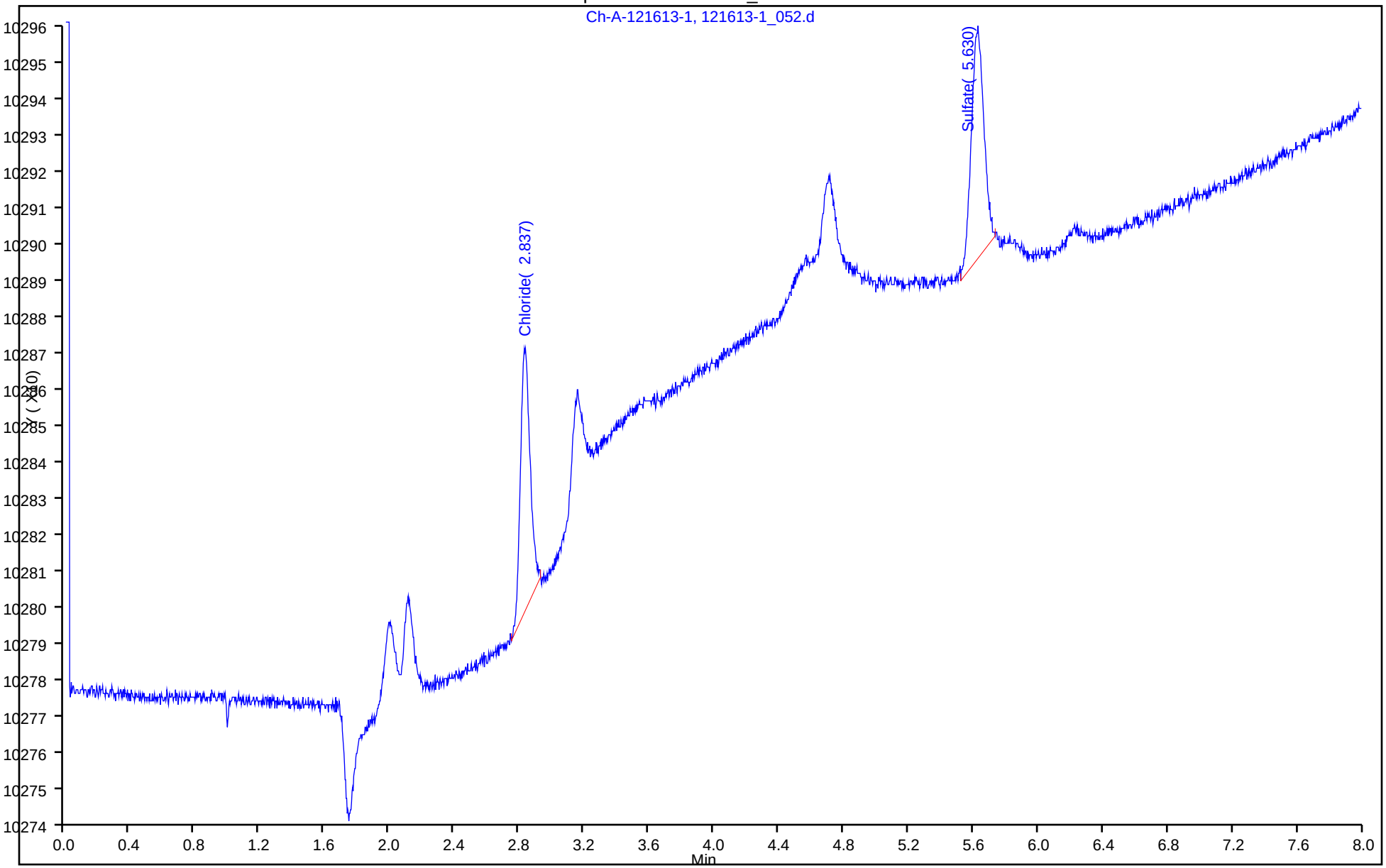
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_052.d				
Lims ID:	MB	Lab Sample ID:	MB 480-157772/52-A		
Client ID:					
Sample Type:	MB				
Inject. Date:	16-Dec-2013 21:21:43	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 052 Name: 480-0028167-052				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:10:10	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:10:19		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.837	2.840	-0.003	294	-0.3222	
5 Sulfate					
5.630	5.597	0.033	336	-0.0730	

Report Date: 17-Dec-2013 08:10:19 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_052.d				
Injection Date:	16-Dec-2013 21:21:43	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	MB	Lab Sample ID:	MB 480-157772/52-A	Worklist Smp#:	52
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_055.d
Lims ID: 460-68263-A-1 Lab Sample ID: 480-68263-1
Client ID: GW0016
Sample Type: Client
Inject. Date: 16-Dec-2013 21:52:07 ALS Bottle#: 0 Worklist Smp#: 55
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 055 Name: 480-0028167-055
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:12

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.967	1.867	2.187	9089	1.12	3.99		1 Fluoride
2.837	2.693	3.053	387105	47.51	4.74		2 Chloride
3.113	3.053	3.423	10961	1.35	8.08		
4.333	4.110	4.610	2692	0.33	14.32		3 Bromide
5.523	5.387	6.150	404942	49.70	8.79		5 Sulfate
			814789			Totals	

Total Unknown Area% = 1.35

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

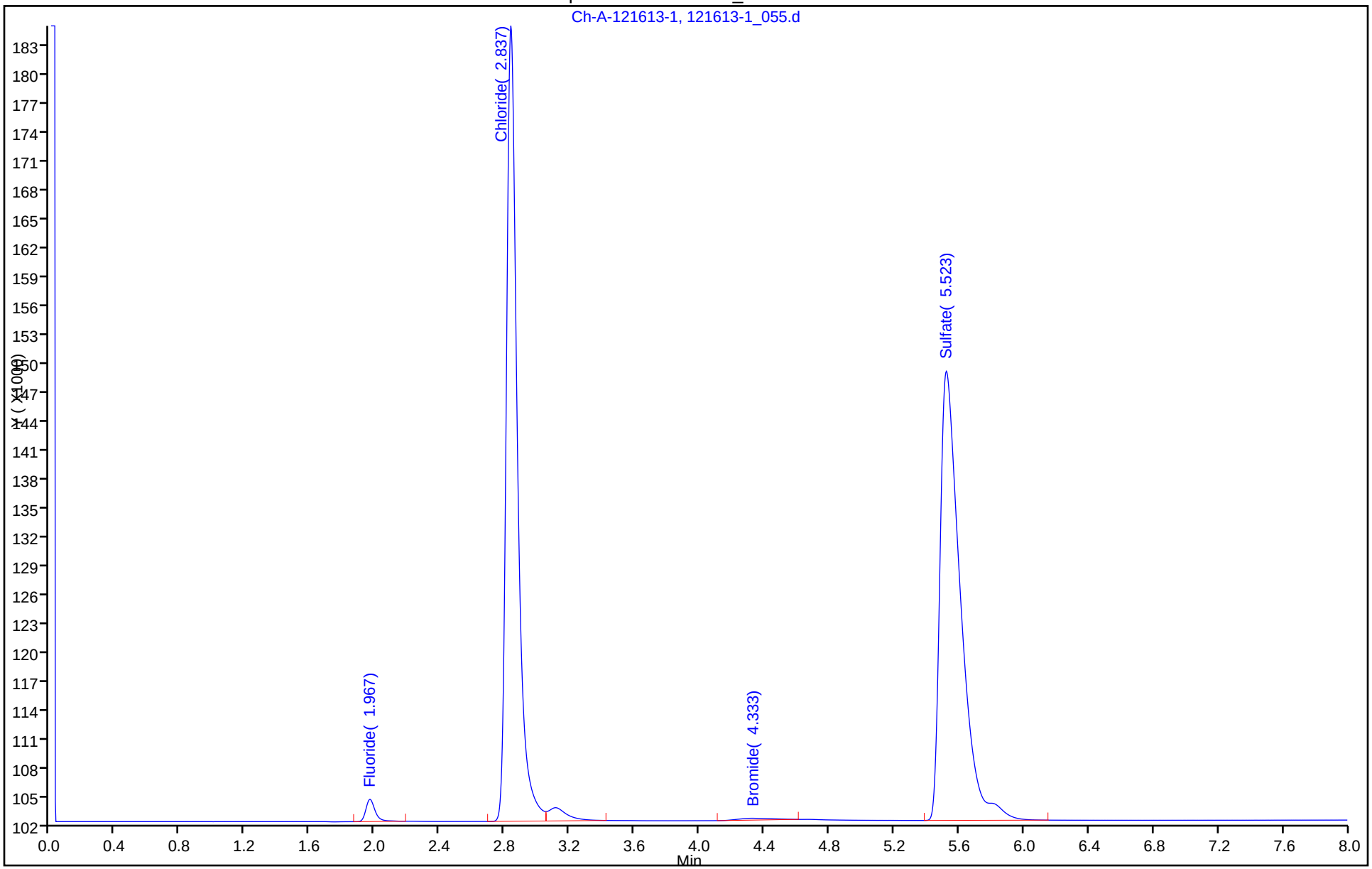
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_055.d				
Lims ID:	460-68263-A-1	Lab Sample ID:	480-68263-1		
Client ID:	GW0016				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 21:52:07	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 055 Name: 480-0028167-055				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:11:12		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.967	1.977	-0.010	9089	0.2966	
2 Chloride					
2.837	2.840	-0.003	387105	20.2	
3 Bromide					
4.333	4.393	-0.060	2692	0.3410	
5 Sulfate					
5.523	5.597	-0.074	404942	29.7	

Report Date: 17-Dec-2013 08:11:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_055.d				
Injection Date:	16-Dec-2013 21:52:07	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-1	Lab Sample ID:	480-68263-1	Worklist Smp#:	55
Client ID:	GW0016				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_056.d
Lims ID: 460-68263-A-2 Lab Sample ID: 480-68263-2
Client ID: GW0017
Sample Type: Client
Inject. Date: 16-Dec-2013 22:02:15 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 056 Name: 480-0028167-056
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:14

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.967	1.867	2.243	5060	0.56	4.02		1 Fluoride
2.837	2.697	3.053	455886	50.39	4.76		2 Chloride
3.110	3.053	3.420	12734	1.41	7.98		
4.320	4.067	4.827	4916	0.54	19.82		3 Bromide
5.513	5.363	6.120	426188	47.10	8.90		5 Sulfate
			904784			Totals	

Total Unknown Area% = 1.41

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

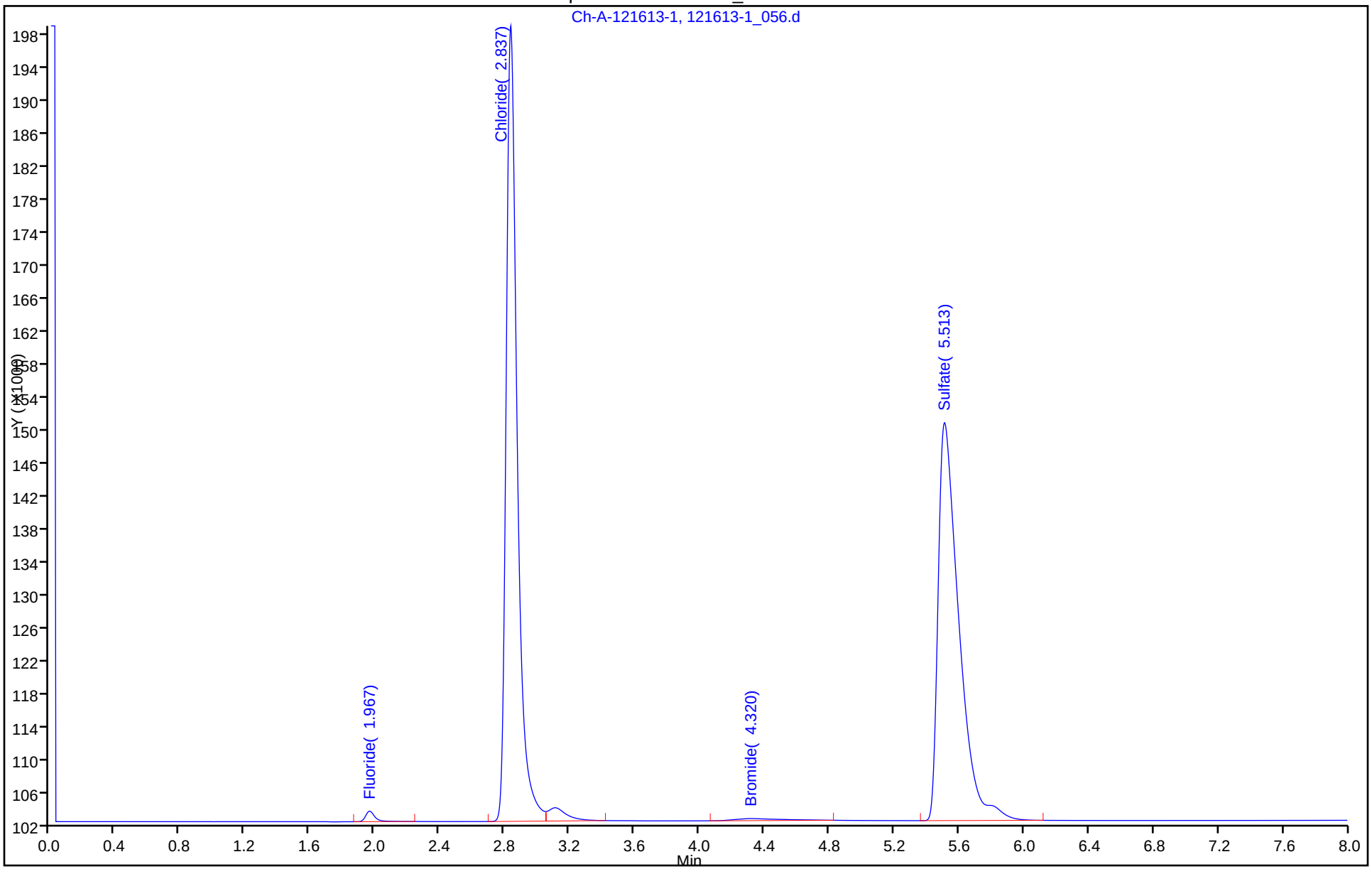
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_056.d				
Lims ID:	460-68263-A-2	Lab Sample ID:	480-68263-2		
Client ID:	GW0017				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 22:02:15	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 056 Name: 480-0028167-056				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:11:14		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.967	1.977	-0.010	5060	0.1651	
2 Chloride					
2.837	2.840	-0.003	455886	23.8	
3 Bromide					
4.320	4.393	-0.073	4916	0.6227	
5 Sulfate					
5.513	5.597	-0.084	426188	31.3	

Report Date: 17-Dec-2013 08:11:14 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_056.d				
Injection Date:	16-Dec-2013 22:02:15	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-2	Lab Sample ID:	480-68263-2	Worklist Smp#:	56
Client ID:	GW0017				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_057.d
Lims ID: 460-68263-A-3 Lab Sample ID: 480-68263-3
Client ID: GW0018
Sample Type: Client
Inject. Date: 16-Dec-2013 22:12:23 ALS Bottle#: 0 Worklist Smp#: 57
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 057 Name: 480-0028167-057
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:16

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.967	1.870	2.170	6477	0.64	3.97		1 Fluoride
2.837	2.697	3.053	508566	49.94	4.78		2 Chloride
3.110	3.053	3.437	14572	1.43	8.06		
4.327	4.050	4.643	3110	0.31	16.63		3 Bromide
5.037	4.943	5.157	509	0.05	5.36		
5.503	5.370	6.100	485064	47.63	9.26		5 Sulfate
			1018298			Totals	

Total Unknown Area% = 1.48

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_057.d				
Lims ID:	460-68263-A-3	Lab Sample ID:	480-68263-3		
Client ID:	GW0018				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 22:12:23	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 057 Name: 480-0028167-057				
Operator ID:	TCHROM	Instrument ID:	IC-1		

Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m		
Limit Group:	MB 300.0_28D ICAL		
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d		

Column 1 :		Detector	Ch-A-092410-2
Process Host:	XAWRK012		

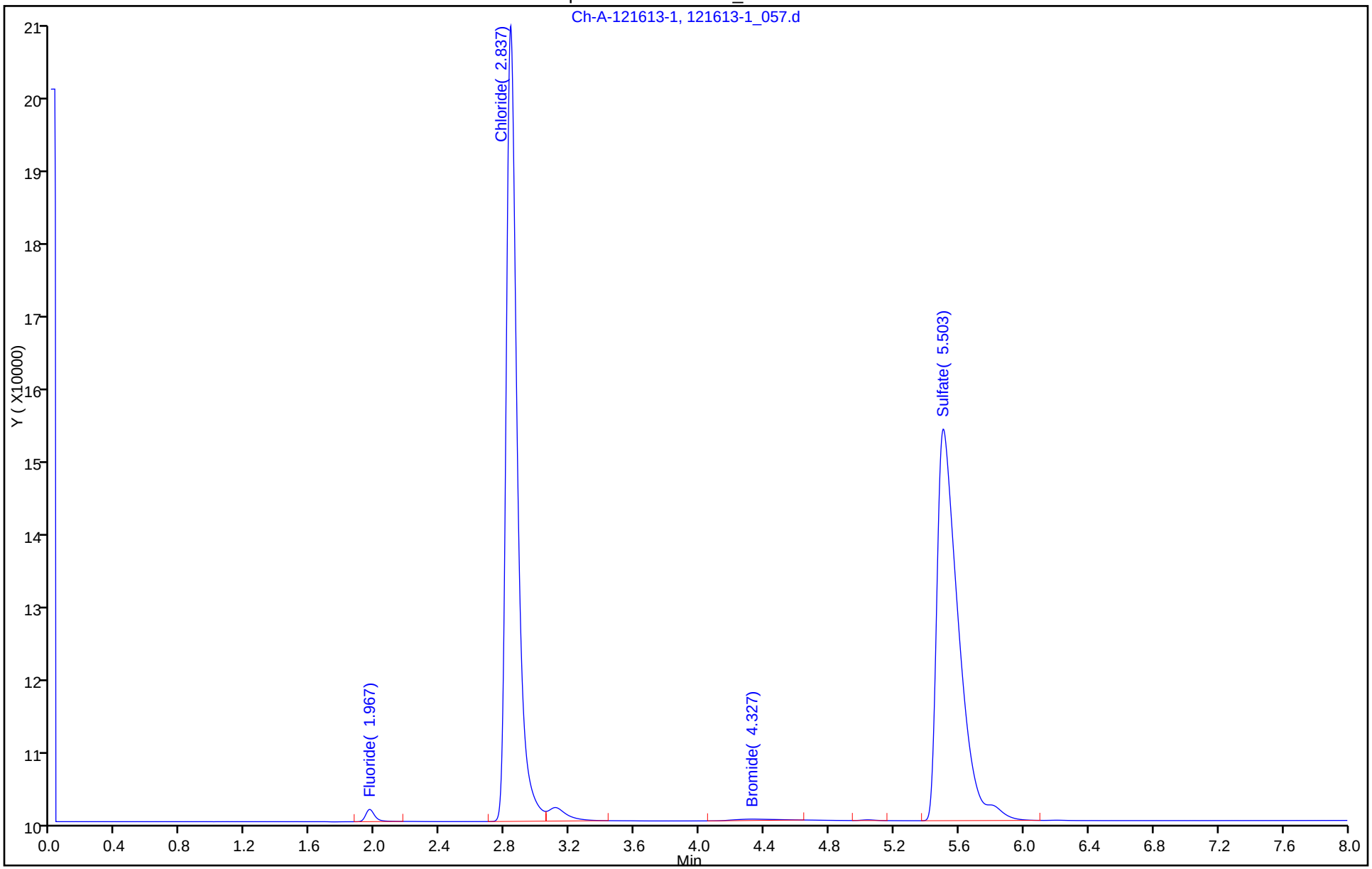
First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.967	1.977	-0.010	6477	0.2114	
2 Chloride					
2.837	2.840	-0.003	508566	26.6	
3 Bromide					
4.327	4.393	-0.066	3110	0.3940	
5 Sulfate					
5.503	5.597	-0.094	485064	35.6	

Report Date: 17-Dec-2013 08:11:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_057.d				
Injection Date:	16-Dec-2013 22:12:23	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-3	Lab Sample ID:	480-68263-3	Worklist Smp#:	57
Client ID:	GW0018				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_058.d
Lims ID: 460-68263-A-4 Lab Sample ID: 480-68263-4
Client ID: GW0019
Sample Type: Client
Inject. Date: 16-Dec-2013 22:22:31 ALS Bottle#: 0 Worklist Smp#: 58
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 058 Name: 480-0028167-058
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:20

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.973	1.873	2.173	33352	3.40	4.24		1 Fluoride
2.833	2.690	3.057	790702	80.58	4.83		2 Chloride
3.117	3.057	3.517	24822	2.53	8.34		
4.337	4.113	4.507	3243	0.33	14.35		3 Bromide
4.683	4.507	4.973	17593	1.79	7.08		
5.587	5.427	6.057	111588	11.37	6.62		5 Sulfate
			981300			Totals	

Total Unknown Area% = 2.53

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

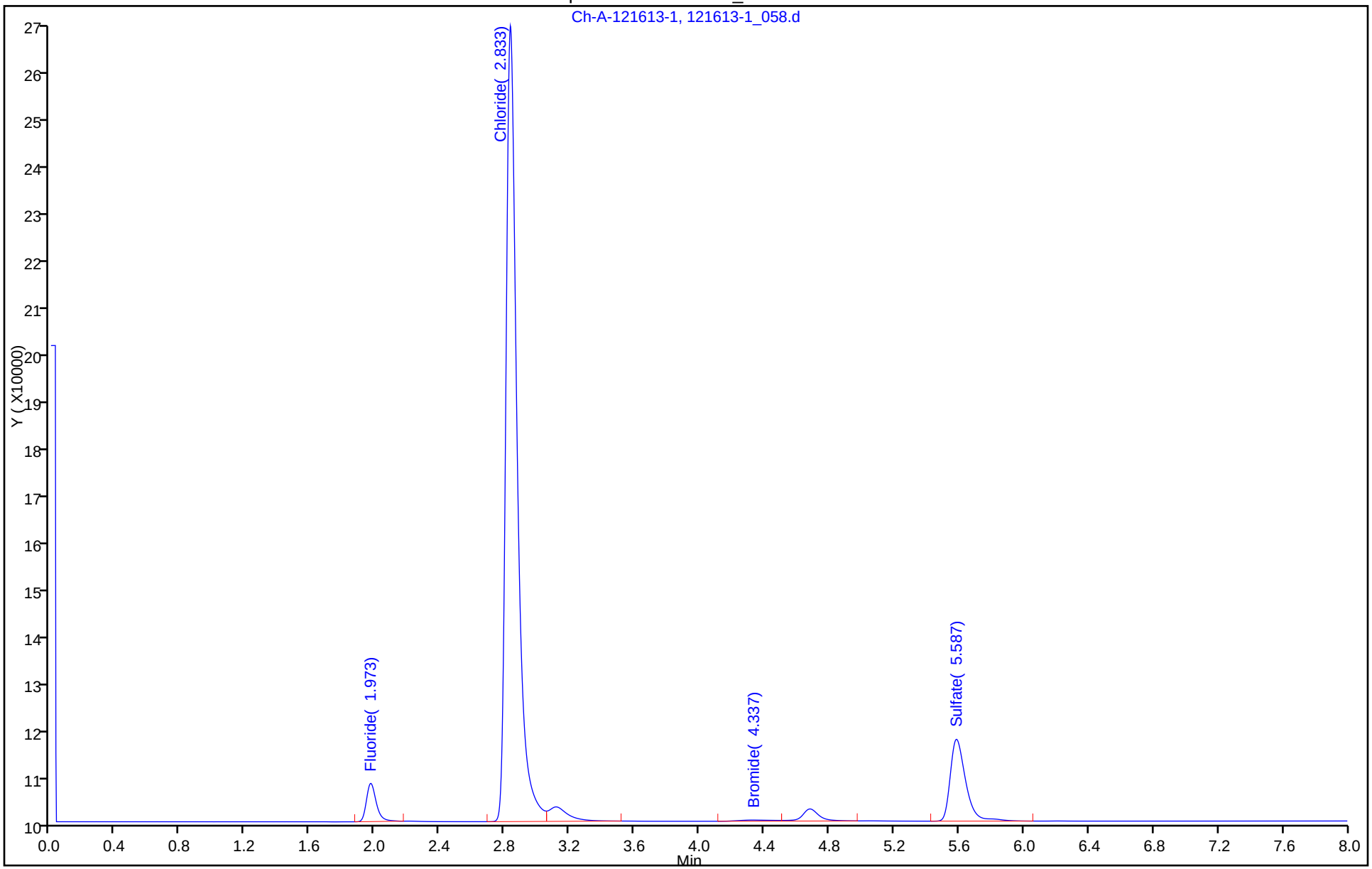
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_058.d				
Lims ID:	460-68263-A-4	Lab Sample ID:	480-68263-4		
Client ID:	GW0019				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 22:22:31	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 058 Name: 480-0028167-058				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:11:20		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.973	1.977	-0.004	33352	1.09	
2 Chloride					
2.833	2.840	-0.007	790702	41.6	
3 Bromide					
4.337	4.393	-0.056	3243	0.4108	
5 Sulfate					
5.587	5.597	-0.010	111588	8.12	

Report Date: 17-Dec-2013 08:11:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_058.d				
Injection Date:	16-Dec-2013 22:22:31	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-4	Lab Sample ID:	480-68263-4	Worklist Smp#:	58
Client ID:	GW0019				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_059.d
Lims ID: 460-68263-A-5 Lab Sample ID: 480-68263-5
Client ID: GW0020
Sample Type: Client
Inject. Date: 16-Dec-2013 22:32:39 ALS Bottle#: 0 Worklist Smp#: 59
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 059 Name: 480-0028167-059
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:23

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.970	1.870	2.083	30711	3.46	4.23		1 Fluoride
2.107	2.083	2.337	2111	0.24	5.57		
2.833	2.697	3.053	663399	74.78	4.82		2 Chloride
3.113	3.053	3.503	21240	2.39	8.29		
4.330	4.130	4.683	2908	0.33	14.25		3 Bromide
5.580	5.430	6.070	166720	18.79	7.11		5 Sulfate
			887089			Totals	

Total Unknown Area% = 2.63

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_059.d				
Lims ID:	460-68263-A-5	Lab Sample ID:	480-68263-5		
Client ID:	GW0020				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 22:32:39	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 059 Name: 480-0028167-059				
Operator ID:	TCHROM	Instrument ID:	IC-1		

Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m		
Limit Group:	MB 300.0_28D ICAL		
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d		

Column 1 :		Detector	Ch-A-092410-2
Process Host:	XAWRK012		

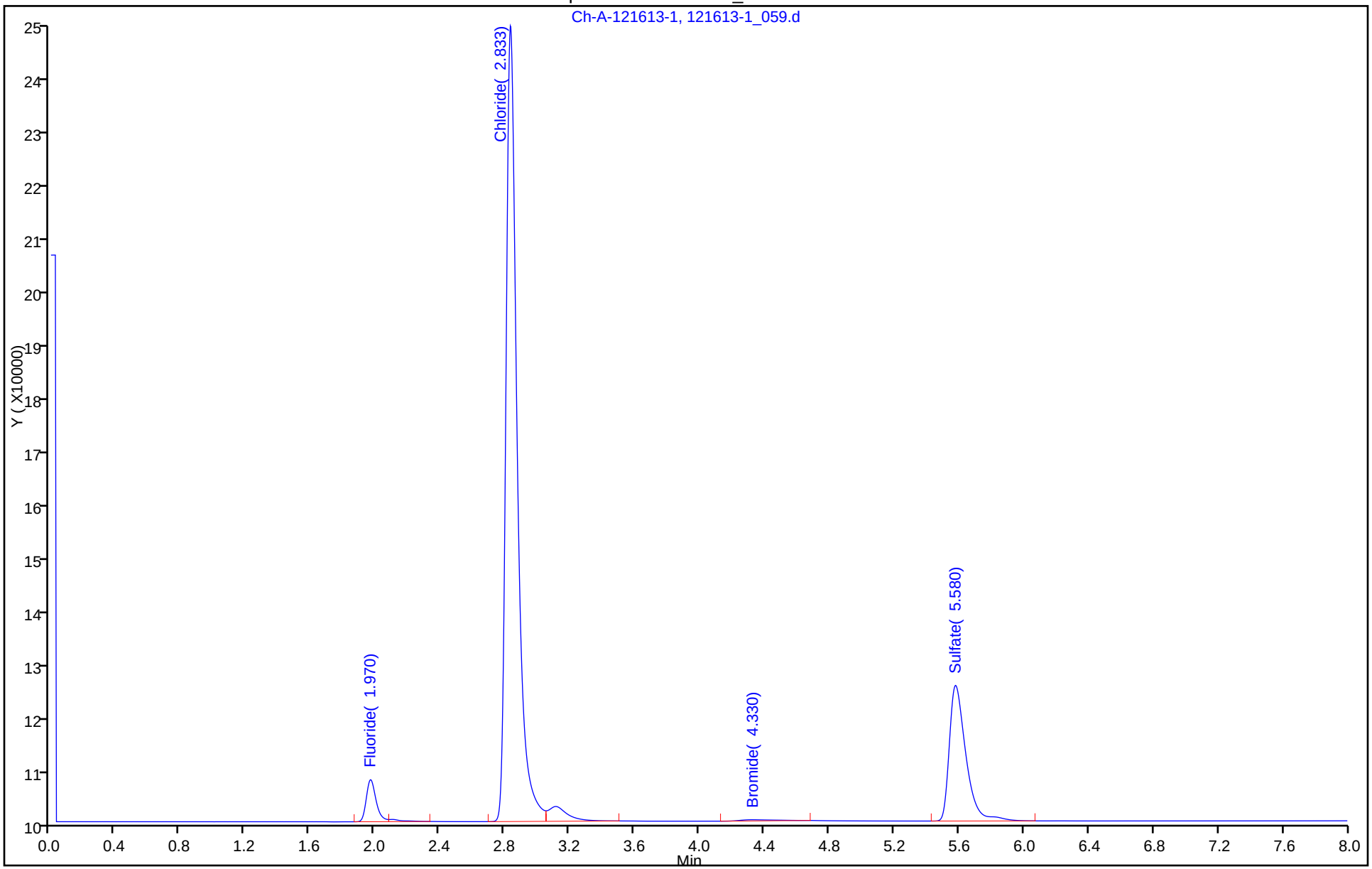
First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.970	1.977	-0.007	30711	1.00	
2 Chloride					
2.833	2.840	-0.007	663399	34.8	
3 Bromide					
4.330	4.393	-0.063	2908	0.3684	
5 Sulfate					
5.580	5.597	-0.017	166720	12.2	

Report Date: 17-Dec-2013 08:11:23 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_059.d				
Injection Date:	16-Dec-2013 22:32:39	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-5	Lab Sample ID:	480-68263-5	Worklist Smp#:	59
Client ID:	GW0020				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_060.d
Lims ID: 460-68263-A-5 MS Lab Sample ID: 480-68263-5
Client ID:
Sample Type: MS
Inject. Date: 16-Dec-2013 22:42:47 ALS Bottle#: 0 Worklist Smp#: 60
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 060 Name: 480-0028167-060
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:10:36 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:25

Detector: Ch-A-092410-2
Number of peaks found: 7

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.873	2.230	101336	5.36	4.76		1 Fluoride
2.833	2.700	3.057	1104816	58.44	4.86		2 Chloride
3.113	3.057	3.557	35464	1.88	8.40		
4.327	4.107	4.507	20279	1.07	7.85		3 Bromide
4.660	4.507	4.993	113958	6.03	7.53		
5.067	4.993	5.337	2542	0.13	10.21		
5.470	5.343	6.093	511994	27.08	9.37		5 Sulfate
			1890389			Totals	

Total Unknown Area% = 2.01

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

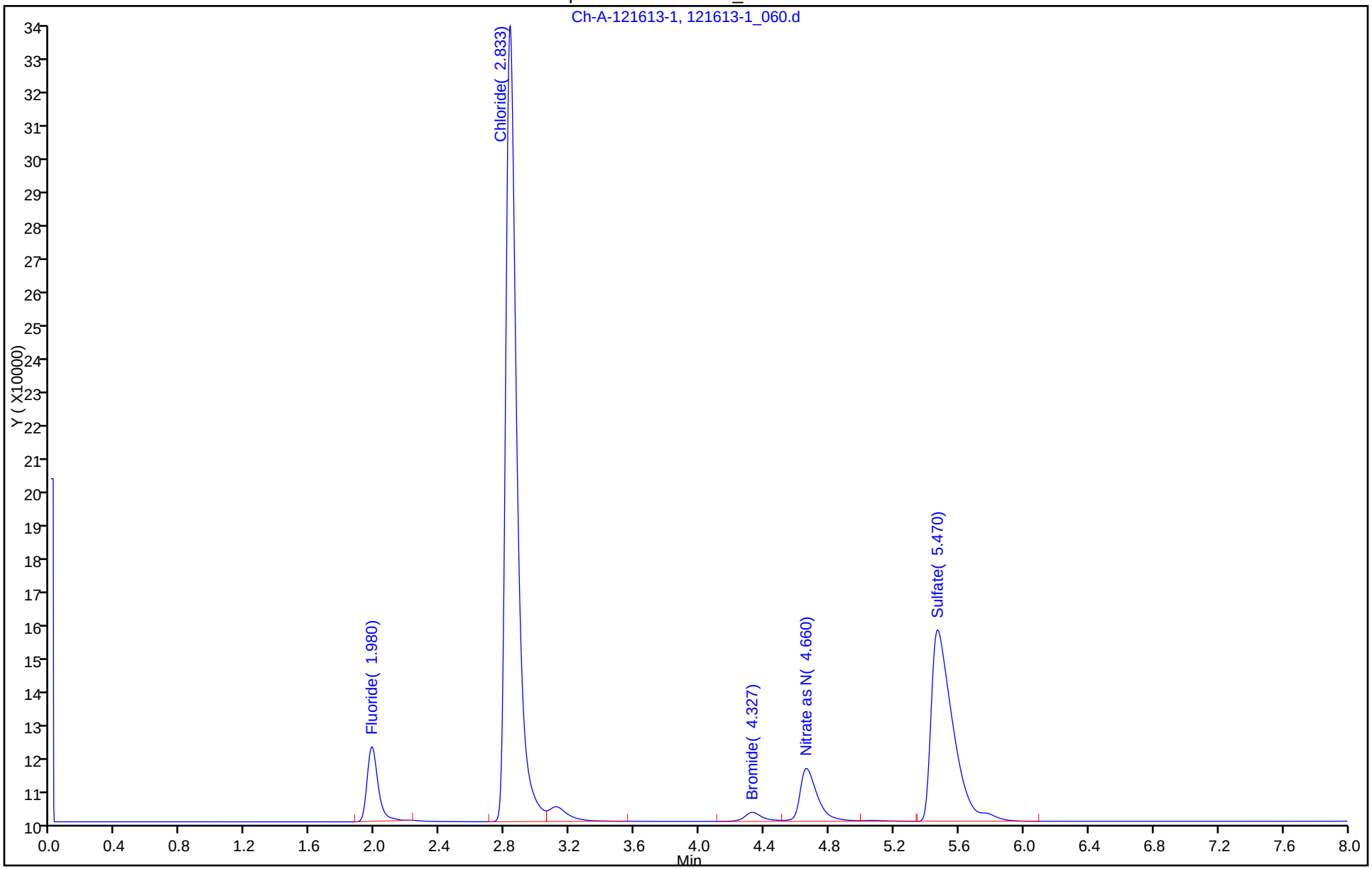
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_060.d				
Lims ID:	460-68263-A-5 MS	Lab Sample ID:	480-68263-5		
Client ID:					
Sample Type:	MS				
Inject. Date:	16-Dec-2013 22:42:47	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 060 Name: 480-0028167-060				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:10:36	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:11:25		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	101336	3.31	
2 Chloride					
2.833	2.840	-0.007	1104816	58.2	
3 Bromide					
4.327	4.393	-0.066	20279	2.57	
4 Nitrate as N					
4.660	4.673	-0.013	113958	0	
5 Sulfate					
5.470	5.597	-0.127	511994	37.6	

Report Date: 17-Dec-2013 08:11:25 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_060.d				
Injection Date:	16-Dec-2013 22:42:47	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-5 MS	Lab Sample ID:	480-68263-5	Worklist Smp#:	60
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_061.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 22:52:54 ALS Bottle#: 0 Worklist Smp#: 61
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 061 Name: 480-0028167-061
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:11:53 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:53

Detector: Ch-A-092410-2
Number of peaks found: 7

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.873	2.173	55296	7.33	4.39		1 Fluoride
2.213	2.173	2.443	1480	0.20	7.25		
2.843	2.713	3.293	347296	46.02	4.98	M	2 Chloride
4.413	4.267	4.573	13047	1.73	5.32		3 Bromide
4.693	4.573	5.007	82314	10.91	6.73		
5.083	5.007	5.363	1899	0.25	10.38		
5.503	5.370	6.047	253329	33.57	7.78		5 Sulfate
			754661			Totals	

Total Unknown Area% = 0.45

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_061.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 22:52:54 ALS Bottle#: 0 Worklist Smp#: 61
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 061 Name: 480-0028167-061
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:11:53 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:53

Start Cal Date: 13-Dec-2013 11:14:16
End Cal Date: 13-Dec-2013 12:15:03

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.003	1.80	27648	-9.8	10
2 Chloride	20.0	0.003	18.1	17365	-9.7	10
3 Bromide	2.00	0.020	1.65	6523.50	-17.4	10
5 Sulfate	20.0	-0.094	18.6	12666	-7.2	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_061.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2013 22:52:54 ALS Bottle#: 0 Worklist Smp#: 61
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 061 Name: 480-0028167-061
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:11:53 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:53

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	55296	1.80	
2 Chloride					M
2.843	2.840	0.003	347296	18.1	M
3 Bromide					
4.413	4.393	0.020	13047	1.65	
4 Nitrate as N					
4.693	4.673	0.020	82314	0	
5 Sulfate					
5.503	5.597	-0.094	253329	18.6	

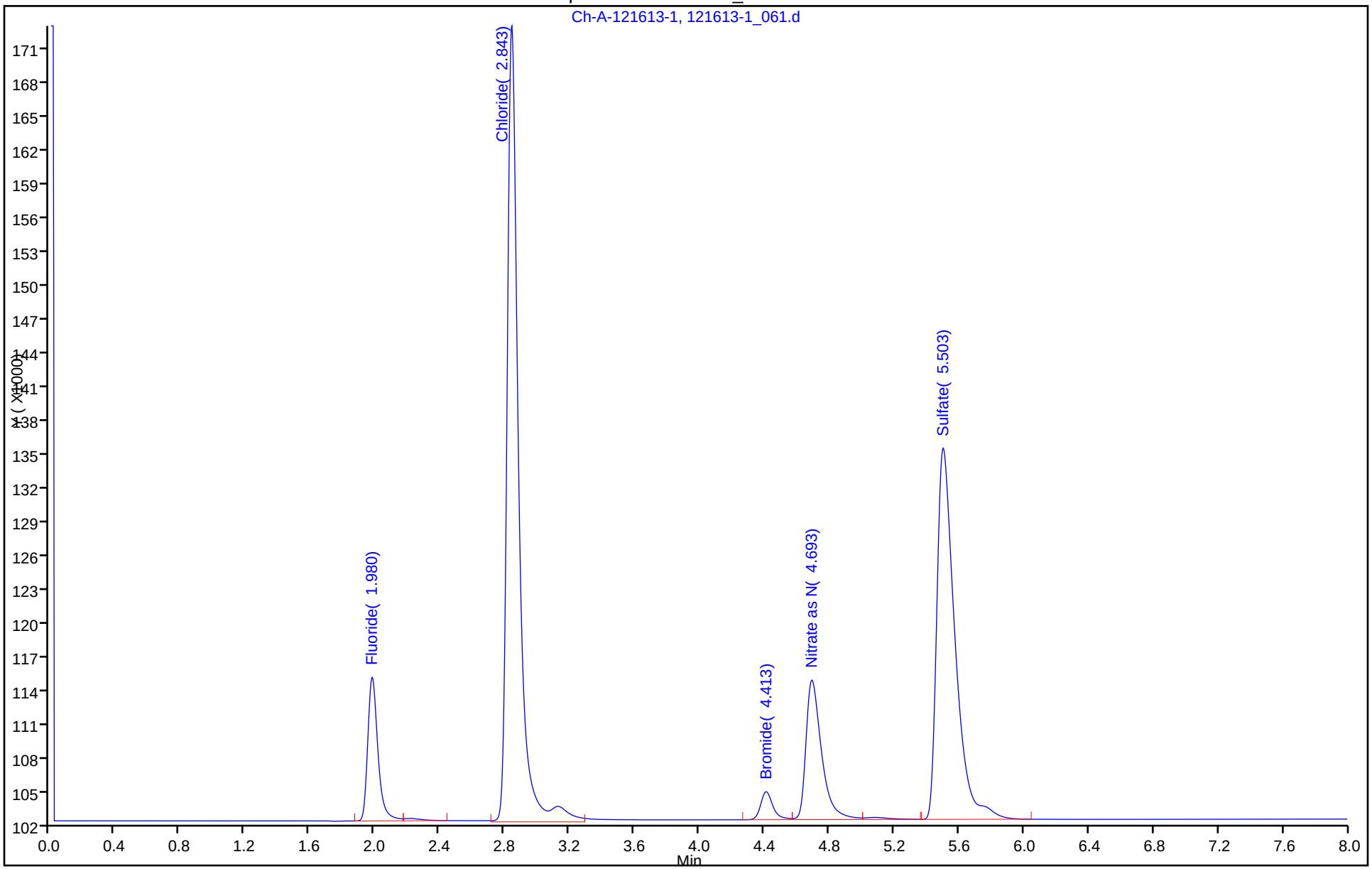
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:11:53 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_061.d				
Injection Date:	16-Dec-2013 22:52:54	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	61
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



Manual Integration/User Assign Peak Report

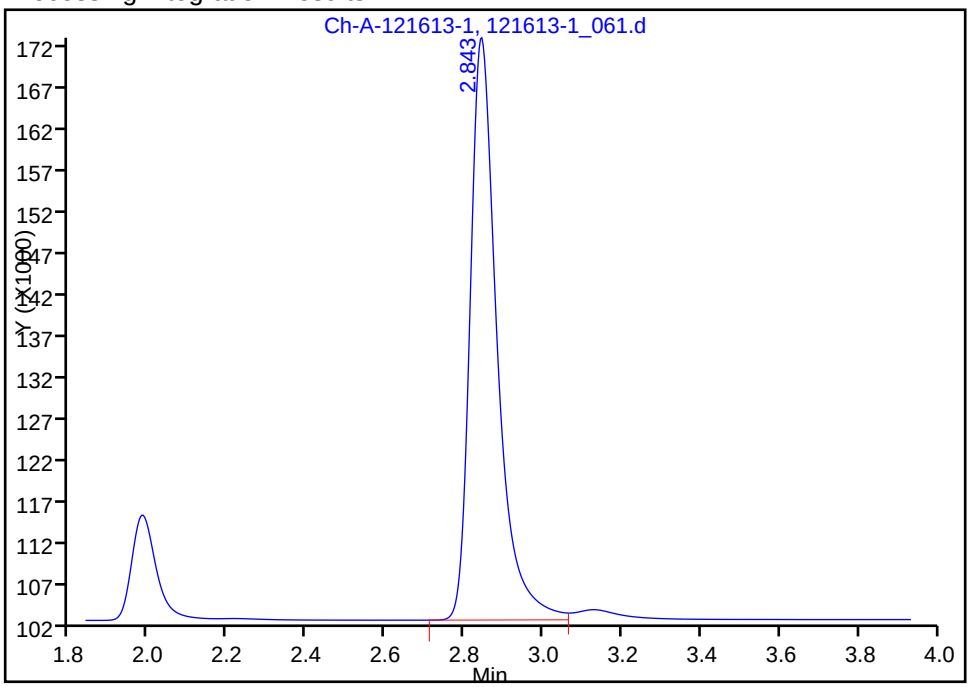
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_061.d				
Injection Date:	16-Dec-2013 22:52:54	Instrument ID:	IC-1		
Lims ID:	CCV	Lab Sample ID:			
Client ID:					
Operator ID:	TCHROM	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		
Column:		Detector	Ch-A-092410-2		

2 Chloride, CAS: 16887-00-6

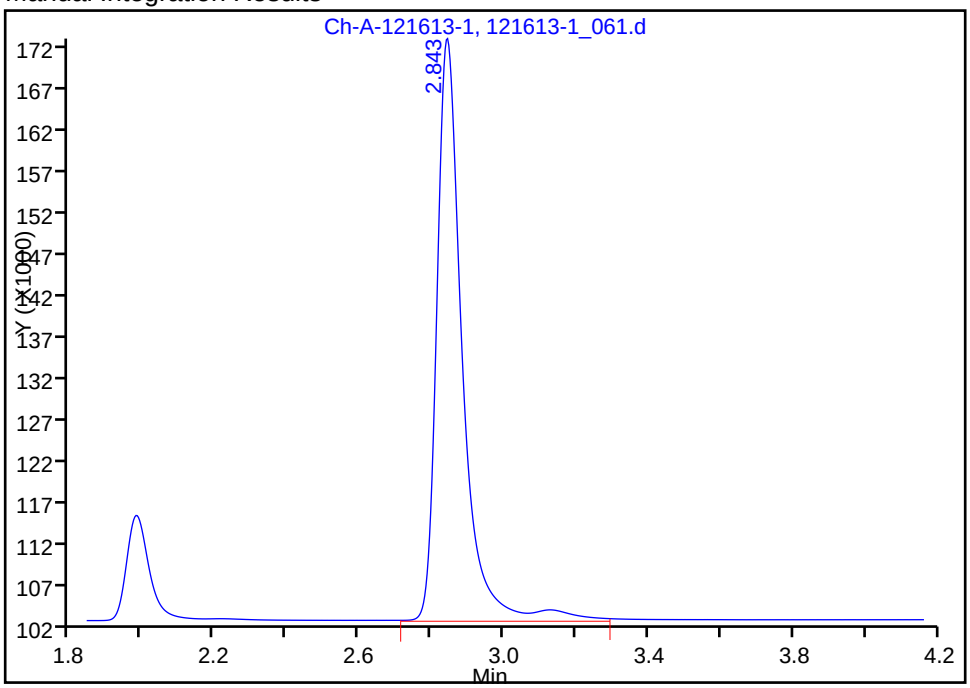
Processing Integration Results

RT: 2.84
Response: 332890
Amount: 17.302334



Manual Integration Results

RT: 2.84
Response: 347296
Amount: 18.065721



Reviewer: clarkk, 17-Dec-2013 08:11:53
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_062.d
Lims ID: CCB Lab Sample ID: CCB 480-157772/62-A
Client ID:
Sample Type: CCB
Inject. Date: 16-Dec-2013 23:03:02 ALS Bottle#: 0 Worklist Smp#: 62
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 062 Name: 480-0028167-062
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:11:53 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:11:56

Detector: Ch-A-092410-2
Number of peaks found: 2

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.840	2.760	2.930	237	47.59	4.16		2 Chloride
5.570	5.480	5.673	261	52.41	5.22		5 Sulfate
			498			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

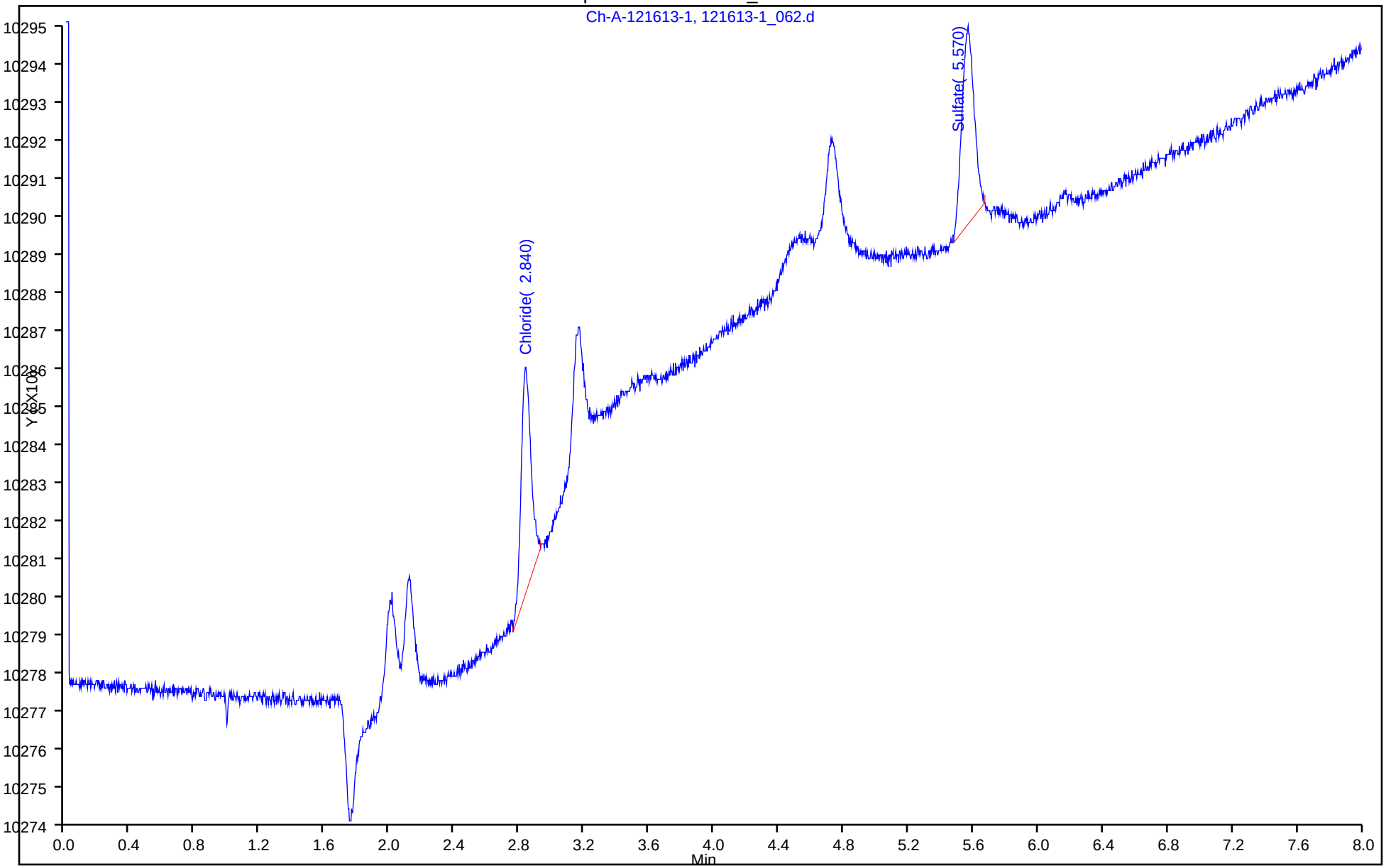
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_062.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/62-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	16-Dec-2013 23:03:02	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 062 Name: 480-0028167-062				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:11:53	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:11:56		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.840	2.840	0.0	237	-0.3253	
5 Sulfate					
5.570	5.597	-0.027	261	-0.0786	

Report Date: 17-Dec-2013 08:11:56 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_062.d				
Injection Date:	16-Dec-2013 23:03:02	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/62-A	Worklist Smp#:	62
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_063.d
Lims ID: 460-68263-A-6 Lab Sample ID: 480-68263-6
Client ID: GW0021
Sample Type: Client
Inject. Date: 16-Dec-2013 23:13:10 ALS Bottle#: 0 Worklist Smp#: 63
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 063 Name: 480-0028167-063
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:12:13 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:12:13

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.877	2.170	33501	3.32	4.25		1 Fluoride
2.837	2.687	3.260	839817	83.32	5.04	M	2 Chloride
4.363	4.067	4.547	3925	0.39	16.49		3 Bromide
4.710	4.547	5.017	17678	1.75	6.52		
5.523	5.370	5.997	112969	11.21	6.61		5 Sulfate
			1007890			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_063.d				
Lims ID:	460-68263-A-6	Lab Sample ID:	480-68263-6		
Client ID:	GW0021				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 23:13:10	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 063 Name: 480-0028167-063				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:12:13	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:12:13		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	33501	1.09	
2 Chloride					M
2.837	2.840	-0.003	839817	44.2	M
3 Bromide					
4.363	4.393	-0.030	3925	0.4972	
5 Sulfate					
5.523	5.597	-0.074	112969	8.23	

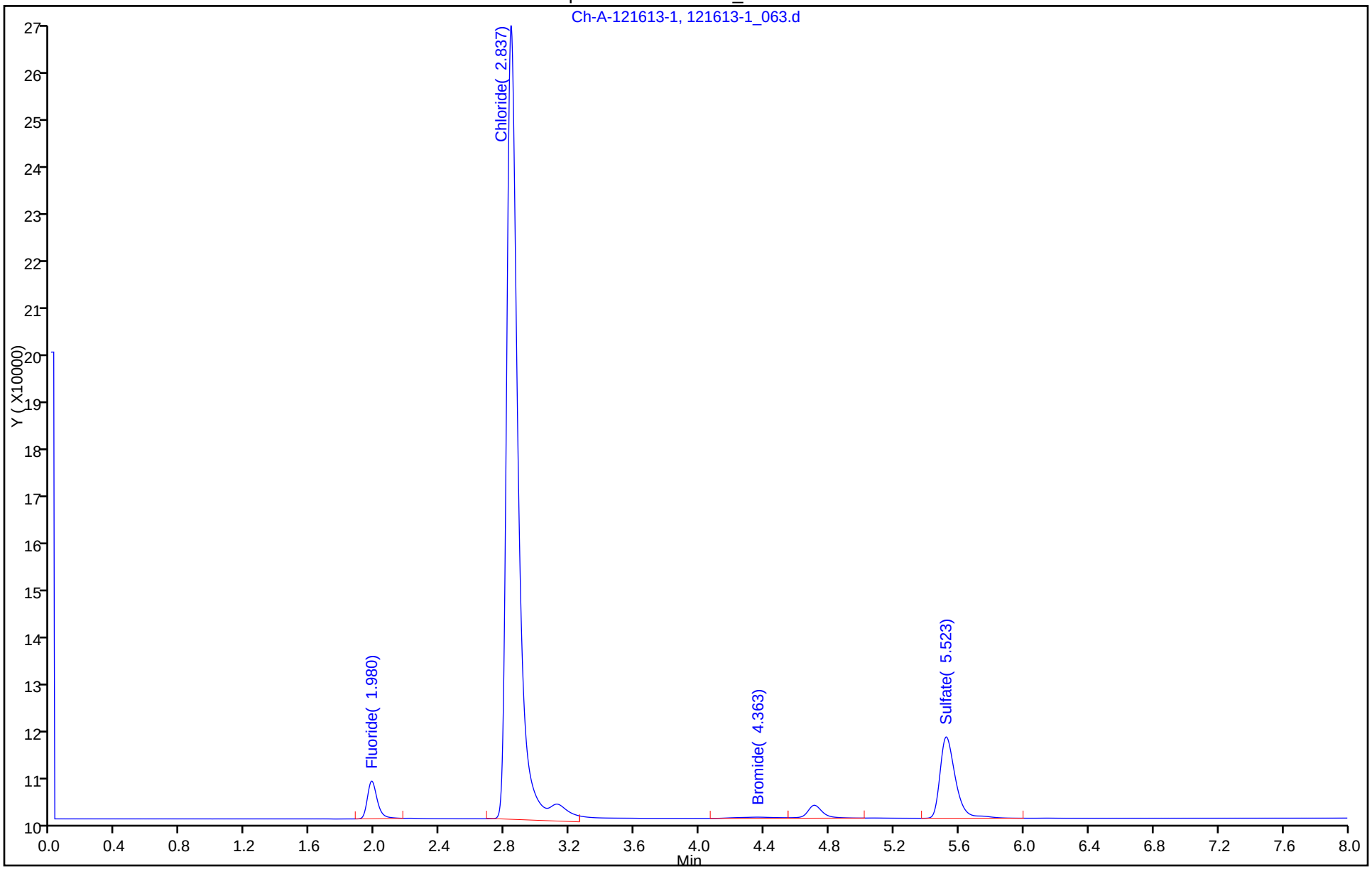
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:12:13 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_063.d				
Injection Date:	16-Dec-2013 23:13:10	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-6	Lab Sample ID:	480-68263-6	Worklist Smp#:	63
Client ID:	GW0021				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_064.d
Lims ID: 460-68263-A-7 Lab Sample ID: 480-68263-7
Client ID: GW0022
Sample Type: Client
Inject. Date: 16-Dec-2013 23:23:18 ALS Bottle#: 0 Worklist Smp#: 64
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 064 Name: 480-0028167-064
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:12:37 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:12:37

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.873	2.187	33525	3.37	4.25		1 Fluoride
2.840	2.710	3.293	825472	83.07	4.96	M	2 Chloride
4.360	4.067	4.550	3951	0.40	16.53		3 Bromide
4.713	4.550	5.010	17793	1.79	6.52		
5.530	5.377	5.983	112930	11.36	6.62		5 Sulfate
			993671			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_064.d				
Lims ID:	460-68263-A-7	Lab Sample ID:	480-68263-7		
Client ID:	GW0022				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 23:23:18	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 064 Name: 480-0028167-064				
Operator ID:	TCHROM	Instrument ID:	IC-1		

Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m		
Limit Group:	MB 300.0_28D ICAL		
Last Update:	17-Dec-2013 08:12:37	Calib Date:	13-Dec-2013 12:15:03
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d		

Column 1 :		Detector	Ch-A-092410-2
Process Host:	XAWRK012		

First Level Reviewer: clarkk Date: 17-Dec-2013 08:12:37

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	33525	1.09	
2 Chloride					M
2.840	2.840	0.0	825472	43.4	M
3 Bromide					
4.360	4.393	-0.033	3951	0.5005	
5 Sulfate					
5.530	5.597	-0.067	112930	8.22	

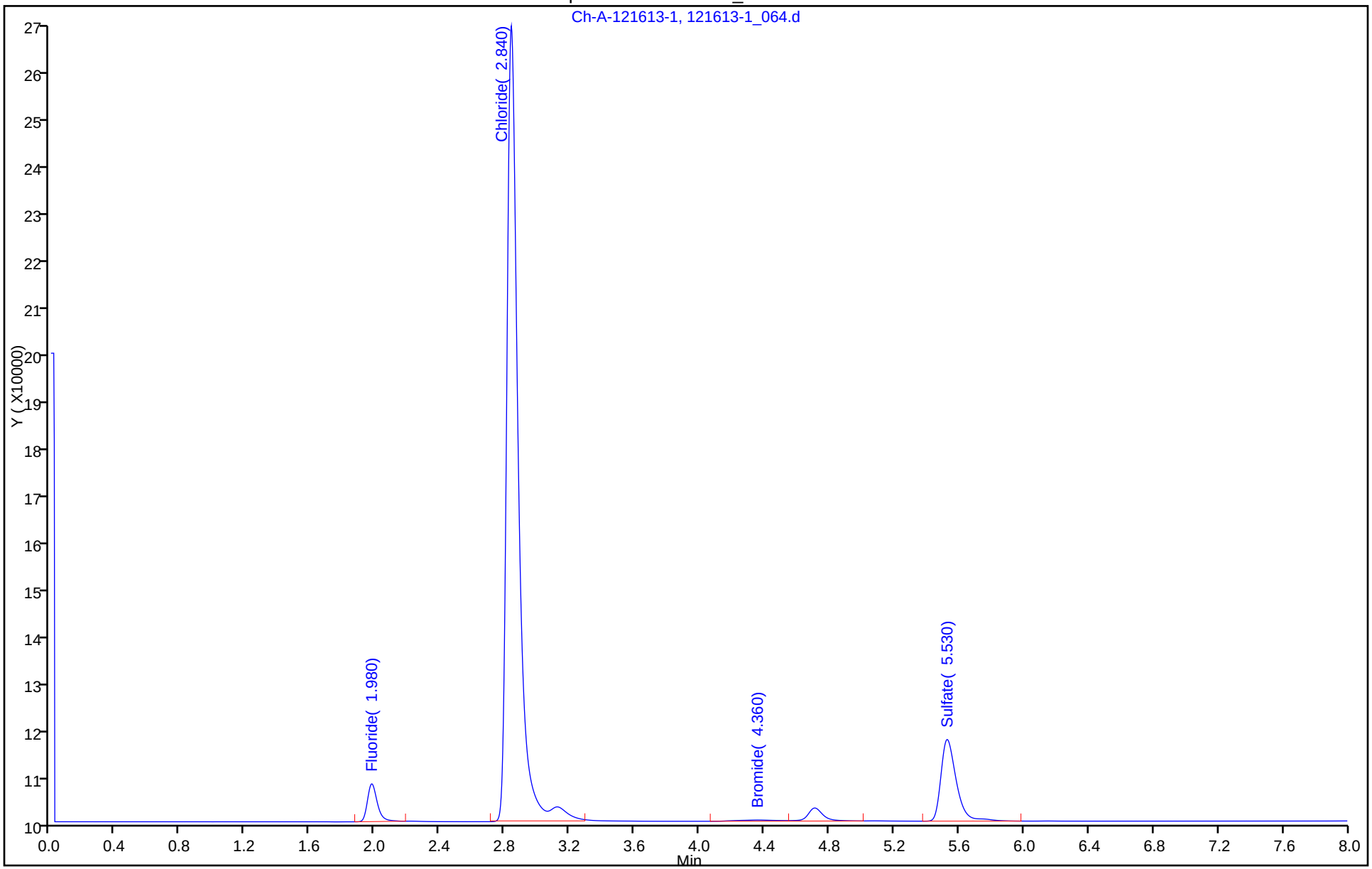
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:12:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_064.d				
Injection Date:	16-Dec-2013 23:23:18	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-7	Lab Sample ID:	480-68263-7	Worklist Smp#:	64
Client ID:	GW0022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_065.d
Lims ID: 460-68263-A-8 Lab Sample ID: 480-68263-8
Client ID: GW0023
Sample Type: Client
Inject. Date: 16-Dec-2013 23:33:26 ALS Bottle#: 0 Worklist Smp#: 65
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 065 Name: 480-0028167-065
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:12:50 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:12:50

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.873	2.170	43365	2.35	4.48		1 Fluoride
2.213	2.170	2.450	1160	0.06	7.53		
2.833	2.687	3.240	1667295	90.32	5.16	M	2 Chloride
4.367	4.067	4.643	4395	0.24	12.81		3 Bromide
5.517	5.360	6.010	129724	7.03	6.76		5 Sulfate
			1845939			Totals	

Total Unknown Area% = 0.06

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_065.d
Lims ID: 460-68263-A-8 Lab Sample ID: 480-68263-8
Client ID: GW0023
Sample Type: Client
Inject. Date: 16-Dec-2013 23:33:26 ALS Bottle#: 0 Worklist Smp#: 65
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 065 Name: 480-0028167-065
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:12:50 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:12:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	43365	1.42	
2 Chloride					M
2.833	2.840	-0.007	1667295	88.0	M
3 Bromide					
4.367	4.393	-0.026	4395	0.5567	
5 Sulfate					
5.517	5.597	-0.080	129724	9.46	

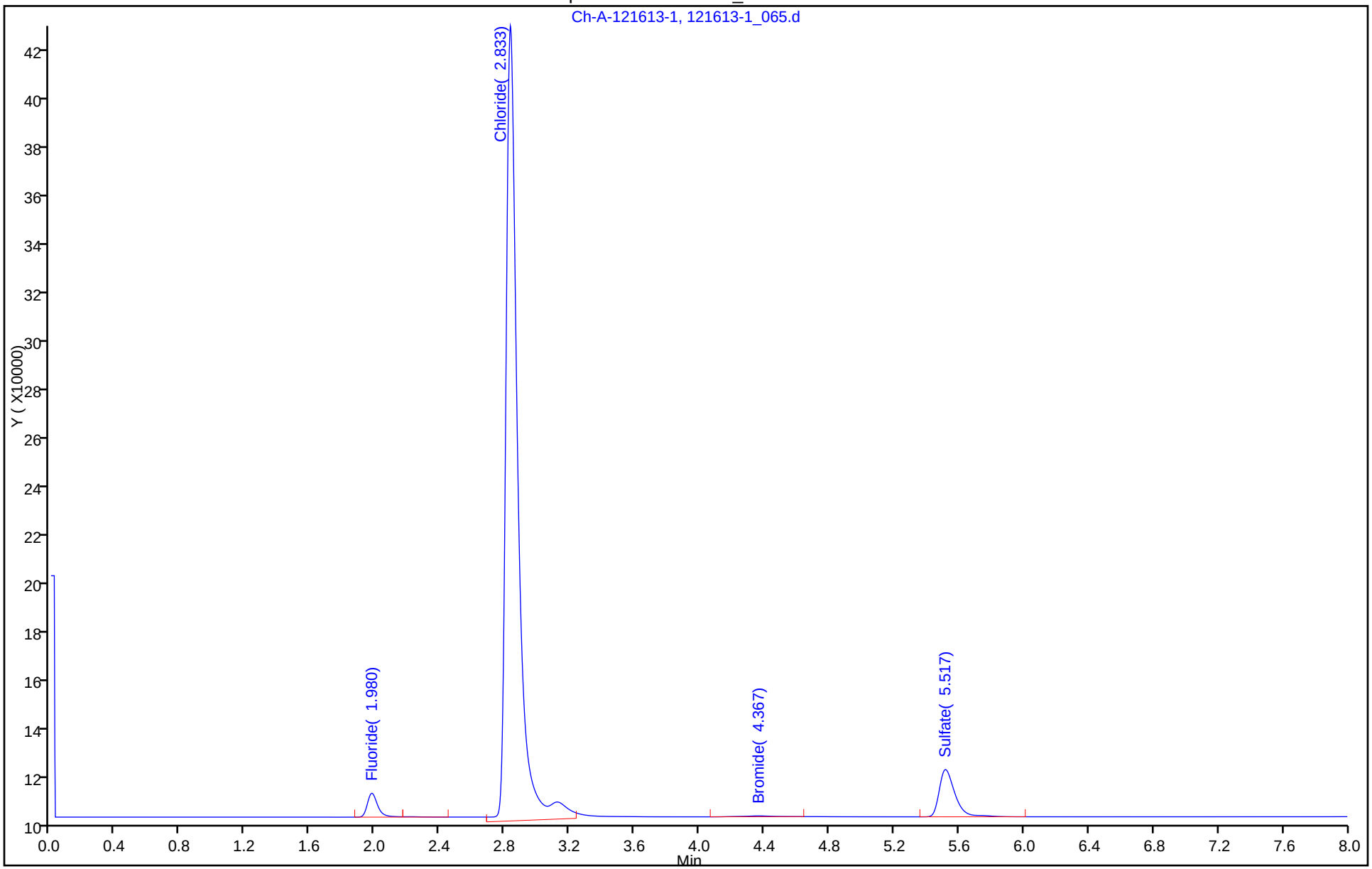
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:12:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_065.d				
Injection Date:	16-Dec-2013 23:33:26	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-8	Lab Sample ID:	480-68263-8	Worklist Smp#:	65
Client ID:	GW0023				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_066.d
Lims ID: 460-68263-A-9 Lab Sample ID: 480-68263-9
Client ID: GW0024
Sample Type: Client
Inject. Date: 16-Dec-2013 23:43:34 ALS Bottle#: 0 Worklist Smp#: 66
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 066 Name: 480-0028167-066
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:13:04 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:04

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.973	1.877	2.130	2010	0.17	3.88		1 Fluoride
2.840	2.690	3.263	955232	79.05	5.18	M	2 Chloride
4.707	4.537	5.010	46464	3.85	6.39		
5.087	5.010	5.250	396	0.03	6.60		
5.497	5.367	6.043	204282	16.91	7.35		5 Sulfate
			1208384			Totals	

Total Unknown Area% = 0.03

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_066.d				
Lims ID:	460-68263-A-9	Lab Sample ID:	480-68263-9		
Client ID:	GW0024				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 23:43:34	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 066 Name: 480-0028167-066				
Operator ID:	TCHROM	Instrument ID:	IC-1		

Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m		
Limit Group:	MB 300.0_28D ICAL		
Last Update:	17-Dec-2013 08:13:04	Calib Date:	13-Dec-2013 12:15:03
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d		

Column 1 :		Detector	Ch-A-092410-2
Process Host:	XAWRK012		

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.973	1.977	-0.004	2010	0.0656	
2 Chloride					M
2.840	2.840	0.0	955232	50.3	M
5 Sulfate					
5.497	5.597	-0.100	204282	15.0	

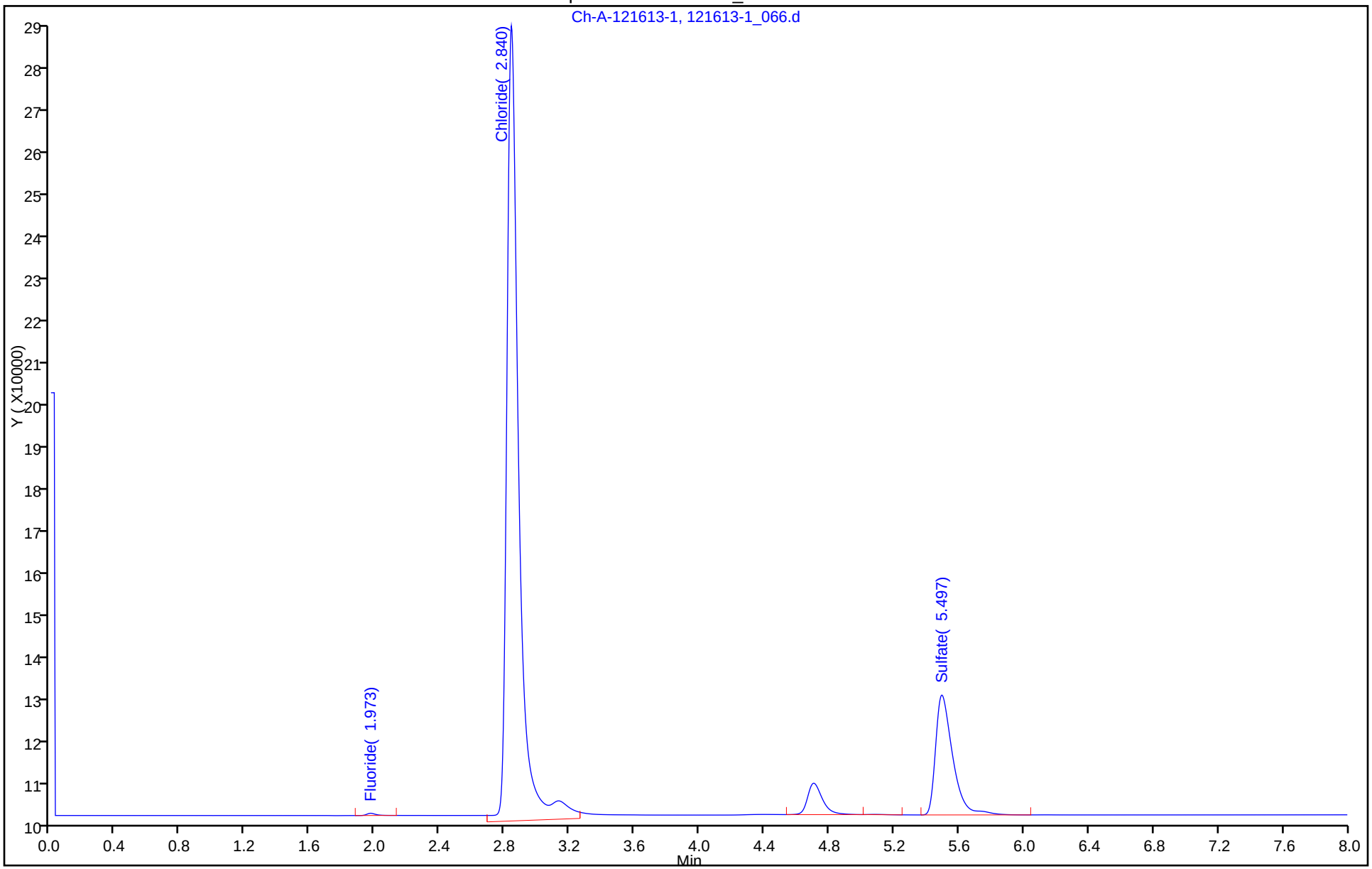
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:13:04 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_066.d				
Injection Date:	16-Dec-2013 23:43:34	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-9	Lab Sample ID:	480-68263-9	Worklist Smp#:	66
Client ID:	GW0024				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_067.d
Lims ID: 460-68263-A-10 Lab Sample ID: 480-68263-10
Client ID: GW0025
Sample Type: Client
Inject. Date: 16-Dec-2013 23:53:42 ALS Bottle#: 0 Worklist Smp#: 67
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 067 Name: 480-0028167-067
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:13:47 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:17

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.977	1.867	2.243	15212	1.25	4.10		1 Fluoride
2.840	2.687	3.210	882278	72.43	4.95	M	2 Chloride
4.370	4.153	4.387	277	0.02	14.58		
4.710	4.547	5.010	24785	2.03	6.15		
5.480	5.343	6.033	295639	24.27	7.98		5 Sulfate
			1218191			Totals	

Total Unknown Area% = 0.02

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_067.d				
Lims ID:	460-68263-A-10	Lab Sample ID:	480-68263-10		
Client ID:	GW0025				
Sample Type:	Client				
Inject. Date:	16-Dec-2013 23:53:42	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 067 Name: 480-0028167-067				
Operator ID:	TCHROM	Instrument ID:	IC-1		

Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m		
Limit Group:	MB 300.0_28D ICAL		
Last Update:	17-Dec-2013 08:13:47	Calib Date:	13-Dec-2013 12:15:03
Integrator:	Falcon		
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d		

Column 1 :		Detector	Ch-A-092410-2
Process Host:	XAWRK012		

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.977	1.977	0.0	15212	0.4965	
2 Chloride					M
2.840	2.840	0.0	882278	46.4	M
5 Sulfate					
5.480	5.597	-0.117	295639	21.7	

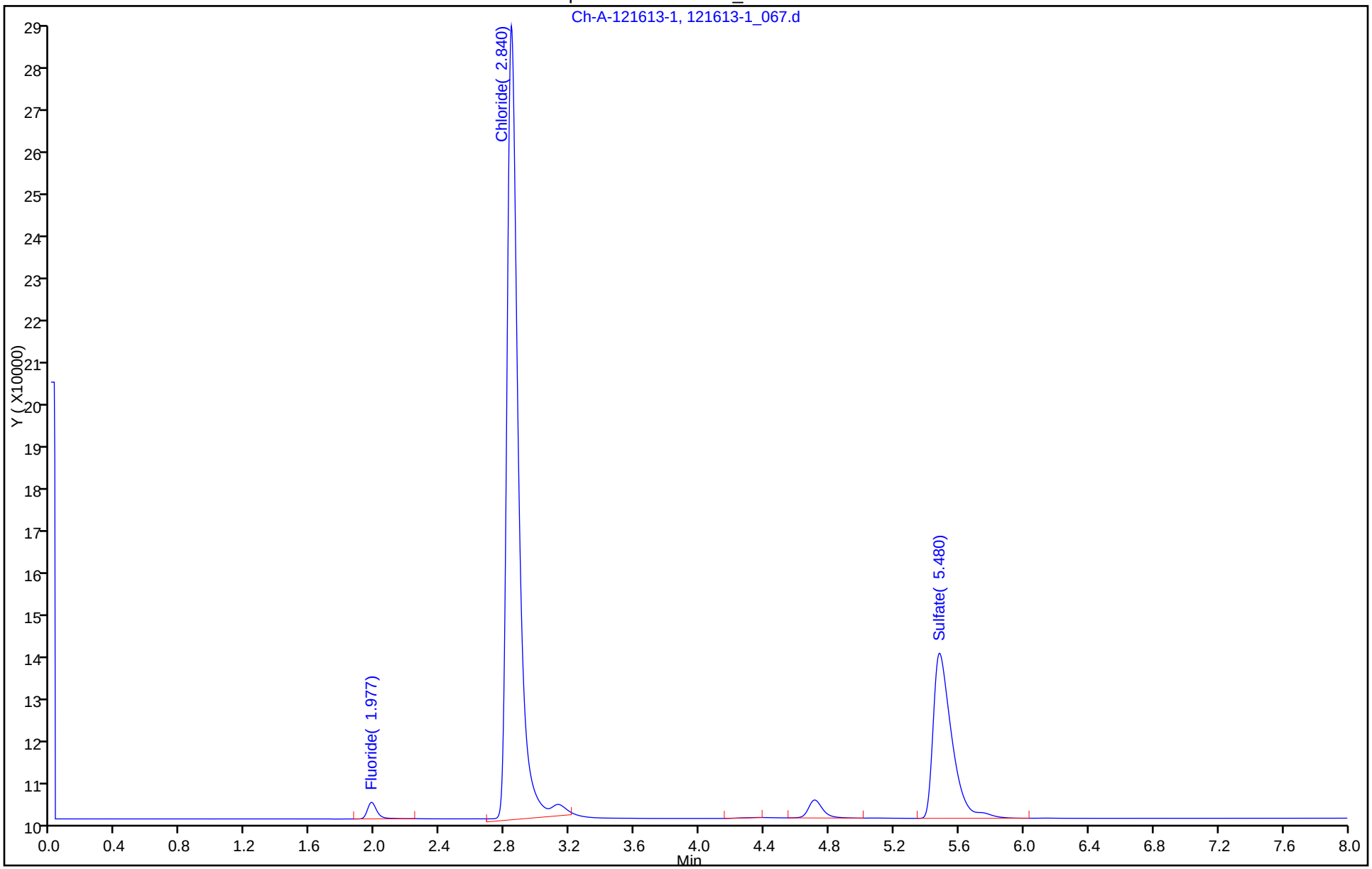
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:13:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_067.d				
Injection Date:	16-Dec-2013 23:53:42	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-10	Lab Sample ID:	480-68263-10	Worklist Smp#:	67
Client ID:	GW0025				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_068.d
Lims ID: 460-68263-A-11 Lab Sample ID: 480-68263-11
Client ID: GW0026
Sample Type: Client
Inject. Date: 17-Dec-2013 00:03:50 ALS Bottle#: 0 Worklist Smp#: 68
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 068 Name: 480-0028167-068
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:13:37 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:37

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.980	1.873	2.177	18379	1.47	4.08		1 Fluoride
2.840	2.710	3.267	948230	75.67	5.02	M	2 Chloride
4.370	4.080	4.560	3629	0.29	15.18		3 Bromide
4.713	4.560	5.007	14989	1.20	6.37		
5.480	5.323	6.017	267848	21.38	7.79		5 Sulfate
			1253075			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_068.d
Lims ID: 460-68263-A-11 Lab Sample ID: 480-68263-11
Client ID: GW0026
Sample Type: Client
Inject. Date: 17-Dec-2013 00:03:50 ALS Bottle#: 0 Worklist Smp#: 68
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 068 Name: 480-0028167-068
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:13:37 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:13:37

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.980	1.977	0.003	18379	0.5999	
2 Chloride					M
2.840	2.840	0.0	948230	49.9	M
3 Bromide					
4.370	4.393	-0.023	3629	0.4597	
5 Sulfate					
5.480	5.597	-0.117	267848	19.6	

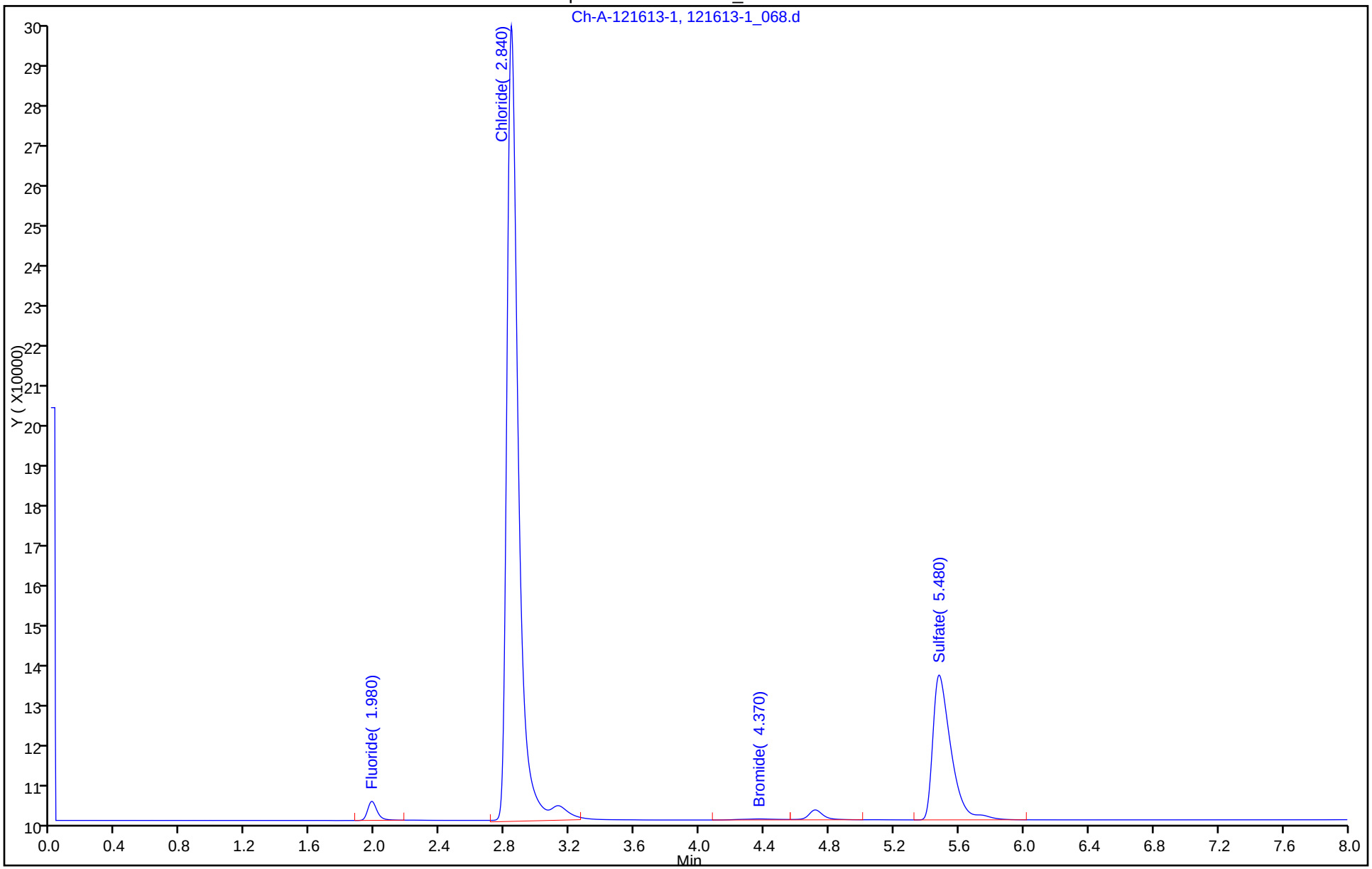
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:13:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_068.d				
Injection Date:	17-Dec-2013 00:03:50	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-11	Lab Sample ID:	480-68263-11	Worklist Smp#:	68
Client ID:	GW0026				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_073.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 00:54:29 ALS Bottle#: 0 Worklist Smp#: 73
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 073 Name: 480-0028167-073
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:14:51 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:14:51

Detector: Ch-A-092410-2
Number of peaks found: 7

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.993	1.870	2.183	55847	7.35	4.42		1 Fluoride
2.227	2.183	2.480	1572	0.21	7.74		
2.857	2.687	3.223	353450	46.49	5.03	M	2 Chloride
4.430	4.290	4.593	12648	1.66	5.21		3 Bromide
4.713	4.593	5.023	80517	10.59	6.56		
5.103	5.023	5.330	508	0.07	6.77		
5.473	5.340	6.023	255667	33.63	7.76		5 Sulfate
			760209			Totals	

Total Unknown Area% = 0.27

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_073.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 00:54:29 ALS Bottle#: 0 Worklist Smp#: 73
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 073 Name: 480-0028167-073
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:14:51 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:14:51

Start Cal Date: 13-Dec-2013 11:14:16
End Cal Date: 13-Dec-2013 12:15:03

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.016	1.82	27924	-8.9	10
2 Chloride	20.0	0.017	18.4	17673	-8.0	10
3 Bromide	2.00	0.037	1.60	6324.00	-19.9	10
5 Sulfate	20.0	-0.124	18.7	12783	-6.3	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_073.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 00:54:29 ALS Bottle#: 0 Worklist Smp#: 73
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 073 Name: 480-0028167-073
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:14:51 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:14:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.993	1.977	0.016	55847	1.82	
2 Chloride					M
2.857	2.840	0.017	353450	18.4	M
3 Bromide					
4.430	4.393	0.037	12648	1.60	
4 Nitrate as N					
4.713	4.673	0.040	80517	0	
5 Sulfate					
5.473	5.597	-0.124	255667	18.7	

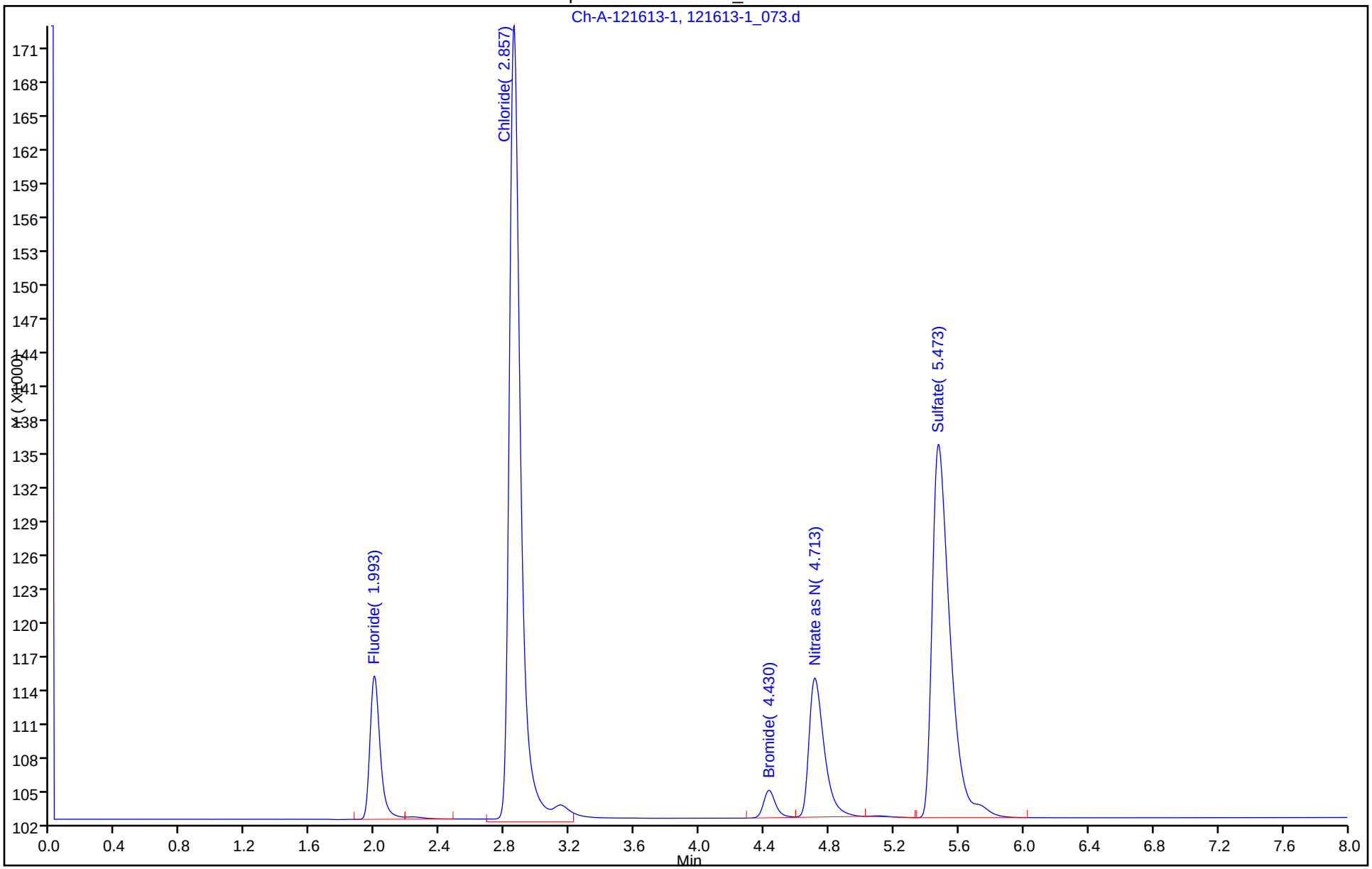
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 17-Dec-2013 08:14:51 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_073.d				
Injection Date:	17-Dec-2013 00:54:29	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	73
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



Manual Integration/User Assign Peak Report

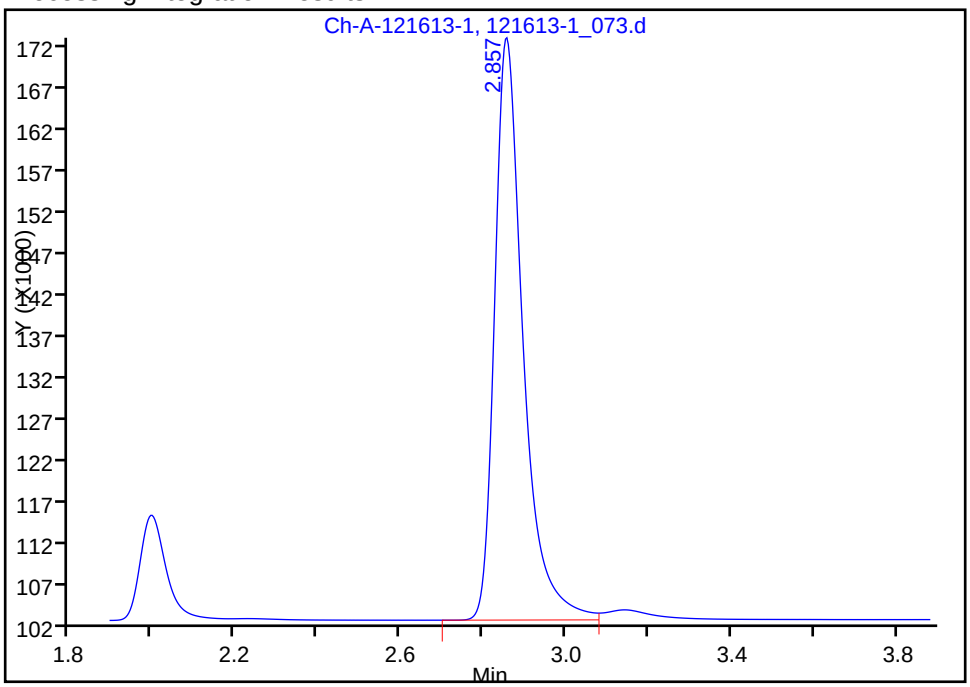
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_073.d				
Injection Date:	17-Dec-2013 00:54:29	Instrument ID:	IC-1		
Lims ID:	CCV	Lab Sample ID:			
Client ID:					
Operator ID:	TCHROM	ALS Bottle#:	0	Worklist Smp#:	73
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		
Column:		Detector	Ch-A-092410-2		

2 Chloride, CAS: 16887-00-6

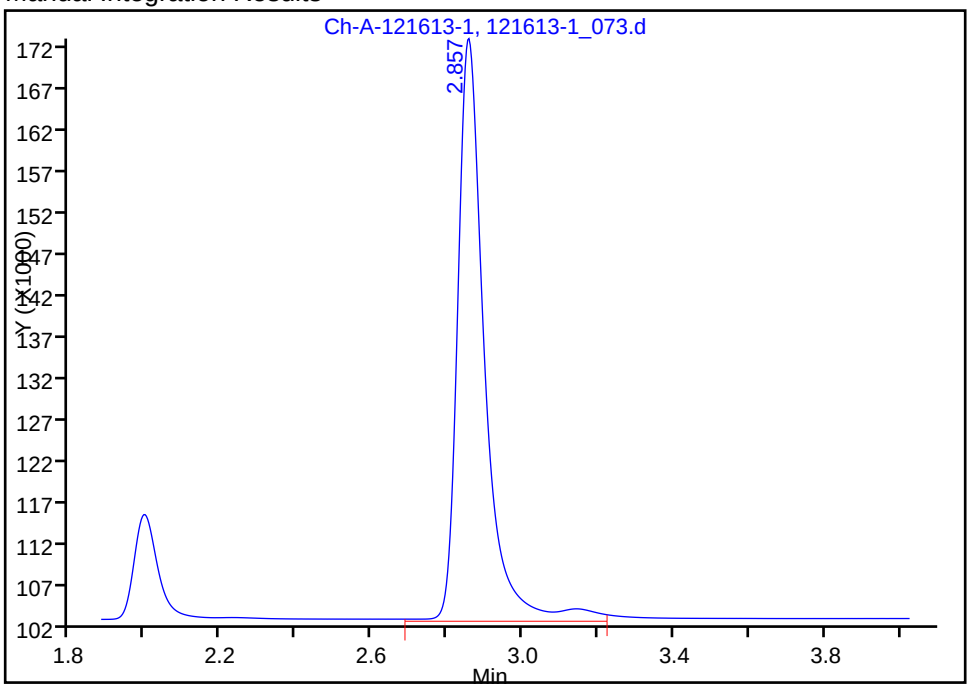
Processing Integration Results

RT: 2.86
Response: 336468
Amount: 17.491936



Manual Integration Results

RT: 2.86
Response: 353450
Amount: 18.391828



Reviewer: clarkk, 17-Dec-2013 08:14:51
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_074.d
Lims ID: CCB Lab Sample ID: CCB 480-157772/74-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 01:04:37 ALS Bottle#: 0 Worklist Smp#: 74
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 074 Name: 480-0028167-074
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 08:14:51 Calib Date: 13-Dec-2013 12:15:03
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d
Process Host: XAWRK012

First Level Reviewer: clarkk Date: 17-Dec-2013 08:14:56

Detector: Ch-A-092410-2
Number of peaks found: 3

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.853	2.763	2.953	318	36.51	4.30		2 Chloride
4.743	4.653	4.847	210	24.11	5.12		
5.547	5.437	5.667	343	39.38	5.53		5 Sulfate
			871			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

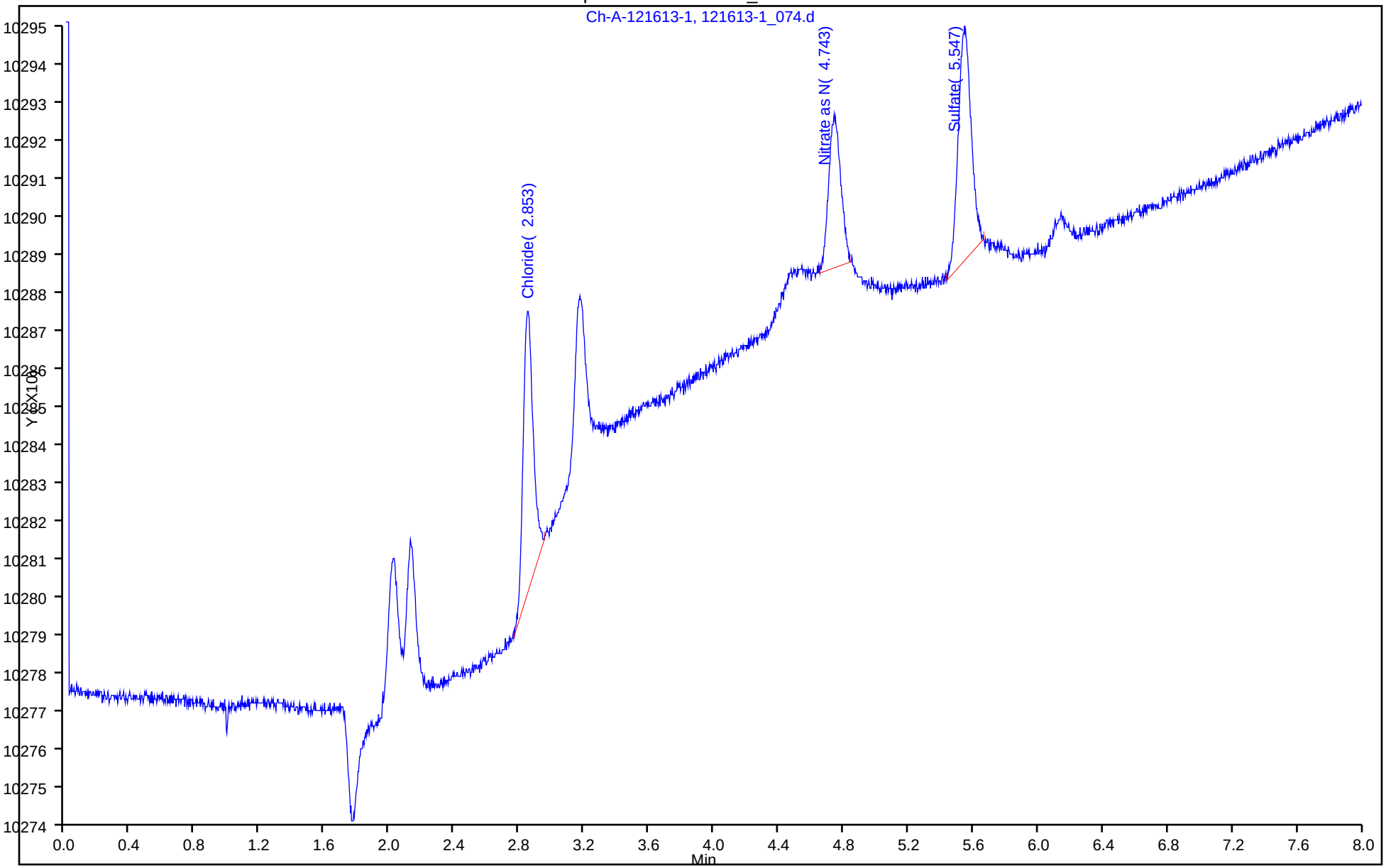
Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_074.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/74-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 01:04:37	ALS Bottle#:	0	Worklist Smp#:	74
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 074 Name: 480-0028167-074				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 08:14:51	Calib Date:	13-Dec-2013 12:15:03		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131213-28121.b\121313-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK012				
First Level Reviewer: clarkk		Date:	17-Dec-2013 08:14:56		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.853	2.840	0.013	318	-0.3210	
4 Nitrate as N					
4.743	4.673	0.070	210	0	
5 Sulfate					
5.547	5.597	-0.050	343	-0.0725	

Report Date: 17-Dec-2013 08:14:56 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131216-28167.b\121613-1_074.d				
Injection Date:	17-Dec-2013 01:04:37	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-157772/74-A	Worklist Smp#:	74
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_001.d
Lims ID: STD0 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 0
Inject. Date: 17-Dec-2013 15:19:57 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 001 Name: 480-0028206-001
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:14 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

Detector: Ch-A-092410-2
Number of peaks found: 2

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.447	2.360	2.600	598	57.78	3.78		2 Chloride
4.940	4.843	5.093	437	42.22	4.91		5 Sulfate
			1035			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

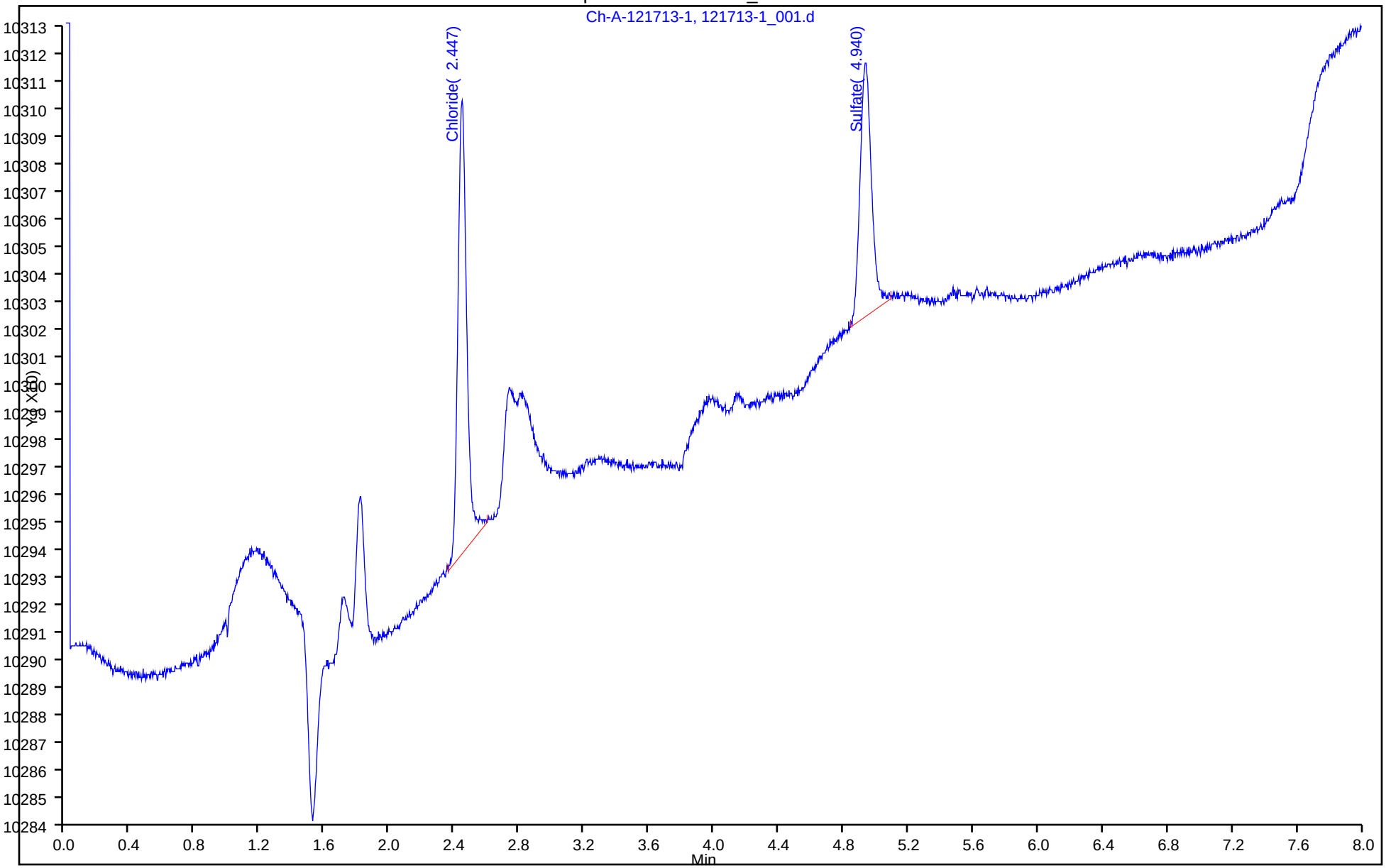
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_001.d				
Lims ID:	STD0	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	0		
Inject. Date:	17-Dec-2013 15:19:57	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 001 Name: 480-0028206-001				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 17:07:14	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.447	2.467	-0.020	598	0.000010	
5 Sulfate					
4.940	4.897	0.043	437	0.000009	

Report Date: 17-Dec-2013 17:07:15 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_001.d				
Injection Date:	17-Dec-2013 15:19:57	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD0	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_002.d
Lims ID: STD1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Dec-2013 15:30:05 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 002 Name: 480-0028206-002
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:14 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 15:54:31

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.697	1.617	1.867	1492	6.93	3.64		1 Fluoride
2.457	2.353	2.693	9488	44.05	3.59		2 Chloride
3.887	3.803	4.047	468	2.17	6.41		3 Bromide
4.157	4.047	4.447	2805	13.02	4.94		
4.930	4.810	5.307	7288	33.83	4.73		5 Sulfate
			21541			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

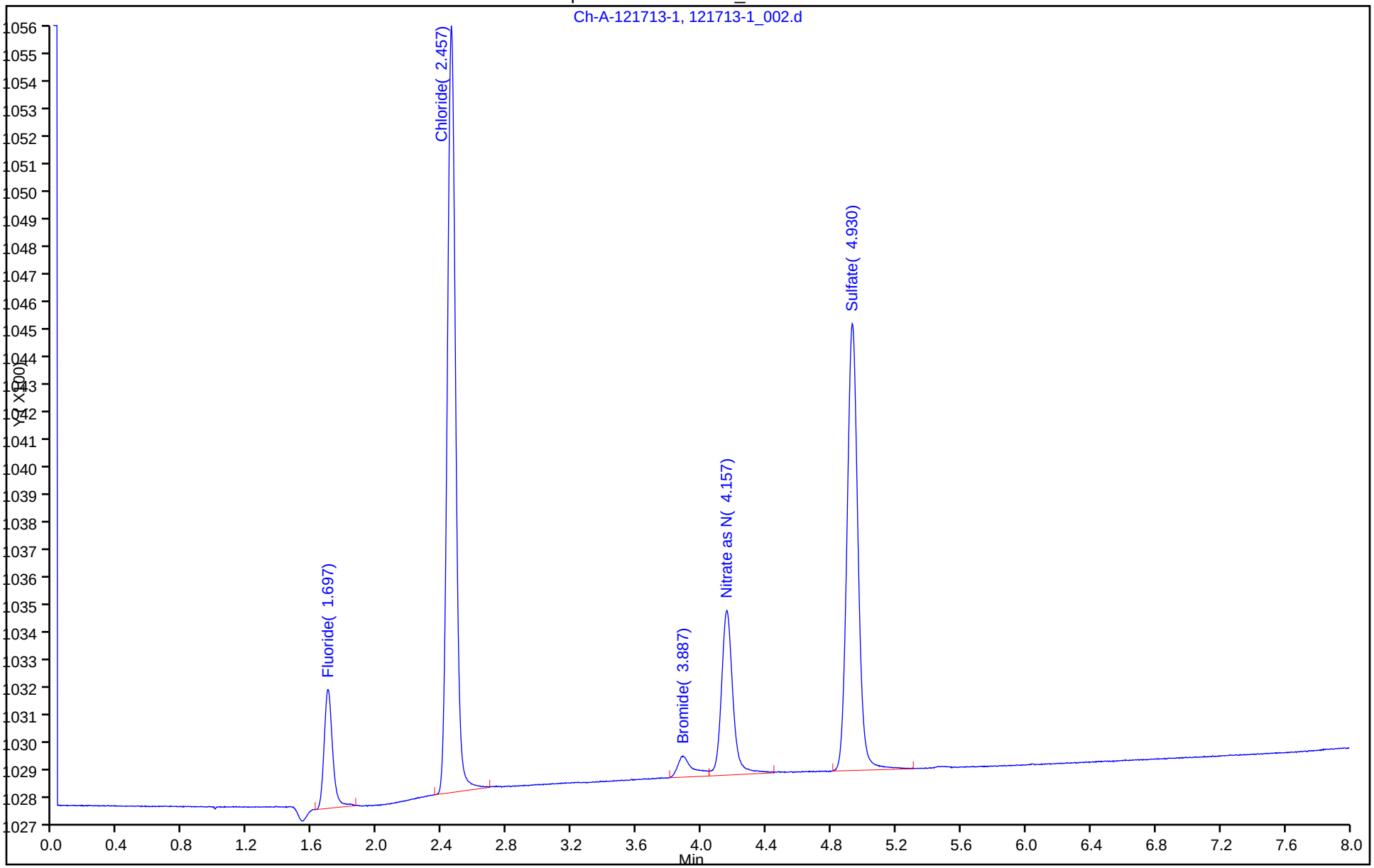
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_002.d				
Lims ID:	STD1	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	17-Dec-2013 15:30:05	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 002 Name: 480-0028206-002				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 17:07:14	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				
First Level Reviewer: cudneyk		Date:	17-Dec-2013 15:54:31		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.697	1.717	-0.020	1492	0.0496	
2 Chloride					
2.457	2.467	-0.010	9488	0.4771	
3 Bromide					
3.887	3.887	0.0	468	0.0589	
4 Nitrate as N					
4.157	4.127	0.030	2805	0	
5 Sulfate					
4.930	4.897	0.033	7288	0.4973	

Report Date: 17-Dec-2013 17:07:14 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_002.d				
Injection Date:	17-Dec-2013 15:30:05	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD1	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_003.d
Lims ID: STD2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Dec-2013 15:40:13 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 003 Name: 480-0028206-003
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 15:55:08

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.700	1.613	1.923	3154	7.37	3.63		1 Fluoride
2.463	2.357	2.803	19509	45.57	3.70		2 Chloride
3.890	3.800	4.053	766	1.79	5.63		3 Bromide
4.160	4.053	4.510	4521	10.56	4.87		
4.950	4.813	5.347	14858	34.71	4.78		5 Sulfate
			42808			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

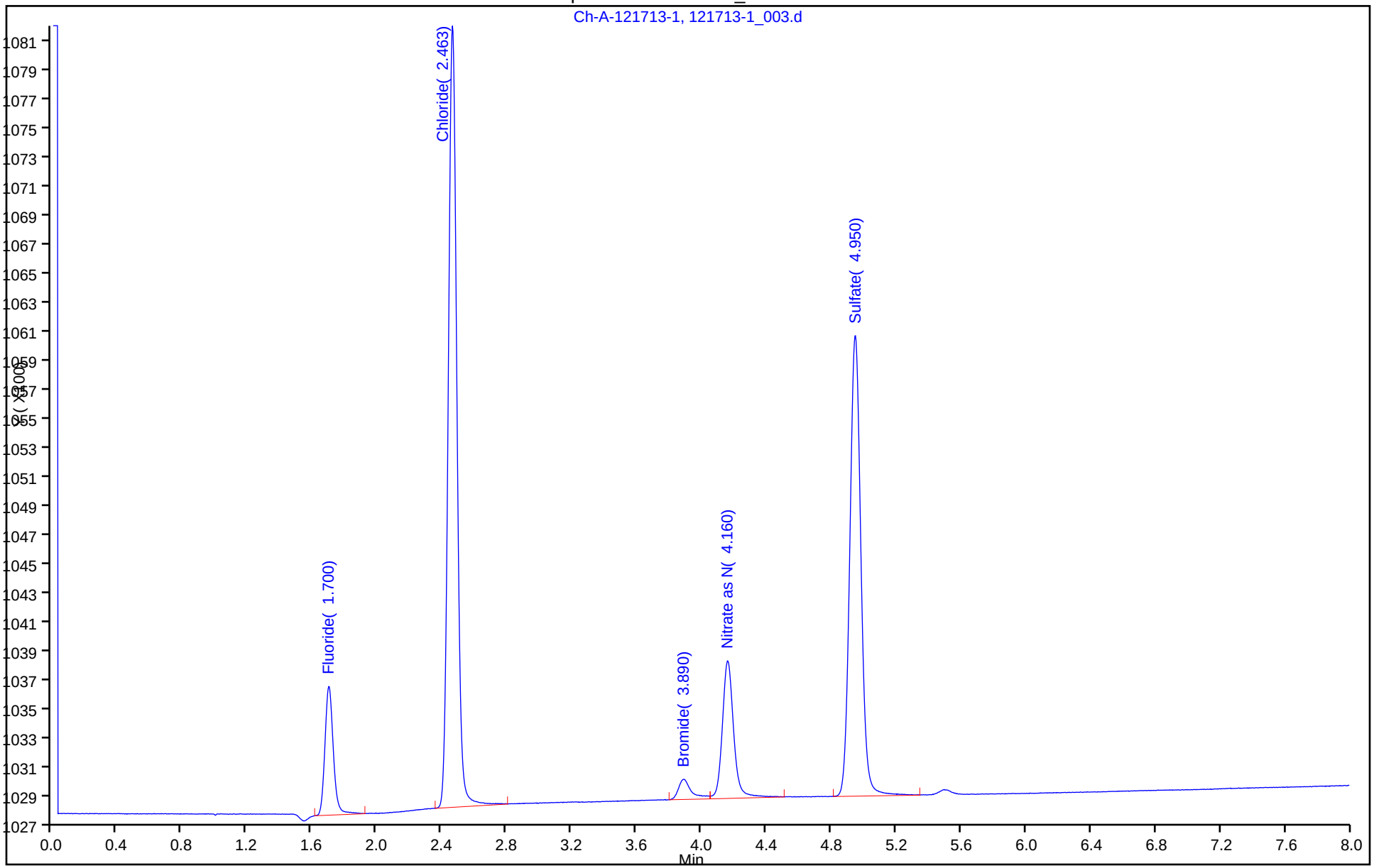
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_003.d				
Lims ID:	STD2	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	17-Dec-2013 15:40:13	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 003 Name: 480-0028206-003				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 17:07:13	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				
First Level Reviewer: cudneyk		Date:	17-Dec-2013 15:55:08		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.700	1.717	-0.017	3154	0.1049	
2 Chloride					
2.463	2.467	-0.004	19509	1.01	
3 Bromide					
3.890	3.887	0.003	766	0.0964	
4 Nitrate as N					
4.160	4.127	0.033	4521	0	
5 Sulfate					
4.950	4.897	0.053	14858	1.05	

Report Date: 17-Dec-2013 17:07:13 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_003.d				
Injection Date:	17-Dec-2013 15:40:13	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD2	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Dec-2013 15:50:21 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028206-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:12 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 16:37:35

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.710	1.617	1.997	15997	7.78	3.74		1 Fluoride
2.470	2.353	2.847	93080	45.27	3.81		2 Chloride
3.890	3.783	4.037	3462	1.68	4.54		3 Bromide
4.157	4.037	4.560	22727	11.05	4.90		
4.940	4.793	5.413	70340	34.21	5.30		5 Sulfate
			205606			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
IC, ICal Standard Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Dec-2013 15:50:21 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028206-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:12 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 16:37:35

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	0.5000	-0.007	0.5321	31994	6.4	0
2 Chloride	5.00	0.003	4.96	18616	-0.7	0
3 Bromide	0.5000	0.003	0.4357	6924.00	-12.9	0
5 Sulfate	5.00	0.043	5.07	14068	1.5	0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_004.d
Lims ID: STD3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Dec-2013 15:50:21 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 004 Name: 480-0028206-004
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:12 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

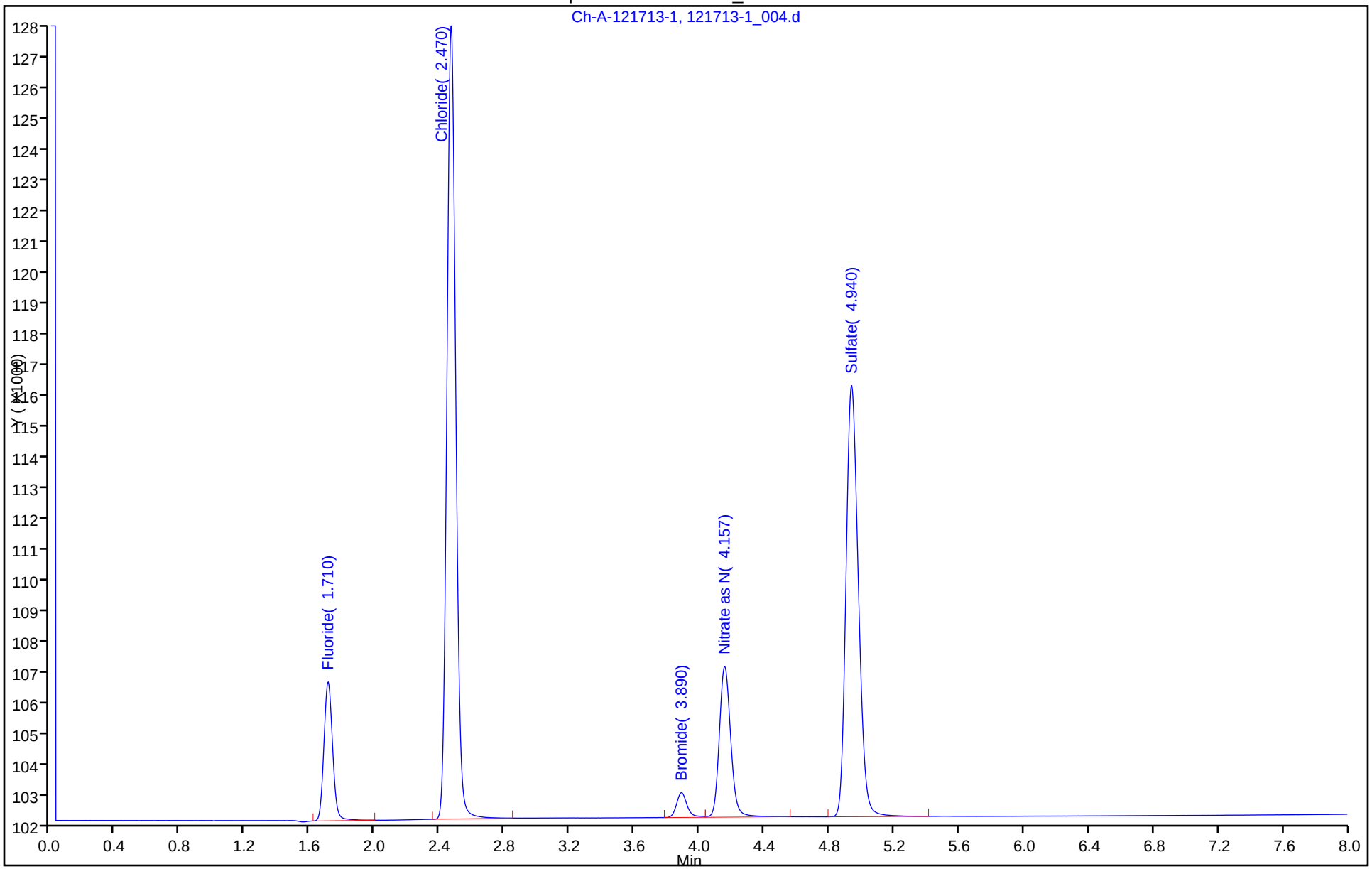
First Level Reviewer: cudneyk Date: 17-Dec-2013 16:37:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.710	1.717	-0.007	15997	0.5321	
2 Chloride					
2.470	2.467	0.003	93080	4.96	
3 Bromide					
3.890	3.887	0.003	3462	0.4357	
4 Nitrate as N					
4.157	4.127	0.030	22727	0	
5 Sulfate					
4.940	4.897	0.043	70340	5.07	

Report Date: 17-Dec-2013 17:07:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_004.d				
Injection Date:	17-Dec-2013 15:50:21	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD3	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_005.d
Lims ID: STD4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Dec-2013 16:00:29 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 005 Name: 480-0028206-005
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:10 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 16:27:55

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.717	1.617	2.127	61502	7.50	4.17		1 Fluoride
2.467	2.337	2.970	371918	45.36	3.90		2 Chloride
3.887	3.757	4.023	15407	1.88	4.41		3 Bromide
4.127	4.023	4.767	93657	11.42	5.60		
4.897	4.767	5.463	277357	33.83	7.05		5 Sulfate
			819841			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_005.d
Lims ID: STD4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Dec-2013 16:00:29 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 005 Name: 480-0028206-005
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:10 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

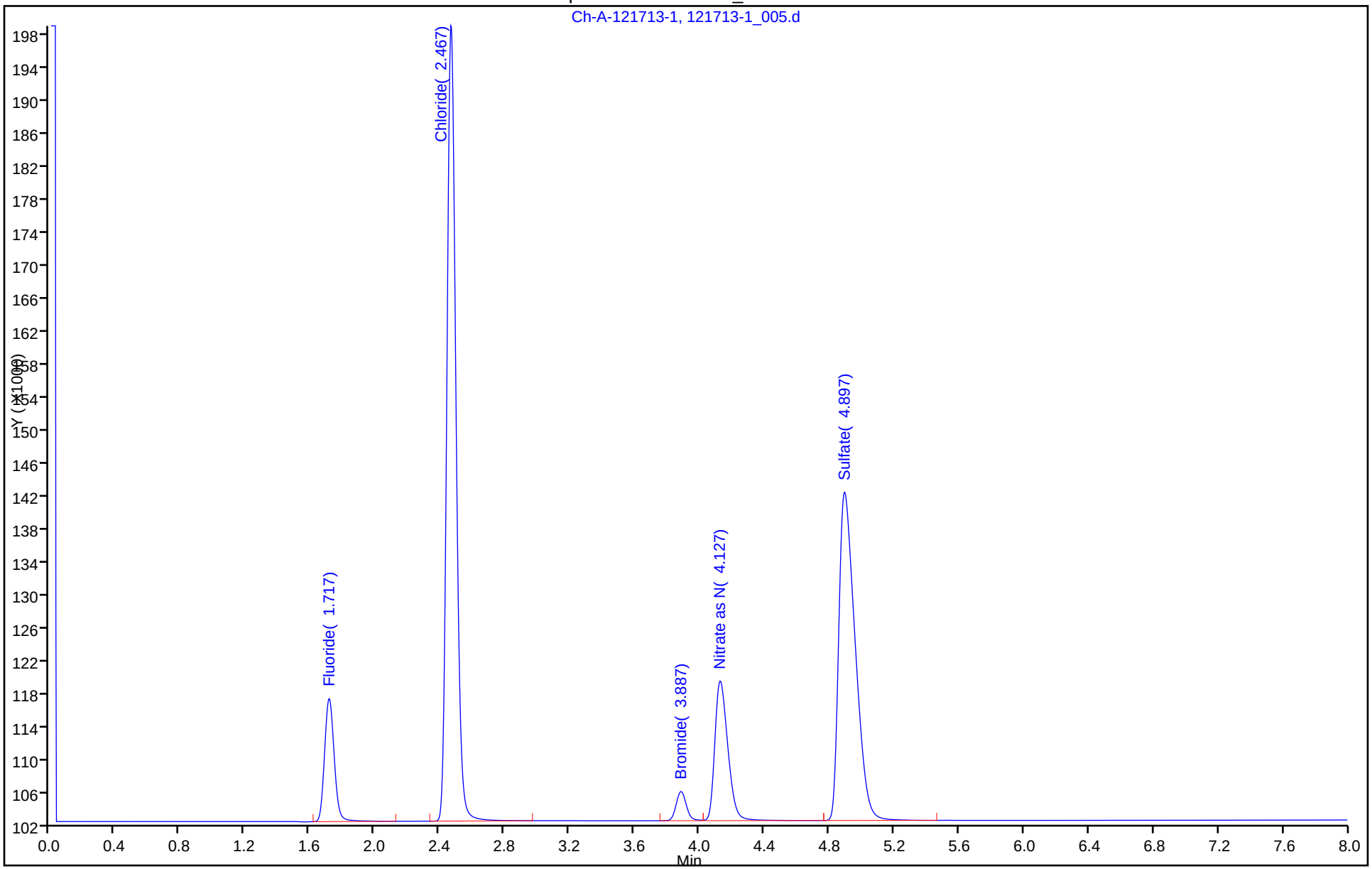
First Level Reviewer: cudneyk Date: 17-Dec-2013 16:27:55

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.717	1.717	0.0	61502	2.05	
2 Chloride					
2.467	2.467	0.0	371918	19.9	
3 Bromide					
3.887	3.887	0.0	15407	1.94	
4 Nitrate as N					
4.127	4.127	0.0	93657	0	
5 Sulfate					
4.897	4.897	0.0	277357	20.1	

Report Date: 17-Dec-2013 17:07:10 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_005.d				
Injection Date:	17-Dec-2013 16:00:29	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD4	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_006.d
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Dec-2013 16:10:36 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 006 Name: 480-0028206-006
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:09 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 16:37:14

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.720	1.613	2.350	145503	7.11	4.72		1 Fluoride
2.460	2.350	3.410	934841	45.70	4.01		2 Chloride
3.867	3.753	3.980	39975	1.95	4.47		3 Bromide
4.080	3.980	4.687	233451	11.41	6.72		
4.823	4.690	5.527	691760	33.82	9.57		5 Sulfate
			2045530			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_006.d
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Dec-2013 16:10:36 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 006 Name: 480-0028206-006
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:09 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

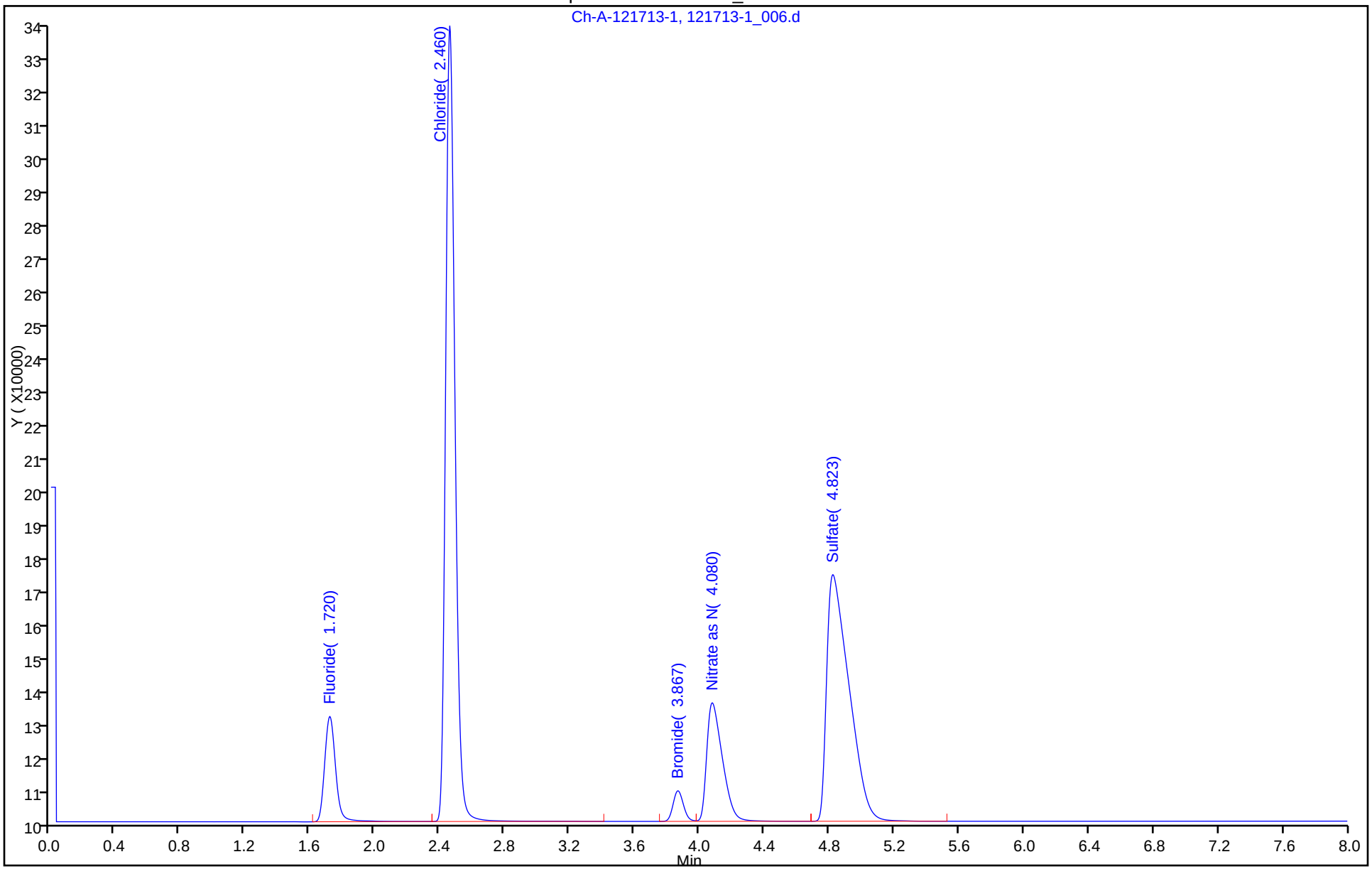
First Level Reviewer: cudneyk Date: 17-Dec-2013 16:37:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.720	1.720	0.0	145503	4.84	
2 Chloride					
2.460	2.460	0.0	934841	50.1	
3 Bromide					
3.867	3.867	0.0	39975	5.03	
4 Nitrate as N					
4.080	4.080	0.0	233451	0	
5 Sulfate					
4.823	4.823	0.0	691760	50.2	

Report Date: 17-Dec-2013 17:07:09 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_006.d				
Injection Date:	17-Dec-2013 16:10:36	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Lims ID: STD6 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Dec-2013 16:20:44 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 480-0028206-007
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:07:08 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 16:31:02

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.723	1.613	2.347	271651	6.70	5.36		1 Fluoride
2.453	2.347	3.593	1863317	45.95	4.08		2 Chloride
3.837	3.720	3.930	80344	1.98	4.56		3 Bromide
4.020	3.930	4.597	467216	11.52	8.16		
4.740	4.597	5.703	1372396	33.85	12.49		5 Sulfate
			4054924			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

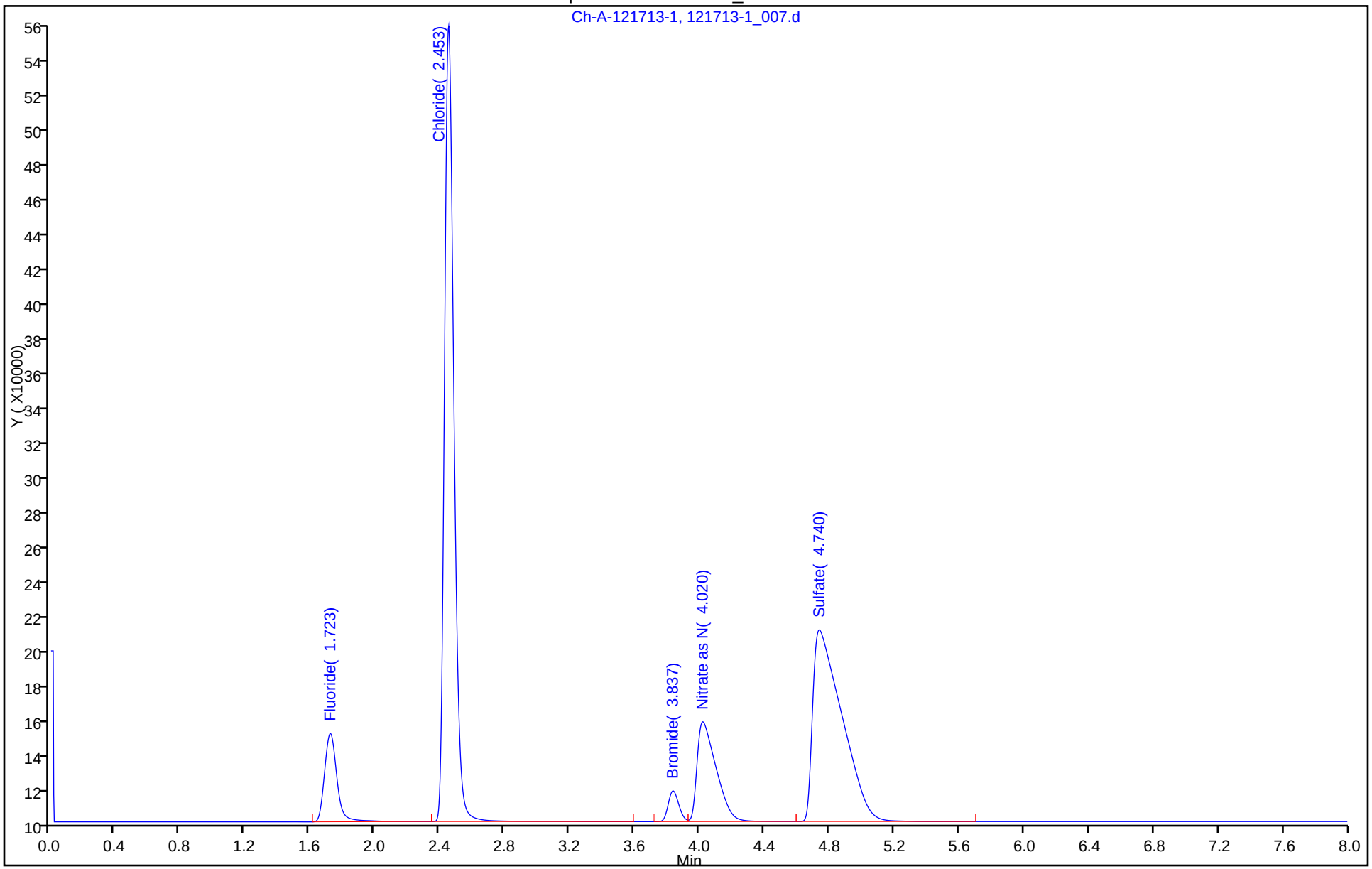
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Lims ID:	STD6	Lab Sample ID:			
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	17-Dec-2013 16:20:44	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 480-0028206-007				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Sublist:	chrom-IC1-300*sub2				
Method:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 17:07:08	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				
First Level Reviewer: cudneyk		Date:	17-Dec-2013 16:31:02		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.723	1.723	0.0	271651	9.04	
2 Chloride					
2.453	2.453	0.0	1863317	100.0	
3 Bromide					
3.837	3.837	0.0	80344	10.1	
4 Nitrate as N					
4.020	4.020	0.0	467216	0	
5 Sulfate					
4.740	4.740	0.0	1372396	99.6	

Report Date: 17-Dec-2013 17:07:08 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Injection Date:	17-Dec-2013 16:20:44	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	STD6	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_012.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 17:31:49 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 012 Name: 480-0028207-001
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:58:46 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 17:58:46

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.717	1.613	2.250	61179	7.51	4.26		1 Fluoride
2.473	2.357	3.033	371161	45.53	3.91		2 Chloride
3.887	3.770	4.020	15281	1.87	4.39		3 Bromide
4.130	4.020	4.703	91502	11.23	5.58		
4.957	4.810	5.593	276036	33.86	7.10		5 Sulfate
			815159			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_012.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 17:31:49 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 012 Name: 480-0028207-001
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:58:46 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 17:58:46

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	2.03	30590	1.7	10
2 Chloride	20.0	0.0	19.9	18558	-0.6	10
3 Bromide	2.00	0.0	1.92	7640.50	-3.8	10
5 Sulfate	20.0	0.0	20.0	13802	0.03	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_012.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 17:31:49 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 012 Name: 480-0028207-001
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:58:46 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

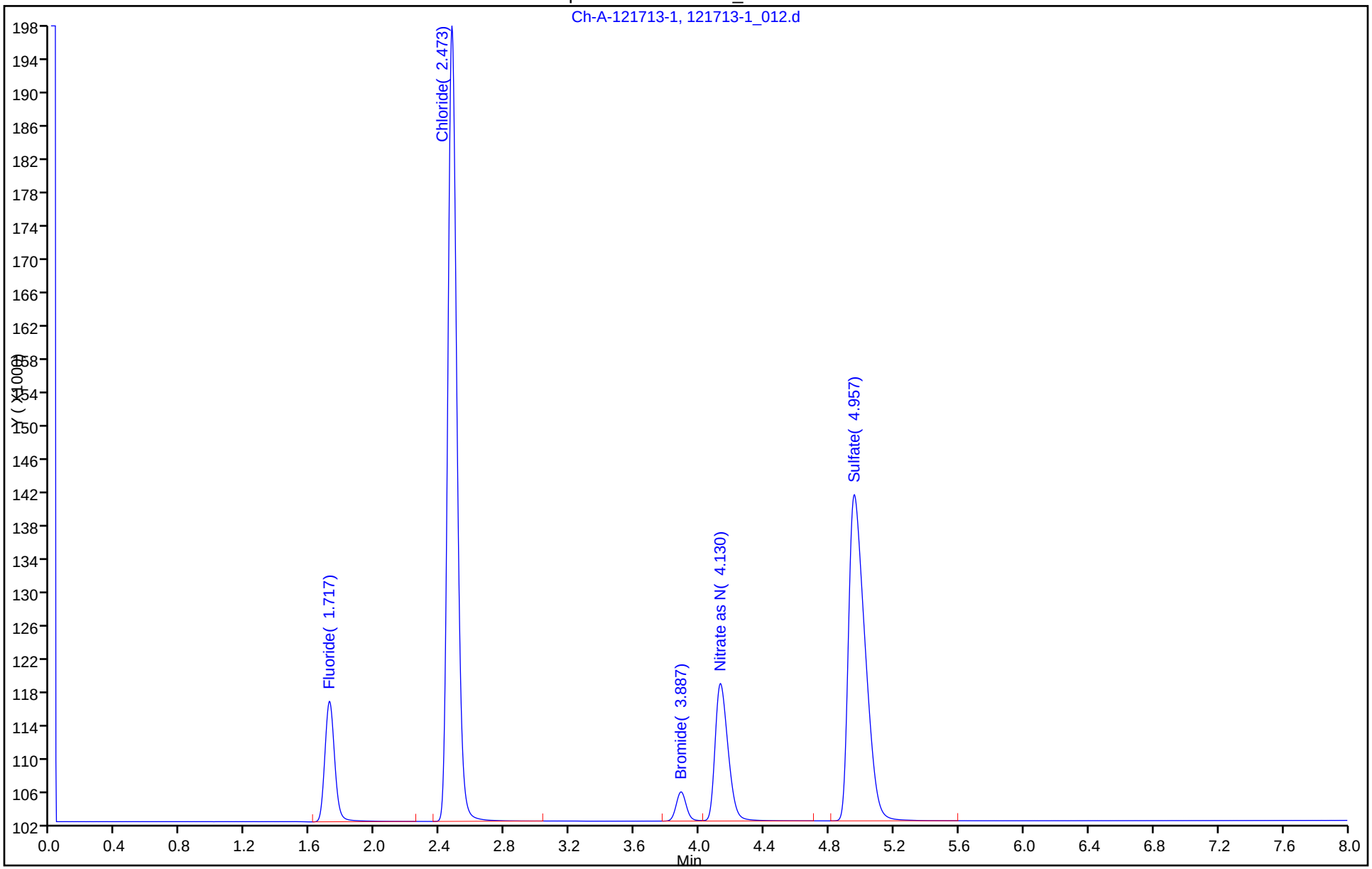
First Level Reviewer: cudneyk Date: 17-Dec-2013 17:58:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.717	1.717	0.0	61179	2.03	
2 Chloride					
2.473	2.473	0.0	371161	19.9	
3 Bromide					
3.887	3.887	0.0	15281	1.92	
4 Nitrate as N					
4.130	4.130	0.0	91502	0	
5 Sulfate					
4.957	4.957	0.0	276036	20.0	

Report Date: 17-Dec-2013 17:58:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_012.d				
Injection Date:	17-Dec-2013 17:31:49	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_013.d
Lims ID: CCB Lab Sample ID: CCB 480-158055/2-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 17:41:56 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 013 Name: 480-0028207-002
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 17:58:46 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 17:58:50

Detector: Ch-A-092410-2
Number of peaks found: 0

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
			0			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_013.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-158055/2-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 17:41:56	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 013 Name: 480-0028207-002				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 17:58:46	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				
First Level Reviewer: cudneyk		Date:	17-Dec-2013 17:58:50		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags

Report Date: 17-Dec-2013 17:58:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_013.d				
Injection Date:	17-Dec-2013 17:41:56	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-158055/2-A	Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_014.d
Lims ID: LCS Lab Sample ID: LCS 480-158055/3-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2013 17:52:04 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 014 Name: 480-0028207-003
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 16:30:51 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 18:32:04

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.717	1.617	2.217	61610	7.55	4.26		1 Fluoride
2.473	2.343	3.033	371977	45.55	3.93		2 Chloride
3.887	3.773	4.017	15226	1.86	4.38		3 Bromide
4.130	4.017	4.633	91451	11.20	5.58		
4.960	4.823	5.553	276288	33.84	7.10		5 Sulfate
			816552			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_014.d
Lims ID: LCS Lab Sample ID: LCS 480-158055/3-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2013 17:52:04 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 014 Name: 480-0028207-003
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 16:30:51 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK040

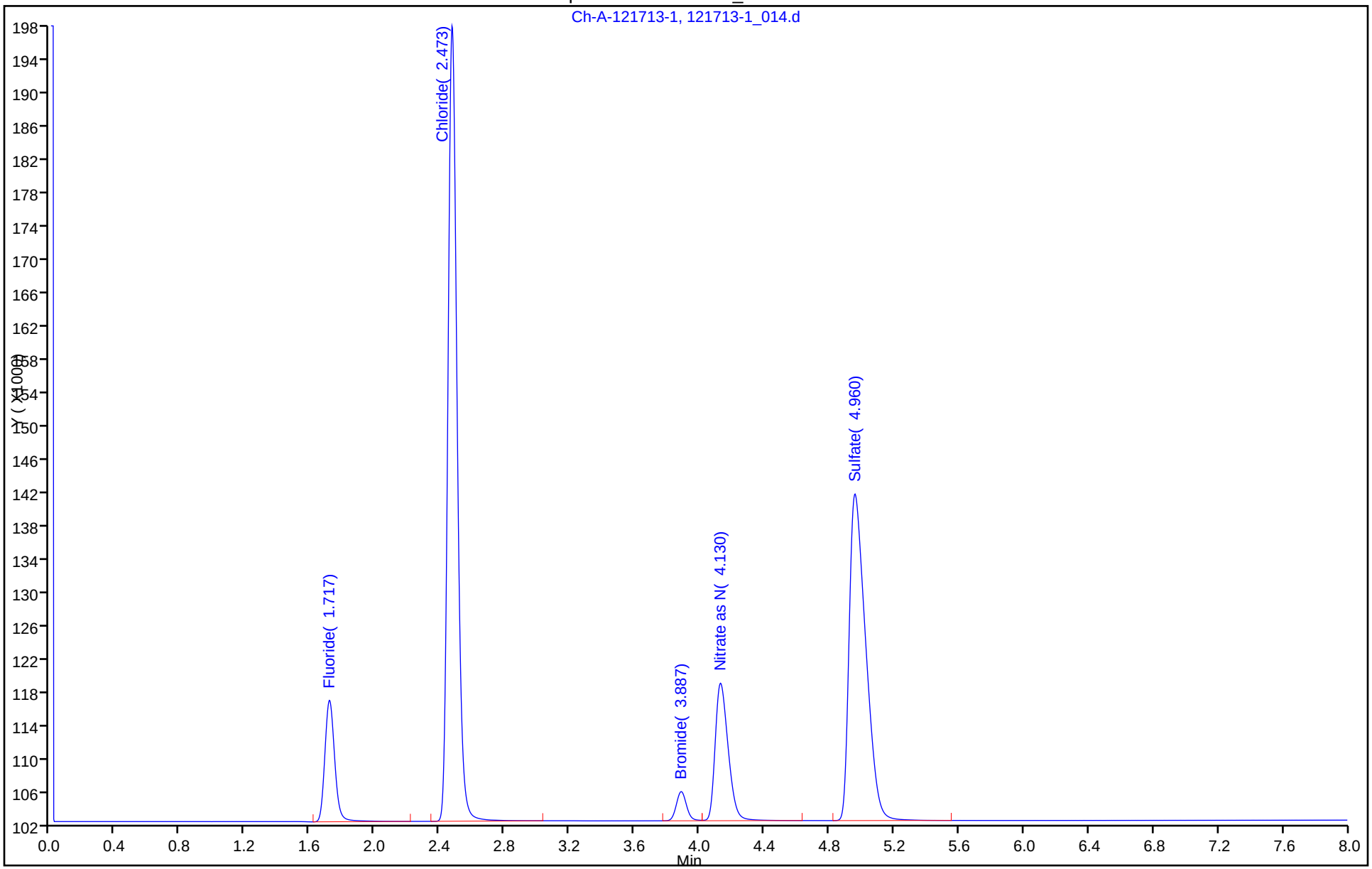
First Level Reviewer: cudneyk Date: 17-Dec-2013 18:32:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.717	1.717	0.0	61610	2.05	
2 Chloride					
2.473	2.473	0.0	371977	19.9	
3 Bromide					
3.887	3.887	0.0	15226	1.92	
4 Nitrate as N					
4.130	4.130	0.0	91451	0	
5 Sulfate					
4.960	4.957	0.003	276288	20.0	

Report Date: 17-Dec-2013 18:32:05 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_014.d				
Injection Date:	17-Dec-2013 17:52:04	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	LCS	Lab Sample ID:	LCS 480-158055/3-A	Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_015.d
Lims ID: MB Lab Sample ID: MB 480-158055/4-A
Client ID:
Sample Type: MB
Inject. Date: 17-Dec-2013 18:02:12 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 015 Name: 480-0028207-004
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 17-Dec-2013 16:30:51 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK040

First Level Reviewer: cudneyk Date: 17-Dec-2013 18:32:06

Detector: Ch-A-092410-2
Number of peaks found: 0

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
			0			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

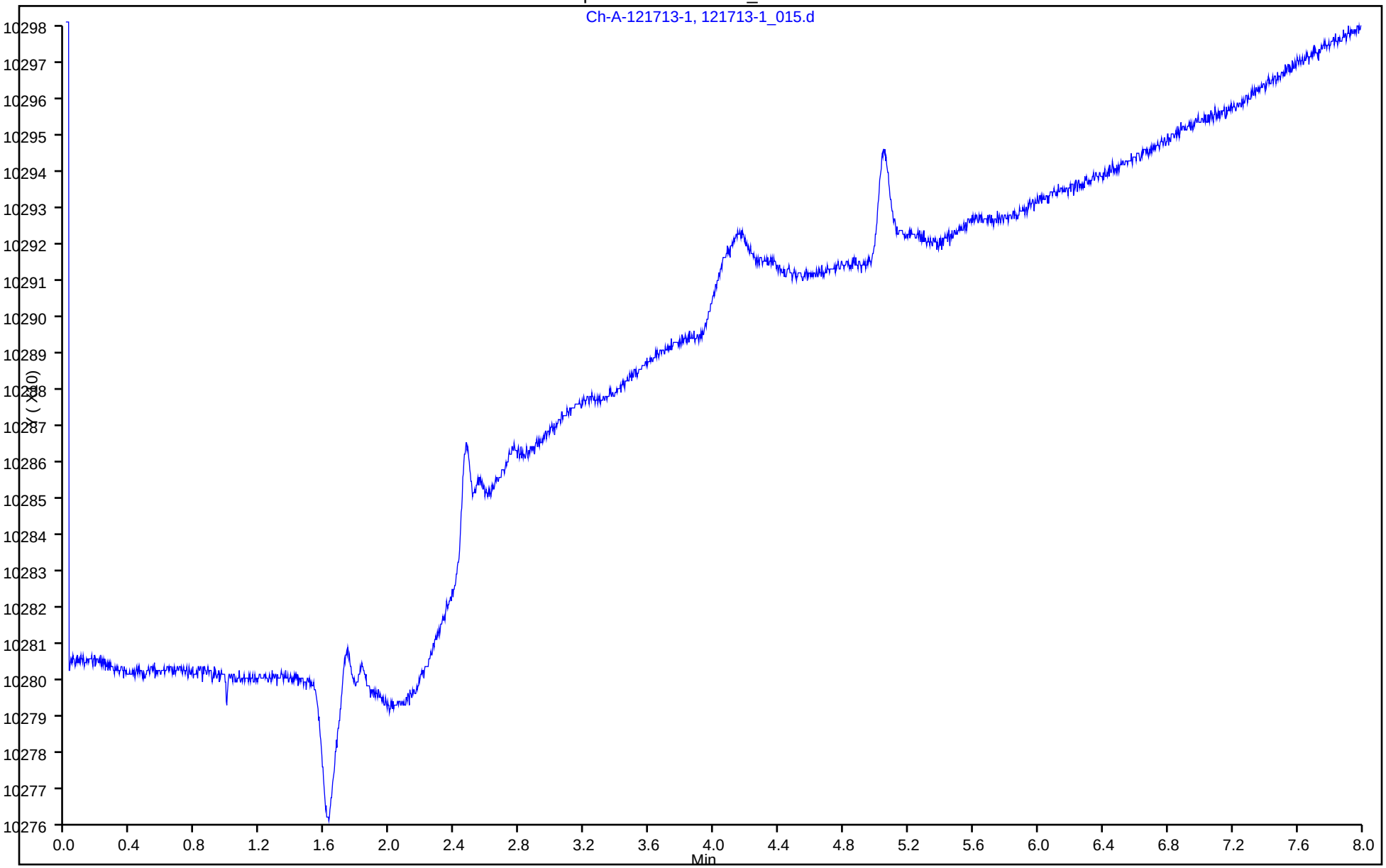
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_015.d				
Lims ID:	MB	Lab Sample ID:	MB 480-158055/4-A		
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Dec-2013 18:02:12	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 015 Name: 480-0028207-004				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	17-Dec-2013 16:30:51	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK040				
First Level Reviewer: cudneyk		Date:	17-Dec-2013 18:32:06		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags

Report Date: 17-Dec-2013 18:32:06 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_015.d				
Injection Date:	17-Dec-2013 18:02:12	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	MB	Lab Sample ID:	MB 480-158055/4-A	Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_024.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 19:33:23 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 024 Name: 480-0028207-013
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:24:05 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:24:05

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.723	1.623	2.187	60862	7.47	4.29		1 Fluoride
2.487	2.377	3.010	372196	45.69	3.94		2 Chloride
3.907	3.793	4.043	15159	1.86	4.40		3 Bromide
4.150	4.043	4.790	91538	11.24	5.60		
4.997	4.843	5.580	274898	33.74	7.10		5 Sulfate
			814653			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_024.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 19:33:23 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 024 Name: 480-0028207-013
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:24:05 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:24:05

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	2.02	30431	1.2	10
2 Chloride	20.0	0.0	19.9	18610	-0.3	10
3 Bromide	2.00	0.0	1.91	7579.50	-4.6	10
5 Sulfate	20.0	0.0	19.9	13745	-0.4	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_024.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 19:33:23 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 024 Name: 480-0028207-013
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:24:05 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

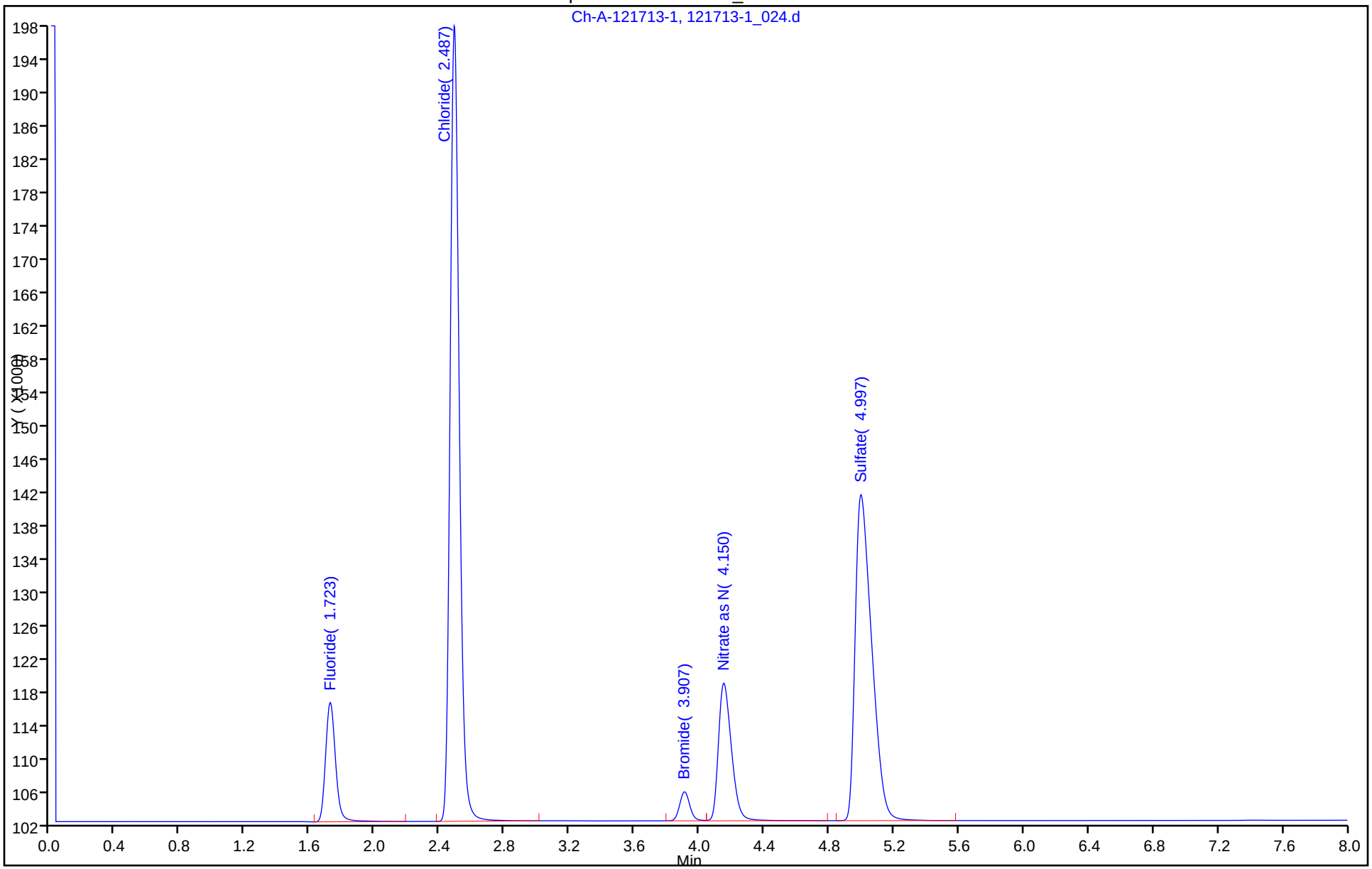
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:24:05

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.723	1.723	0.0	60862	2.02	
2 Chloride					
2.487	2.487	0.0	372196	19.9	
3 Bromide					
3.907	3.907	0.0	15159	1.91	
4 Nitrate as N					
4.150	4.150	0.0	91538	0	
5 Sulfate					
4.997	4.997	0.0	274898	19.9	

Report Date: 18-Dec-2013 09:24:05 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_024.d				
Injection Date:	17-Dec-2013 19:33:23	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_025.d
Lims ID: CCB Lab Sample ID: CCB 480-158055/14-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 19:43:31 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 025 Name: 480-0028207-014
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:24:05 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:24:09

Detector: Ch-A-092410-2
Number of peaks found: 2

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.487	2.400	2.617	457	49.41	3.91		2 Chloride
5.097	5.003	5.267	468	50.59	5.09		5 Sulfate
			925			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

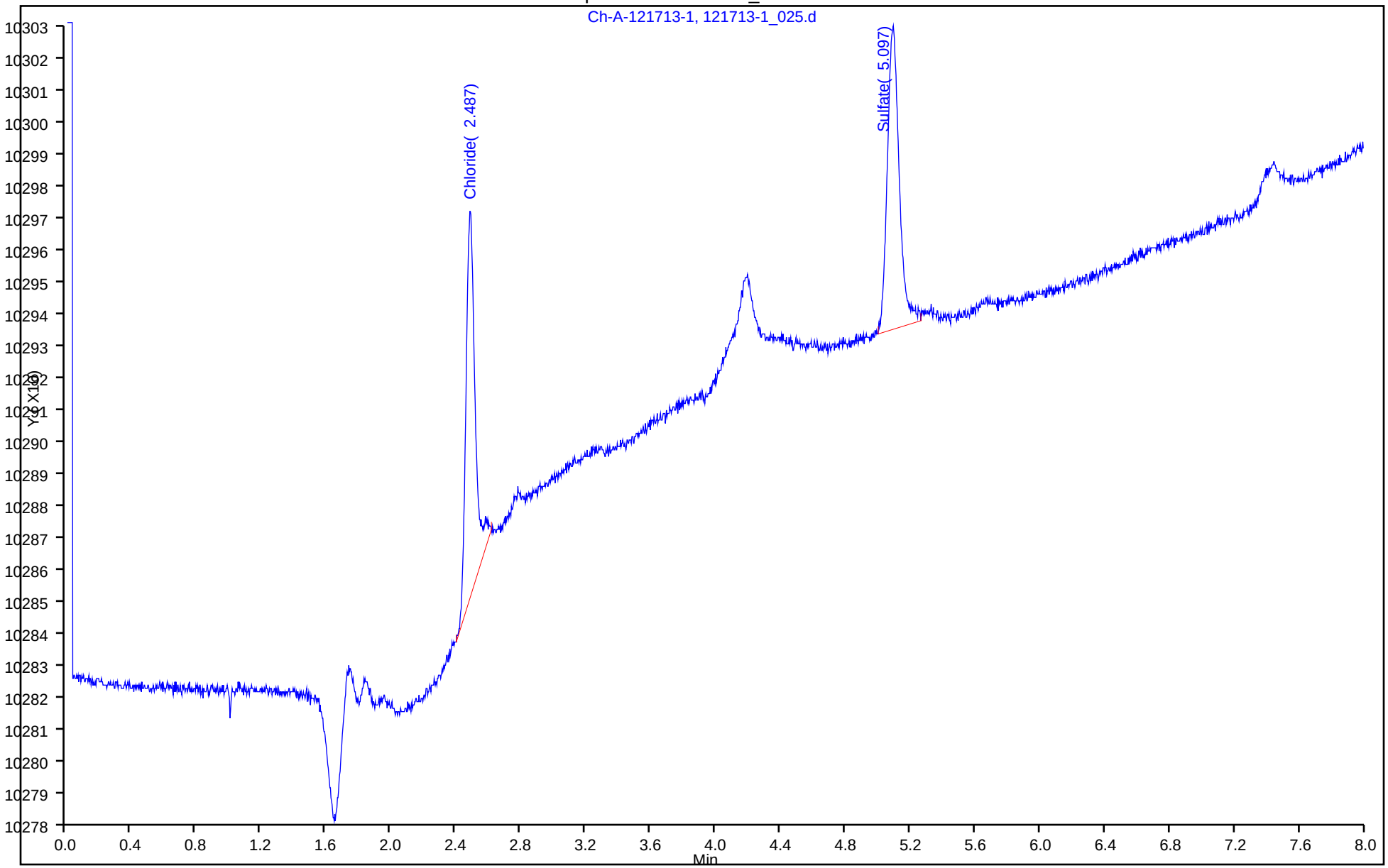
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_025.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-158055/14-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 19:43:31	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 025 Name: 480-0028207-014				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:24:05	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:24:09		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.487	2.487	0.0	457	-0.007557	
5 Sulfate					
5.097	4.997	0.100	468	0.002260	

Report Date: 18-Dec-2013 09:24:09 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_025.d				
Injection Date:	17-Dec-2013 19:43:31	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-158055/14-A	Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_027.d
Lims ID: 460-68263-A-1 Lab Sample ID: 480-68263-1
Client ID: GW0016
Sample Type: Client
Inject. Date: 17-Dec-2013 20:03:47 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 027 Name: 480-0028207-016
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:24:45 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:24:45

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.720	1.627	2.103	9749	1.20	4.16		1 Fluoride
2.493	2.373	2.993	395790	48.87	3.94		2 Chloride
3.803	3.673	3.923	914	0.11	7.55		
4.980	4.830	5.627	403044	49.76	8.03		5 Sulfate
7.410	7.313	7.637	405	0.05	7.94		
			809902			Totals	

Total Unknown Area% = 0.16

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

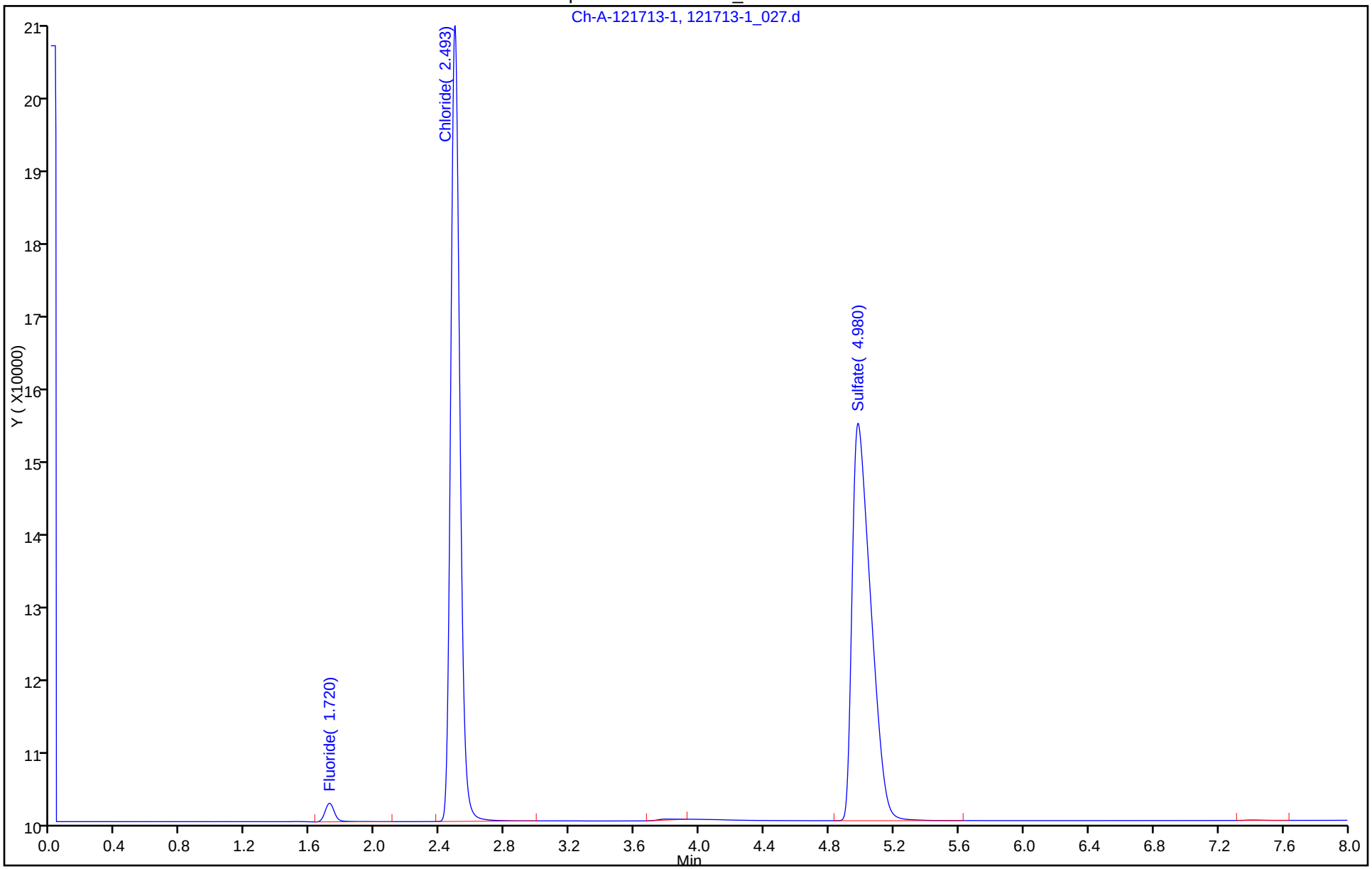
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_027.d				
Lims ID:	460-68263-A-1	Lab Sample ID:	480-68263-1		
Client ID:	GW0016				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:03:47	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 027 Name: 480-0028207-016				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:24:45	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:24:45		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.720	1.723	-0.003	9749	0.3243	
2 Chloride					
2.493	2.487	0.006	395790	21.2	
5 Sulfate					
4.980	4.997	-0.017	403044	29.2	

Report Date: 18-Dec-2013 09:24:45 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_027.d				
Injection Date:	17-Dec-2013 20:03:47	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-1	Lab Sample ID:	480-68263-1	Worklist Smp#:	16
Client ID:	GW0016				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_028.d
Lims ID: 460-68263-A-2 Lab Sample ID: 480-68263-2
Client ID: GW0017
Sample Type: Client
Inject. Date: 17-Dec-2013 20:13:55 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 028 Name: 480-0028207-017
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:25:39 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:25:39

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.720	1.637	1.870	5128	0.57	4.02		1 Fluoride
2.490	2.367	3.003	469261	51.72	3.96		2 Chloride
3.783	3.630	4.587	6341	0.70	24.96		
4.970	4.830	5.630	426317	46.99	8.20		5 Sulfate
7.420	7.333	7.600	235	0.03	7.58		
			907282			Totals	

Total Unknown Area% = 0.72

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

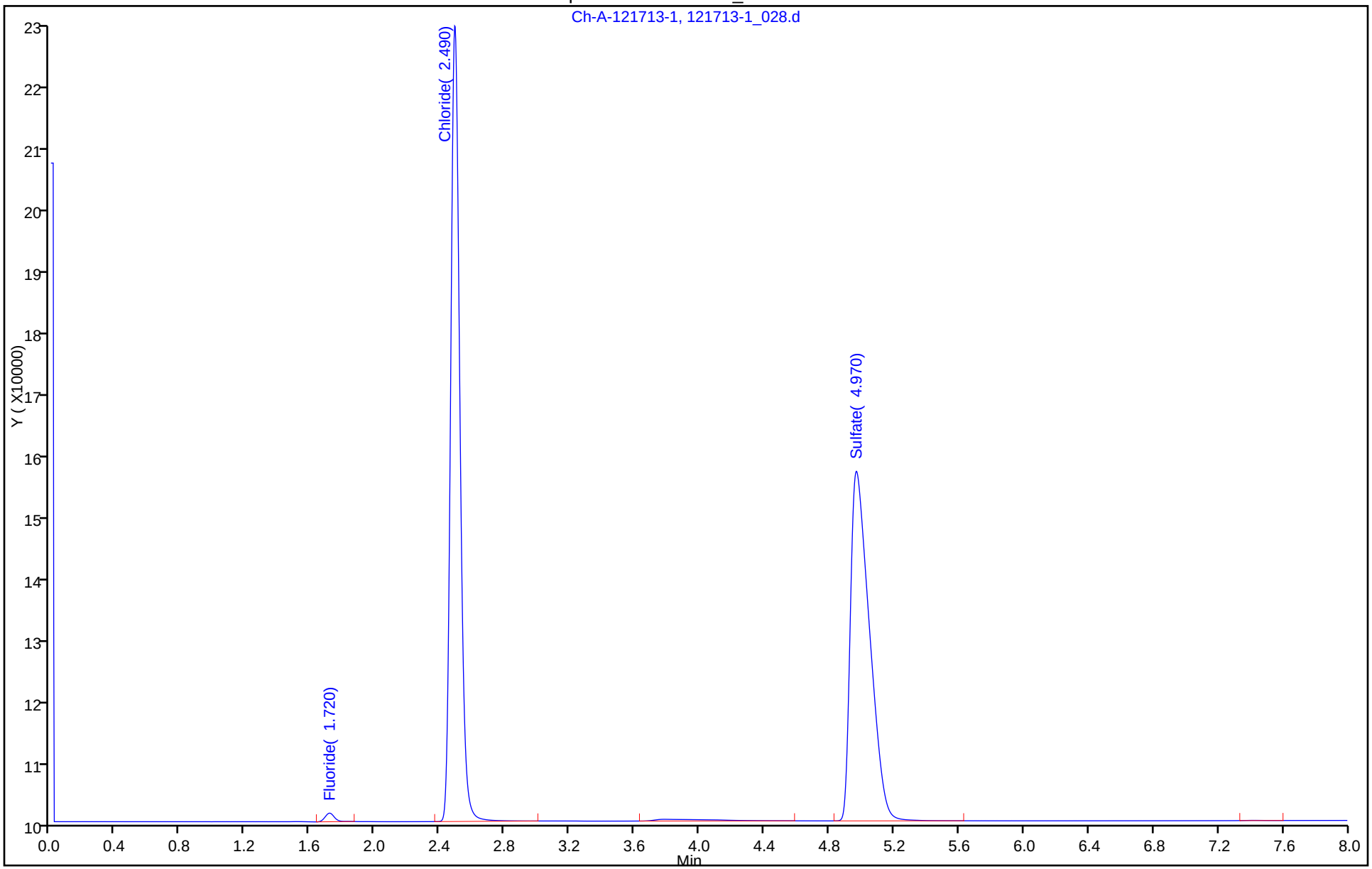
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_028.d				
Lims ID:	460-68263-A-2	Lab Sample ID:	480-68263-2		
Client ID:	GW0017				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:13:55	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 028 Name: 480-0028207-017				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:25:39	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:25:39		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.720	1.723	-0.003	5128	0.1706	
2 Chloride					
2.490	2.487	0.003	469261	25.2	
5 Sulfate					
4.970	4.997	-0.027	426317	30.9	

Report Date: 18-Dec-2013 09:25:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_028.d				
Injection Date:	17-Dec-2013 20:13:55	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-2	Lab Sample ID:	480-68263-2	Worklist Smp#:	17
Client ID:	GW0017				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_029.d
Lims ID: 460-68263-A-3 Lab Sample ID: 480-68263-3
Client ID: GW0018
Sample Type: Client
Inject. Date: 17-Dec-2013 20:24:03 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 029 Name: 480-0028207-018
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:25:46 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:25:46

Detector: Ch-A-092410-2
Number of peaks found: 7

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.720	1.630	1.967	6828	0.67	4.19		1 Fluoride
2.490	2.353	3.033	522303	50.96	4.01		2 Chloride
3.817	3.623	4.370	6219	0.61	26.92		
4.460	4.370	4.787	1124	0.11	7.97		
4.950	4.810	5.527	483893	47.21	8.60		5 Sulfate
5.617	5.540	5.840	221	0.02	5.26		
7.367	7.213	7.843	4402	0.43	8.20		
			1024990			Totals	

Total Unknown Area% = 1.17

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

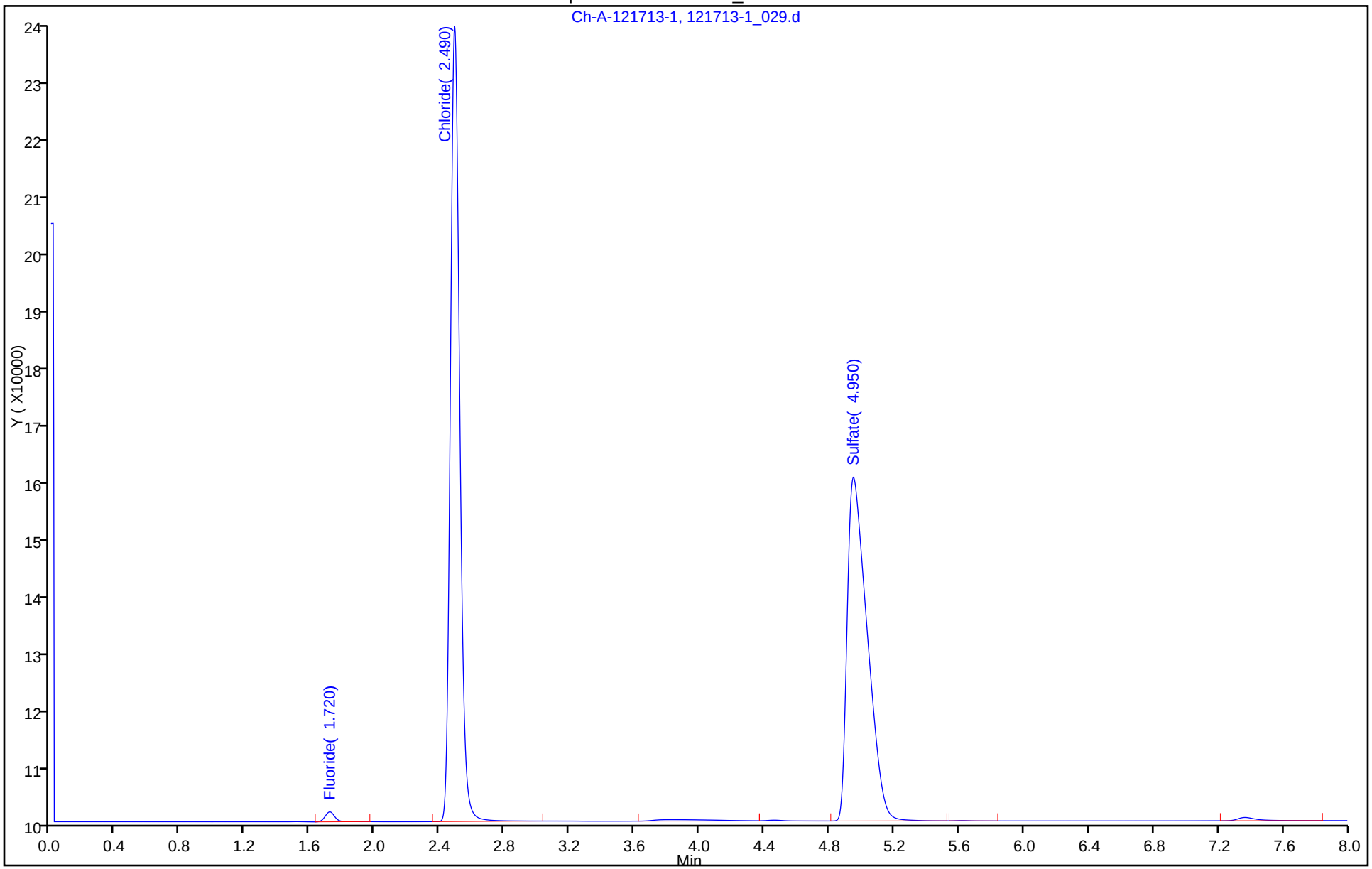
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_029.d				
Lims ID:	460-68263-A-3	Lab Sample ID:	480-68263-3		
Client ID:	GW0018				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:24:03	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 029 Name: 480-0028207-018				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:25:46	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:25:46		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.720	1.723	-0.003	6828	0.2271	
2 Chloride					
2.490	2.487	0.003	522303	28.0	
5 Sulfate					
4.950	4.997	-0.047	483893	35.1	

Report Date: 18-Dec-2013 09:25:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_029.d				
Injection Date:	17-Dec-2013 20:24:03	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-3	Lab Sample ID:	480-68263-3	Worklist Smp#:	18
Client ID:	GW0018				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_030.d
Lims ID: 460-68263-A-4 Lab Sample ID: 480-68263-4
Client ID: GW0019
Sample Type: Client
Inject. Date: 17-Dec-2013 20:34:11 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 030 Name: 480-0028207-019
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:25:56 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:25:56

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.720	1.613	2.153	35095	3.57	4.64		1 Fluoride
2.487	2.360	3.060	811639	82.59	4.23		2 Chloride
3.803	3.660	3.970	2796	0.28	12.43		
4.107	3.970	4.463	18810	1.91	7.29		
5.040	4.873	5.503	111667	11.36	7.00		5 Sulfate
7.367	7.223	7.673	2754	0.28	8.88		
			982761			Totals	

Total Unknown Area% = 0.56

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

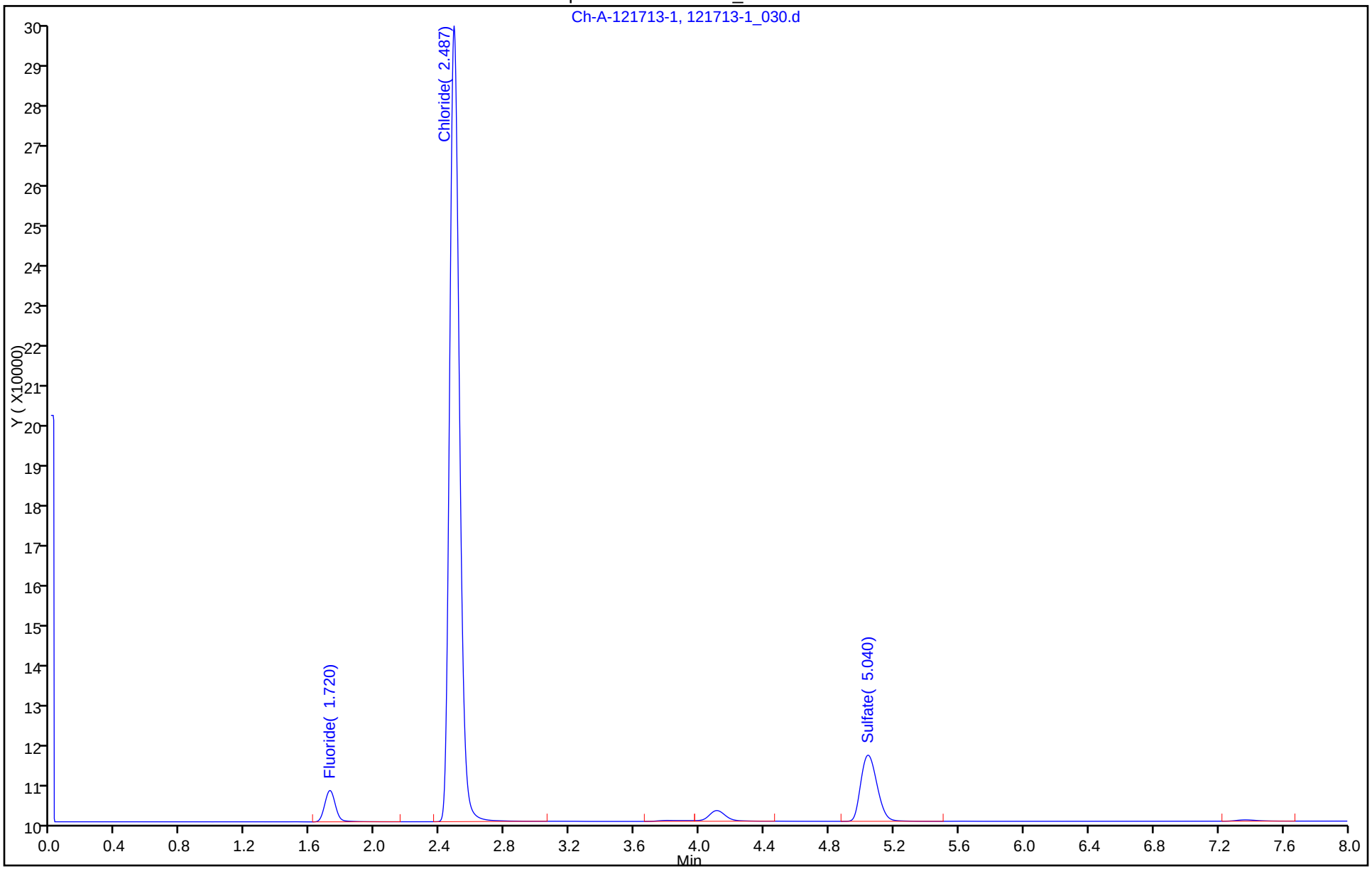
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_030.d				
Lims ID:	460-68263-A-4	Lab Sample ID:	480-68263-4		
Client ID:	GW0019				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:34:11	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 030 Name: 480-0028207-019				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:25:56	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:25:56		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.720	1.723	-0.003	35095	1.17	
2 Chloride					
2.487	2.487	0.0	811639	43.5	
5 Sulfate					
5.040	4.997	0.043	111667	8.07	

Report Date: 18-Dec-2013 09:25:57 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_030.d				
Injection Date:	17-Dec-2013 20:34:11	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-4	Lab Sample ID:	480-68263-4	Worklist Smp#:	19
Client ID:	GW0019				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_031.d
Lims ID: 460-68263-A-5 Lab Sample ID: 480-68263-5
Client ID: GW0020
Sample Type: Client
Inject. Date: 17-Dec-2013 20:44:19 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 031 Name: 480-0028207-020
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:06 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:06

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.707	1.613	2.063	32725	3.69	4.65		1 Fluoride
2.477	2.337	3.053	680068	76.63	4.99		2 Chloride
3.823	3.640	4.563	5575	0.63	25.11		
5.000	4.827	5.517	166100	18.72	9.98		5 Sulfate
7.347	7.183	7.753	3009	0.34	11.10		
			887477			Totals	

Total Unknown Area% = 0.97

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

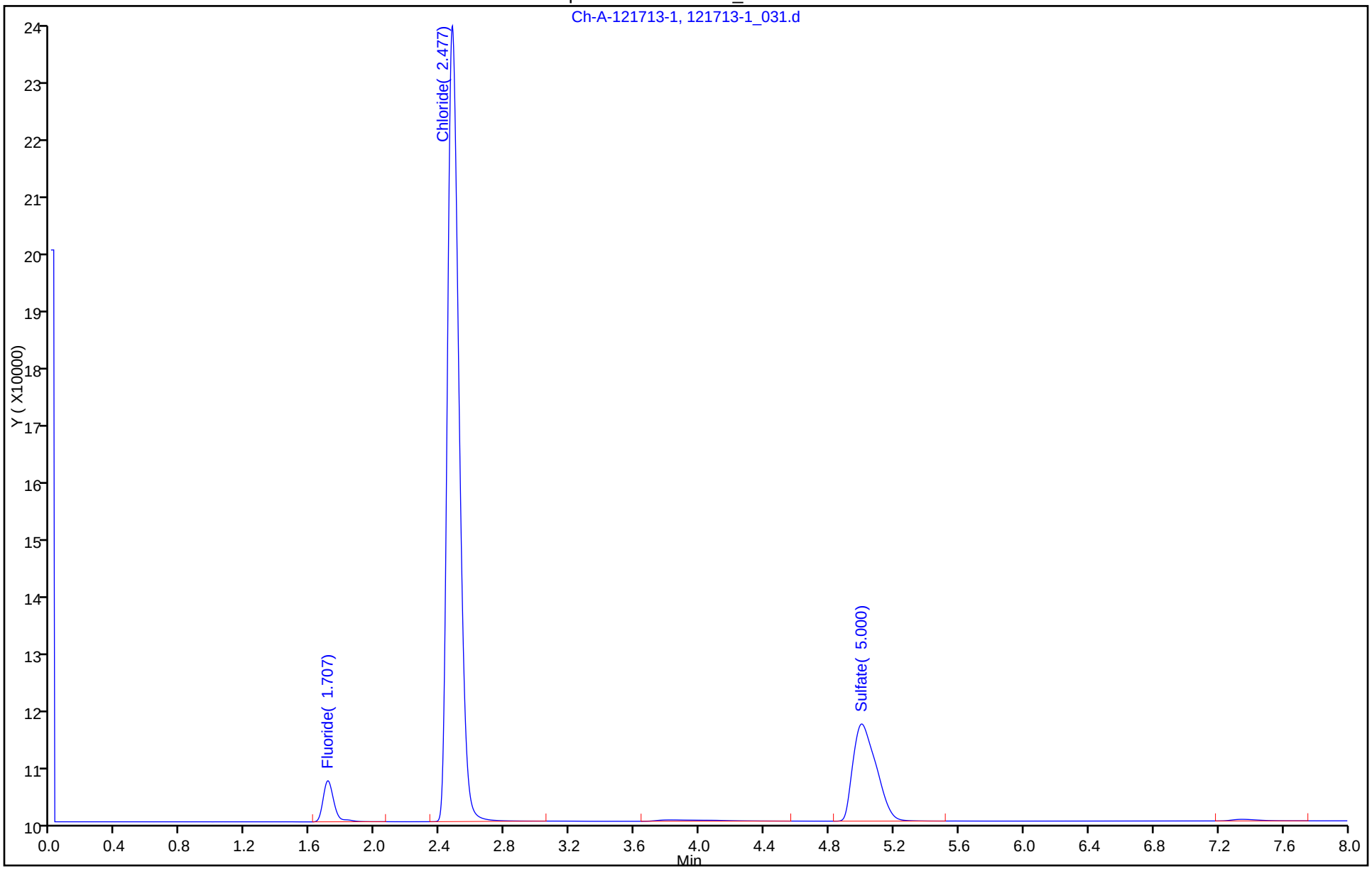
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_031.d				
Lims ID:	460-68263-A-5	Lab Sample ID:	480-68263-5		
Client ID:	GW0020				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:44:19	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 031 Name: 480-0028207-020				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:06	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:06		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.707	1.723	-0.016	32725	1.09	
2 Chloride					
2.477	2.487	-0.010	680068	36.5	
5 Sulfate					
5.000	4.997	0.003	166100	12.0	

Report Date: 18-Dec-2013 09:26:06 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_031.d				
Injection Date:	17-Dec-2013 20:44:19	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-5	Lab Sample ID:	480-68263-5	Worklist Smp#:	20
Client ID:	GW0020				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_032.d
Lims ID: 460-68263-A-6 Lab Sample ID: 480-68263-6
Client ID: GW0021
Sample Type: Client
Inject. Date: 17-Dec-2013 20:54:27 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 032 Name: 480-0028207-021
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:13

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.703	1.613	2.127	34778	3.51	4.47		1 Fluoride
2.467	2.333	3.033	819658	82.79	5.10		2 Chloride
3.847	3.620	3.953	2833	0.29	14.02		
4.090	3.953	4.470	18918	1.91	7.95		
5.013	4.833	5.497	111762	11.29	10.08		5 Sulfate
7.353	7.203	7.693	2152	0.22	10.92		
			990101			Totals	

Total Unknown Area% = 0.50

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

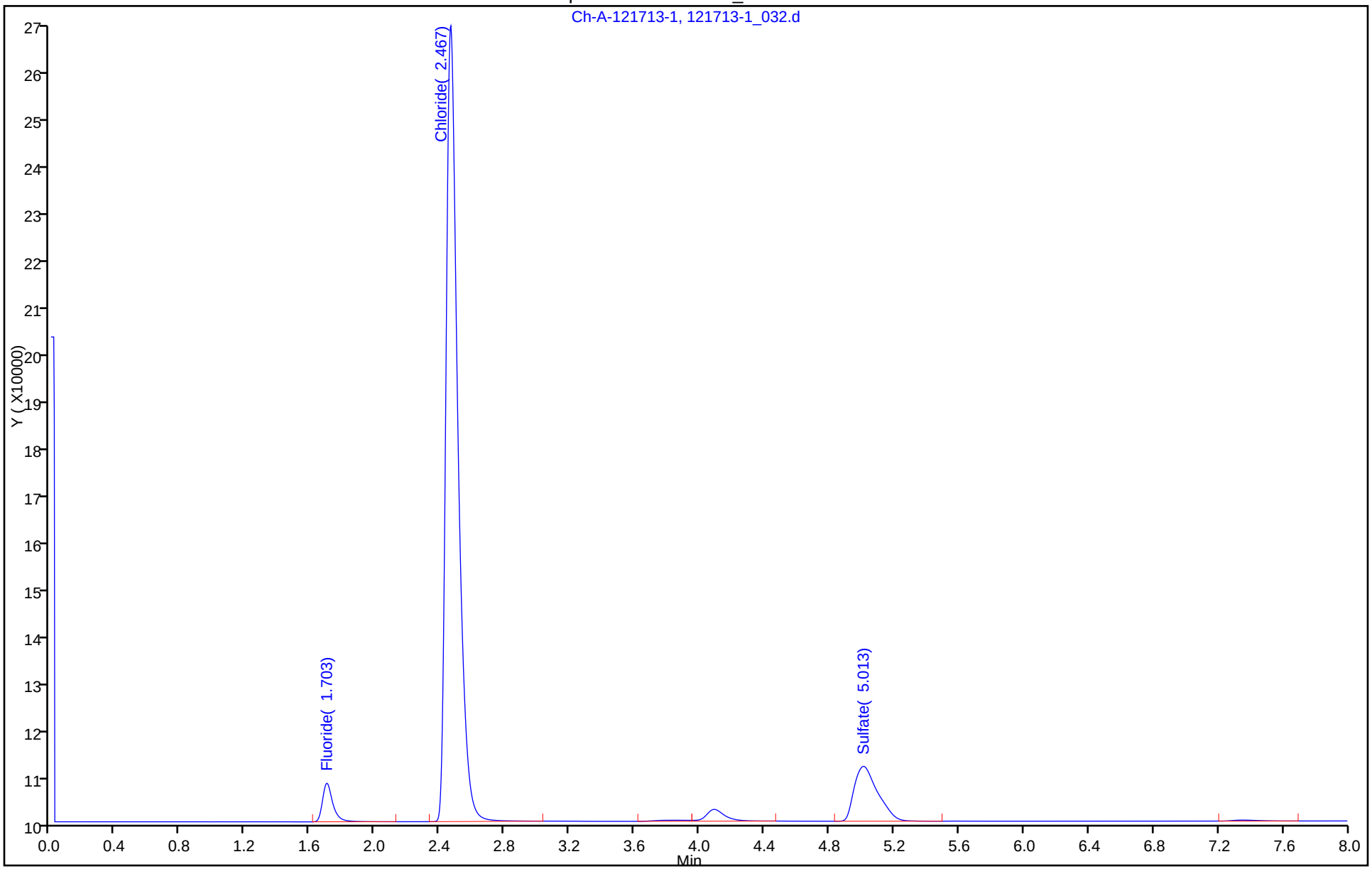
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_032.d				
Lims ID:	460-68263-A-6	Lab Sample ID:	480-68263-6		
Client ID:	GW0021				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 20:54:27	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 032 Name: 480-0028207-021				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:13	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:13		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.703	1.723	-0.020	34778	1.16	
2 Chloride					
2.467	2.487	-0.020	819658	44.0	
5 Sulfate					
5.013	4.997	0.016	111762	8.08	

Report Date: 18-Dec-2013 09:26:13 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_032.d				
Injection Date:	17-Dec-2013 20:54:27	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-6	Lab Sample ID:	480-68263-6	Worklist Smp#:	21
Client ID:	GW0021				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_033.d
Lims ID: 460-68263-A-7 Lab Sample ID: 480-68263-7
Client ID: GW0022
Sample Type: Client
Inject. Date: 17-Dec-2013 21:04:35 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 033 Name: 480-0028207-022
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:20

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.700	1.613	2.147	34525	3.51	4.29		1 Fluoride
2.460	2.343	3.050	819457	83.23	4.80		2 Chloride
4.090	3.960	4.533	16596	1.69	6.93		
5.003	4.837	5.500	111734	11.35	9.42		5 Sulfate
7.347	7.193	7.810	2251	0.23	10.77		
			984563			Totals	

Total Unknown Area% = 0.23

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

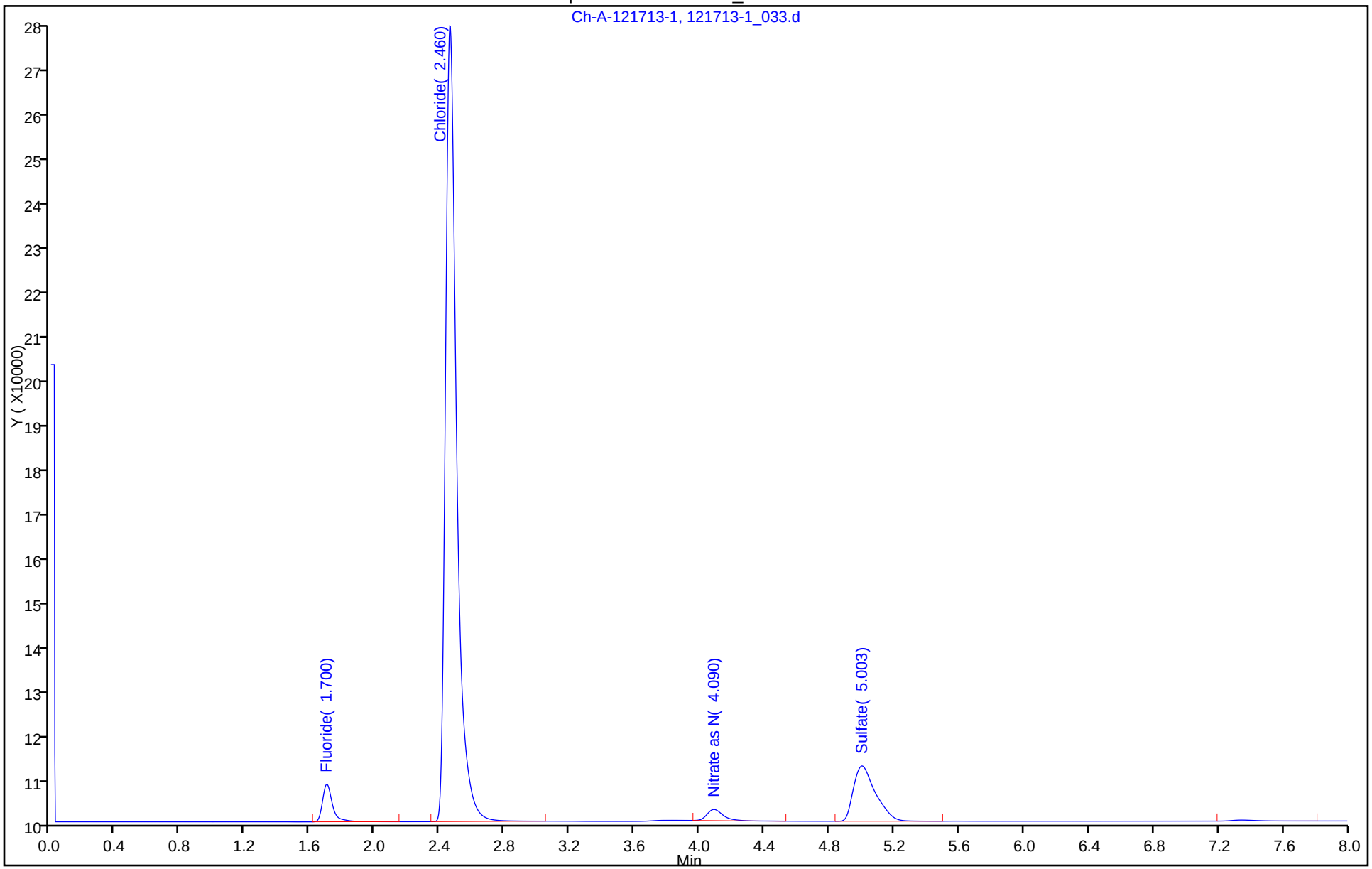
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_033.d				
Lims ID:	460-68263-A-7	Lab Sample ID:	480-68263-7		
Client ID:	GW0022				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 21:04:35	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 033 Name: 480-0028207-022				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:13	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:20		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.700	1.723	-0.023	34525	1.15	
2 Chloride					
2.460	2.487	-0.027	819457	43.9	
4 Nitrate as N					
4.090	4.150	-0.060	16596	0	
5 Sulfate					
5.003	4.997	0.006	111734	8.08	

Report Date: 18-Dec-2013 09:26:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_033.d				
Injection Date:	17-Dec-2013 21:04:35	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-7	Lab Sample ID:	480-68263-7	Worklist Smp#:	22
Client ID:	GW0022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_034.d
Lims ID: 460-68263-A-7 MS Lab Sample ID: 480-68263-7
Client ID:
Sample Type: MS
Inject. Date: 17-Dec-2013 21:14:43 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 034 Name: 480-0028207-023
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:22

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.707	1.613	2.303	103647	5.29	4.77		1 Fluoride
2.457	2.333	3.480	1255224	64.10	4.64		2 Chloride
3.747	3.593	3.933	19771	1.01	7.69		3 Bromide
4.057	3.933	4.757	132376	6.76	8.08		
4.933	4.757	5.507	445224	22.73	11.53		5 Sulfate
7.347	7.207	7.677	2102	0.11	10.01		
			1958344			Totals	

Total Unknown Area% = 0.11

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_034.d
Lims ID: 460-68263-A-7 MS Lab Sample ID: 480-68263-7
Client ID:
Sample Type: MS
Inject. Date: 17-Dec-2013 21:14:43 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 034 Name: 480-0028207-023
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

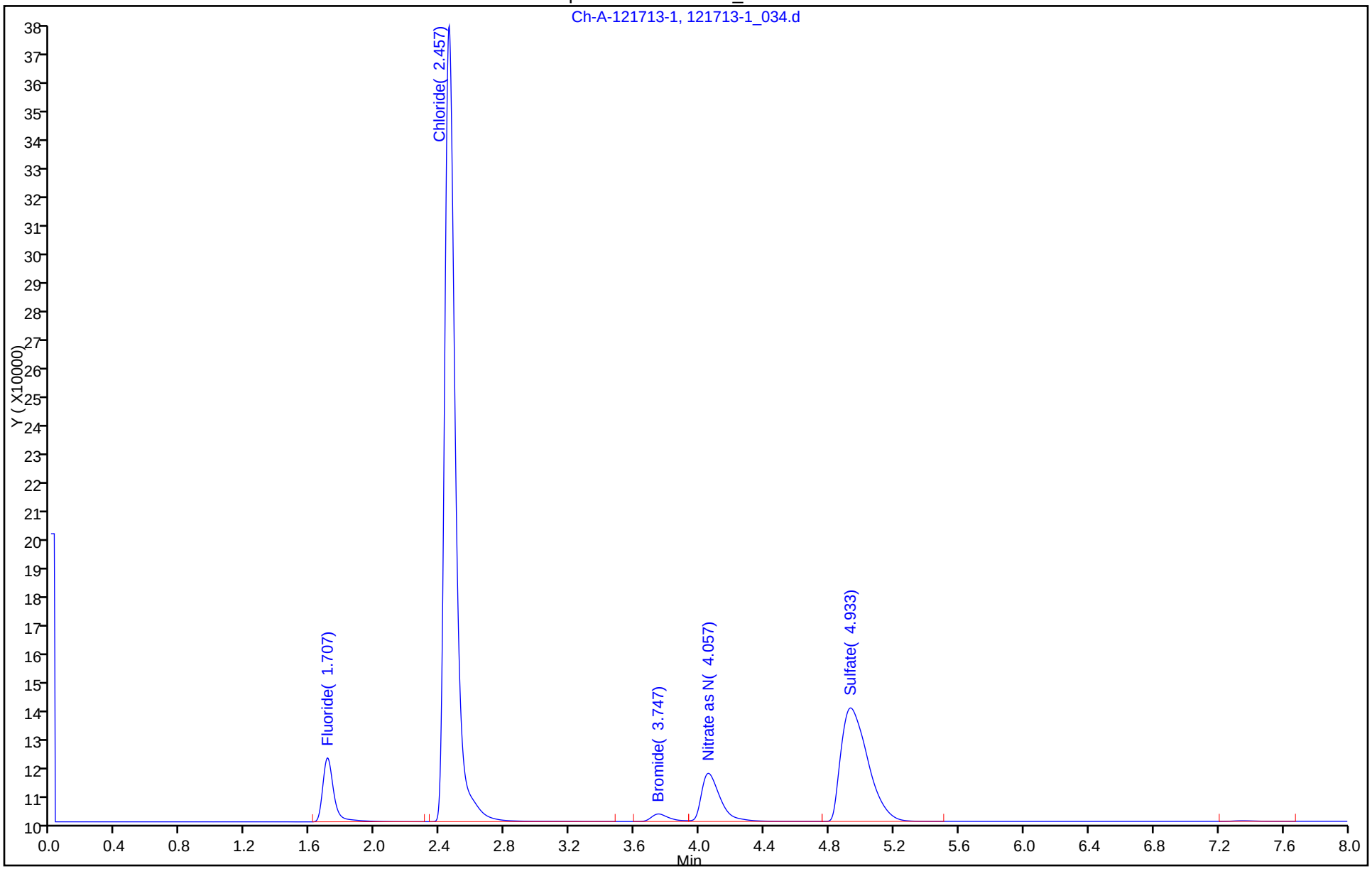
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.707	1.723	-0.016	103647	3.45	
2 Chloride					
2.457	2.487	-0.030	1255224	67.3	
3 Bromide					
3.747	3.907	-0.160	19771	2.49	
4 Nitrate as N					
4.057	4.150	-0.093	132376	0	
5 Sulfate					
4.933	4.997	-0.064	445224	32.3	

Report Date: 18-Dec-2013 09:26:22 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_034.d				
Injection Date:	17-Dec-2013 21:14:43	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-7 MS	Lab Sample ID:	480-68263-7	Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_035.d
Lims ID: 460-68263-A-7 MSD Lab Sample ID: 480-68263-7
Client ID:
Sample Type: MSD
Inject. Date: 17-Dec-2013 21:24:50 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 035 Name: 480-0028207-024
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:13 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:24

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.707	1.613	2.337	103864	5.28	4.69		1 Fluoride
2.453	2.337	3.507	1258388	64.01	4.40		2 Chloride
3.743	3.597	3.933	20319	1.03	7.05		3 Bromide
4.050	3.933	4.760	133237	6.78	7.65		
4.923	4.760	5.500	448142	22.79	10.51		5 Sulfate
7.347	7.200	7.650	2037	0.10	9.30		
			1965987			Totals	

Total Unknown Area% = 0.10

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

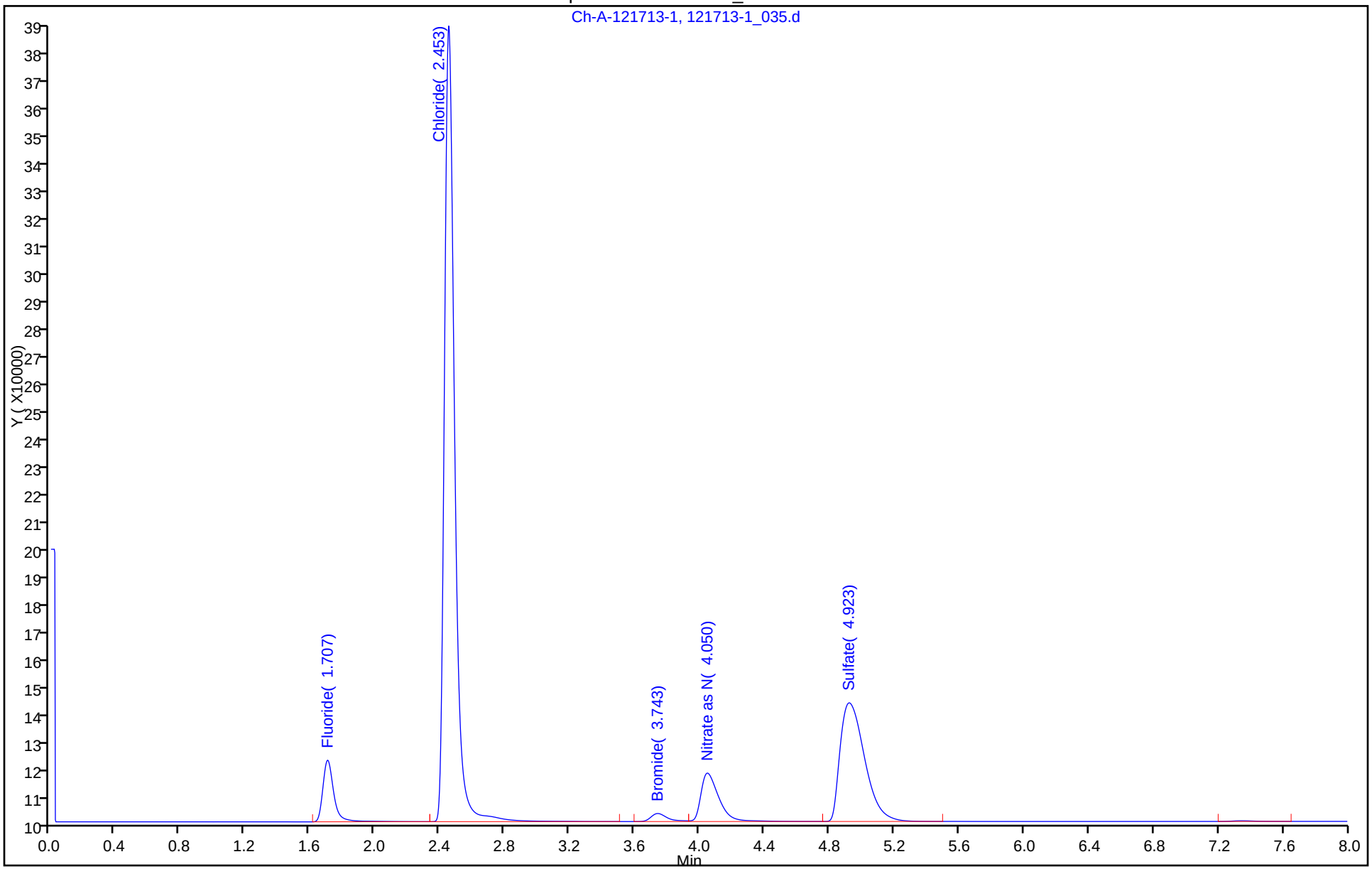
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_035.d				
Lims ID:	460-68263-A-7 MSD	Lab Sample ID:	480-68263-7		
Client ID:					
Sample Type:	MSD				
Inject. Date:	17-Dec-2013 21:24:50	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 035 Name: 480-0028207-024				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:13	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:24		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.707	1.723	-0.016	103864	3.45	
2 Chloride					
2.453	2.487	-0.034	1258388	67.5	
3 Bromide					
3.743	3.907	-0.164	20319	2.56	
4 Nitrate as N					
4.050	4.150	-0.100	133237	0	
5 Sulfate					
4.923	4.997	-0.074	448142	32.5	

Report Date: 18-Dec-2013 09:26:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_035.d				
Injection Date:	17-Dec-2013 21:24:50	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-7 MSD	Lab Sample ID:	480-68263-7	Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.707	1.613	2.177	59649	7.35	4.17		1 Fluoride
2.460	2.337	3.360	371080	45.74	4.13		2 Chloride
3.870	3.743	4.003	14818	1.83	4.76		3 Bromide
4.113	4.003	4.797	91184	11.24	5.99		
4.953	4.797	5.593	274338	33.82	8.53		5 Sulfate
7.373	7.280	7.600	220	0.03	8.15		
			811289			Totals	

Total Unknown Area% = 0.03

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	1.98	29825	-0.8	10
2 Chloride	20.0	0.0	19.9	18554	-0.6	10
3 Bromide	2.00	0.0	1.86	7409.00	-6.8	10
5 Sulfate	20.0	0.0	19.9	13717	-0.6	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

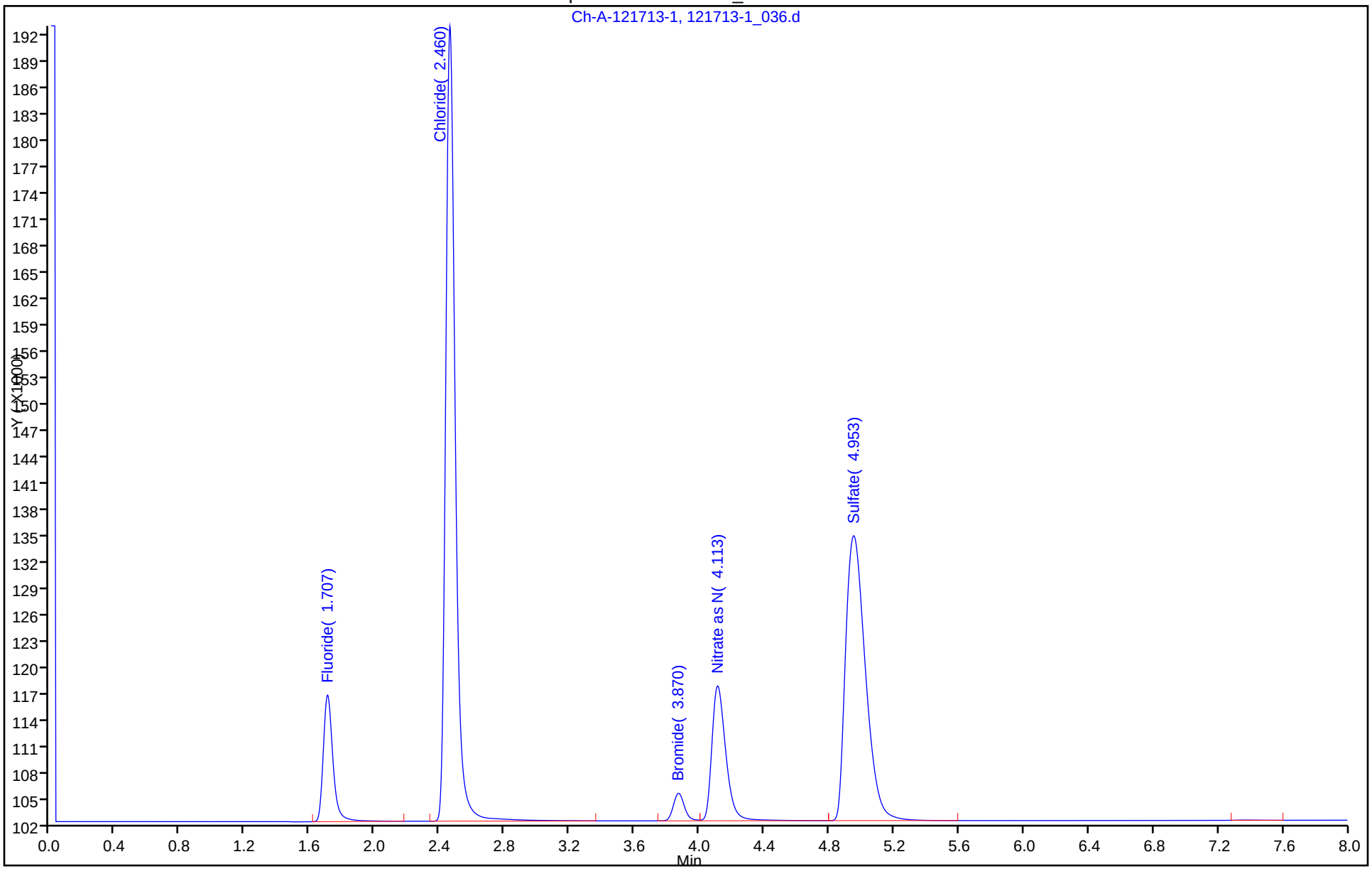
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.707	1.707	0.0	59649	1.98	
2 Chloride					
2.460	2.460	0.0	371080	19.9	
3 Bromide					
3.870	3.870	0.0	14818	1.86	
4 Nitrate as N					
4.113	4.113	0.0	91184	0	
5 Sulfate					
4.953	4.953	0.0	274338	19.9	

Report Date: 18-Dec-2013 09:26:32 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d				
Injection Date:	17-Dec-2013 21:34:58	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.707	1.613	2.177	59649	7.35	4.17		1 Fluoride
2.460	2.337	3.360	371080	45.74	4.13		2 Chloride
3.870	3.743	4.003	14818	1.83	4.76		3 Bromide
4.113	4.003	4.797	91184	11.24	5.99		
4.953	4.797	5.593	274338	33.82	8.53		5 Sulfate
7.373	7.280	7.600	220	0.03	8.15		
			811289			Totals	

Total Unknown Area% = 0.03

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	1.98	29825	-0.8	10
2 Chloride	20.0	0.0	19.9	18554	-0.6	10
3 Bromide	2.00	0.0	1.86	7409.00	-6.8	10
5 Sulfate	20.0	0.0	19.9	13717	-0.6	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 21:34:58 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 036 Name: 480-0028207-025
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

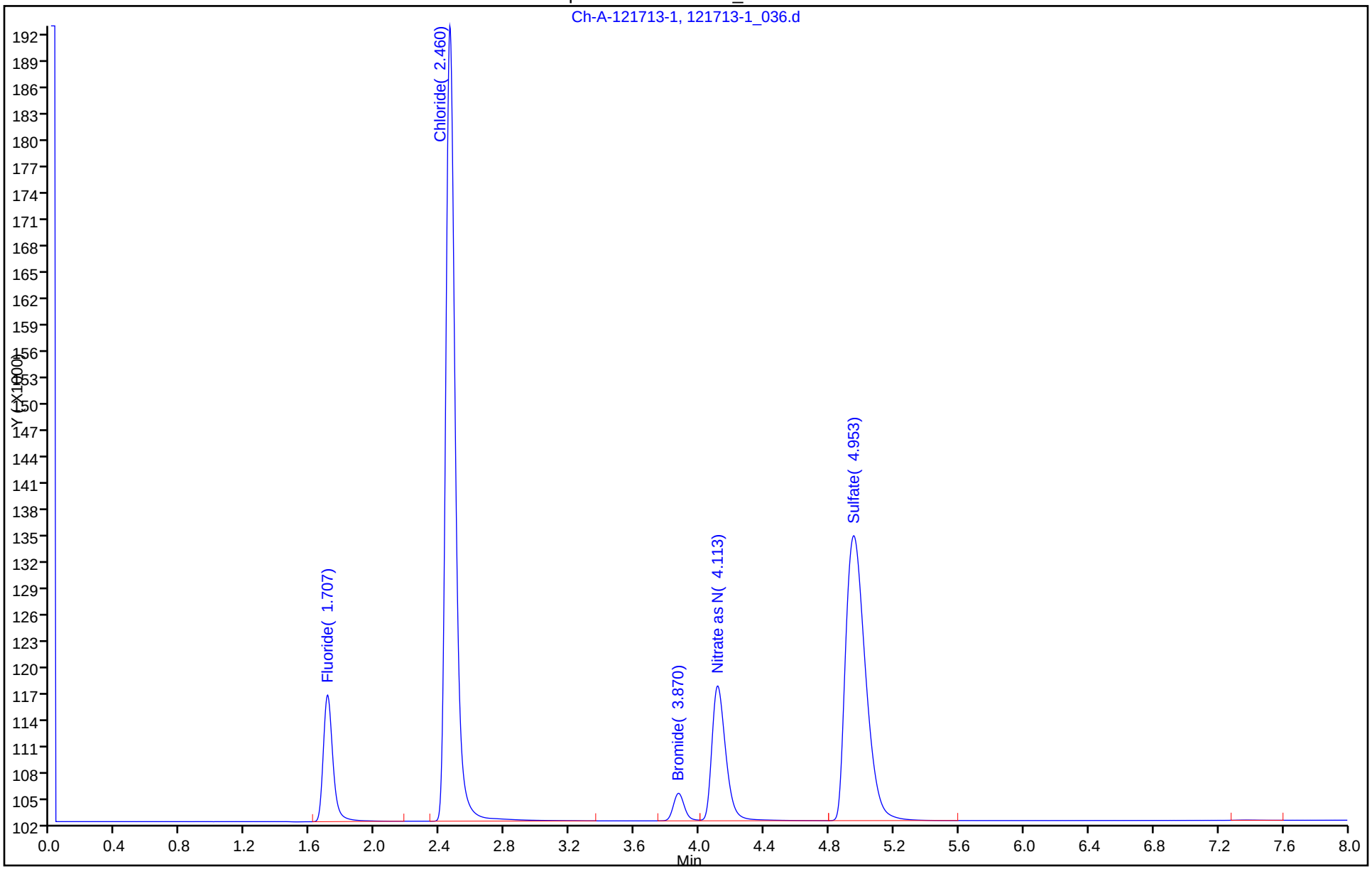
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.707	1.707	0.0	59649	1.98	
2 Chloride					
2.460	2.460	0.0	371080	19.9	
3 Bromide					
3.870	3.870	0.0	14818	1.86	
4 Nitrate as N					
4.113	4.113	0.0	91184	0	
5 Sulfate					
4.953	4.953	0.0	274338	19.9	

Report Date: 18-Dec-2013 09:26:32 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_036.d				
Injection Date:	17-Dec-2013 21:34:58	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d
Lims ID: CCB Lab Sample ID: CCB 480-158056/26-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 21:45:06 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 480-0028207-026
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:36

Detector: Ch-A-092410-2
Number of peaks found: 3

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.460	2.373	2.657	2901	54.77	3.75		2 Chloride
4.150	4.047	4.353	1023	19.31	5.01		
5.027	4.920	5.223	1373	25.92	6.13		5 Sulfate
			5297			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

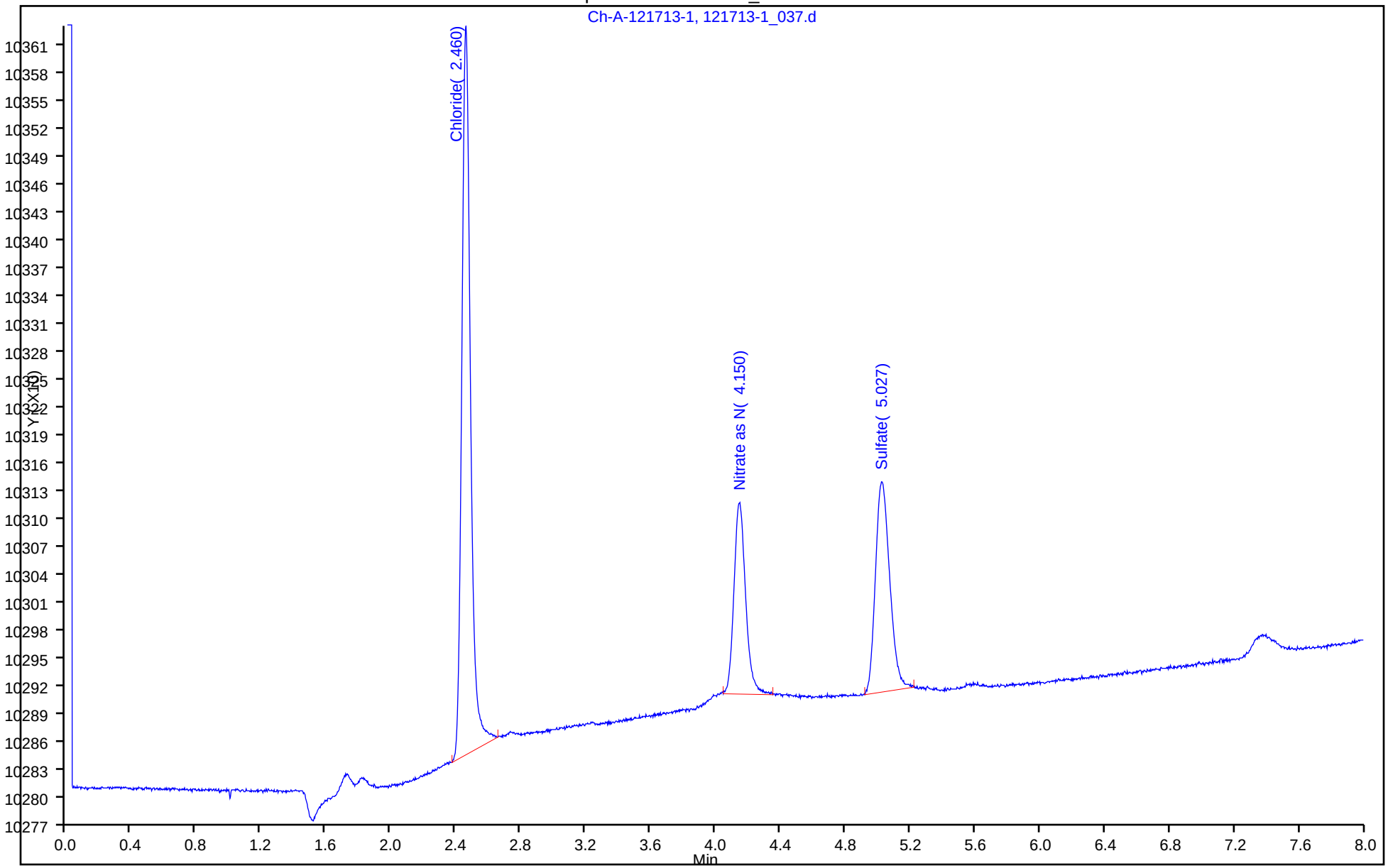
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/26-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 21:45:06	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 480-0028207-026				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:32	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:36		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.460	2.460	0.0	2901	0.1236	
4 Nitrate as N					
4.150	4.113	0.037	1023	0	
5 Sulfate					
5.027	4.953	0.074	1373	0.0680	

Report Date: 18-Dec-2013 09:26:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d				
Injection Date:	17-Dec-2013 21:45:06	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/26-A	Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d
Lims ID: CCB Lab Sample ID: CCB 480-158056/26-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 21:45:06 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 480-0028207-026
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:36

Detector: Ch-A-092410-2
Number of peaks found: 3

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.460	2.373	2.657	2901	54.77	3.75		2 Chloride
4.150	4.047	4.353	1023	19.31	5.01		
5.027	4.920	5.223	1373	25.92	6.13		5 Sulfate
			5297			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

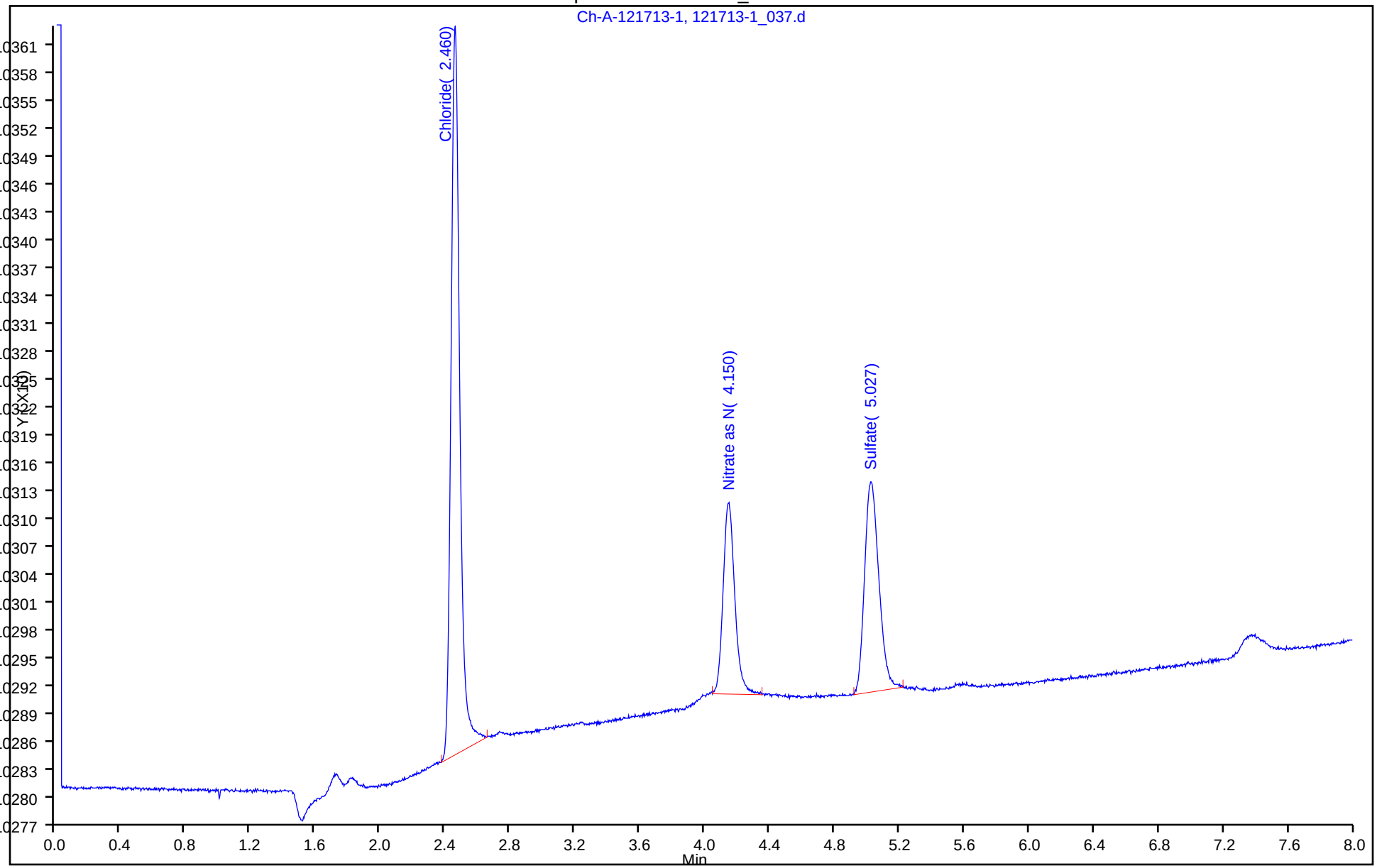
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/26-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 21:45:06	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 480-0028207-026				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:32	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:36		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.460	2.460	0.0	2901	0.1236	
4 Nitrate as N					
4.150	4.113	0.037	1023	0	
5 Sulfate					
5.027	4.953	0.074	1373	0.0680	

Report Date: 18-Dec-2013 09:26:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_037.d				
Injection Date:	17-Dec-2013 21:45:06	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/26-A	Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_038.d
Lims ID: LCS Lab Sample ID: LCS 480-158056/27-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2013 21:55:14 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 480-0028207-027
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:39

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.703	1.613	2.163	59823	7.38	4.13		1 Fluoride
2.457	2.347	3.357	370427	45.68	4.07		2 Chloride
3.863	3.750	3.997	14866	1.83	4.68		3 Bromide
4.103	3.997	4.767	91002	11.22	5.91		
4.937	4.790	5.537	274774	33.89	8.14		5 Sulfate
			810892			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_038.d
Lims ID: LCS Lab Sample ID: LCS 480-158056/27-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2013 21:55:14 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 480-0028207-027
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

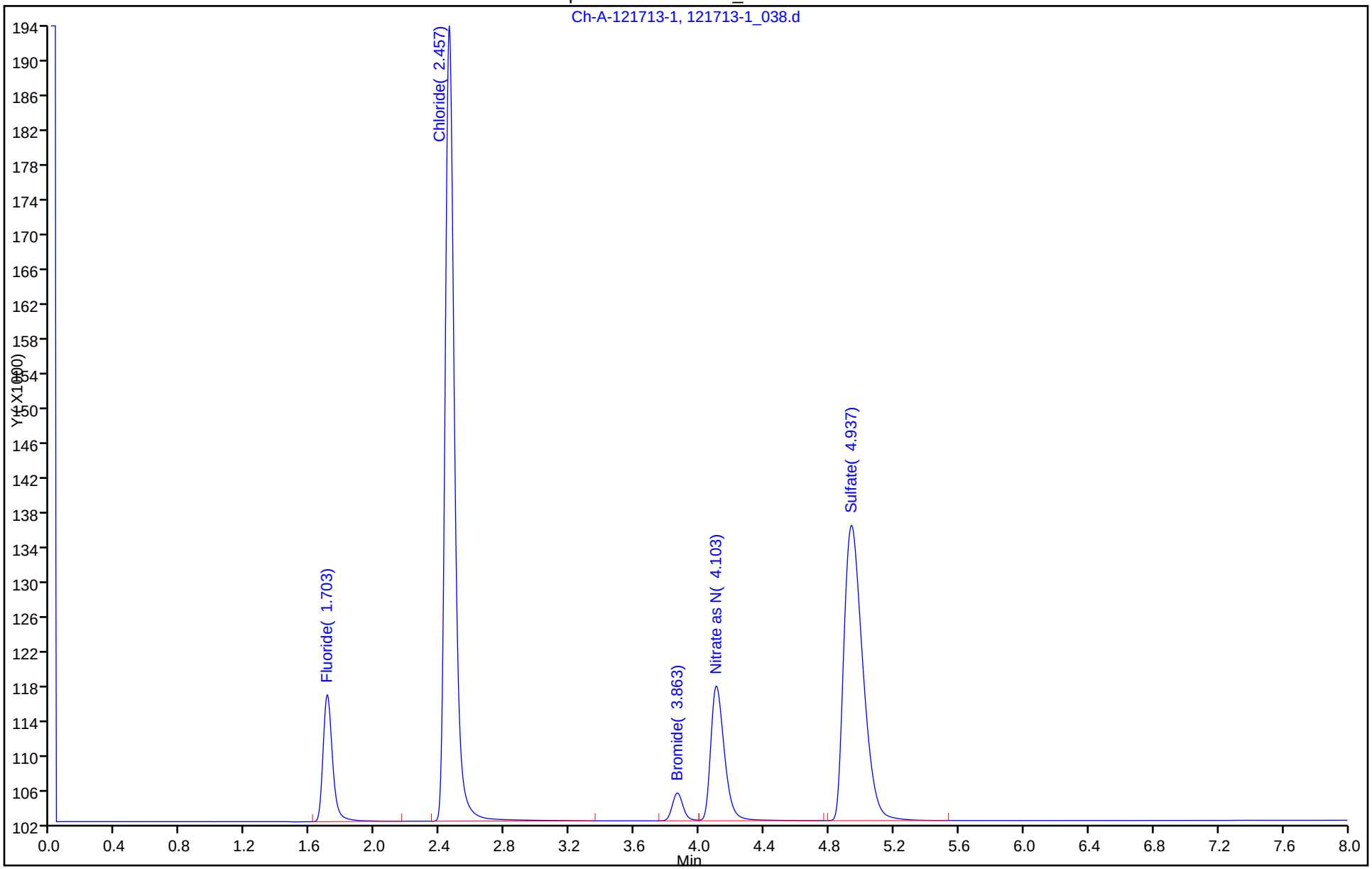
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.703	1.707	-0.004	59823	1.99	
2 Chloride					
2.457	2.460	-0.003	370427	19.8	
3 Bromide					
3.863	3.870	-0.007	14866	1.87	
4 Nitrate as N					
4.103	4.113	-0.010	91002	0	
5 Sulfate					
4.937	4.953	-0.016	274774	19.9	

Report Date: 18-Dec-2013 09:26:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_038.d				
Injection Date:	17-Dec-2013 21:55:14	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	LCS	Lab Sample ID:	LCS 480-158056/27-A	Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_039.d
Lims ID: MB Lab Sample ID: MB 480-158056/28-A
Client ID:
Sample Type: MB
Inject. Date: 17-Dec-2013 22:05:22 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 039 Name: 480-0028207-028
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:26:32 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:26:41

Detector: Ch-A-092410-2
Number of peaks found: 0

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
			0			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_039.d				
Lims ID:	MB	Lab Sample ID:	MB 480-158056/28-A		
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Dec-2013 22:05:22	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 039 Name: 480-0028207-028				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:26:32	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:26:41		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags

Report Date: 18-Dec-2013 09:26:41 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_039.d				
Injection Date:	17-Dec-2013 22:05:22	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	MB	Lab Sample ID:	MB 480-158056/28-A	Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		

TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_040.d
Lims ID: 460-68263-A-8 Lab Sample ID: 480-68263-8
Client ID: GW0023
Sample Type: Client
Inject. Date: 17-Dec-2013 22:15:30 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 040 Name: 480-0028207-029
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:48:26 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:28:58

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.697	1.613	2.123	43041	2.41	4.06		1 Fluoride
2.440	2.320	3.567	1607192	90.06	4.15		2 Chloride
3.740	3.593	4.080	3758	0.21	9.81		
4.960	4.817	5.503	128299	7.19	6.58		5 Sulfate
7.320	7.187	7.763	2367	0.13	8.31		
			1784657			Totals	

Total Unknown Area% = 0.34

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

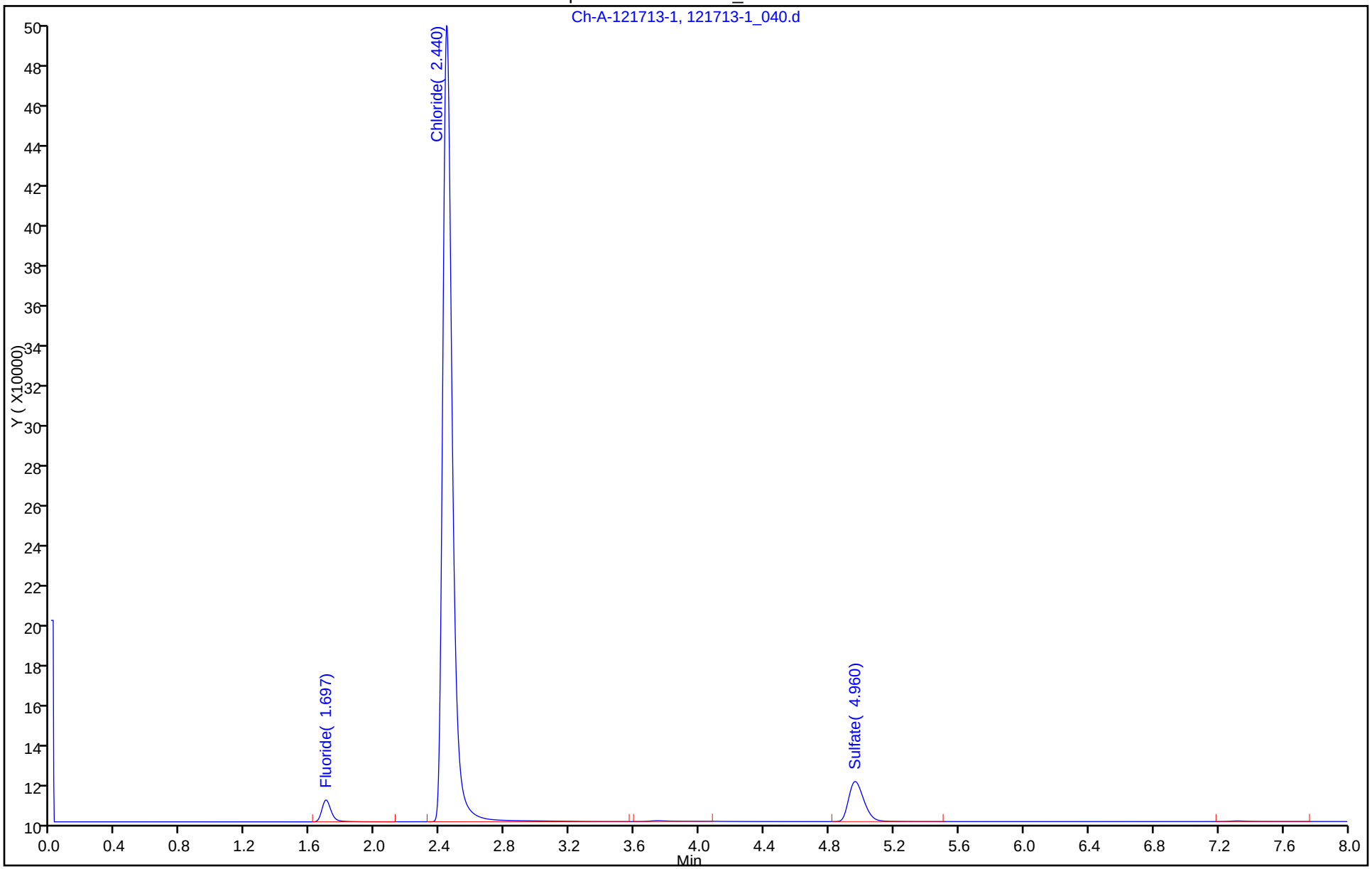
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_040.d				
Lims ID:	460-68263-A-8	Lab Sample ID:	480-68263-8		
Client ID:	GW0023				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 22:15:30	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 040 Name: 480-0028207-029				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:48:26	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:28:58		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.697	1.717	-0.020	43041	1.43	
2 Chloride					
2.440	2.460	-0.020	1607192	86.2	
5 Sulfate					
4.960	4.833	0.127	128299	9.28	

Report Date: 18-Dec-2013 09:49:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_040.d				
Injection Date:	17-Dec-2013 22:15:30	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-8	Lab Sample ID:	480-68263-8	Worklist Smp#:	29
Client ID:	GW0023				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_041.d
Lims ID: 460-68263-A-9 Lab Sample ID: 480-68263-9
Client ID: GW0024
Sample Type: Client
Inject. Date: 17-Dec-2013 22:25:38 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 041 Name: 480-0028207-030
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:31:14 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:32:03

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.687	1.620	1.923	2151	0.19	3.58		1 Fluoride
2.443	2.323	3.540	905203	78.01	4.09		2 Chloride
3.890	3.693	3.960	1358	0.12	11.13		
4.080	3.960	4.380	48842	4.21	6.07		
4.933	4.783	5.477	201519	17.37	7.11		5 Sulfate
7.323	7.193	7.647	1262	0.11	8.53		
			1160335			Totals	

Total Unknown Area% = 0.23

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

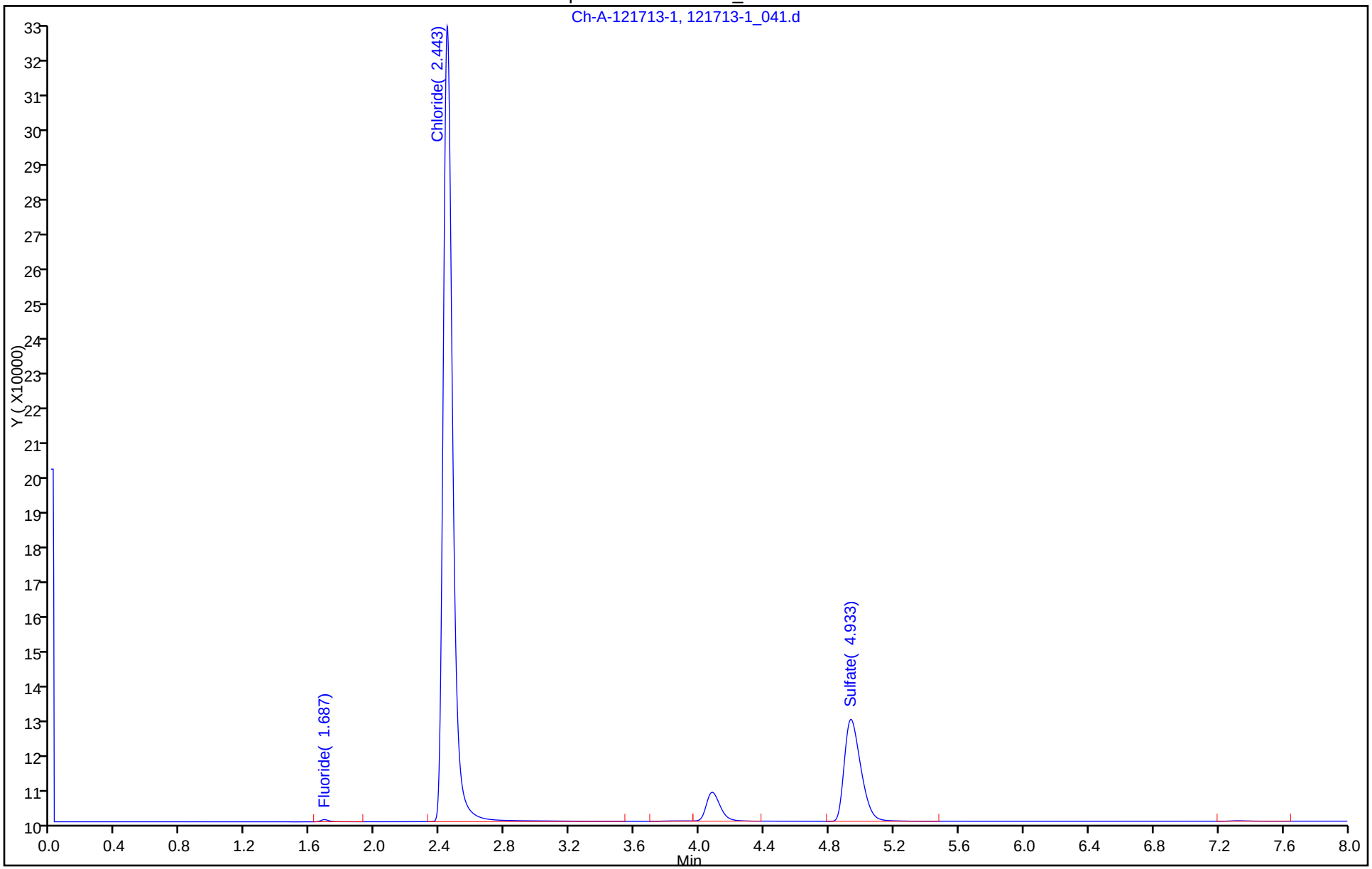
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_041.d				
Lims ID:	460-68263-A-9	Lab Sample ID:	480-68263-9		
Client ID:	GW0024				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 22:25:38	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 041 Name: 480-0028207-030				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:31:14	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:32:03		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.687	1.707	-0.020	2151	0.0715	
2 Chloride					
2.443	2.460	-0.017	905203	48.6	
5 Sulfate					
4.933	4.953	-0.020	201519	14.6	

Report Date: 18-Dec-2013 09:32:03 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_041.d				
Injection Date:	17-Dec-2013 22:25:38	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-9	Lab Sample ID:	480-68263-9	Worklist Smp#:	30
Client ID:	GW0024				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_042.d
Lims ID: 460-68263-A-10 Lab Sample ID: 480-68263-10
Client ID: GW0025
Sample Type: Client
Inject. Date: 17-Dec-2013 22:35:46 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 042 Name: 480-0028207-031
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:32:10 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:32:10

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.693	1.613	2.063	15613	1.29	3.74		1 Fluoride
2.443	2.320	3.407	873156	72.04	4.05		2 Chloride
3.780	3.630	3.960	2764	0.23	13.82		
4.083	3.960	4.767	28380	2.34	6.16		
4.913	4.767	5.460	290638	23.98	7.81		5 Sulfate
7.320	7.183	7.760	1499	0.12	8.92		
			1212050			Totals	

Total Unknown Area% = 0.35

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

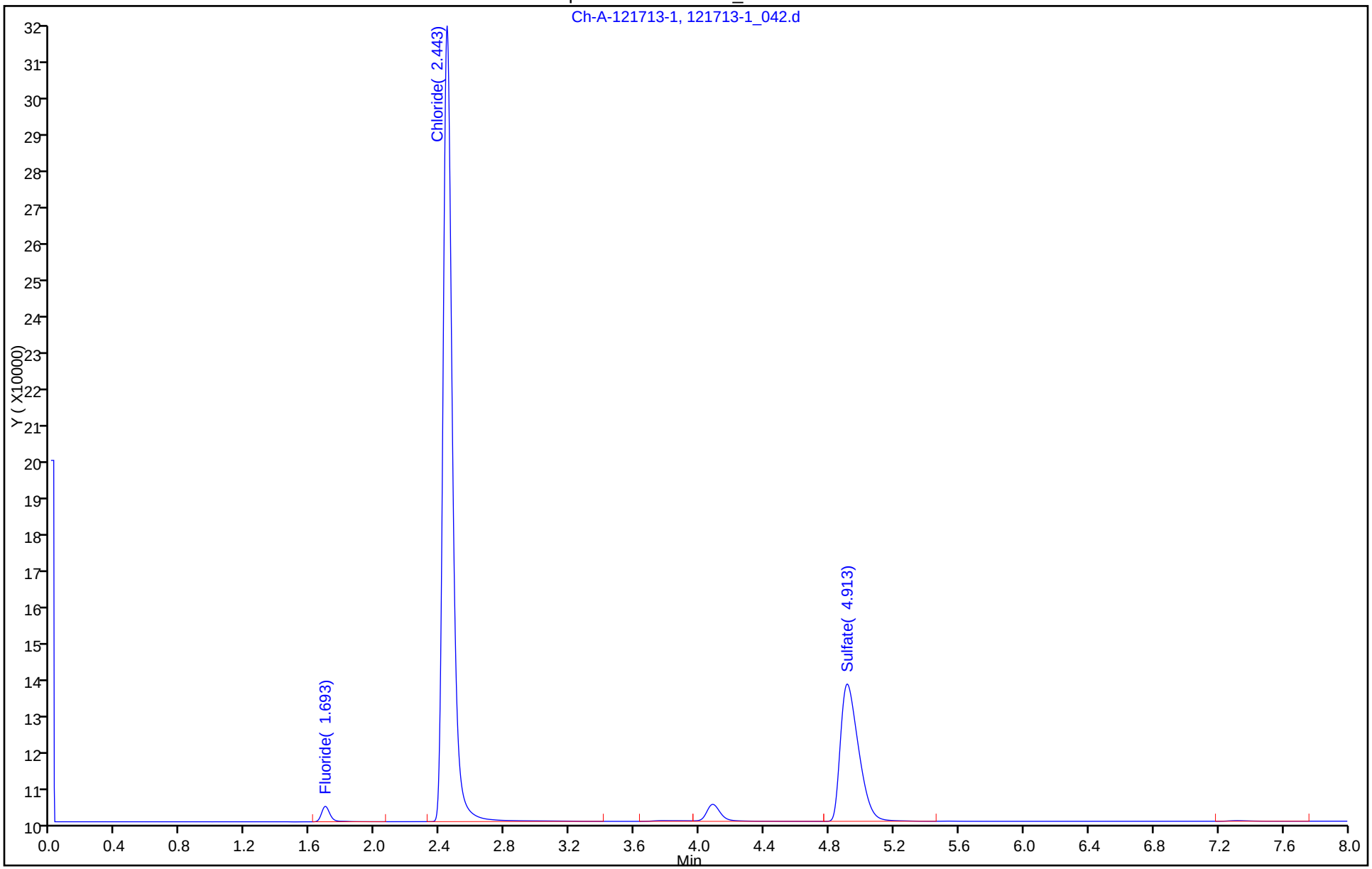
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_042.d				
Lims ID:	460-68263-A-10	Lab Sample ID:	480-68263-10		
Client ID:	GW0025				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 22:35:46	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 042 Name: 480-0028207-031				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:32:10	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:32:10		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.693	1.707	-0.014	15613	0.5193	
2 Chloride					
2.443	2.460	-0.017	873156	46.8	
5 Sulfate					
4.913	4.953	-0.040	290638	21.1	

Report Date: 18-Dec-2013 09:32:10 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_042.d				
Injection Date:	17-Dec-2013 22:35:46	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-10	Lab Sample ID:	480-68263-10	Worklist Smp#:	31
Client ID:	GW0025				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_043.d
Lims ID: 460-68263-A-11 Lab Sample ID: 480-68263-11
Client ID: GW0026
Sample Type: Client
Inject. Date: 17-Dec-2013 22:45:54 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 043 Name: 480-0028207-032
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:52:39 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:52:39

Detector: Ch-A-092410-2
Number of peaks found: 6

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.693	1.613	2.057	18961	1.54	3.71		1 Fluoride
2.443	2.327	3.547	928145	75.21	4.03		2 Chloride
3.767	3.583	3.983	3780	0.31	13.75		
4.097	3.983	4.703	16322	1.32	5.95		
4.880	4.740	5.720	264402	21.42	7.42		5 Sulfate
7.247	7.117	7.600	2473	0.20	8.08		
			1234083			Totals	

Total Unknown Area% = 0.51

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

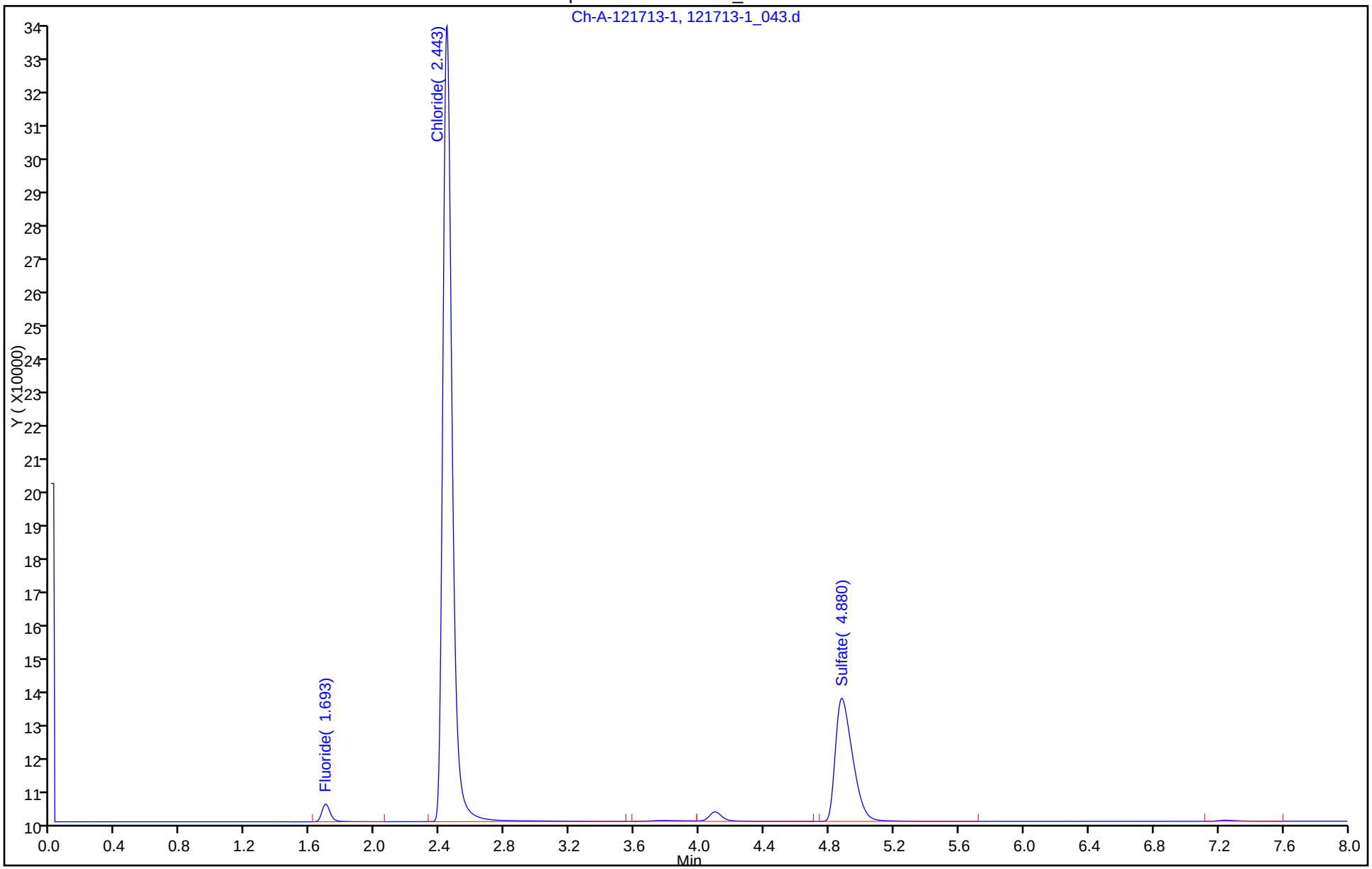
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_043.d				
Lims ID:	460-68263-A-11	Lab Sample ID:	480-68263-11		
Client ID:	GW0026				
Sample Type:	Client				
Inject. Date:	17-Dec-2013 22:45:54	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 043 Name: 480-0028207-032				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:52:39	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:52:39		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.693	1.717	-0.024	18961	0.6307	
2 Chloride					
2.443	2.460	-0.017	928145	49.8	
5 Sulfate					
4.880	4.833	0.047	264402	19.2	

Report Date: 18-Dec-2013 09:52:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_043.d				
Injection Date:	17-Dec-2013 22:45:54	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	460-68263-A-11	Lab Sample ID:	480-68263-11	Worklist Smp#:	32
Client ID:	GW0026				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_048.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 23:36:33 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 048 Name: 480-0028207-037
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:34:49 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:34:49

Detector: Ch-A-092410-2
Number of peaks found: 5

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.717	1.623	2.150	60599	7.40	3.99		1 Fluoride
2.460	2.357	3.390	374128	45.70	3.91		2 Chloride
3.877	3.757	4.013	15229	1.86	4.48		3 Bromide
4.117	4.013	4.690	91665	11.20	5.81		
4.833	4.690	5.763	277011	33.84	7.32		5 Sulfate
			818632			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_048.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 23:36:33 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 048 Name: 480-0028207-037
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:34:49 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:34:49

Start Cal Date: 17-Dec-2013 15:19:57
End Cal Date: 17-Dec-2013 16:20:44

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D
1 Fluoride	2.00	0.0	2.02	30300	0.8	10
2 Chloride	20.0	0.0	20.0	18706	0.2	10
3 Bromide	2.00	0.0	1.92	7614.50	-4.2	10
5 Sulfate	20.0	0.0	20.1	13851	0.4	10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_048.d
Lims ID: CCV Lab Sample ID:
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2013 23:36:33 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 048 Name: 480-0028207-037
Operator ID: TCHROM Instrument ID: IC-1
Sublist: chrom-IC1-300*sub2

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:34:49 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d

Column 1 : Detector Ch-A-092410-2
Process Host: XAWRK024

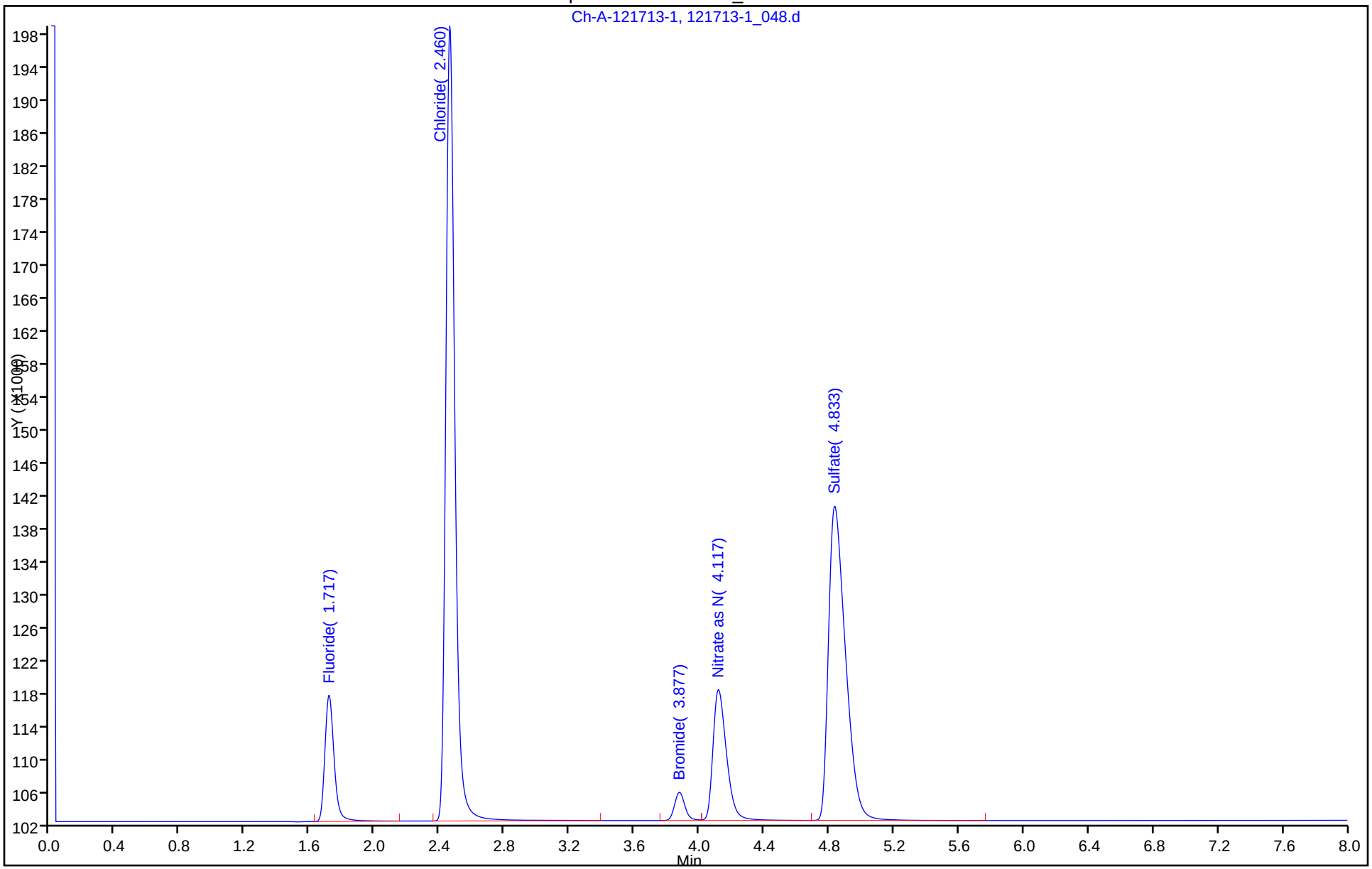
First Level Reviewer: cudneyk Date: 18-Dec-2013 09:34:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
1 Fluoride					
1.717	1.717	0.0	60599	2.02	
2 Chloride					
2.460	2.460	0.0	374128	20.0	
3 Bromide					
3.877	3.877	0.0	15229	1.92	
4 Nitrate as N					
4.117	4.117	0.0	91665	0	
5 Sulfate					
4.833	4.833	0.0	277011	20.1	

Report Date: 18-Dec-2013 09:34:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_048.d				
Injection Date:	17-Dec-2013 23:36:33	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCV	Lab Sample ID:		Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



TestAmerica Buffalo
Area/Height Percent Report

Data File: \\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_049.d
Lims ID: CCB Lab Sample ID: CCB 480-158056/38-A
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2013 23:46:41 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 049 Name: 480-0028207-038
Operator ID: TCHROM Instrument ID: IC-1

Method: \\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 18-Dec-2013 09:34:49 Calib Date: 17-Dec-2013 16:20:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d
Process Host: XAWRK024

First Level Reviewer: cudneyk Date: 18-Dec-2013 09:34:52

Detector: Ch-A-092410-2
Number of peaks found: 0

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
			0			Totals	

Total Unknown Area% = 0.00

Flag Legend
M - Manually Integrated
A - User Assigned Compound
B - Overlapped Base Peak
O - Overlapping Peak
e - Potential Peak Saturation

TestAmerica Buffalo
Target Compound Quantitation Report

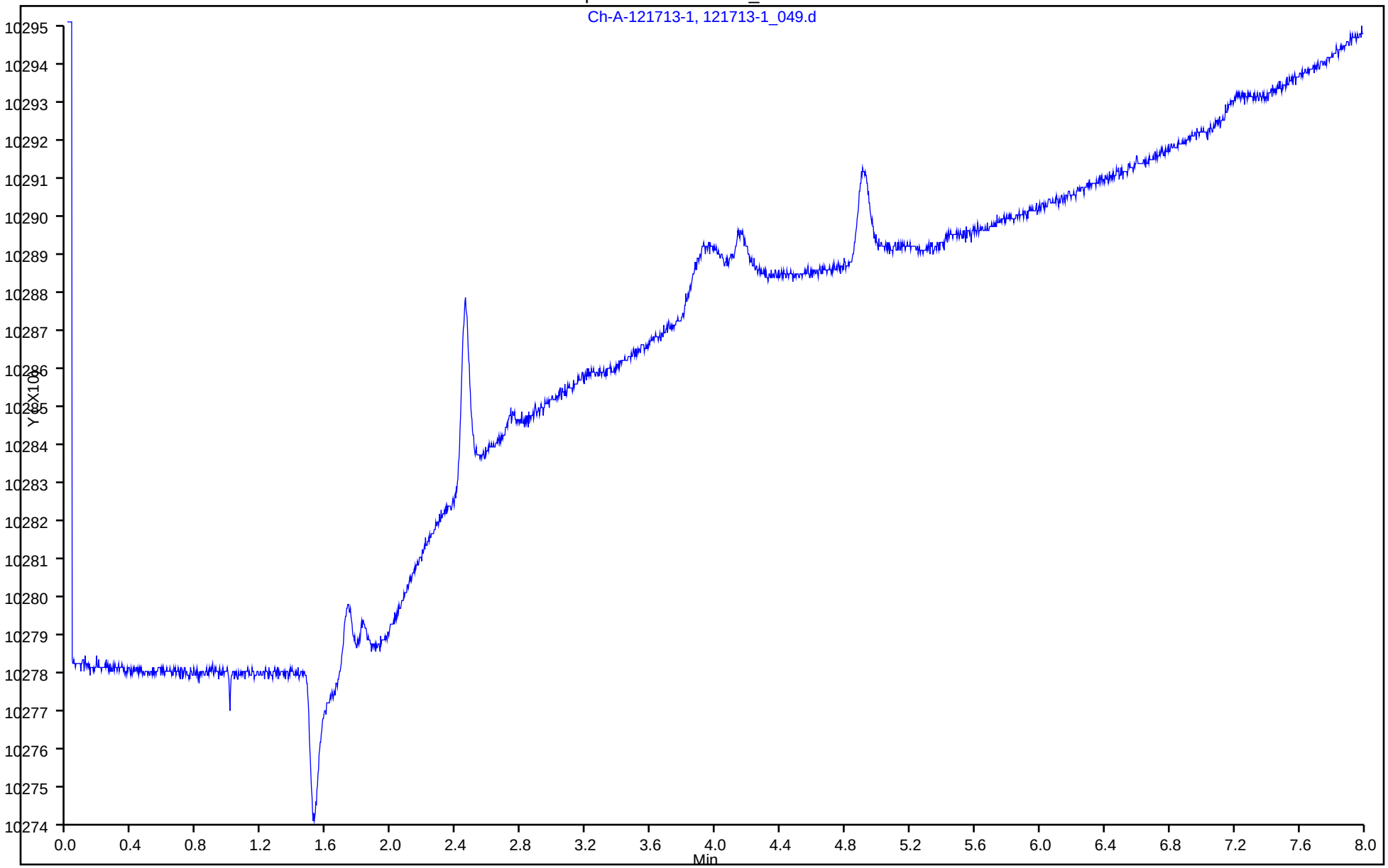
Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_049.d				
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/38-A		
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2013 23:46:41	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 049 Name: 480-0028207-038				
Operator ID:	TCHROM	Instrument ID:	IC-1		
Method:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\IC1-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	18-Dec-2013 09:34:49	Calib Date:	17-Dec-2013 16:20:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\IC-1\20131217-28206.b\121713-1_007.d				
Column 1 :		Detector	Ch-A-092410-2		
Process Host:	XAWRK024				
First Level Reviewer: cudneyk		Date:	18-Dec-2013 09:34:52		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags

Report Date: 18-Dec-2013 09:34:52 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-1\20131217-28207.b\121713-1_049.d				
Injection Date:	17-Dec-2013 23:46:41	Instrument ID:	IC-1	Operator ID:	TCHROM
Lims ID:	CCB	Lab Sample ID:	CCB 480-158056/38-A	Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC1-300	Limit Group:	MB 300.0_28D ICAL		



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 197566 Batch Start Date: 12/13/13 09:54 Batch Analyst: Leye, Mamadou

Batch Method: 353.2 Batch End Date: 12/13/13 11:18

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTno3+2IM2 00242	WTno3LCS 00014	WTntritLCS 00020	AnalysisComment	
ICV 460-197566/7		353.2		100 mL	5 mL				
CCV 460-197566/55		353.2		100 mL	5 mL				
LCSSRM 460-197566/63		353.2		10 mL			10 mL		
LCSSRM 460-197566/64		353.2		10 mL		10 mL			
CCV 460-197566/67		353.2		100 mL	5 mL				
460-68263-A-1	GW0016	353.2	T					closing CCV failed for NO3	
460-68263-A-2	GW0017	353.2	T					closing CCV failed for NO3	
CCV 460-197566/79		353.2		100 mL	5 mL				

Batch Notes	
Batch Comment	A(58739-58744)-13 ; A(58745)-13 exp 12/14/13
Buffer Solution ID	C0124-13 exp 06/06/14
Color Reagent ID Number	C0123-13 exp 01/06/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 200863 Batch Start Date: 12/31/13 13:53 Batch Analyst: Brown, Sarah E

Batch Method: 353.2 Batch End Date: 12/31/13 16:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTno3+2IM1 00240	WTno3+2IM2 00245	WTno3LCS 00014	WTntritLCS 00020	
ICV 460-200863/7		353.2		100 mL		5 mL			
LCSSRM 460-200863/10		353.2		10 mL				10 mL	
LCSSRM 460-200863/11		353.2		10 mL			10 mL		
CCV 460-200863/19		353.2		100 mL		5 mL			
460-68263-C-3 MS	GW0018	353.2	T	50 mL	2.5 mL				
460-68263-C-3 MSD	GW0018	353.2	T	50 mL	2.5 mL				
CCV 460-200863/31		353.2		100 mL		5 mL			

Batch Notes	
Batch Comment	Cal. curve: A(58784-58789)13, CCV: A(58790)13 exp. 01/07/14
Buffer Solution ID	C0190-13 exp. 06/30/14
Color Reagent ID Number	C0189-13 exp. 01/30/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 201031 Batch Start Date: 01/02/14 12:18 Batch Analyst: Brown, Sarah E

Batch Method: 353.2 Batch End Date: 01/02/14 12:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTno3+2IM1 00240	WTno3+2IM2 00245	WTno3LCS 00014	AnalysisComment	
ICV 460-201031/7		353.2		100 mL		5 mL			
LCSSRM 460-201031/11		353.2		10 mL			10 mL		
460-68263-C-1	GW0016	353.2	T					preserved volume, report NO3-NO2 only	
460-68263-C-2	GW0017	353.2	T					preserved volume, report NO3-NO2 only	
460-68263-C-1 MS	GW0016	353.2	T	50 mL	2.5 mL			preserved volume, report NO3-NO2 only	
460-68263-C-1 MSD	GW0016	353.2	T	50 mL	2.5 mL			preserved volume, report NO3-NO2 only	
CCV 460-201031/19		353.2		100 mL		5 mL			

Batch Notes	
Batch Comment	Cal. curve: A(58784-58789)13, CCV: A(58790)13 exp. 01/07/14
Buffer Solution ID	C0190-13 exp. 06/30/14
Color Reagent ID Number	C0189-13 exp. 01/30/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 200035 Batch Start Date: 12/26/13 11:00 Batch Analyst: Afremova, Izabella

Batch Method: SM 2340C Batch End Date: 12/26/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BuretStart1	BuretStop1	TitrantVolume1	CalcMsg
MB 460-200035/1		SM 2340C		50 mL	50 mL	0 mL	0 mL	0 mL	OK
LCSSRM 460-200035/2		SM 2340C		25 mL	50 mL	0 mL	5.1 mL	5.1 mL	OK
460-68263-E-11	GW0026	SM 2340C	T	50 mL	50 mL	0 mL	4.2 mL	4.2 mL	OK
460-68263-E-11 DU	GW0026	SM 2340C	T	50 mL	50 mL	0 mL	4.2 mL	4.2 mL	OK
460-68263-E-1	GW0016	SM 2340C	T	50 mL	50 mL	0 mL	6.1 mL	6.1 mL	OK
460-68263-E-2	GW0017	SM 2340C	T	50 mL	50 mL	0 mL	8.3 mL	8.3 mL	OK
460-68263-E-3	GW0018	SM 2340C	T	50 mL	50 mL	0 mL	8.2 mL	8.2 mL	OK
460-68263-E-4	GW0019	SM 2340C	T	50 mL	50 mL	0 mL	2.8 mL	2.8 mL	OK
460-68263-E-5	GW0020	SM 2340C	T	50 mL	50 mL	0 mL	0.9 mL	0.9 mL	OK
460-68263-E-6	GW0021	SM 2340C	T	50 mL	50 mL	0 mL	2.7 mL	2.7 mL	OK
460-68263-E-7	GW0022	SM 2340C	T	50 mL	50 mL	0 mL	2.6 mL	2.6 mL	OK
460-68263-E-8	GW0023	SM 2340C	T	50 mL	50 mL	0 mL	1.2 mL	1.2 mL	OK
460-68263-E-9	GW0024	SM 2340C	T	50 mL	50 mL	0 mL	5.2 mL	5.2 mL	OK
460-68263-E-10	GW0025	SM 2340C	T	50 mL	50 mL	0 mL	4.3 mL	4.3 mL	OK

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThardLCS0001 00012					
MB 460-200035/1		SM 2340C							
LCSSRM 460-200035/2		SM 2340C		25 mL					
460-68263-E-11	GW0026	SM 2340C	T						
460-68263-E-11 DU	GW0026	SM 2340C	T						
460-68263-E-1	GW0016	SM 2340C	T						
460-68263-E-2	GW0017	SM 2340C	T						
460-68263-E-3	GW0018	SM 2340C	T						
460-68263-E-4	GW0019	SM 2340C	T						
460-68263-E-5	GW0020	SM 2340C	T						
460-68263-E-6	GW0021	SM 2340C	T						
460-68263-E-7	GW0022	SM 2340C	T						
460-68263-E-8	GW0023	SM 2340C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 200035 Batch Start Date: 12/26/13 11:00 Batch Analyst: Afremova, Izabella

Batch Method: SM 2340C Batch End Date: 12/26/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	WThardLCS0001 00012					
460-68263-E-9	GW0024	SM 2340C	T						
460-68263-E-10	GW0025	SM 2340C	T						

Batch Notes	
Buffer Lot #	Fisher/132206 exp.05/31/15
EDTA Lot Number	AQUA SOLUTIONS/2111362 exp.05/31/15
Inhibitor 1 Lot #	Eriochrome Black-T indicator #C - 9981-13exp.04/16/14
Nominal Amount Used	50 mL
Perform Calculation (0=No, 1=Yes)	1
Normality of first Titrant	0.02 N
Titrant Standardization Date	STD exp.02/22/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 200246 Batch Start Date: 12/26/13 11:07 Batch Analyst: Cabanganan, Maria

Batch Method: SM 2320B Batch End Date: 12/26/13 14:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WTalkLCS 00093			
MB 460-200246/2		SM 2320B		InitialAmount is blank					
LCSSRM 460-200246/3		SM 2320B		InitialAmount is blank	25 mL	25 mL			
460-68260-G-1 DU		SM 2320B	T	InitialAmount is blank					
460-68263-F-1	GW0016	SM 2320B	T	InitialAmount is blank					
460-68263-F-2	GW0017	SM 2320B	T	InitialAmount is blank					
460-68263-F-3	GW0018	SM 2320B	T	InitialAmount is blank					
460-68263-F-5	GW0020	SM 2320B	T	InitialAmount is blank					

Batch Notes	
pH Buffer 1 ID	4buffer: 910104 exp. 07/2015 Thermo
pH Buffer 2 ID	7buffer: 133435 exp. 06/2015 Fisher
pH Buffer 3 ID	10buffer: 133437 xp. 06/2015 Fisher
Lot # of hydrochloric acid	A3283
HCl Vendor	HACH
Nominal Amount Used	25 mL
Normality of first Titrant	0.0198192 N
Titrant Standardization Date	prep: 11/20/13 exp. 02/2014

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 198189 Batch Start Date: 12/17/13 07:17 Batch Analyst: Staib, Patricia L

Batch Method: SM 2540D Batch End Date: 12/17/13 15:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2
MB 460-198189/1		SM 2540D		100 mL	a08TH 0.1214	0.1214 g	1000 mL	0.1217 g	0.1216 g
LCSSRM 460-198189/2		SM 2540D		100 mL	a08TI 0.1208	0.1208 g	50 mL	0.1243 g	0.1243 g
460-68392-A-5 DU		SM 2540D	T	100 mL	a08TV 0.1196	0.1196 g	50 mL	0.1266 g	0.1266 g
460-68263-G-1	GW0016	SM 2540D	T	100 mL	a08TZ 0.1246	0.1246 g	900 mL	0.1260 g	0.1259 g
460-68263-G-2	GW0017	SM 2540D	T	100 mL	a08U0 0.1181	0.1181 g	880 mL	0.1191 g	0.1189 g
460-68263-G-3	GW0018	SM 2540D	T	100 mL	a08U1 0.1184	0.1184 g	980 mL	0.1190 g	0.1191 g
460-68263-G-4	GW0019	SM 2540D	T	100 mL	a08U2 0.1175	0.1175 g	980 mL	0.1177 g	0.1176 g
460-68263-G-5	GW0020	SM 2540D	T	100 mL	a08U3 0.1197	0.1197 g	900 mL	0.1193 g	0.1195 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight3	WeightOne%Diff	WeightTwo%Diff	Residue	Residue2	Residue3
MB 460-198189/1		SM 2540D		0.1217 g	PASS <0.5mg	PASS <0.5mg	0.0003 g	0.0002 g	0.0003 g
LCSSRM 460-198189/2		SM 2540D		0.1243 g	PASS <0.5mg	PASS <0.5mg	0.0035 g	0.0035 g	0.0035 g
460-68392-A-5 DU		SM 2540D	T	0 g	PASS <0.5mg		0.007 g	0.007 g	
460-68263-G-1	GW0016	SM 2540D	T	0 g	PASS <0.5mg		0.0014 g	0.0013 g	
460-68263-G-2	GW0017	SM 2540D	T	0 g	PASS <0.5mg		0.001 g	0.0008 g	
460-68263-G-3	GW0018	SM 2540D	T	0 g	PASS <0.5mg		0.0006 g	0.0007 g	
460-68263-G-4	GW0019	SM 2540D	T	0 g	PASS <0.5mg		0.0002 g	0.0001 g	
460-68263-G-5	GW0020	SM 2540D	T	0 g	PASS <0.5mg		-0.0004 g	-0.0002 g	

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WTtssLCS 00045			
MB 460-198189/1		SM 2540D		0.1217 g	0.1214 g				
LCSSRM 460-198189/2		SM 2540D		0.1243 g	0.1208 g	50 mL			
460-68392-A-5 DU		SM 2540D	T	0.1266 g	0.1196 g				
460-68263-G-1	GW0016	SM 2540D	T	0.1259 g	0.1246 g				
460-68263-G-2	GW0017	SM 2540D	T	0.1189 g	0.1181 g				
460-68263-G-3	GW0018	SM 2540D	T	0.1191 g	0.1184 g				
460-68263-G-4	GW0019	SM 2540D	T	0.1176 g	0.1175 g				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 198189 Batch Start Date: 12/17/13 07:17 Batch Analyst: Staib, Patricia L

Batch Method: SM 2540D Batch End Date: 12/17/13 15:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WTtssLCS 00045			
460-68263-G-5	GW0020	SM 2540D	T	0.1195 g	0.1197 g				

Batch Notes	
Balance ID	27
Constant Weight (WT2) Date/Time in Oven	12-17-13@11:52
Constant Weight (WT2) Date/Time Out	12-17-13@12:59
Constant Weight (WT2) Temp In	104 Celsius
Constant Weight (WT2) Temp Out	104 Celsius
Uncorrected CW (Wt2) Temp In	102 Celsius
Uncorrected CW (Wt2) Temp Out	102 Celsius
Constant Weight (WT3) Date/time In	12-17-13@13:40
Constant Weight (WT3) Date/Time Out	12-17-13@14:48
Constant Weight (WT3) Temp In	104 Celsius
Constant Weight (WT3) Temp Out	104 Celsius
Uncorrected CW (Wt3) Temp In	102 Celsius
Uncorrected CW (Wt3) Temp Out	102 Celsius
Filter Paper Lot Number	EnviroExpress 60006 3281R2
Date samples were placed in the oven	12-17-13@7:55
Oven Temp when samples are put in oven	104 Celsius
Nominal Amount Used	100 mL
Date samples were removed from oven	12-17-13@9:02
Oven Temp when samples removed from oven	102 Celsius
Oven ID	36233
Perform Calculation (0=No, 1=Yes)	1
Uncorrected In Temperature	102 Celsius
Uncorrected Out Temperature	102 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 198448 Batch Start Date: 12/18/13 08:50 Batch Analyst: Staib, Patricia L

Batch Method: SM 2540D Batch End Date: 12/19/13 10:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2
MB 460-198448/1		SM 2540D		100 mL	a08RE 0.1218	0.1218 g	1000 mL	0.1218 g	0.1218 g
LCSSRM 460-198448/2		SM 2540D		100 mL	a08RF 0.1175	0.1175 g	50 mL	0.1213 g	0.1210 g
460-68392-A-3 DU		SM 2540D	T	100 mL	a08RH 0.1186	0.1186 g	100 mL	0.1297 g	0.1294 g
460-68263-F-6	GW0021	SM 2540D	T	100 mL	a08RN 0.1190	0.1190 g	460 mL	0.1190 g	0.1190 g
460-68263-F-7	GW0022	SM 2540D	T	100 mL	a08RO 0.1188	0.1188 g	460 mL	0.1199 g	0.1198 g
460-68263-F-8	GW0023	SM 2540D	T	100 mL	a08RP 0.1181	0.1181 g	480 mL	0.1183 g	0.1184 g
460-68263-F-9	GW0024	SM 2540D	T	100 mL	a08RQ 0.1197	0.1197 g	480 mL	0.1197 g	0.1197 g
460-68392-A-6 DU		SM 2540D	T	100 mL	a08RS 0.1170	0.1170 g	50 mL	0.1253 g	0.1253 g
460-68263-F-10	GW0025	SM 2540D	T	100 mL	a08RU 0.1211	0.1211 g	460 mL	0.1213 g	0.1211 g
460-68263-F-11	GW0026	SM 2540D	T	100 mL	a08RV 0.1200	0.1200 g	460 mL	0.1200 g	0.1203 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight3	WeightOne%Diff	WeightTwo%Diff	Residue	Residue2	Residue3
MB 460-198448/1		SM 2540D		0.1218 g	PASS <0.5mg	PASS <0.5mg	0 g	0 g	0 g
LCSSRM 460-198448/2		SM 2540D		0.1209 g	PASS <0.5mg	PASS <0.5mg	0.0038 g	0.0035 g	0.0034 g
460-68392-A-3 DU		SM 2540D	T	0 g	PASS <0.5mg		0.0111 g	0.0108 g	
460-68263-F-6	GW0021	SM 2540D	T	0 g	PASS <0.5mg		0 g	0 g	
460-68263-F-7	GW0022	SM 2540D	T	0 g	PASS <0.5mg		0.0011 g	0.001 g	
460-68263-F-8	GW0023	SM 2540D	T	0 g	PASS <0.5mg		0.0002 g	0.0003 g	
460-68263-F-9	GW0024	SM 2540D	T	0 g	PASS <0.5mg		0 g	0 g	
460-68392-A-6 DU		SM 2540D	T	0 g	PASS <0.5mg		0.0083 g	0.0083 g	
460-68263-F-10	GW0025	SM 2540D	T	0 g	PASS <0.5mg		0.0002 g	0 g	
460-68263-F-11	GW0026	SM 2540D	T	0 g	PASS <0.5mg		0 g	0.0003 g	

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WTtssLCS 00045			
MB 460-198448/1		SM 2540D		0.1218 g	0.1218 g				
LCSSRM 460-198448/2		SM 2540D		0.1209 g	0.1175 g	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 198448 Batch Start Date: 12/18/13 08:50 Batch Analyst: Staib, Patricia L

Batch Method: SM 2540D Batch End Date: 12/19/13 10:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WTtssLCS 00045			
460-68392-A-3 DU		SM 2540D	T	0.1294 g	0.1186 g				
460-68263-F-6	GW0021	SM 2540D	T	0.119 g	0.119 g				
460-68263-F-7	GW0022	SM 2540D	T	0.1198 g	0.1188 g				
460-68263-F-8	GW0023	SM 2540D	T	0.1184 g	0.1181 g				
460-68263-F-9	GW0024	SM 2540D	T	0.1197 g	0.1197 g				
460-68392-A-6 DU		SM 2540D	T	0.1253 g	0.117 g				
460-68263-F-10	GW0025	SM 2540D	T	0.1211 g	0.1211 g				
460-68263-F-11	GW0026	SM 2540D	T	0.1203 g	0.12 g				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 198448 Batch Start Date: 12/18/13 08:50 Batch Analyst: Staib, Patricia L

Batch Method: SM 2540D Batch End Date: 12/19/13 10:22

Batch Notes	
Balance ID	27
Constant Weight (WT2) Date/Time in Oven	12-18-13#13:05
Constant Weight (WT2) Date/Time Out	12-18-13@14:10
Constant Weight (WT2) Temp In	104 Celsius
Constant Weight (WT2) Temp Out	104 Celsius
Uncorrected CW (Wt2) Temp In	102 Celsius
Uncorrected CW (Wt2) Temp Out	102 Celsius
Constant Weight (WT3) Date/time In	12-19-13@9:09
Constant Weight (WT3) Date/Time Out	12-19-13@10:12
Constant Weight (WT3) Temp In	104 Celsius
Constant Weight (WT3) Temp Out	104 Celsius
Uncorrected CW (Wt3) Temp In	102 Celsius
Uncorrected CW (Wt3) Temp Out	102 Celsius
Filter Paper Lot Number	EnviroExpress 60006 3281R2
Date samples were placed in the oven	12-18-13@10:14
Oven Temp when samples are put in oven	104 Celsius
Nominal Amount Used	100 mL
Date samples were removed from oven	12-18-13@11:23
Oven Temp when samples removed from oven	104 Celsius
Oven ID	36233
Perform Calculation (0=No, 1=Yes)	1
Uncorrected In Temperature	102 Celsius
Uncorrected Out Temperature	102 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 177439 Batch Start Date: 08/21/13 16:45 Batch Analyst: Vu, Huan

Batch Method: SM 4500 P E Batch End Date: 08/21/13 18:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg	WTphosSP1 00020		
IC 460-177439/1		SM 4500 P E		0 mL	50 mL	Not Calculated. RunCalculation not set to Run			
IC 460-177439/2		SM 4500 P E		0.03 mL	50 mL	Not Calculated. RunCalculation not set to Run	0.03 mL		
IC 460-177439/3		SM 4500 P E		0.05 mL	50 mL	Not Calculated. RunCalculation not set to Run	0.05 mL		
IC 460-177439/4		SM 4500 P E		0.10 mL	50 mL	Not Calculated. RunCalculation not set to Run	0.1 mL		
IC 460-177439/5		SM 4500 P E		0.20 mL	50 mL	Not Calculated. RunCalculation not set to Run	0.2 mL		
IC 460-177439/6		SM 4500 P E		0.50 mL	50 mL	Not Calculated. RunCalculation not set to Run	0.5 mL		

Batch Notes	
Ammonium Molybdate Reagent ID Number	B-2862-13 exp;01/23/14
Ascorbic Acid Reagent ID Number	B-2887-13 exp;08/22/13
Batch Comment	Calibration on : 08/21/13 / Cal curve exp;02/14/14
Potassium Antimonyl Tartrate Reagent ID	B-2812-13 exp;12/14/13
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	B-2886-13 : 5N exp;02/15/14

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 197786 Batch Start Date: 12/14/13 08:40 Batch Analyst: Kamenetskaya, Raisa

Batch Method: SM 4500 P E Batch End Date: 12/14/13 11:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	WTophosLCS 00004	WTphosSP1 00020	WTphosSS1 00018	
ICV 460-197786/1		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run			0.2 mL	
ICB 460-197786/2		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run				
MB 460-197786/3		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run				
LCSSRM 460-197786/4		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run	2 mL			
CCV 460-197786/13		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run			0.2 mL	
CCB 460-197786/14		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-F-1	GW0016	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-F-2	GW0017	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-F-3	GW0018	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-4	GW0019	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-5	GW0020	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-6	GW0021	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-7	GW0022	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-8	GW0023	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 197786 Batch Start Date: 12/14/13 08:40 Batch Analyst: Kamenetskaya, Raisa

Batch Method: SM 4500 P E Batch End Date: 12/14/13 11:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	WTophosLCS 00004	WTphosSP1 00020	WTphosSS1 00018	
460-68263-C-9	GW0024	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-10	GW0025	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
CCV 460-197786/25		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run			0.2 mL	
CCB 460-197786/26		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-11	GW0026	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run				
460-68263-C-9 MS	GW0024	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run		0.2 mL		
460-68263-C-9 MSD	GW0024	SM 4500 P E	T	50 mL	Not Calculated. RunCalculation not set to Run		0.2 mL		
CCV 460-197786/31		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run			0.2 mL	
CCB 460-197786/32		SM 4500 P E		50 mL	Not Calculated. RunCalculation not set to Run				

Batch Notes	
Ammonium Molybdate Reagent ID Number	B-3010-13 exp;06/05/14
Ascorbic Acid Reagent ID Number	B 3015-13 exp 12/21/13
Batch Comment	See batch 177439 for Cal. info. / Cal curve exp;02/14/14
Potassium Antimonyl Tartrate Reagent ID	B-2948-13 exp;04/14/14
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	5N H2SO4 B 3014-13 exp 6/14/14

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 197786 Batch Start Date: 12/14/13 08:40 Batch Analyst: Kamenetskaya, Raisa

Batch Method: SM 4500 P E Batch End Date: 12/14/13 11:40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199349 Batch Start Date: 12/21/13 11:00 Batch Analyst: Leye, Mamadou

Batch Method: SM 5310B Batch End Date: 12/22/13 05:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTtocLCS 00022	WTtocSP1 00021	WTtocSP2 00019		
ICV 460-199349/1		SM 5310B		50 mL			1.25 mL		
ICB 460-199349/2		SM 5310B		50 mL					
MB 460-199349/3		SM 5310B		50 mL					
LCSSRM 460-199349/4		SM 5310B		50 mL	50 mL				
460-68263-B-1	GW0016	SM 5310B	T	50 mL					
460-68263-B-1 MS	GW0016	SM 5310B	T	50 mL		1.25 mL			
460-68263-B-1 MSD	GW0016	SM 5310B	T	50 mL		1.25 mL			
460-68263-B-2	GW0017	SM 5310B	T	50 mL					
460-68263-B-3	GW0018	SM 5310B	T	50 mL					
460-68263-B-4	GW0019	SM 5310B	T	50 mL					
460-68263-B-5	GW0020	SM 5310B	T	50 mL					
460-68263-B-6	GW0021	SM 5310B	T	50 mL					
CCV 460-199349/13		SM 5310B		50 mL			1.25 mL		
CCB 460-199349/14		SM 5310B		50 mL					
460-68263-B-7	GW0022	SM 5310B	T	50 mL					
460-68263-B-8	GW0023	SM 5310B	T	50 mL					
460-68263-B-9	GW0024	SM 5310B	T	50 mL					
460-68263-B-10	GW0025	SM 5310B	T	50 mL					
460-68263-B-11	GW0026	SM 5310B	T	50 mL					
CCV 460-199349/25		SM 5310B		50 mL			1.25 mL		
CCB 460-199349/26		SM 5310B		50 mL					

Batch Notes	
Batch Comment	T(1421-1424)-13 exp 03/05/14; H2SO4: MACRON #35166

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199349 Batch Start Date: 12/21/13 11:00 Batch Analyst: Leye, Mamadou

Batch Method: SM 5310B Batch End Date: 12/22/13 05:24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199450 Batch Start Date: 12/23/13 06:30 Batch Analyst: Afremova, Izabella

Batch Method: SM 4500 NH3 B Batch End Date: 12/23/13 09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Final pH	WTamnIM1 00035		
MB 460-199450/1		SM 4500 NH3 B, 4500 NH3 H		50.0 mL	50.0 mL	ph=9.5 SU			
LCS 460-199450/2		SM 4500 NH3 B, 4500 NH3 H		50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68263-D-8	GW0023	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-8 MS	GW0023	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68263-D-8 MSD	GW0023	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68263-D-1	GW0016	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-2	GW0017	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-3	GW0018	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-4	GW0019	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-5	GW0020	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-6	GW0021	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-7	GW0022	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199450 Batch Start Date: 12/23/13 06:30 Batch Analyst: Afremova, Izabella

Batch Method: SM 4500 NH3 B Batch End Date: 12/23/13 09:45

Batch Notes	
Acid used for pH adjustment	11 N H2SO4 # B - 9902-13 exp.03/25/14
Base used for pH adjustment	15 N NaOH # C - 9902-13 exp.02/17/14
Buffer Reagent ID Number	# C - 9857-43 exp.03/04/14
Distillation End Time	9:40 am
Distillation Start Time	8:00 am
Distillation Temperature	210
Sulfuric Acid Lot Number	Macron Fine Chemicals/35166
NaOH Lot #	Fisher/122989
Sulfuric Acid Reagent ID Number	0.04 N H2SO4 # C - 0129-13 exp. 06/10/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199611 Batch Start Date: 12/23/13 16:48 Batch Analyst: Brown, Sarah E

Batch Method: 4500 NH3 H Batch End Date: 12/23/13 17:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTamnSS1 00005				
ICV 460-199611/7		4500 NH3 H		100 mL	0.2 mL				
CCV 460-199611/17		4500 NH3 H		100 mL	0.2 mL				
CCV 460-199611/29		4500 NH3 H		100 mL	0.2 mL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199718 Batch Start Date: 12/24/13 06:30 Batch Analyst: Afremova, Izabella

Batch Method: SM 4500 NH3 B Batch End Date: 12/24/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Final pH	WTamnIM1 00035		
MB 460-199718/1		SM 4500 NH3 B, 4500 NH3 H		50.0 mL	50.0 mL	ph=9.5 SU			
LCS 460-199718/2		SM 4500 NH3 B, 4500 NH3 H		50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68504-F-4 MS		SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68504-F-4 MSD		SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU	0.5 mL		
460-68263-D-9	GW0024	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-D-10	GW0025	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			
460-68263-B-11	GW0026	SM 4500 NH3 B, 4500 NH3 H	T	50.0 mL	50.0 mL	ph=9.5 SU			

Batch Notes	
Acid used for pH adjustment	11 N H2SO4 # B - 2933-13 exp.03/25/14
Base used for pH adjustment	15 N NaOH # C - 9902-13 exp.02/17/14
Buffer Reagent ID Number	# C - 9857-13 exp.03/04/14
Distillation End Time	9:30 am
Distillation Start Time	8:00 am
Distillation Temperature	210
Sulfuric Acid Lot Number	Macron Fine Chemicals/35166
NaOH Lot #	Fisher/122989
Sulfuric Acid Reagent ID Number	0.04 n h2so4 # c - 0129-13 EXP.06/10/14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199783 Batch Start Date: 12/24/13 12:05 Batch Analyst: Brown, Sarah E

Batch Method: 4500 NH3 H Batch End Date: 12/24/13 12:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WTamnSS1 00005				
ICV 460-199783/7		4500 NH3 H		100 mL	0.2 mL				
CCV 460-199783/17		4500 NH3 H		100 mL	0.2 mL				
CCV 460-199783/29		4500 NH3 H		100 mL	0.2 mL				
CCV 460-199783/32		4500 NH3 H		100 mL	0.2 mL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199830 Batch Start Date: 12/24/13 15:10 Batch Analyst: Hu, Youhao

Batch Method: SM 4500 H+ B Batch End Date: 12/24/13 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SampleTemp	pHread1	pHRead2	CalcMsg	WTpHCCV 00020
CCV 460-199830/1		SM 4500 H+ B		20 mL	23.3 Celsius	7.04 SU	7.03 SU	Read 2 Pass	20 mL
MB 460-199830/2		SM 4500 H+ B		20 mL	23.1 Celsius	4.77 SU	4.78 SU	Read 2 Pass	
LCSSRM 460-199830/3		SM 4500 H+ B		20 mL	23.5 Celsius	7.00 SU	7.00 SU	Read 2 Pass	
460-68263-C-1	GW0016	SM 4500 H+ B	T	20 mL	23.0 Celsius	8.13 SU	8.14 SU	Read 2 Pass	
460-68263-C-1 DU	GW0016	SM 4500 H+ B	T	20 mL	22.5 Celsius	8.14 SU	8.14 SU	Read 2 Pass	
460-68263-C-2	GW0017	SM 4500 H+ B	T	20 mL	22.5 Celsius	8.014 SU	8.02 SU	Read 2 Pass	
460-68263-C-3	GW0018	SM 4500 H+ B	T	20 mL	22.6 Celsius	7.70 SU	7.71 SU	Read 2 Pass	
460-68263-C-4	GW0019	SM 4500 H+ B	T	20 mL	22.9 Celsius	8.23 SU	8.24 SU	Read 2 Pass	
460-68263-C-5	GW0020	SM 4500 H+ B	T	20 mL	22.5 Celsius	8.18 SU	8.19 SU	Read 2 Pass	
460-68263-C-6	GW0021	SM 4500 H+ B	T	20 mL	22.4 Celsius	8.19 SU	8.20 SU	Read 2 Pass	
CCV 460-199830/11		SM 4500 H+ B		20 mL	23.3 Celsius	7.05 SU	7.04 SU	Read 2 Pass	20 mL
460-68263-C-7	GW0022	SM 4500 H+ B	T	20 mL	22.5 Celsius	8.23 SU	8.24 SU	Read 2 Pass	
460-68263-C-8	GW0023	SM 4500 H+ B	T	20 mL	23.0 Celsius	8.21 SU	8.22 SU	Read 2 Pass	
460-68263-C-9	GW0024	SM 4500 H+ B	T	20 mL	22.7 Celsius	7.91 SU	7.92 SU	Read 2 Pass	
460-68263-C-10	GW0025	SM 4500 H+ B	T	20 mL	22.6 Celsius	8.01 SU	8.02 SU	Read 2 Pass	
460-68263-C-11	GW0026	SM 4500 H+ B	T	20 mL	22.8 Celsius	8.28 SU	8.29 SU	Read 2 Pass	
CCV 460-199830/17		SM 4500 H+ B		20 mL	23.4 Celsius	7.03 SU	7.02 SU	Read 2 Pass	20 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	WTpHLCS 00015					
CCV 460-199830/1		SM 4500 H+ B							
MB 460-199830/2		SM 4500 H+ B							
LCSSRM 460-199830/3		SM 4500 H+ B		20 mL					
460-68263-C-1	GW0016	SM 4500 H+ B	T						
460-68263-C-1 DU	GW0016	SM 4500 H+ B	T						
460-68263-C-2	GW0017	SM 4500 H+ B	T						
460-68263-C-3	GW0018	SM 4500 H+ B	T						
460-68263-C-4	GW0019	SM 4500 H+ B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-68263-1

SDG No.:

Batch Number: 199830 Batch Start Date: 12/24/13 15:10 Batch Analyst: Hu, Youhao

Batch Method: SM 4500 H+ B Batch End Date: 12/24/13 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	WTpHLCS 00015					
460-68263-C-5	GW0020	SM 4500 H+ B	T						
460-68263-C-6	GW0021	SM 4500 H+ B	T						
CCV 460-199830/11		SM 4500 H+ B							
460-68263-C-7	GW0022	SM 4500 H+ B	T						
460-68263-C-8	GW0023	SM 4500 H+ B	T						
460-68263-C-9	GW0024	SM 4500 H+ B	T						
460-68263-C-10	GW0025	SM 4500 H+ B	T						
460-68263-C-11	GW0026	SM 4500 H+ B	T						
CCV 460-199830/17		SM 4500 H+ B							

Batch Notes	
pH Buffer 1 ID	7.00Fisher: 133435 exp. 06/2015
pH Buffer 2 ID	4.00Thermo: 910104 exp. 04/31/15
pH Buffer 3 ID	10.00Fisher: 120213 exp. 06/2015
Instrument ID	PH meter: G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 157495 Batch Start Date: 12/13/13 11:14 Batch Analyst: Cudney, Kevin A

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00003				
STD1 480-157495/2		300.0		1 mL	50 uL				
STD2 480-157495/3		300.0		1 mL	100 uL				
STD3 480-157495/4		300.0		1 mL	500 uL				
STD4 480-157495/5		300.0		1 mL	2 mL				
STD5 480-157495/6		300.0		1 mL	5 mL				
STD6 480-157495/7		300.0		1 mL	5 mL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 157769 Batch Start Date: 12/16/13 20:51 Batch Analyst: Clark, Kyra R

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_ 00023	IC_ANION_STD 00003			
CCV 480-157769/49		300.0		1 mL	5 mL				
CCB 480-157769/50		300.0		1 mL					
LCS 480-157769/51		300.0		1 mL	5 mL				
MB 480-157769/52		300.0		1 mL					
460-68263-A-1	GW0016	300.0	T	1 mL					
460-68263-A-2	GW0017	300.0	T	1 mL					
460-68263-A-3	GW0018	300.0	T	1 mL					
460-68263-A-4	GW0019	300.0	T	1 mL					
460-68263-A-5	GW0020	300.0	T	1 mL					
460-68263-A-5 MS	GW0020	300.0	T	1 mL		125 uL			
CCV 480-157769/61		300.0		1 mL	5 mL				
CCB 480-157769/62		300.0		1 mL					
460-68263-A-6	GW0021	300.0	T	1 mL					
460-68263-A-7	GW0022	300.0	T	1 mL					
460-68263-A-8	GW0023	300.0	T	1 mL					
460-68263-A-9	GW0024	300.0	T	1 mL					
460-68263-A-10	GW0025	300.0	T	1 mL					
460-68263-A-11	GW0026	300.0	T	1 mL					
CCV 480-157769/73		300.0		1 mL	5 mL				
CCB 480-157769/74		300.0		1 mL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 157769 Batch Start Date: 12/16/13 20:51 Batch Analyst: Clark, Kyra R

Batch Method: 300.0 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 158037 Batch Start Date: 12/17/13 15:19 Batch Analyst: Cudney, Kevin A

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00003				
STD0 480-158037/1		300.0		1 mL	0.001 uL				
STD1 480-158037/2		300.0		1 mL	50 uL				
STD2 480-158037/3		300.0		1 mL	100 uL				
STD3 480-158037/4		300.0		1 mL	500 uL				
STD4 480-158037/5		300.0		1 mL	2 mL				
STD5 480-158037/6		300.0		1 mL	5 mL				
STD6 480-158037/7		300.0		1 mL	5 mL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 158039 Batch Start Date: 12/17/13 17:31 Batch Analyst: Cudney, Kevin A

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_ 00023	IC_ANION_STD 00003			
CCV 480-158039/1		300.0		1 mL	5 mL				
CCB 480-158039/2		300.0		1 mL					
LCS 480-158039/3		300.0		1 mL	5 mL				
MB 480-158039/4		300.0		1 mL					
CCV 480-158039/13		300.0		1 mL	5 mL				
CCB 480-158039/14		300.0		1 mL					
460-68263-A-1	GW0016	300.0	T	1 mL					
460-68263-A-2	GW0017	300.0	T	1 mL					
460-68263-A-3	GW0018	300.0	T	1 mL					
460-68263-A-4	GW0019	300.0	T	1 mL					
460-68263-A-5	GW0020	300.0	T	1 mL					
460-68263-A-6	GW0021	300.0	T	1 mL					
460-68263-A-7	GW0022	300.0	T	1 mL					
460-68263-A-7 MS	GW0022	300.0	T	1 mL		125 uL			
460-68263-A-7 MSD	GW0022	300.0	T	1 mL		125 uL			
CCV 480-158039/25		300.0		1 mL	5 mL				
CCB 480-158039/26		300.0		1 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 158052 Batch Start Date: 12/17/13 21:34 Batch Analyst: Cudney, Kevin A

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION_LCS_00023			
CCV 480-158052/25		300.0		1 mL		5 mL			
CCB 480-158052/26		300.0		1 mL					
LCS 480-158052/27		300.0		1 mL		5 mL			
MB 480-158052/28		300.0		1 mL					
460-68263-A-8	GW0023	300.0	T	1 mL	1.0 mL				
460-68263-A-9	GW0024	300.0	T	1 mL					
460-68263-A-10	GW0025	300.0	T	1 mL					
460-68263-A-11	GW0026	300.0	T	1 mL	1.0 mL				
CCV 480-158052/37		300.0		1 mL		5 mL			
CCB 480-158052/38		300.0		1 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 159583 Batch Start Date: 12/26/13 16:02 Batch Analyst: Nyznyk, Elizabeth G

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	ALK 100 00123	ALKms_1000ppm 00053	
CCV 480-159583/4		SM 2320B		25 mL	Titrant1Normality is blank	25 mL	# mL		
CCB 480-159583/5		SM 2320B		25 mL	Titrant1Normality is blank	25 mL			
MB 480-159583/6		SM 2320B		25 mL	Titrant1Normality is blank	25 mL			
LCS 480-159583/7		SM 2320B		25 mL	Titrant1Normality is blank	25 mL	# mL		
460-68263-A-4	GW0019	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-6	GW0021	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-7	GW0022	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-8	GW0023	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-9	GW0024	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-10	GW0025	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
460-68263-A-11	GW0026	SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
CCV 480-159583/16		SM 2320B		25 mL	Titrant1Normality is blank	25 mL	# mL		
CCB 480-159583/17		SM 2320B		25 mL	Titrant1Normality is blank	25 mL			
480-52359-I-2 DU		SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL			
480-52359-I-3 MS		SM 2320B	T	25 mL	Titrant1Normality is blank	25 mL		2.5 mL	
CCV 480-159583/21		SM 2320B		25 mL	Titrant1Normality is blank	25 mL	# mL		
CCB 480-159583/22		SM 2320B		25 mL	Titrant1Normality is blank	25 mL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-68263-1

SDG No.:

Batch Number: 159583 Batch Start Date: 12/26/13 16:02 Batch Analyst: Nyznyk, Elizabeth G

Batch Method: SM 2320B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

460-68263 Chain of Custody

Chain of Custody Record

TestAmerica

Client:	Sampler: Katie Lorso	Lab PM: Tanico, Thomas	Carrier Tracking No(s):	COC No. 460-41358-26297.1
Client Contact: Craig Hutchings	Phone:	E-Mail: thomas.tanico@testamericainc.com		Page: Page 1 of 2
Company: Integral Consulting Inc				Job # 68263
Address: 1205 W Bay Drive NW	Due Date Requested:			
City: Olympia	TAT Requested (days):			
State, Zip: WA, 98502				
Phone: 360-705-3534(Tel)	PO #: Purchase Order not required			
Email: chutchings@integral-corp.com	WO #:			
Project Name: NJ Site	Project #: 46013363			
Site: Solvay	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2340C - Hardness as calcium carbonate	300.0_28D - Br,Cl, SO4 & Fl	2320B, 353.2, 4500_P_E_Ortho	SM4500_H+ - pH	2540D - Total Suspended Solids	SM5310B - Organic Carbon, Total (TOC)	SM4500_NH3_H - Ammonia (as N)	Total Number of containers	Special Instructions/Note: Tag #
			Preservation Code:				D	N	N	N	N	S	S		
GW0016	12/12/13	1155	grab	Water			X	X	X	X	X	X	X		1016 -1
GW0017	↓	1220	↓	Water			↓	↓	↓	↓	↓	↓	↓		1017 -2
GW0018	↓	1230	↓	Water			↓	↓	↓	↓	↓	↓	↓		1018 -3
GW0019	↓	1255	↓	Water			↓	↓	↓	↓	↓	↓	↓		1019 -4
GW0020.	↓	1302	↓	Water			↓	↓	↓	↓	↓	↓	↓		1020 -5
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

SHORT HOLD

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Katie Corso	12/12/13	Integral	(Fedex)	12/13/13 9:45	TAEO

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: NCS

Cooler Temperature(s) °C and Other Remarks: IR#4 2/2.1°C 4/4.1°C

Chain of Custody Record

TestAmerica

Client Information	Sampler: Katie Lorso	Lab PM: Tanico, Thomas	Carrier Tracking No(s):	COC No 460-41358-26297.1
Client Contact: Craig Hutchings	Phone:	E-Mail: thomas.tanico@testamericainc.com		Page Page 1 of 2
Company: Integral Consulting Inc				Job #: 68263
Address: 1205 W Bay Drive NW	Due Date Requested:			
City: Olympia	TAT Requested (days):			
State, Zip: WA, 98502				
Phone: 360-705-3534(Tel)	PO #: Purchase Order not required			
Email: chutchings@integral-corp.com	WO #:			
Project Name: NJ Site	Project #: 46013363			
Site: Solvay	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2340C - Hardness as calcium carbonate	300.0_28D - Br,Cl, SO4 & Fl	2320B, 353.2, 4500_P_E_Ortho	SM4500_H+ - pH	2540D - Total Suspended Solids	SM6310B - Organic Carbon, Total (TOC)	SM4500_NH3_H - Ammonia (as N)	Total Number of containers	Special Instructions/Note: Tag #
			Preservation Code:				D	N	N	N	N	S	S		
GW 0021	12/12/13	1319	grab	Water			X	X	X	X	X	X	X		1021 -6
GW 0022		1322		Water											1022 -7
GW 0023		1344		Water											1023 -8
GW 0024		1400		Water											1024 -9
GW 0025		1422		Water											1025 -10
GW 0026		1438		Water											1026 -11
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Katie Lorso	12/12/13 1613	Integral	(Fedex)	12/13/13 0745	TAEI

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: NCS

Cooler Temperature(s) °C and Other Remarks: IR #4 2/2.1°C 4/4.1°C

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 68263

Number of Coolers: 2 IR Gun # 4

Temp. Cooler #1 (Deg C) (Raw/Corrected) 4/2.1 Temp. Cooler #4 (Deg C) (Raw/Corrected) _____ Temp. Cooler #7 (Deg C) (Raw/Corrected) _____

Temp. Cooler #2 (Deg C) (Raw/Corrected) 4/4.1 Temp. Cooler #5 (Deg C) (Raw/Corrected) _____ Temp. Cooler #8 (Deg C) (Raw/Corrected) _____

Temp. Cooler #3 (Deg C) (Raw/Corrected) _____ Temp. Cooler #6 (Deg C) (Raw/Corrected) _____ Temp. Cooler #9 (Deg C) (Raw/Corrected) _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other hardness
1	<2									<2			<2
2	<2									<2			<2
3	<2									<2			<2
4	<2									<2			<2
5	<2									<2			<2
6	<2									<2			<2
7	<2									<2			<2
8	<2									<2			<2
9	<2									<2			<2
10	<2									<2			<2
11	<2									<2			<2

If pH adjustments are required record the information below:

Sample No(s). adjusted: N/A

Preservative Name/Conc.: N/A Volume of Preservative used (ml): N/A

Lot # of Preservative: N/A Expiration Date: N/A

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: KR Date: 12/13/13

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 460-68263-1

Login Number: 68263

List Source: TestAmerica Edison

List Number: 1

Creator: Rivera, Kenneth

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C, 4.1°C, IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: Integral Consulting Inc

Job Number: 460-68263-1

Login Number: 68263
List Number: 1
Creator: Goliszek, Gregory T

List Source: TestAmerica Buffalo
List Creation: 12/14/13 01:49 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 #3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	