Laboratory Report

Parsons

744653.84115 HAMMOND B.G.R.-LA,MMRP

Subcontract #: 744653

ARF 56740

Samples collected: August 4 - 7, 2008

APPL, Inc.

Data Validation Package

for

Subcontract #: 744653

ARF 56740

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CASE NARRATIVE

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.

4203 West Swift ∇ Fresno, California 93722 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Case Narrative

ARF: 56740

Project: 744653.84115 HAMMOND B.G.R.-LA, MMRP

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample group was received August 08, 2008. The soil samples were received un-iced at room temperature (22°C) and the water samples were received in separate coolers at 2.5°C and 3.0°C. The samples were assigned Analytical Request Form (ARF) number 56740. The sample numbers and requested analyses were compared to the chains of custody. No exceptions were noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
HBGR-MRS01-DU1-SS-02-01	AX82321	SOIL	08/07/08	08/08/08
HBGR-MRS01-DU1-SS-02-02A	AX82322	SOIL	08/07/08	08/08/08
HBGR-MRS01-DU1-SS-02-02B	AX82323	SOIL	08/07/08	08/08/08
HBGR-MRS01-DU1-SS-02-02C	AX82324	SOIL	08/07/08	08/08/08
HBGR-MRS01-DU1-SS-02-03	AX82325	SOIL	08/07/08	08/08/08
HBGR-MRS02-DU2-SS-02-01	AX82326	SOIL	08/05/08	08/08/08
HBGR-MRS03-DU3-SS-02-01	AX82327	SOIL	08/06/08	08/08/08
HBGR-MRS04-DU4-SS-02-01	AX82328	SOIL	08/06/08	08/08/08
HBGR-MRS05-DU5-SS-02-01	AX82329	SOIL	08/06/08	08/08/08
HBGR-MRS05-DU6-SS-02-01	AX82330	SOIL	08/06/08	08/08/08
HBGR-AOC-DU7-SS-02-01	AX82331	SOIL	08/05/08	08/08/08
HBGR-RL-DU8-SS-02-01	AX82332	SOIL	08/04/08	08/08/08
HBGR-GW-02	AX82333	WATER	08/06/08	08/08/08
HBGR-GW-03	AX82334	WATER	08/07/08	08/08/08
HBGR-GW-01	AX82344	WATER	08/06/08	08/08/08
HBGR-GW-04	AX82345	WATER	08/06/08	08/08/08

The samples and method blanks were screened for J-values between the MDL and the PQL.

EPA Method 8330B
Energetics

Sample Preparation:

The water samples were extracted according to EPA 3535A. The soil samples were extracted according to EPA 8330B. The soil samples were dried and prepared following multi-incremental sampling procedures. All hold times were met.

Analysis:

The samples were analyzed according to EPA Method 8330B using an Agilent 1100 HPLC with UV detector.

Quality Control/Assurance:

Spike Recovery

Laboratory Control Spikes (LCS) and matrix spikes were used for quality assurance. All recoveries were within the acceptance limits.

Water sample HBGR-GW-01 was designated by the client for MS/MSD analysis. Soil sample HBGR-MRS01-DU1-SS-02-03 was designated by the client for MS/MSD analysis. All acceptance criteria were met.

Triplicates:

Sample HMBR-MRS01-DU1-SS-02-02 was designated by the client for lab triplicate analysis.

Method blanks:

No target analyte was detected at or above the MDL in the method blanks.

Surrogates:

Surrogate recoveries are summarized on the Form 2 & 8. All surrogates had acceptable recoveries.

Calibration:

The initial and continuing calibrations and second source were analyzed according to the MMRP September 2005. All calibration criteria were met.

Summary:

No analytical problem was encountered.

EPA method 6010B – Metals

Digestion Information:

The soil samples were dried and prepared following multi-incremental sampling procedures. The soils were digested according to EPA method 3050B. The waters were digested according to EPA method 3010A. No exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed for metals according to EPA method 6010B using a Perkin Elmer Optima 4300DV.

Calibrations:

Calibrations were performed according to the methods for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard.

Blanks:

No target metals was detected at or above the reporting limits in the method and calibration blanks.

Spikes:

Laboratory Control Spikes (LCS/LCSD), matrix spikes (MS/MSD), post spike digestions and serial dilutions were used for quality assurance. All LCS recoveries were acceptable.

Water sample HBGR-GW-01 was designated by the client for MS/MSD analysis. In the MS/MSD, lead recovered at 75.2% and 78.4% and zinc recovered at 138% and 146%. Both metals are flagged with a "J in the parent sample, in accordance with MMRP SI PSAP. For the serial dilution, zinc exceeded the 10% deviation limit. All other recoveries were acceptable.

Soil sample HBGR-MRS01-DU1-SS-02-03 was designated by the client for MS/MSD analysis. Aluminum recovered high and all of the other metals recovered below the 80% lower control limit in the MS/MSD. All metals are flagged with a "J in the parent sample, in accordance with MMRP SI PSAP. In the post digestion spike, all metals except aluminum recovered below the 75% lower limit. All metals, except aluminum, are flagged with a "J in all soil samples, in accordance with MMRP SI PSAP. In the serial dilution, aluminum, chromium, and lead exceeded the 10% deviation limit. All other recoveries were acceptable.

Triplicates:

Sample HBGR-MRS01-DU1-SS-02-02 was designated by the client for lab triplicate analysis.

Summary:

No other analytical exception is noted.

AMENDED PAGE

EPA method 6850
Perchlorate LC/MS

Sample Preparation:

The samples were prepared according to the method. The waters were filtered prior to injection, as instructed.

Analysis Information

Samples:

The samples were prepared and analyzed according to the EPA method 6850 and the DoD Perchlorate Handbook, March 2006. The system's computer program inaccurately calculated the baseline on some of the injections. These baselines were manually integrated for an accurate peak area count. Chromatograms for both before and after manual integration are contained in the report.

Calibrations:

Calibrations were performed according to the method.

Spikes and Duplicates:

A Laboratory Control Spike (LCS) and Interference Check Sample (ICS) were used for quality assurance. All LCS and ICS recoveries met acceptance criteria.

Sample HBGR-GW-01 was designated by the client for MS/MSD analysis. Perchlorate recovered within acceptable limits.

Blanks:

The method blanks did not contain Perchlorate at or above the method detection limit.

Summary:

No other problem was encountered. Data generated are acceptable.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

8/30/08

Leonard Fong, Ph.D, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form

56740

Client: Parsons
Address: 8000 Centre Park Drive Ste 200
Austin, TX 78754
Attn: Tammy Chang
Phone: 512-719-6092 Fax: 512-719-6099
Job: 744653.84115 HAMMOND B.G.R.-LA,MMRP
PO #: EDD Proj #
Chain of Custody (Y/N): Y # 1131,1126,1127
RAD Screen (Y/N): Y pH (Y/N): N
Turn Around Type: STD

Received by: CFM
Date Received: 08/08/08 Time: 10:00
Delivered by: FED EX
Shuttle Custody Seals (Y/N): Y
Chest Temp(s): 22.0°,2.5°C,3.0°
Color: BLUEGREEN,ORYEL
Samples Chilled until Placed in Refrig/Freezer: Y
Project Manager: Diane Anderson DA
QC Report Type: DVP4/ADR-SEDD/TX
Due Date: 08/20/08

Comments:
pdf ARF to Tammy & Pam Ford; send 1 DVP4 with colored dividers & 1 DVP3 to Tammy
Tammy with copy of invoice. Wait to prepare CD of DVP4 report until notified.
DOD QSM; see attached site specific analyte list.
Report J values to MDL; U flag non-detects at the MDL
Run triplicate as specified, MS/MSD only as requested.
J flag parent sample only for failed MS/MSD
MMRP Southwest project # 744653 must appear on the invoice

8-12 PDF'd ARF

Sample Distribution:
Extractions: 12-_MSE018MIS, 4-_HPL6850, 4-_MWE3535
LCMS: 12-$833WS, 4-$6850, 4-$83BUAW
Metals: 12-$61PS(Al,Sb,Cr,Cu,Pb,Zn), 4-$61PW(Al,Sb,Cr,Cu,Pb,Zn)
Other: 12-_M3050LLMIS, 4-_M3010LL

Charges:

Invoice To:
MMRP SW 744653
4890 University Square, Ste 2
Huntsville, AL 35816
Attn Kim Ruf

	Client ID	APPL ID	Sampled		Analyses Requested
1.	HBGR-MRS01-DU1-SS-02-01	AX82321S	08/07/08	10:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
2.	HBGR-MRS01-DU1-SS-02-02A	AX82322S	08/07/08	10:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS -- LAB TRIPLICATE
3.	HBGR-MRS01-DU1-SS-02-02B	AX82323S	08/07/08	10:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS -- LAB TRIPLICATE
4.	HBGR-MRS01-DU1-SS-02-02C	AX82324S	08/07/08	10:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS -- LAB TRIPLICATE
5.	HBGR-MRS01-DU1-SS-02-03 MS/MSD	AX82325S	08/07/08	10:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
6.	HBGR-MRS02-DU2-SS-02-01	AX82326S	08/05/08	14:34	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS

7.	HBGR-MRS03-DU3-SS-02-01	AX82327S	08/06/08	17:01	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
8.	HBGR-MRS04-DU4-SS-02-01	AX82328S	08/06/08	12:43	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
9.	HBGR-MRS05-DU5-SS-02-01	AX82329S	08/06/08	11:35	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
10.	HBGR-MRS05-DU6-SS-02-01	AX82330S	08/06/08	15:23	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
11.	HBGR-AOC-DU7-SS-02-01	AX82331S	08/05/08	12:56	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
12.	HBGR-RL-DU8-SS-02-01	AX82332S	08/04/08	09:48	$61PS(Al,Sb,Cr,Cu,Pb,Zn), $833WS
13.	HBGR-GW-02	AX82333W	08/06/08	13:00	$61PW(Al,Sb,Cr,Cu,Pb,Zn), $6850, $83BUAW
14.	HBGR-GW-03	AX82334W	08/07/08	09:00	$61PW(Al,Sb,Cr,Cu,Pb,Zn), $6850, $83BUAW
15.	HBGR-GW-01 MS/MSD	AX82344W	08/06/08	13:50	$61PW(Al,Sb,Cr,Cu,Pb,Zn), $6850, $83BUAW
16.	HBGR-GW-04	AX82345W	08/06/08	14:25	$61PW(Al,Sb,Cr,Cu,Pb,Zn), $6850, $83BUAW

Initials _____ Date _____

APPL Sample Receipt Form

ARF# **56740**

Sample	Container Type	Count	pH
AX82321	26 Other	1	
AX82322	26 Other	1	
AX82323	26 Other	1	
AX82324	26 Other	1	
AX82325	26 Other	1	
AX82326	26 Other	1	
AX82327	26 Other	1	
AX82328	26 Other	1	
AX82329	26 Other	1	
AX82330	26 Other	1	
AX82331	26 Other	1	
AX82332	26 Other	1	
AX82333	4 PL 125mL	1	
	6 PL 500mL - HNO3	1	1.7
	17 Amber Liter	1	
	17 Amber Liter	1	
AX82334	4 PL 125mL	1	
	6 PL 500mL - HNO3	1	1.7
	17 Amber Liter	1	
	17 Amber Liter	1	
AX82344	4 PL 125mL	2	
	6 PL 500mL - HNO3	2	1.7
	17 Amber Liter	4	
AX82345	4 PL 125mL	1	
	6 PL 500mL - HNO3	1	1.7
	17 Amber Liter	2	

Sample	Container Type	Count	pH

APPL, Inc.; 4203. W Swift Ave.; Fresno, CA 93722
Phone: 559-275-2175 Fax: 559-275-4422

CUSTODY RECORD

Client: Parsons	Parsons Geographic Lead: JULIE BURDEY	Date: 8/7/08	Chain of Custody Number: № 1131
Address: 8000 CENTRE PARK DR. STE200	Telephone Number (Area Code)/Fax Number: (512) 719.6000 / (512) 719.6099	Lab Number: 559 275-2175	Page 1 of 1
City: AUSTIN; State: TX; Zip Code: 78754	Site Contact: EZIO AMBROSETTI; Lab Contact: Diane Anderson	Analysis (Attach list if more space is needed)	
Project Name and Location (State): HAMMOND B.G.R. - LA	Carrier/Waybill Number: 8651 9404 9533		
Contract/Purchase Order/Quote No.: 744653, 84115			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: AQ	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		EXPLOSIVES	METALS (Al, Sb, Cr, Cu, Pb, Zn)							Firing Point	High Lead	HE Site	Special Instructions/ Conditions of Receipt
HBGR.MRS01.DU1.SS.02.01	8/7/08	1043			X		X						1	X	X										
HBGR.MRS01.DU1.SS.02.02	8/7/08	1043			X		X						1	X	X										LAB TRIPLICATE
HBGR.MRS01.DU1.SS.02.03	8/7/08	1043			X		X						1	X	X										MS/MSD
HBGR.MRS02.DU2.SS.02.01	8/5/08	1434			X		X						1	X	X										
HBGR.MRS03.DU3.SS.02.01	8/6/08	1701			X		X						1	X	X										NO ICE PRESENT
HBGR.MRS04.DU4.SS.02.01	8/6/08	1243			X		X						1	X	X										22.0°C
HBGR.MRS05.DU5.SS.02.01	8/6/08	1135			X		X						1	X	X										
HBGR.MRS05.DU6.SS.02.01	8/6/08	1523			X		X						1	X	X										
HBGR.MRDC.DU7.SS.02.01	8/5/08	1256			X		X						1	X	X										
HBGR.RL.DU8.SS.02.01	8/4/08	0948			X		X						1	X	X										

1. Relinquished By: Ezio Ambrosetti	Date: 8/7/08	Time: 1400	1. Received By	Date	Time
2. Relinquished By	Date	Time	2. Received By: [signature]	Date: 8-8-08	Time: 1000
Comments: ***Fed Ex Priority Overnight***				# of Coolers this Shipment: 1	

DISTRIBUTION: WHITE - Returned to Client with Report Canary - Stays with the Sample Pink - Field Copy

APPL, Inc.; 4203. W Swift Ave.; Fresno, CA 93722
Phone: 559-275-2175 Fax: 559-275-4422

CUSTODY RECORD

Client: Parsons	Parsons Geographic Lead: JULIE BURDEY	Date: 8/7/08	Chain of Custody Number: № 1126
Address: 8000 CENTRE PARK DR. STE200	Telephone Number (Area Code)/Fax Number: (512) 719.6000 / (512) 719.6019	Lab Number: 559 275-2175	Page 1 of 1
City: AUSTIN; State: TX; Zip Code: 78754	Site Contact: ERIC AMBROSETTI	Lab Contact: Diane Anderson	Analysis (Attach list if more space is needed)
Project Name and Location (State): HAMMOND BGR - LA	Carrier/Waybill Number: 8651 9404 9533		
Contract/Purchase Order/Quote No.: 744653.84115			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: AQ	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	FILTERED	EXPLOSIVES	METALS	PERCHLORATE							Firing Point	High Lead	HE Site	Special Instructions/ Conditions of Receipt
HBGR-GW-02	8/6/08	1300	X				2		1				1	X	X	X										
HBGR-GW-03	8/7/08	0900	X				2		1				1	X	X	X										

1. Relinquished By: Eric Ambroset	Date: 8/7/08	Time: 1400	1. Received By:	Date:	Time:
2. Relinquished By:	Date:	Time:	2. Received By: [signature]	Date: 8-8-08	Time: 1000

Comments: ***Fed Ex Priority Overnight***

# of Coolers this Shipment:

DISTRIBUTION: WHITE - Returned to Client with Report Canary - Stays with the Sample Pink - Field Copy

APPL, Inc.; 4203. W Swift Ave.; Fresno, CA 93722
Phone: 559-275-2175 Fax: 559-275-4422

CUSTODY RECORD

Client: Parsons	Parsons Geographic Lead: JULIE BURDEY	Date: 8/7/08	Chain of Custody Number: № 1127
Address: 8000 CENTRE PARK DR. STE 200	Telephone Number (Area Code)/Fax Number: (512) 719.6000/(512) 719.6099	Lab Number: 559 275-2175	Page 1 of 1
City: AUSTIN; State: TX; Zip Code: 78754	Site Contact: EZIO AMBROSETTI	Lab Contact: Diane Anderson	Analysis (Attach list if more space is needed)
Project Name and Location (State): HAMMOND BGR - LA	Carrier/Waybill Number: 8651 9404 9533		
Contract/Purchase Order/Quote No.: 744683.84115			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: AQ	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	FILTERED	EXPLOSIVES	METALS	PERCHLORATE						Firing Point	High Lead	HE Site	Special Instructions/ Conditions of Receipt
HBGR-GW-01	8/6/08	1350	X				4		2				2	X	X	X									MS/MSD
HBGR-GW-04	8/6/08	1425	X				2		1				1	X	X	X									

1. Relinquished By: Ezio Ambrosetti	Date: 8/7/08	Time: 1400	1. Received By	Date	Time
2. Relinquished By	Date	Time	2. Received By	Date: 8-8-08	Time: 1000
Comments: ***Fed Ex Priority Overnight***				# of Coolers this Shipment:	

DISTRIBUTION: WHITE - Returned to Client with Report Canary - Stays with the Sample Pink - Field Copy

COOLER RECEIPT FORM

1) Project: 744653.84115 HAMMOND B.G.R.-LA Date Received: 8/8/08

2) Coolers: Number of Coolers: 3

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 6 Date on seal? 8/7/08

5) Name on seal? See label below

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) Mstr# 7955 - 2) 1796 - 9201 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Bubble wrapped in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: Ø

15) Cooler temp(s): 1) 22 °C 2) 2.5 °C 3) 3.0 °C 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 10?

Lab notified if pH was not adequate:

Deficiencies: Soil samples received without ice; water samples received with ice

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials EA
Date 8/7/08

EXPLOSIVES
EPA METHOD 8330B

APPL, INC.

EPA 8330B
EXPLOSIVES

Water
Sample & QC Data

APPL, INC.

EPA 8330B Explosives-Water

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-02
Sample Collection Date: 8/6/2008

ARF: 56740
APPL ID: AX82333
QCG: $83BUAW-080813A-125473

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.10 U	1.0	0.10	ug/L	8/13/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	HMX	0.12 U	1.0	0.12	ug/L	8/13/2008	8/23/2008
EPA 8330	Nitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	Nitroglycerin	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	PETN	0.61 U	6.0	0.61	ug/L	8/13/2008	8/23/2008
EPA 8330	RDX	0.12 U	0.5	0.12	ug/L	8/13/2008	8/23/2008
EPA 8330	Tetryl	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	119	70-130		%	8/13/2008	8/23/2008

Quant Method: ACC_DAD1.m
Run #: 0822_032.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: RJB

Printed: 8/28/2008 2:23:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_032.D\DAD1B.CH Vial: 61
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_032.D\DAD1A.CH
Acq On : 23-Aug-08, 21:31 Operator: RJB
Sample : AX82333W Inst : G1315A
Misc : WATER Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:55 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.56	2642	1.186	ppb	
Spiked Amount 1.000	Recovery	=	118.60%		
Target Compounds					
10) TMB 2,4-DNT	23.37	76	<MDL	ppb	m
11) TMA 2-NT	25.64	102	<MDL	ppb	m
12) TMA 4-NT	27.30	651	0.814	ppb	m J, y= ND
13) TMB 3,5-Dinitroaniline	28.61	376	0.279	ppb	m NT
14) TMB 3-NT	30.33	96	<MDL	ppb	m
16) TMA 2-Am-4,6-DNT	32.59	363	0.407	ppb	m NC, ND
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_032.D
Operator : RJB
Acquired : 23-Aug-08, 21:31 using AcqMethod ACC_GRAD.M
Instrument : G1315A
Sample Name: AX82333W
Misc Info : WATER
Vial Number: 61

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_032.D Vial: 61
Acq On : 23-Aug-08, 21:31 Operator: RJB
Sample : AX82333W Inst : G1315A
Misc : WATER Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_038.D Vial: 85
Acq On : 27-Aug-08, 10:03 Operator: RJB
Sample : AX82333W CONF Inst : G1314A
Misc : water Multiplr: 20.00
IntFile : EVENTS.E
Quant Time: Aug 27 15:00 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254G.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.74	20307	1.038	ppb	m
Spiked Amount 1.000	Recovery	= 103.80%			
Target Compounds					
5) TMB 1,3-DNB	20.01	1149	<MDL	ppb	m
9) TMA 2,4,6-TNT	26.47	706	<MDL	ppb	m
11) TMB 4-Am-2,6-DNT	29.51	1357	<MDL	ppb	m
12) TMA 2-Am-4,6-DNT	29.51	1430	<MDL	ppb	m
13) TMA 2,6-DNT	32.24	639	<MDL	ppb	m
15) TMA 2-NT	40.35	462	<MDL	ppb	m
16) TMA 4-NT	45.13	2188	0.301	ppb	m J
18) TMA PETN	54.35	4640	1.858	ppb	m NC
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	
2) TMB RDX	0.00	0	N.D.	ppb	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	
17) TMB 3-NT	0.00	0	N.D.	ppb	

File : J:\UV2\HPCHEM\2\DATA\080825\0825_038.D
Operator : RJB
Acquired : 27-Aug-08, 10:03 using AcqMethod 214-254G.M
Instrument : G1314A
Sample Name: AX82333W CONF
Misc Info : water
Vial Number: 85

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_038.D Vial: 85
Acq On : 27-Aug-08, 10:03 Operator: RJB
Sample : AX82333W CONF Inst : G1314A
Misc : water Multiplr: 20.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B Explosives-Water

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-GW-03

APPL ID: AX82334

Sample Collection Date: 8/7/2008

QCG: $83BUAW-080813A-125473

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.10 U	1.0	0.10	ug/L	8/13/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	HMX	0.12 U	1.0	0.12	ug/L	8/13/2008	8/23/2008
EPA 8330	Nitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	Nitroglycerin	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	PETN	0.61 U	6.0	0.61	ug/L	8/13/2008	8/23/2008
EPA 8330	RDX	0.12 U	0.5	0.12	ug/L	8/13/2008	8/23/2008
EPA 8330	Tetryl	0.13 U	1.0	0.13	ug/L	8/13/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	105	70-130		%	8/13/2008	8/23/2008

Quant Method: ACC_DAD1.m
Run #: 0822_033.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: RJB

Printed: 8/28/2008 2:23:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_033.D\DAD1B.CH Vial: 62
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_033.D\DAD1A.CH
Acq On : 23-Aug-08, 22:51 Operator: RJB
Sample : AX82334W Inst : G1315A
Misc : WATER Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:56 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
3) SA 1,2-DNB	13.55	2345	1.053	ppb		
Spiked Amount 1.000	Recovery	=	105.30%			
Target Compounds						
5) TMB Nitrobenzene	15.11	76	<MDL	ppb		
10) TMB 2,4-DNT	23.40	101	<MDL	ppb	m	
12) TMA 4-NT	27.27	436	0.546	ppb	m	J,y=ND
13) TMB 3,5-Dinitroaniline	28.55	319	0.236	ppb	m	NT
16) TMA 2-Am-4,6-DNT	32.52	180	0.202	ppb	m	NC
Target Compounds						
1) TMB RDX	0.00	0	N.D.	ppb		
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb		
4) TMB 1,3-DNB	0.00	0	N.D.	ppb		
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb		
7) TMA Tetryl	0.00	0	N.D.	ppb		
8) TMB Nitroglycerin	0.00	0	N.D.	ppb		
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d	
11) TMA 2-NT	0.00	0	N.D.	ppb	d	
14) TMB 3-NT	0.00	0	N.D.	ppb		
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb		
17) TMA PETN	0.00	0	N.D.	ppb		
19) TMB HMX #2	0.00	0	N.D.	ppb		

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_033.D
Operator : RJB
Acquired : 23-Aug-08, 22:51 using AcqMethod ACC_GRAD.M
Instrument : G1315A
Sample Name: AX82334W
Misc Info : WATER
Vial Number: 62

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_033.D Vial: 62
Acq On : 23-Aug-08, 22:51 Operator: RJB
Sample : AX82334W Inst : G1315A
Misc : WATER Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_039.D Vial: 86
Acq On : 27-Aug-08, 11:40 Operator: RJB
Sample : AX82334W CONF Inst : G1314A
Misc : water Multiplr: 20.00
IntFile : EVENTS.E
Quant Time: Aug 27 15:09 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254G.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.69	20515	1.049	ppb	
Spiked Amount 1.000	Recovery	=	104.90%		
Target Compounds					
5) TMB 1,3-DNB	19.93	1150	<MDL	ppb	m
7) TMA Tetryl	23.33	657	<MDL	ppb	m
8) TMB Nitrobenzene	23.33	631	<MDL	ppb	m
9) TMA 2,4,6-TNT	26.45	808	<MDL	ppb	
11) TMB 4-Am-2,6-DNT	29.58	1874	0.110	ppb	NC
12) TMA 2-Am-4,6-DNT	29.56	1874	<MDL	ppb	m
13) TMA 2,6-DNT	32.48	2107	0.184	ppb	NC
14) TMB 2,4-DNT	33.51	1999	0.211	ppb	NC
16) TMA 4-NT	44.23	1030	0.142	ppb	m J
17) TMB 3-NT	47.10	300	<MDL	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	
2) TMB RDX	0.00	0	N.D.	ppb	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	
15) TMA 2-NT	0.00	0	N.D.	ppb	
18) TMA PETN	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_039.D
Operator : RJB
Acquired : 27-Aug-08, 11:40 using AcqMethod 214-254G.M
Instrument : G1314A
Sample Name: AX82334W CONF
Misc Info : water
Vial Number: 86

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_039.D Vial: 86
Acq On : 27-Aug-08, 11:40 Operator: RJB
Sample : AX82334W CONF Inst : G1314A
Misc : water Multiplr: 20.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B Explosives-Water

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-01
Sample Collection Date: 8/6/2008

ARF: 56740
APPL ID: AX82344
QCG: $83BUAW-080813A-125473

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	1,3-Dinitrobenzene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,4,6-Trinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,4-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,6-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	3-Nitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.10 U	1.0	0.10	ug/L	8/13/2008	8/24/2008
EPA 8330	4-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	HMX	0.12 U	1.0	0.12	ug/L	8/13/2008	8/24/2008
EPA 8330	Nitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	Nitroglycerin	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	PETN	0.61 U	6.0	0.61	ug/L	8/13/2008	8/24/2008
EPA 8330	RDX	0.12 U	0.5	0.12	ug/L	8/13/2008	8/24/2008
EPA 8330	Tetryl	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	108	70-130		%	8/13/2008	8/24/2008

Quant Method: ACC_DAD1.m
Run #: 0822_034.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: RJB

Printed: 8/28/2008 2:23:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_034.D\DAD1B.CH Vial: 63
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_034.D\DAD1A.CH
Acq On : 24-Aug-08, 00:10 Operator: RJB
Sample : AX82344W Inst : G1315A
Misc : WATER Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:58 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
3) SA 1,2-DNB	13.55	2400	1.078	ppb		
Spiked Amount 1.000		Recovery =	107.80%			
Target Compounds						
1) TMB RDX	10.80	158	<MDL	ppb	m	
10) TMB 2,4-DNT	23.43	91	<MDL	ppb		
12) TMA 4-NT	27.31	354	0.443	ppb	m	NC
13) TMB 3,5-Dinitroaniline	28.60	451	0.335	ppb	m	NT
16) TMA 2-Am-4,6-DNT	32.51	248	0.278	ppb	m	NC
Target Compounds						
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb		
4) TMB 1,3-DNB	0.00	0	N.D.	ppb		
5) TMB Nitrobenzene	0.00	0	N.D.	ppb		
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb		
7) TMA Tetryl	0.00	0	N.D.	ppb		
8) TMB Nitroglycerin	0.00	0	N.D.	ppb		
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d	
11) TMA 2-NT	0.00	0	N.D.	ppb	d	
14) TMB 3-NT	0.00	0	N.D.	ppb		
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d	
17) TMA PETN	0.00	0	N.D.	ppb	d	
19) TMB HMX #2	0.00	0	N.D.	ppb		

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_034.D
Operator : RJB
Acquired : 24-Aug-08, 00:10 using AcqMethod ACC_GRAD.M
Instrument : G1315A
Sample Name: AX82344W
Misc Info : WATER
Vial Number: 63

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_034.D Vial: 63
Acq On : 24-Aug-08, 00:10 Operator: RJB
Sample : AX82344W Inst : G1315A
Misc : WATER Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_040.D Vial: 87
Acq On : 27-Aug-08, 13:17 Operator: RJB
Sample : AX82344W CONF Inst : G1314A
Misc : water Multiplr: 20.00
IntFile : EVENTS.E
Quant Time: Aug 27 15:04 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254G.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.65	20841	1.066	ppb	
Spiked Amount 1.000		Recovery	= 106.60%		
Target Compounds					
5) TMB 1,3-DNB	19.98	2250	0.145	ppb	NC
7) TMA Tetryl	23.19	768	<MDL	ppb	m
8) TMB Nitrobenzene	23.19	765	<MDL	ppb	m
9) TMA 2,4,6-TNT	26.45	946	<MDL	ppb	
10) TMB Nitroglycerin	27.49	916	0.205	ppb	NC
11) TMB 4-Am-2,6-DNT	29.26	1975	0.116	ppb	NC
12) TMA 2-Am-4,6-DNT	29.27	1855	<MDL	ppb	m
14) TMB 2,4-DNT	33.14	1873	0.197	ppb	NC
15) TMA 2-NT	40.47	1323	0.179	ppb	m NC
16) TMA 4-NT	44.33	491	<MDL	ppb	m
17) TMB 3-NT	46.57	782	<MDL	ppb	m
18) TMA PETN	53.55	954	<MDL	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	
2) TMB RDX	0.00	0	N.D.	ppb	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	

File : J:\UV2\HPCHEM\2\DATA\080825\0825_040.D
Operator : RJB
Acquired : 27-Aug-08, 13:17 using AcqMethod 214-254G.M
Instrument : G1314A
Sample Name: AX82344W CONF
Misc Info : water
Vial Number: 87

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_040.D Vial: 87
Acq On : 27-Aug-08, 13:17 Operator: RJB
Sample : AX82344W CONF Inst : G1314A
Misc : water Multiplr: 20.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B Explosives-Water

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-GW-04

APPL ID: AX82345

Sample Collection Date: 8/6/2008

QCG: $83BUAW-080813A-125473

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	1,3-Dinitrobenzene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,4,6-Trinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,4-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2,6-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	2-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	3-Nitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.10 U	1.0	0.10	ug/L	8/13/2008	8/24/2008
EPA 8330	4-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	HMX	0.12 U	1.0	0.12	ug/L	8/13/2008	8/24/2008
EPA 8330	Nitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	Nitroglycerin	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	PETN	0.61 U	6.0	0.61	ug/L	8/13/2008	8/24/2008
EPA 8330	RDX	0.12 U	0.5	0.12	ug/L	8/13/2008	8/24/2008
EPA 8330	Tetryl	0.13 U	1.0	0.13	ug/L	8/13/2008	8/24/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	108	70-130		%	8/13/2008	8/24/2008

Quant Method: ACC_DAD1.m
Run #: 0822_035.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: RJB

Printed: 8/28/2008 2:23:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_035.D\DAD1B.CH Vial: 64
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_035.D\DAD1A.CH
Acq On : 24-Aug-08, 01:30 Operator: RJB
Sample : AX82345W Inst : G1315A
Misc : WATER Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:58 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.57	2402	1.079	ppb	
Spiked Amount 1.000	Recovery	=	107.90%		
Target Compounds					
2) TMA 1,3,5-TNB	11.79	128	<MDL	ppb	
6) TMA 2,4,6-TNT	19.52	108	<MDL	ppb	
10) TMB 2,4-DNT	23.46	90	<MDL	ppb	
11) TMA 2-NT	25.32	65	<MDL	ppb	
12) TMA 4-NT	27.31	514	0.643	ppb	
13) TMB 3,5-Dinitroaniline	28.59	414	0.307	ppb	NT
14) TMB 3-NT	29.75	168	<MDL	ppb	
16) TMA 2-Am-4,6-DNT	32.50	196	0.220	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_035.D
Operator : RJB
Acquired : 24-Aug-08, 01:30 using AcqMethod ACC_GRAD.M
Instrument : G1315A
Sample Name: AX82345W
Misc Info : WATER
Vial Number: 64

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_035.D Vial: 64
Acq On : 24-Aug-08, 01:30 Operator: RJB
Sample : AX82345W Inst : G1315A
Misc : WATER Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_046.D Vial: 88
Acq On : 27-Aug-08, 20:42 Operator: RJB
Sample : AX82345W CONF Inst : G1314A
Misc : water Multiplr: 20.00
IntFile : EVENTS.E
Quant Time: Aug 28 7:19 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254G.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.75	20318	1.039	ppb	m
Spiked Amount 1.000		Recovery	= 103.90%		
Target Compounds					
5) TMB 1,3-DNB	19.93	2738	0.176	ppb	m NC
6) TM 3,5-Dinitroaniline	21.19	1314	<MDL	ppb	m
9) TMA 2,4,6-TNT	26.59	2023	<MDL	ppb	m
12) TMA 2-Am-4,6-DNT	29.77	1751	<MDL	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	
2) TMB RDX	0.00	0	N.D.	ppb	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	
15) TMA 2-NT	0.00	0	N.D.	ppb	
16) TMA 4-NT	0.00	0	N.D.	ppb	
17) TMB 3-NT	0.00	0	N.D.	ppb	
18) TMA PETN	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_046.D
Operator : RJB
Acquired : 27-Aug-08, 20:42 using AcqMethod 214-254G.M
Instrument : G1314A
Sample Name: AX82345W CONF
Misc Info : water
Vial Number: 88

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_046.D Vial: 88
Acq On : 27-Aug-08, 20:42 Operator: RJB
Sample : AX82345W CONF Inst : G1314A
Misc : water Multiplr: 20.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 56740
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/20/2008
Instrument: UV1200

APPL ID.	Client Sample No.	Surr: 1,2-Dinitrobenzene
080813A-LCS	Lab Control Spike	93.1
AX82344-MS	Matrix Spike	93.6
AX82344-MSD	Matrix SpikeD	95.9
080813A-BLK	Blank	85.9
AX82333	HBGR-GW-02	119
AX82334	HBGR-GW-03	105
AX82344	HBGR-GW-01	108
AX82345	HBGR-GW-04	108

Comments: Batch: $83BUAW-080813A

EPA 8330

Form 4

Blank Summary

Lab Name: APPL, Inc.
SDG No: 56740
Case No: 56740
Date Analyzed: 8/22/2008
Matrix: WATER
Instrument: UV1200
Blank ID: 080813A-BLK
Time Analyzed: 2209

APPL ID.	Client Sample No.	File ID.	Date Analyzed
080813A-LCS	Lab Control Spike	0820_003,004.D	8/20/2008 1609
080813A-MS	Matrix Spike	0820_005,007.D	8/20/2008 1834
080813A-MSD	Matrix SpikeD	0820_006,008.D	8/20/2008 1954
080813A-BLK	Blank	0822_007.D	8/22/2008 2209
AX82333	HBGR-GW-02	0822_032.D	8/23/2008 2131
AX82334	HBGR-GW-03	0822_033.D	8/23/2008 2251
AX82344	HBGR-GW-01	0822_034.D	8/24/2008 0010
AX82345	HBGR-GW-04	0822_035.D	8/24/2008 0130

Comments: Batch: $83BUAW-080813A

Method Blank

EPA 8330B Explosives-Water

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Blank Name/QCG: **080813W-82344 - 125473**
Batch ID: $83BUAW-080813A

Sample Type	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,3,5-Trinitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	1,3-Dinitrobenzene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	2,4,6-Trinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	2,4-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	2,6-Dinitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	2-Amino-4,6-Dinitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	2-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	3-Nitrotoluene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	4-Amino-2,6-Dinitrotoluene	0.10 U	1.0	0.10	ug/L	8/13/2008	8/22/2008
BLANK	4-Nitrotoluene	0.13 U	0.5	0.13	ug/L	8/13/2008	8/22/2008
BLANK	HMX	0.12 U	1.0	0.12	ug/L	8/13/2008	8/22/2008
BLANK	Nitrobenzene	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	Nitroglycerin	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	PETN	0.61 U	6.0	0.61	ug/L	8/13/2008	8/22/2008
BLANK	RDX	0.12 U	0.5	0.12	ug/L	8/13/2008	8/22/2008
BLANK	Tetryl	0.13 U	1.0	0.13	ug/L	8/13/2008	8/22/2008
BLANK	Surrogate recovery: 1,2-Dinitrobenzene	85.9	70-130		%	8/13/2008	8/22/2008

Quant Method: ACC_DAD1.
Run #: 0822_007.D
Instrument: UV1200
Sequence: 080627
Initials: RJB

GC SC-Blank-REG MDLs
Printed: 8/28/2008 2:23:32 PM

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_007.D\DAD1B.CH Vial: 80
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_007.D\DAD1A.CH
Acq On : 22-Aug-08, 22:09 Operator: RJB
Sample : 080813WBLKA Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 23 9:50 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
3) SA 1,2-DNB	13.63	1912	0.859	ppb	m	
Spiked Amount 1.000	Recovery	=	85.90%			
Target Compounds						
1) TMB RDX	10.97	124	<MDL	ppb	m	
2) TMA 1,3,5-TNB	12.11	66	<MDL	ppb	m	
5) TMB Nitrobenzene	15.15	83	<MDL	ppb	m	
9) TMA 2,6-DNT	22.05	56	<MDL	ppb	m	
10) TMB 2,4-DNT	23.56	67	<MDL	ppb	m	
11) TMA 2-NT	25.44	190	0.136	ppb	m	NC
12) TMA 4-NT	28.59	304	0.380	ppb	m	NC JY
13) TMB 3,5-Dinitroaniline N.T.	28.59	304	0.225	ppb	m	N.T.
14) TMB 3-NT	29.75	320	0.228	ppb	m	NC
Target Compounds						
4) TMB 1,3-DNB	0.00	0	N.D.	ppb		
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb		
7) TMA Tetryl	0.00	0	N.D.	ppb		
8) TMB Nitroglycerin	0.00	0	N.D.	ppb		
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb		
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb		
17) TMA PETN	0.00	0	N.D.	ppb		
19) TMB HMX #2	0.00	0	N.D.	ppb	d	

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_007.D
Operator : RJB
Acquired : 22-Aug-08, 22:09 using AcqMethod ACC_GRAD.M
Instrument : G1315A
Sample Name: 080813WBLKA
Misc Info : water
Vial Number: 80

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_007.D Vial: 80
Acq On : 22-Aug-08, 22:09 Operator: RJB
Sample : 080813WBLKA Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : F:\UV2\HPCHEM\2\DATA\080825\0825_025.D Vial: 45
Acq On : 26-Aug-08, 18:09 Operator: RJB
Sample : 080813WBLKA CONF Inst : G1314A
Misc : water Multiplr: 20.00
IntFile : EVENTS.E
Quant Time: Aug 27 6:25 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integr
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254G.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
4) SA 1,2-DNB	16.69	16762	0.857	ppb		
Spiked Amount 1.000		Recovery =	85.70%			
Target Compounds						
5) TMB 1,3-DNB	19.95	1164	<MDL	ppb	m	
9) TMA 2,4,6-TNT	26.87	781	<MDL	ppb	m	
10) TMB Nitroglycerin	26.87	771	0.173	ppb	m	NC
12) TMA 2-Am-4,6-DNT	29.59	731	<MDL	ppb	m	
13) TMA 2,6-DNT	32.30	793	<MDL	ppb	m	
14) TMB 2,4-DNT	33.48	401	<MDL	ppb	m	
16) TMA 4-NT	45.04	1148	0.158	ppb	m	NC
Target Compounds						
1) TMB HMX	0.00	0	N.D.	ppb	d	
2) TMB RDX	0.00	0	N.D.	ppb	d	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d	
7) TMA Tetryl	0.00	0	N.D.	ppb		
8) TMB Nitrobenzene	0.00	0	N.D.	ppb		
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d	
15) TMA 2-NT	0.00	0	N.D.	ppb		
17) TMB 3-NT	0.00	0	N.D.	ppb		
18) TMA PETN	0.00	0	N.D.	ppb	d	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : F:\UV2\HPCHEM\2\DATA\080825\0825_025.D
Operator : RJB
Acquired : 26-Aug-08, 18:09 using AcqMethod 214-254G.M
Instrument : G1314A
Sample Name: 080813WBLKA CONF
Misc Info : water
Vial Number: 45

Quantitation Report (QT Reviewed)

Data File : F:\UV2\HPCHEM\2\DATA\080825\0825_025.D Vial: 45
Acq On : 26-Aug-08, 18:09 Operator: RJB
Sample : 080813WBLKA CONF Inst : G1314A
Misc : water Multiplr: 20.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

Laboratory Control Spike Recovery
EPA 8330B Explosives-Water

APPL ID: **080813W-82344 LCS - 125473**
Batch ID: $83BUAW-080813A

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,3,5-Trinitrobenzene	10.00	9.42	94.2	65-140
1,3-Dinitrobenzene	10.00	9.61	96.1	45-160
2,4,6-Trinitrotoluene	10.00	8.96	89.6	50-145
2,4-Dinitrotoluene	10.00	9.34	93.4	60-135
2,6-Dinitrotoluene	10.00	8.74	87.4	60-135
2-Amino-4,6-Dinitrotoluene	10.00	8.57	85.7	50-155
2-Nitrotoluene	10.00	7.95	79.5	45-135
3-Nitrotoluene	10.00	8.81	88.1	50-130
4-Amino-2,6-Dinitrotoluene	10.00	8.48	84.8	55-155
4-Nitrotoluene	10.00	8.80	88.0	50-130
HMX	10.00	11.0	110	80-115
Nitrobenzene	10.00	9.17	91.7	50-140
Nitroglycerin	10.00	9.51	95.1	71-126
PETN	50.0	48.7	97.4	65-115
RDX	10.00	9.72	97.2	50-160
Tetryl	10.00	9.68	96.8	20-175
Surrogate recovery: 1,2-Dinitrobenzene	10.00	9.31	93.1	70-130

Comments:

Primary	SPK
Quant Method :	ACC_DAD1.M
Extraction Date :	8/13/2008
Analysis Date :	8/20/2008
Instrument :	UV1200
Run :	0820_003,004.D
Initials :	RJB

Printed: 8/28/2008 2:23:25 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_003.D\DAD1B.CH Vial: 93
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_003.D\DAD1A.CH
Acq On : 20-Aug-08, 16:09 Operator: RJB
Sample : 080813WLCS1A Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:09 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.55	20733	9.311	ppb	m
Spiked Amount 1.000		Recovery =	931.10%		
Target Compounds					
2) TMA 1,3,5-TNB	11.71	32149	9.421	ppb	m
6) TMA 2,4,6-TNT	19.49	16539	8.958	ppb	m
7) TMA Tetryl	20.33	15868	9.678	ppb	m
9) TMA 2,6-DNT	22.42	13055	8.738	ppb	m
11) TMA 2-NT	25.66	11121	7.954	ppb	m
12) TMA 4-NT	28.02	7027	8.795	ppb	
16) TMA 2-Am-4,6-DNT	33.45	7639	8.571	ppb	m
17) TMA PETN	44.31	17352	48.740	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

LA = 10.0 / 50.0 for PETN

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_003.D Vial: 93
Acq On : 20-Aug-08, 16:09 Operator: RJB
Sample : 080813WLCS1A Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

8-25-08

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_003.D Vial: 93
Acq On : 20-Aug-08, 16:09 Operator: RJB
Sample : 080813WLCS1A Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_004.D\DAD1B.CH Vial: 94
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_004.D\DAD1A.CH
Acq On : 20-Aug-08, 17:29 Operator: RJB
Sample : 080813WLCS2A Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:11 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCBGRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 1.000	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.01	18551	9.723	ppb	m
4) TMB 1,3-DNB	14.36	15812	9.607	ppb	m
5) TMB Nitrobenzene	15.51	14176	9.173	ppb	m
8) TMB Nitroglycerin	20.75	7260	9.508	ppb	m
10) TMB 2,4-DNT	23.56	11080	9.336	ppb	m
14) TMB 3-NT	30.12	12387	8.813	ppb	m
15) TMB 4-Am-2,6-DNT	31.51	8106	8.477	ppb	m
19) TMB HMX #2	7.16	10652	10.992	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

LA=10.0

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_004.D Vial: 94
Acq On : 20-Aug-08, 17:29 Operator: RJB
Sample : 080813WLCS2A Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_004.D Vial: 94
Acq On : 20-Aug-08, 17:29 Operator: RJB
Sample : 080813WLCS2A Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Matrix Spike Recoveries

EPA 8330B Explosives-Water

APPL ID: **080813W-82344 MS - 125473**
Batch ID: $83BUAW-080813A
Sample ID: AX82344
Client ID: HBGR-GW-01

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,3,5-Trinitrobenzene	10.00	ND	9.41	9.61	94.1	96.1	65-140	2.1	30
1,3-Dinitrobenzene	10.00	ND	9.70	9.36	97.0	93.6	45-160	3.6	30
2,4,6-Trinitrotoluene	10.00	ND	8.94	9.04	89.4	90.4	50-145	1.1	30
2,4-Dinitrotoluene	10.00	ND	9.67	9.29	96.7	92.9	60-135	4.0	30
2,6-Dinitrotoluene	10.00	ND	8.94	8.99	89.4	89.9	60-135	0.56	30
2-Amino-4,6-Dinitrotoluene	10.00	ND	8.08	8.46	80.8	84.6	50-155	4.6	30
2-Nitrotoluene	10.00	ND	8.73	8.48	87.3	84.8	45-135	2.9	30
3-Nitrotoluene	10.00	ND	9.11	8.71	91.1	87.1	50-130	4.5	30
4-Amino-2,6-Dinitrotoluene	10.00	ND	7.44	7.77	74.4	77.7	55-155	4.3	30
4-Nitrotoluene	10.00	ND	9.54	9.23	95.4	92.3	50-130	3.3	30
HMX	10.00	ND	10.7	10.6	107	106	80-115	0.94	30
Nitrobenzene	10.00	ND	9.35	9.08	93.5	90.8	50-140	2.9	30
Nitroglycerin	10.00	ND	9.59	9.24	95.9	92.4	71-126	3.7	30
PETN	50.0	ND	48.0	49.2	96.0	98.4	65-115	2.5	30
RDX	10.00	ND	9.93	9.59	99.3	95.9	50-160	3.5	30
Tetryl	10.00	ND	9.60	9.61	96.0	96.1	20-175	0.10	30
Surrogate recovery: 1,2-Dinitrobenzene	10.00	NA	9.36	9.59	93.6	95.9	70-130		

Comments:

Primary	SPK	DUP
Quant Method :	ACC_DAD1.M	ACC_DAD1.M
Extraction Date :	8/13/2008	8/13/2008
Analysis Date :	8/20/2008	8/20/2008
Instrument :	UV1200	UV1200
Run :	)820_005,007.[	)820_006,008.[
Initials :	RJB	

Printed: 8/28/2008 2:23:22 PM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_005.D\DAD1B.CH Vial: 95
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_005.D\DAD1A.CH
Acq On : 20-Aug-08, 18:34 Operator: RJB
Sample : AX82344W_MS-1 Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:14 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.59	20838	9.358	ppb	m
Spiked Amount 1.000	Recovery	=	935.80%		
Target Compounds					
2) TMA 1,3,5-TNB	11.74	32110	9.410	ppb	m
6) TMA 2,4,6-TNT	19.55	16502	8.938	ppb	m
7) TMA Tetryl	20.40	15745	9.604	ppb	m
9) TMA 2,6-DNT	22.49	13350	8.935	ppb	m
11) TMA 2-NT	25.75	12210	8.733	ppb	m
12) TMA 4-NT	28.11	7626	9.544	ppb	m
16) TMA 2-Am-4,6-DNT	33.54	7198	8.076	ppb	m
17) TMA PETN	44.50	17103	48.039	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

MA = 10.0 / 50.0 for PETN

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_005.D Vial: 95
Acq On : 20-Aug-08, 18:34 Operator: RJB
Sample : AX82344W_MS-1 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_005.D Vial: 95
Acq On : 20-Aug-08, 18:34 Operator: RJB
Sample : AX82344W_MS-1 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_007.D\DAD1B.CH Vial: 97
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_007.D\DAD1A.CH
Acq On : 20-Aug-08, 21:13 Operator: RJB
Sample : AX82344W_MS-2 Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:19 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 1.000	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.08	18950	9.933	ppb	m
4) TMB 1,3-DNB	14.43	15965	9.701	ppb	m
5) TMB Nitrobenzene	15.58	14451	9.350	ppb	m
8) TMB Nitroglycerin	20.85	7324	9.592	ppb	m
10) TMB 2,4-DNT	23.70	11476	9.670	ppb	m
14) TMB 3-NT	30.31	12808	9.113	ppb	m
15) TMB 4-Am-2,6-DNT	31.83	7117	7.443	ppb	m
19) TMB HMX #2	7.20	10324	10.653	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

MA = 10.0

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_007.D Vial: 97
Acq On : 20-Aug-08, 21:13 Operator: RJB
Sample : AX82344W_MS-2 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_007.D Vial: 97
Acq On : 20-Aug-08, 21:13 Operator: RJB
Sample : AX82344W_MS-2 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

8/21/08
8:28:08

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_006.D\DAD1B.CH Vial: 96
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_006.D\DAD1A.CH
Acq On : 20-Aug-08, 19:54 Operator: RJB
Sample : AX82344W_MSD-1 Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:15 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.64	21363	9.594	ppb	m
Spiked Amount 1.000	Recovery	=	959.40%		
Target Compounds					
2) TMA 1,3,5-TNB	11.77	32795	9.610	ppb	m
6) TMA 2,4,6-TNT	19.62	16680	9.035	ppb	m
7) TMA Tetryl	20.50	15760	9.613	ppb	
9) TMA 2,6-DNT	22.58	13438	8.994	ppb	m
11) TMA 2-NT	25.85	11856	8.480	ppb	m
12) TMA 4-NT	28.23	7375	9.230	ppb	m
16) TMA 2-Am-4,6-DNT	33.76	7543	8.463	ppb	m
17) TMA PETN	44.67	17527	49.230	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

MA= 10.0/50.0 for PETN

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_006.D Vial: 96
Acq On : 20-Aug-08, 19:54 Operator: RJB
Sample : AX82344W_MSD-1 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_006.D Vial: 96
Acq On : 20-Aug-08, 19:54 Operator: RJB
Sample : AX82344W_MSD-1 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_008.D\DAD1B.CH Vial: 98
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_008.D\DAD1A.CH
Acq On : 20-Aug-08, 22:33 Operator: RJB
Sample : AX82344W_MSD-2 Inst : G1315A
Misc : water Multiplr: 20.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:28 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACC_GRAD.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 1.000	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.10	18301	9.592	ppb	m
4) TMB 1,3-DNB	14.44	15409	9.363	ppb	m
5) TMB Nitrobenzene	15.60	14035	9.082	ppb	m
8) TMB Nitroglycerin	20.88	7056	9.240	ppb	m
10) TMB 2,4-DNT	23.73	11028	9.293	ppb	m
14) TMB 3-NT	30.34	12236	8.707	ppb	m
15) TMB 4-Am-2,6-DNT	31.90	7426	7.766	ppb	m
19) TMB HMX #2	7.21	10237	10.563	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

MA = 10.0

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_008.D Vial: 98
Acq On : 20-Aug-08, 22:33 Operator: RJB
Sample : AX82344W_MSD-2 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_008.D Vial: 98
Acq On : 20-Aug-08, 22:33 Operator: RJB
Sample : AX82344W_MSD-2 Inst : G1315A
Misc : water Multiplr: 20.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B
EXPLOSIVES

Soil
Sample & QC Data

APPL, INC.

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-MRS01-DU1-SS-02-01

APPL ID: AX82321

Sample Collection Date: 8/7/2008

QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	98.7	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_017.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_017.D\DAD1B.CH Vial: 88
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_017.D\DAD1A.CH
Acq On : 23-Aug-08, 07:58 Operator: RJB
Sample : AX82321S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:31 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.58	6595	592.370	ppb	m
Spiked Amount 600.000		Recovery =	98.73%		
Target Compounds					
5) TMB Nitrobenzene	15.79	91	<MDL	ppb	
6) TMA 2,4,6-TNT	19.93	313	<MDL	ppb	m
7) TMA Tetryl	19.93	315	<MDL	ppb	m
8) TMB Nitroglycerin	21.14	135	<MDL	ppb	m
9) TMA 2,6-DNT	22.86	50	<MDL	ppb	
11) TMA 2-NT	24.82	123	<MDL	ppb	m
12) TMA 4-NT	28.04	188	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.04	188	<MDL	ppb	
14) TMB 3-NT	29.20	111	<MDL	ppb	m
16) TMA 2-Am-4,6-DNT	32.98	64	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_017.D
Operator : RJB
Acquired : 23-Aug-08, 07:58 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: AX82321S01 10.00 g / 20.0 mL
Misc Info : SOIL
Vial Number: 88

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_017.D Vial: 88
Acq On : 23-Aug-08, 07:58 Operator: RJB
Sample : AX82321S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02A
Sample Collection Date: 8/7/2008

ARF: 56740
APPL ID: AX82322
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	97.8	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_018.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_018.D\DAD1B.CH Vial: 89
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_018.D\DAD1A.CH
Acq On : 23-Aug-08, 08:55 Operator: RJB
Sample : AX82322S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:33 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.55	6530	586.494	ppb	m
Spiked Amount 600.000		Recovery =	97.75%		
Target Compounds					
5) TMB Nitrobenzene	15.80	107	<MDL	ppb	
6) TMA 2,4,6-TNT	19.93	647	<MDL	ppb	
7) TMA Tetryl	19.93	647	<MDL	ppb	
8) TMB Nitroglycerin	21.05	118	<MDL	ppb	
9) TMA 2,6-DNT	22.62	21	<MDL	ppb	
12) TMA 4-NT	27.89	91	<MDL	ppb	m
13) TMB 3,5-Dinitroaniline	27.89	88	<MDL	ppb	m
16) TMA 2-Am-4,6-DNT	34.00	68	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_018.D
Operator : RJB
Acquired : 23-Aug-08, 08:55 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: AX82322S01 10.00 g / 20.0 mL
Misc Info : SOIL
Vial Number: 89

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_018.D Vial: 89
Acq On : 23-Aug-08, 08:55 Operator: RJB
Sample : AX82322S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02B
Sample Collection Date: 8/7/2008

ARF: 56740
APPL ID: AX82323
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	98.0	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_019.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_019.D\DAD1B.CH Vial: 90
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_019.D\DAD1A.CH
Acq On : 23-Aug-08, 09:51 Operator: RJB
Sample : AX82323S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:34 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.54	6549	588.238	ppb	
Spiked Amount 600.000		Recovery =	98.04%		
Target Compounds					
5) TMB Nitrobenzene	15.78	101	<MDL	ppb	
6) TMA 2,4,6-TNT	19.92	641	<MDL	ppb	m
7) TMA Tetryl	19.92	636	<MDL	ppb	m
8) TMB Nitroglycerin	21.03	124	<MDL	ppb	m
11) TMA 2-NT	26.25	77	<MDL	ppb	m
12) TMA 4-NT	28.27	94	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.27	94	<MDL	ppb	
16) TMA 2-Am-4,6-DNT	33.67	110	<MDL	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_019.D
Operator : RJB
Acquired : 23-Aug-08, 09:51 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: AX82323S01 10.00 g / 20.0 mL
Misc Info : SOIL
Vial Number: 90

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_019.D Vial: 90
Acq On : 23-Aug-08, 09:51 Operator: RJB
Sample : AX82323S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02C
Sample Collection Date: 8/7/2008

ARF: 56740
APPL ID: AX82324
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	99.3	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_020.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_020.D\DAD1B.CH Vial: 71
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_020.D\DAD1A.CH
Acq On : 23-Aug-08, 10:47 Operator: RJB
Sample : AX82324S01 10.03 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3988.04
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:36 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.50	6635	594.204	ppb	m
Spiked Amount 598.205		Recovery =	99.33%		
Target Compounds					
5) TMB Nitrobenzene	15.78	108	<MDL	ppb	
6) TMA 2,4,6-TNT	19.91	720	<MDL	ppb	m
7) TMA Tetryl	19.91	721	<MDL	ppb	m
8) TMB Nitroglycerin	21.13	133	<MDL	ppb	m
11) TMA 2-NT	26.18	94	<MDL	ppb	
12) TMA 4-NT	28.27	120	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.27	120	<MDL	ppb	
16) TMA 2-Am-4,6-DNT	33.23	95	<MDL	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

```
File        : J:\UV1200\HPCHEM\1\DATA\080627\0822_020.D
Operator    : RJB
Acquired    : 23-Aug-08, 10:47      using AcqMethod ACCLAIM.M
Instrument  :   G1315A
Sample Name: AX82324S01  10.03 g / 20.0 mL
Misc Info   : SOIL
Vial Number: 71
```

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_020.D Vial: 71
Acq On : 23-Aug-08, 10:47 Operator: RJB
Sample : AX82324S01 10.03 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3988.04
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-MRS01-DU1-SS-02-03

APPL ID: AX82325

Sample Collection Date: 8/7/2008

QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	96.2	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_022.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_022.D\DAD1B.CH Vial: 72
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_022.D\DAD1A.CH
Acq On : 23-Aug-08, 12:24 Operator: RJB
Sample : AX82325S01 10.02 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3992.02
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:39 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte(
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.48	6427	576.160	ppb	m
Spiked Amount 598.802		Recovery =	96.22%		
Target Compounds					
5) TMB Nitrobenzene	15.75	100	<MDL	ppb	
6) TMA 2,4,6-TNT	19.93	638	<MDL	ppb	
7) TMA Tetryl	19.93	638	<MDL	ppb	
8) TMB Nitroglycerin	21.10	112	<MDL	ppb	
11) TMA 2-NT	26.24	61	<MDL	ppb	
12) TMA 4-NT	27.78	163	<MDL	ppb	
16) TMA 2-Am-4,6-DNT	33.73	40	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
14) TMB 3-NT	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_022.D Vial: 72
Acq On : 23-Aug-08, 12:24 Operator: RJB
Sample : AX82325S01 10.02 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3992.02
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_022.D Vial: 72
Acq On : 23-Aug-08, 12:24 Operator: RJB
Sample : AX82325S01 10.02 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3992.02
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-MRS02-DU2-SS-02-01

APPL ID: AX82326

Sample Collection Date: 8/5/2008

QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	95.0	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_023.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_023.D\DAD1B.CH Vial: 73
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_023.D\DAD1A.CH
Acq On : 23-Aug-08, 13:20 Operator: RJB
Sample : AX82326S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:40 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.50	6345	569.931	ppb	
Spiked Amount 600.000		Recovery =	94.99%		
Target Compounds					
2) TMA 1,3,5-TNB	11.47	163	<MDL	ppb	
5) TMB Nitrobenzene	15.74	70	<MDL	ppb	
6) TMA 2,4,6-TNT	19.87	125	<MDL	ppb	
8) TMB Nitroglycerin	21.23	154	<MDL	ppb	
12) TMA 4-NT	28.18	135	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.18	135	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_023.D Vial: 73
Acq On : 23-Aug-08, 13:20 Operator: RJB
Sample : AX82326S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_023.D Vial: 73
Acq On : 23-Aug-08, 13:20 Operator: RJB
Sample : AX82326S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang

Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP

ARF: 56740

Sample ID: HBGR-MRS03-DU3-SS-02-01

APPL ID: AX82327

Sample Collection Date: 8/6/2008

QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	95.2	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_024.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_024.D\DAD1B.CH Vial: 74
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_024.D\DAD1A.CH
Acq On : 23-Aug-08, 14:16 Operator: RJB
Sample : AX82327S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:42 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.48	6362	571.426	ppb	m
Spiked Amount 600.000		Recovery =	95.24%		
Target Compounds					
2) TMA 1,3,5-TNB	11.49	148	<MDL	ppb	
5) TMB Nitrobenzene	15.84	87	<MDL	ppb	
6) TMA 2,4,6-TNT	19.96	565	<MDL	ppb	
7) TMA Tetryl	19.96	565	<MDL	ppb	
11) TMA 2-NT	26.33	120	<MDL	ppb	
12) TMA 4-NT	28.07	224	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.07	224	<MDL	ppb	
14) TMB 3-NT	31.03	435	<MDL	ppb	m
15) TMB 4-Am-2,6-DNT	31.03	431	90.168	ppb	mJ, NC
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_024.D Vial: 74
Acq On : 23-Aug-08, 14:16 Operator: RJB
Sample : AX82327S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_024.D Vial: 74
Acq On : 23-Aug-08, 14:16 Operator: RJB
Sample : AX82327S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_042.D Vial: 89
Acq On : 27-Aug-08, 16:31 Operator: RJB
Sample : AX82327S CONF 10.00 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 4000.00
IntFile : EVENTS.E
Quant Time: Aug 27 17:51 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.57	50559	517.085	ppb	m
Spiked Amount 600.000		Recovery =	86.18%		
Target Compounds					
1) TMB HMX	6.78	1336	<MDL	ppb	m
5) TMB 1,3-DNB	19.95	1304	<MDL	ppb	m
7) TMA Tetryl	22.84	330	<MDL	ppb	m
9) TMA 2,4,6-TNT	26.88	2084	<MDL	ppb	m
10) TMB Nitroglycerin	26.88	2088	<MDL	ppb	m
12) TMA 2-Am-4,6-DNT	30.50	685	<MDL	ppb	m
13) TMA 2,6-DNT	32.08	1348	<MDL	ppb	m
14) TMB 2,4-DNT	33.31	2395	<MDL	ppb	m
18) TMA PETN	54.90	689	<MDL	ppb	m
Target Compounds					
2) TMB RDX	0.00	0	N.D.	ppb	
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
15) TMA 2-NT	0.00	0	N.D.	ppb	
16) TMA 4-NT	0.00	0	N.D.	ppb	
17) TMB 3-NT	0.00	0	N.D.	ppb	

ND

File : J:\UV2\HPCHEM\2\DATA\080825\0825_042.D
Operator : RJB
Acquired : 27-Aug-08, 16:31 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: AX82327S CONF 10.00 g / 20.0 mL
Misc Info : soil
Vial Number: 89

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_042.D Vial: 89
Acq On : 27-Aug-08, 16:31 Operator: RJB
Sample : AX82327S CONF 10.00 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 4000.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS04-DU4-SS-02-01
Sample Collection Date: 8/6/2008

ARF: 56740
APPL ID: AX82328
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	94.1	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_025.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_025.D\DAD1B.CH Vial: 75
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_025.D\DAD1A.CH
Acq On : 23-Aug-08, 15:13 Operator: RJB
Sample : AX82328S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:43 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.47	6285	564.496	ppb	m
Spiked Amount 600.000		Recovery =	94.08%		
Target Compounds					
2) TMA 1,3,5-TNB	11.49	996	<MDL	ppb	
5) TMB Nitrobenzene	16.07	223	<MDL	ppb	m
6) TMA 2,4,6-TNT	19.42	434	<MDL	ppb	m
7) TMA Tetryl	19.83	224	<MDL	ppb	m
8) TMB Nitroglycerin	21.24	335	<MDL	ppb	m
14) TMB 3-NT	30.14	179	<MDL	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

MD

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_025.D Vial: 75
Acq On : 23-Aug-08, 15:13 Operator: RJB
Sample : AX82328S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_025.D Vial: 75
Acq On : 23-Aug-08, 15:13 Operator: RJB
Sample : AX82328S01 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS05-DU5-SS-02-01
Sample Collection Date: 8/6/2008

ARF: 56740
APPL ID: AX82329
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	96.1	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_026.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_026.D\DAD1B.CH Vial: 76
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_026.D\DAD1A.CH
Acq On : 23-Aug-08, 16:09 Operator: RJB
Sample : AX82329S01 10.03 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3988.04
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:45 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.47	6420	574.933	ppb	m
Spiked Amount 598.205		Recovery =	96.11%		
Target Compounds					
2) TMA 1,3,5-TNB	11.57	356	<MDL	ppb	
5) TMB Nitrobenzene	15.70	114	<MDL	ppb	
6) TMA 2,4,6-TNT	19.46	447	<MDL	ppb	m
7) TMA Tetryl	19.71	319	<MDL	ppb	m
9) TMA 2,6-DNT	23.09	78	<MDL	ppb	m
12) TMA 4-NT	28.02	215	<MDL	ppb	
13) TMB 3,5-Dinitroaniline	28.02	215	<MDL	ppb	
14) TMB 3-NT	30.07	243	<MDL	ppb	
15) TMB 4-Am-2,6-DNT	31.25	213	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_026.D Vial: 76
Acq On : 23-Aug-08, 16:09 Operator: RJB
Sample : AX82329S01 10.03 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3988.04
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_026.D Vial: 76
Acq On : 23-Aug-08, 16:09 Operator: RJB
Sample : AX82329S01 10.03 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3988.04
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS05-DU6-SS-02-01
Sample Collection Date: 8/6/2008

ARF: 56740
APPL ID: AX82330
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	94.5	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.M
Run #: 0822_027.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 11:01:27 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_027.D\DAD1B.CH Vial: 77
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_027.D\DAD1A.CH
Acq On : 23-Aug-08, 17:05 Operator: RJB
Sample : AX82330S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:46 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.48	6312	566.352	ppb	
Spiked Amount 599.401		Recovery =	94.49%		
Target Compounds					
2) TMA 1,3,5-TNB	11.50	225	<MDL	ppb	
5) TMB Nitrobenzene	15.57	128	<MDL	ppb	
6) TMA 2,4,6-TNT	19.96	177	<MDL	ppb	
7) TMA Tetryl	19.96	177	<MDL	ppb	
8) TMB Nitroglycerin	21.29	96	<MDL	ppb	m
10) TMB 2,4-DNT	24.10	131	<MDL	ppb	m
11) TMA 2-NT	26.34	76	<MDL	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_027.D Vial: 77
Acq On : 23-Aug-08, 17:05 Operator: RJB
Sample : AX82330S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_027.D Vial: 77
Acq On : 23-Aug-08, 17:05 Operator: RJB
Sample : AX82330S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-AOC-DU7-SS-02-01
Sample Collection Date: 8/5/2008

ARF: 56740
APPL ID: AX82331
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Nitroglycerin	0.31 J	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	94.0	70-130		%	8/14/2008	8/23/2008

J = Estimated value.

Quant Method: ACC_DAD1.M
Run #: 0822_030.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 8/28/2008 2:14:00 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : F:\UV1200\HPCHEM\1\DATA\080627\080822\0822_030.D\DAD1B.CH Vial: 78
Signal #2 : F:\UV1200\HPCHEM\1\DATA\080627\080822\0822_030.D\DAD1A.CH
Acq On : 23-Aug-08, 19:39 Operator: RJB
Sample : AX82331S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:52 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integrat
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : C-18 25 cm x 4.6 Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.52	6282	563.651	ppb	
Spiked Amount 599.401		Recovery =	94.036%		
Target Compounds					
2) TMA 1,3,5-TNB	11.55	1025	<MDL	ppb	
5) TMB Nitrobenzene	15.14	183	<MDL	ppb	
7) TMA Tetryl	20.67	2183	266.003	ppb	m
8) TMB Nitroglycerin interf. shoulder	20.67	2168	567.276	ppb	m
14) TMB 3-NT Report conf.	30.16	44	<MDL	ppb	
16) TMA 2-Am-4,6-DNT column	33.18	96	<MDL	ppb	m
Target Compounds 0825_043.d →					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.
0822_030.D C180825B.M Thu Aug 28 14:10:12 2008

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_030.D
Operator : RJB
Acquired : 23-Aug-08, 19:39 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: AX82331S01 10.01 g / 20.0 mL
Misc Info : SOIL
Vial Number: 78

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_030.D Vial: 78
Acq On : 23-Aug-08, 19:39 Operator: RJB
Sample : AX82331S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_043.D Vial: 90
Acq On : 27-Aug-08, 17:33 Operator: RJB
Sample : AX82331S01 CONF 10.01 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 3996.00
IntFile : EVENTS.E
Quant Time: Aug 28 7:10 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.56	58915	601.940	ppb	m
Spiked Amount 599.401		Recovery =	100.42%		
Target Compounds					
3) TMA 1,3,5-TNB	15.40	4090	<MDL	ppb	m
5) TMB 1,3-DNB	20.03	573	<MDL	ppb	m
10) TMB Nitroglycerin	27.22	6904	309.079	ppb	m J,q
14) TMB 2,4-DNT	33.31	1614	<MDL	ppb	
15) TMA 2-NT	40.02	693	<MDL	ppb	m
16) TMA 4-NT	45.09	2292	<MDL	ppb	m
17) TMB 3-NT	46.20	1238	<MDL	ppb	m
18) TMA PETN	53.75	936	<MDL	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	
2) TMB RDX	0.00	0	N.D.	ppb	
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	

File : J:\UV2\HPCHEM\2\DATA\080825\0825_043.D
Operator : RJB
Acquired : 27-Aug-08, 17:33 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: AX82331S01 CONF 10.01 g / 20.0 mL
Misc Info : soil
Vial Number: 90

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_043.D Vial: 90
Acq On : 27-Aug-08, 17:33 Operator: RJB
Sample : AX82331S01 CONF 10.01 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B Explosives-Soil

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-RL-DU8-SS-02-01
Sample Collection Date: 08/04/08

ARF: 56740
APPL ID: AX82332
QCG: $833WS-080814A-125431

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 8330	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	08/14/08	08/23/08
EPA 8330	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	08/14/08	08/23/08
EPA 8330	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	08/14/08	08/23/08
EPA 8330	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	08/14/08	08/23/08
EPA 8330	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	08/14/08	08/23/08
EPA 8330	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	08/14/08	08/23/08
EPA 8330	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	08/14/08	08/23/08
EPA 8330	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	08/14/08	08/23/08
EPA 8330	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	08/14/08	08/23/08
EPA 8330	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	08/14/08	08/23/08
EPA 8330	HMX	0.080 U	1.00	0.080	mg/Kg	08/14/08	08/23/08
EPA 8330	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	08/14/08	08/23/08
EPA 8330	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	08/14/08	08/23/08
EPA 8330	PETN	0.579 U	2.50	0.579	mg/Kg	08/14/08	08/23/08
EPA 8330	RDX	0.080 U	1.00	0.080	mg/Kg	08/14/08	08/23/08
EPA 8330	Tetryl	0.091 U	1.00	0.091	mg/Kg	08/14/08	08/23/08
EPA 8330	Surrogate recovery: 1,2-Dinitrobenzene	91.6	70-130		%	08/14/08	08/23/08

AMENDED PAGE

Quant Method: ACC_DAD1.M
Run #: 0822_031.D
Instrument: UV1200
Sequence: 080627
Dilution Factor: 1
Initials: PY

Printed: 09/03/08 12:20:35 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_031.D\DAD1B.CH Vial: 79
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_031.D\DAD1A.CH
Acq On : 23-Aug-08, 20:35 Operator: RJB
Sample : AX82332S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:53 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
3) SA 1,2-DNB	13.51	6120	549.175	ppb	m	
Spiked Amount 599.401		Recovery =	91.62%			
Target Compounds						
1) TMB RDX	10.52 RT off	1384	144.910	ppb	m	RT off
2) TMA 1,3,5-TNB	11.53	3268	191.348	ppb		
7) TMA Tetryl	20.05	1964	239.292	ppb	m	NC
8) TMB Nitroglycerin	20.05	1957	512.161	ppb	m	NC
12) TMA 4-NT	28.04	103	<MDL	ppb		
13) TMB 3,5-Dinitroaniline	28.04	103	<MDL	ppb		
14) TMB 3-NT	29.83	162	<MDL	ppb		
16) TMA 2-Am-4,6-DNT	32.54	341	<MDL	ppb		
Target Compounds						
4) TMB 1,3-DNB	0.00	0	N.D.	ppb		
5) TMB Nitrobenzene	0.00	0	N.D.	ppb		
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb		
9) TMA 2,6-DNT	0.00	0	N.D.	ppb		
10) TMB 2,4-DNT	0.00	0	N.D.	ppb		
11) TMA 2-NT	0.00	0	N.D.	ppb		
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb		
17) TMA PETN	0.00	0	N.D.	ppb	d	
19) TMB HMX #2	0.00	0	N.D.	ppb		

ND

39% RPD

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_031.D
Operator : RJB
Acquired : 23-Aug-08, 20:35 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: AX82332S01 10.01 g / 20.0 mL
Misc Info : SOIL
Vial Number: 79

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_031.D Vial: 79
Acq On : 23-Aug-08, 20:35 Operator: RJB
Sample : AX82332S01 10.01 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_044.D Vial: 71
Acq On : 27-Aug-08, 18:36 Operator: RJB
Sample : AX82332S01 CONF 10.01 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 3996.00
IntFile : EVENTS.E
Quant Time: Aug 28 7:13 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units		
System Monitoring Compounds						
4) SA 1,2-DNB	16.57	50073	511.603	ppb	m	
Spiked Amount 599.401		Recovery =	85.35%			
Target Compounds						
2) TMB RDX	11.54	7398	157.560	ppb	m	
3) TMA 1,3,5-TNB	15.05 RT off, ND	48970	284.196	ppb	m	
5) TMB 1,3-DNB	20.01	3000	<MDL	ppb	m	
9) TMA 2,4,6-TNT	26.84	2473	<MDL	ppb	m	
10) TMB Nitroglycerin	26.84	2469	<MDL	ppb	m	
11) TMB 4-Am-2,6-DNT	28.91	1081	<MDL	ppb	m	
12) TMA 2-Am-4,6-DNT	30.27	3935	<MDL	ppb	m	
13) TMA 2,6-DNT	32.02	1832	<MDL	ppb	m	
14) TMB 2,4-DNT	33.32	11779	248.144	ppb	m	NC
15) TMA 2-NT	40.77	1712	<MDL	ppb	m	
16) TMA 4-NT	45.09	8562	235.042	ppb	m	NC
17) TMB 3-NT	46.52	2264	<MDL	ppb	m	
Target Compounds						
1) TMB HMX	0.00	0	N.D.	ppb		
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb		
7) TMA Tetryl	0.00	0	N.D.	ppb		
8) TMB Nitrobenzene	0.00	0	N.D.	ppb		
18) TMA PETN	0.00	0	N.D.	ppb		

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_044.D
Operator : RJB
Acquired : 27-Aug-08, 18:36 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: AX82332S01 CONF 10.01 g / 20.0 mL
Misc Info : soil
Vial Number: 71

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_044.D Vial: 71
Acq On : 27-Aug-08, 18:36 Operator: RJB
Sample : AX82332S01 CONF 10.01 g / 20.0 mL Inst : G1314A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

1,5 [illegible] below

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 56740
Matrix: SOIL

SDG No: 56740
Date Analyzed: 8/20/2008
Instrument: UV1200

APPL ID.	Client Sample No.	Surr: 1,2-Dinitrobenzene
080814A-LCS	Lab Control Spike	90.0
AX82325-MS	Matrix Spike	90.8
AX82325-MSD	Matrix SpikeD	90.0
080814A-BLK	Blank	93.3
AX82321	HBGR-MRS01-DU1-SS-02-01	98.7
AX82322	HBGR-MRS01-DU1-SS-02-02A	97.8
AX82323	HBGR-MRS01-DU1-SS-02-02B	98.0
AX82324	HBGR-MRS01-DU1-SS-02-02C	99.3
AX82325	HBGR-MRS01-DU1-SS-02-03	96.2
AX82326	HBGR-MRS02-DU2-SS-02-01	95.0
AX82327	HBGR-MRS03-DU3-SS-02-01	95.2
AX82328	HBGR-MRS04-DU4-SS-02-01	94.1
AX82329	HBGR-MRS05-DU5-SS-02-01	96.1
AX82330	HBGR-MRS05-DU6-SS-02-01	94.5
AX82331	HBGR-AOC-DU7-SS-02-01	94.0
AX82332	HBGR-RL-DU8-SS-02-01	91.6

Comments: Batch: $833WS-080814A

EPA 8330

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 56740
Matrix: SOIL
Blank ID: 080814A-BLK

SDG No: 56740
Date Analyzed: 8/23/2008
Instrument: UV1200
Time Analyzed: 0702

APPL ID.	Client Sample No.	File ID.	Date Analyzed
080814A-LCS	Lab Control Spike	0820_009,10.D	8/20/2008 2353
080814A-MS	Matrix Spike	0820_011,13.D	8/21/2008 0145
080814A-MSD	Matrix SpikeD	0820_012,14.D	8/21/2008 0241
080814A-BLK	Blank	0822_016.D	8/23/2008 0702
AX82321	HBGR-MRS01-DU1-SS-02-01	0822_017.D	8/23/2008 0758
AX82322	HBGR-MRS01-DU1-SS-02-02A	0822_018.D	8/23/2008 0855
AX82323	HBGR-MRS01-DU1-SS-02-02B	0822_019.D	8/23/2008 0951
AX82324	HBGR-MRS01-DU1-SS-02-02C	0822_020.D	8/23/2008 1047
AX82325	HBGR-MRS01-DU1-SS-02-03	0822_022.D	8/23/2008 1224
AX82326	HBGR-MRS02-DU2-SS-02-01	0822_023.D	8/23/2008 1320
AX82327	HBGR-MRS03-DU3-SS-02-01	0822_024.D	8/23/2008 1416
AX82328	HBGR-MRS04-DU4-SS-02-01	0822_025.D	8/23/2008 1513
AX82329	HBGR-MRS05-DU5-SS-02-01	0822_026.D	8/23/2008 1609
AX82330	HBGR-MRS05-DU6-SS-02-01	0822_027.D	8/23/2008 1705
AX82331	HBGR-AOC-DU7-SS-02-01	0822_030.D	8/23/2008 1939
AX82332	HBGR-RL-DU8-SS-02-01	0822_031.D	8/23/2008 2035

Comments: Batch: $833WS-080814A

Method Blank

EPA 8330B Explosives-Soil

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Blank Name/QCG: **080814S-82325 - 125431**
Batch ID: $833WS-080814A

Sample Type	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,3,5-Trinitrobenzene	0.079 U	0.35	0.079	mg/Kg	8/14/2008	8/23/2008
BLANK	1,3-Dinitrobenzene	0.063 U	0.30	0.063	mg/Kg	8/14/2008	8/23/2008
BLANK	2,4,6-Trinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
BLANK	2,4-Dinitrotoluene	0.083 U	0.35	0.083	mg/Kg	8/14/2008	8/23/2008
BLANK	2,6-Dinitrotoluene	0.083 U	0.50	0.083	mg/Kg	8/14/2008	8/23/2008
BLANK	2-Amino-4,6-Dinitrotoluene	0.083 U	0.75	0.083	mg/Kg	8/14/2008	8/23/2008
BLANK	2-Nitrotoluene	0.066 U	0.30	0.066	mg/Kg	8/14/2008	8/23/2008
BLANK	3-Nitrotoluene	0.071 U	1.00	0.071	mg/Kg	8/14/2008	8/23/2008
BLANK	4-Amino-2,6-Dinitrotoluene	0.075 U	1.25	0.075	mg/Kg	8/14/2008	8/23/2008
BLANK	4-Nitrotoluene	0.095 U	1.00	0.095	mg/Kg	8/14/2008	8/23/2008
BLANK	HMX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
BLANK	Nitrobenzene	0.075 U	0.50	0.075	mg/Kg	8/14/2008	8/23/2008
BLANK	Nitroglycerin	0.085 U	1.00	0.085	mg/Kg	8/14/2008	8/23/2008
BLANK	PETN	0.579 U	2.50	0.579	mg/Kg	8/14/2008	8/23/2008
BLANK	RDX	0.080 U	1.00	0.080	mg/Kg	8/14/2008	8/23/2008
BLANK	Tetryl	0.091 U	1.00	0.091	mg/Kg	8/14/2008	8/23/2008
BLANK	Surrogate recovery: 1,2-Dinitrobenzene	93.3	70-130		%	8/14/2008	8/23/2008

Quant Method: ACC_DAD1.
Run #: 0822_016.D
Instrument: UV1200
Sequence: 080627
Initials: PY

GC SC-Blank-REG MDLs
Printed: 8/28/2008 11:01:31 AM

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_016.D\DAD1B.CH Vial: 87
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_016.D\DAD1A.CH
Acq On : 23-Aug-08, 07:02 Operator: RJB
Sample : 080814SBLKA 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 13:29 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.60	6232	559.797	ppb	m
Spiked Amount 600.000		Recovery =	93.30%		
Target Compounds					
6) TMA 2,4,6-TNT	19.52	189	<MDL	ppb	m
12) TMA 4-NT	28.09	133	<MDL	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	
19) TMB HMX #2	0.00	0	N.D.	ppb	

ND

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_016.D
Operator : RJB
Acquired : 23-Aug-08, 07:02 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 080814SBLKA 10.00 g / 20.0 mL
Misc Info : SOIL
Vial Number: 87

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_016.D Vial: 87
Acq On : 23-Aug-08, 07:02 Operator: RJB
Sample : 080814SBLKA 10.00 g / 20.0 mL Inst : G1315A
Misc : SOIL Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Laboratory Control Spike Recovery
EPA 8330B Explosives-Soil

APPL ID: **080814S-82325 LCS - 125431**
Batch ID: $833WS-080814A

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
1,3,5-Trinitrobenzene	0.749	0.695	92.8	75-125
1,3-Dinitrobenzene	0.749	0.731	97.6	80-125
2,4,6-Trinitrotoluene	0.749	0.678	90.5	55-140
2,4-Dinitrotoluene	0.749	0.716	95.6	80-125
2,6-Dinitrotoluene	0.749	0.664	88.7	80-120
2-Amino-4,6-Dinitrotoluene	0.749	0.679	90.7	80-125
2-Nitrotoluene	0.749	0.651	86.9	80-125
3-Nitrotoluene	0.749	0.683	91.2	75-120
4-Amino-2,6-Dinitrotoluene	0.749	0.722	96.4	80-125
4-Nitrotoluene	0.749	0.707	94.4	75-125
HMX	0.749	0.740	98.8	75-125
Nitrobenzene	0.749	0.657	87.7	75-125
Nitroglycerin	0.749	0.727	97.1	68-131
PETN	3.75	3.80	101	69-132
RDX	0.749	0.665	88.8	70-135
Tetryl	0.749	0.691	92.3	10-150
Surrogate recovery: 1,2-Dinitrobenzene	0.749	0.674	90.0	70-130

Comments:

Primary	SPK
Quant Method :	ACC_DAD1.M
Extraction Date :	8/14/2008
Analysis Date :	8/20/2008
Instrument :	UV1200
Run :	0820_009,10.D
Initials :	PY

Printed: 8/28/2008 11:01:21 AM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_009.D\DAD1B.CH Vial: 99
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_009.D\DAD1A.CH
Acq On : 20-Aug-08, 23:53 Operator: RJB
Sample : 080814SLCS1A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:29 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.65	7514	674.238	ppb	m
Spiked Amount 599.401		Recovery =	112.49%		
Target Compounds					
2) TMA 1,3,5-TNB	11.77	11864	694.625	ppb	m
6) TMA 2,4,6-TNT	19.64	6262	677.707	ppb	✓
7) TMA Tetryl	20.53	5667	690.594	ppb	
9) TMA 2,6-DNT	22.61	4968	664.390	ppb	m
11) TMA 2-NT	25.86	4554	650.850	ppb	m
12) TMA 4-NT	28.25	2828	707.153	ppb	m
16) TMA 2-Am-4,6-DNT	33.89	3031	679.461	ppb	m
17) TMA PETN	44.70	6778	3803.974	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

LA = 749 | 3750 for PETN

Algorithm chk

$$\frac{6262\ (3996)}{369\ (100)} = 678$$ ✓

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_009.D Vial: 99
Acq On : 20-Aug-08, 23:53 Operator: RJB
Sample : 080814SLCS1A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_009.D Vial: 99
Acq On : 20-Aug-08, 23:53 Operator: RJB
Sample : 080814SLCS1A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_010.D\DAD1B.CH Vial: 100
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_010.D\DAD1A.CH
Acq On : 21-Aug-08, 00:49 Operator: RJB
Sample : 080814SLCS2A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:30 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 599.401		Recovery =	0.00%		
Target Compounds					
1) TMB RDX	11.08	6346	664.631	ppb	m
4) TMB 1,3-DNB	14.42	6022	731.027	ppb	m
5) TMB Nitrobenzene	15.57	5080	656.804	ppb	m
8) TMB Nitroglycerin	20.84	2779	727.029	ppb	m
10) TMB 2,4-DNT	23.70	4256	716.493	ppb	m
14) TMB 3-NT	30.30	4804	682.983	ppb	m
15) TMB 4-Am-2,6-DNT	31.91	3456	722.028	ppb	m
19) TMB HMX #2	7.21	3586	739.381	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

LA=749

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_010.D Vial: 100
Acq On : 21-Aug-08, 00:49 Operator: RJB
Sample : 080814SLCS2A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_010.D Vial: 100
Acq On : 21-Aug-08, 00:49 Operator: RJB
Sample : 080814SLCS2A 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Matrix Spike Recoveries
EPA 8330B Explosives-Soil

APPL ID: **080814S-82325 MS - 125431**
Batch ID: $833WS-080814A
Sample ID: AX82325
Client ID: HBGR-MRS01-DU1-SS-02-03

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	SPK Lvl mg/Kg	DUP Lvl mg/Kg	Matrix Result mg/Kg	SPK Result mg/Kg	DUP Result mg/Kg	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,3,5-Trinitrobenzene	0.749	0.750	ND	0.683	0.682	91.2	90.9	75-125	0.33	30
1,3-Dinitrobenzene	0.748	0.750	ND	0.771	0.703	103	93.7	80-125	9.5	30
2,4,6-Trinitrotoluene	0.749	0.750	ND	0.702	0.692	93.7	92.3	55-140	1.5	30
2,4-Dinitrotoluene	0.748	0.750	ND	0.756	0.695	101	92.7	80-125	8.6	30
2,6-Dinitrotoluene	0.749	0.750	ND	0.669	0.654	89.3	87.2	80-120	2.4	30
2-Amino-4,6-Dinitrotoluene	0.749	0.750	ND	0.651	0.656	86.9	87.5	80-125	0.69	30
2-Nitrotoluene	0.749	0.750	ND	0.664	0.652	88.7	86.9	80-125	2.1	30
3-Nitrotoluene	0.748	0.750	ND	0.743	0.697	99.3	92.9	75-120	6.7	30
4-Amino-2,6-Dinitrotoluene	0.748	0.750	ND	0.618	0.600	82.6	80.0	80-125	3.2	30
4-Nitrotoluene	0.749	0.750	ND	0.723	0.713	96.5	95.1	75-125	1.5	30
HMX	0.748	0.750	ND	0.781	0.670	104	89.3	75-125	15.2	30
Nitrobenzene	0.748	0.750	ND	0.754	0.683	101	91.1	75-125	10.3	30
Nitroglycerin	0.748	0.750	ND	0.777	0.719	104	95.9	68-131	8.1	30
PETN	3.75	3.75	ND	3.88	3.87	103	103	69-132	0.0	30
RDX	0.748	0.750	ND	0.712	0.612	95.2	81.6	70-135	15.4	30
Tetryl	0.749	0.750	ND	0.565	0.573	75.4	76.4	10-150	1.3	30
Surrogate recovery: 1,2-Dinitrobenzen	0.749	0.750	NA	0.680	0.674	90.8	89.9	70-130		

Comments:

Primary	SPK	DUP
Quant Method :	ACC_DAD1.M	ACC_DAD1.M
Extraction Date :	8/14/2008	8/14/2008
Analysis Date :	8/21/2008	8/21/2008
Instrument :	UV1200	UV1200
Run :	0820_011,13.D	0820_012,14.D
Initials :	PY	

Printed: 8/28/2008 11:01:15 AM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_011.D\DAD1B.CH Vial: 81
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_011.D\DAD1A.CH
Acq On : 21-Aug-08, 01:45 Operator: RJB
Sample : AX82325S01_MS-1 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:32 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.65	7574	679.605	ppb	
Spiked Amount 599.401		Recovery =	113.38%		
Target Compounds					
2) TMA 1,3,5-TNB	11.77	11666	683.070	ppb	
6) TMA 2,4,6-TNT	19.61	6489	702.247	ppb	m
7) TMA Tetryl	20.50	4640	565.423	ppb	m
9) TMA 2,6-DNT	22.58	5005	669.289	ppb	m
11) TMA 2-NT	25.82	4644	663.720	ppb	m
12) TMA 4-NT	28.21	2891	722.972	ppb	m
16) TMA 2-Am-4,6-DNT	33.89	2904	651.073	ppb	m
17) TMA PETN	44.59	6918	3882.279	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

MA= 749/3750 for PETN

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_011.D Vial: 81
Acq On : 21-Aug-08, 01:45 Operator: RJB
Sample : AX82325S01_MS-1 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_011.D Vial: 81
Acq On : 21-Aug-08, 01:45 Operator: RJB
Sample : AX82325S01_MS-1 10.01 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3996.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_013.D\DAD1B.CH Vial: 83
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_013.D\DAD1A.CH
Acq On : 21-Aug-08, 03:38 Operator: RJB
Sample : AX82325S01_MS-2 10.03 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3988.04
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:34 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 598.205		Recovery =	0.00%		
Target Compounds					
1) TMB RDX	11.09	6815	712.304	ppb	m
4) TMB 1,3-DNB	14.42	6366	771.343	ppb	
5) TMB Nitrobenzene	15.56	5845	754.152	ppb	
8) TMB Nitroglycerin	20.80	2975	776.926	ppb	m
10) TMB 2,4-DNT	23.67	4500	756.147	ppb	
14) TMB 3-NT	30.23	5237	742.992	ppb	
15) TMB 4-Am-2,6-DNT	31.91	2964	618.054	ppb	m
19) TMB HMX #2	7.22	3794	780.568	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

MA=748

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_013.D Vial: 83
Acq On : 21-Aug-08, 03:38 Operator: RJB
Sample : AX82325S01_MS-2 10.03 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3988.04
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_013.D Vial: 83
Acq On : 21-Aug-08, 03:38 Operator: RJB
Sample : AX82325S01_MS-2 10.03 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 3988.04
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_012.D\DAD1B.CH Vial: 82
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_012.D\DAD1A.CH
Acq On : 21-Aug-08, 02:41 Operator: RJB
Sample : AX82325S01_MSD-1 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:33 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.65	7504	674.002	ppb	
Spiked Amount 600.000		Recovery =	112.33%		
Target Compounds					
2) TMA 1,3,5-TNB	11.77	11642	682.335	ppb	
6) TMA 2,4,6-TNT	19.61	6385	691.639	ppb	
7) TMA Tetryl	20.51	4699	573.240	ppb	
9) TMA 2,6-DNT	22.58	4888	654.363	ppb	
11) TMA 2-NT	25.82	4556	651.710	ppb	
12) TMA 4-NT	28.21	2848	712.892	ppb	
16) TMA 2-Am-4,6-DNT	33.93	2925	656.255	ppb	m
17) TMA PETN	44.57	6880	3865.162	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

~~MA = 749 | 3750 for PETN~~ 8/21/08

MA = 750 | 3750 for PETN

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_012.D Vial: 82
Acq On : 21-Aug-08, 02:41 Operator: RJB
Sample : AX82325S01_MSD-1 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_012.D Vial: 82
Acq On : 21-Aug-08, 02:41 Operator: RJB
Sample : AX82325S01_MSD-1 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_014.D\DAD1B.CH Vial: 84
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_014.D\DAD1A.CH
Acq On : 21-Aug-08, 04:34 Operator: RJB
Sample : AX82325S01_MSD-2 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:35 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 600.000		Recovery =	0.00%		
Target Compounds					
1) TMB RDX	11.06	5837	611.933	ppb	m
4) TMB 1,3-DNB	14.40	5786	703.161	ppb	
5) TMB Nitrobenzene	15.53	5279	683.177	ppb	
8) TMB Nitroglycerin	20.77	2746	719.161	ppb	m
10) TMB 2,4-DNT	23.64	4123	694.877	ppb	
14) TMB 3-NT	30.20	4901	697.459	ppb	
15) TMB 4-Am-2,6-DNT	31.89	2871	600.453	ppb	
19) TMB HMX #2	7.20	3245	669.646	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

MA= 750

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_014.D Vial: 84
Acq On : 21-Aug-08, 04:34 Operator: RJB
Sample : AX82325S01_MSD-2 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_014.D Vial: 84
Acq On : 21-Aug-08, 04:34 Operator: RJB
Sample : AX82325S01_MSD-2 10.00 g / 20.0 mL Inst : G1315A
Misc : soil Multiplr: 4000.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EXPLOSIVES

Calibration Data

APPL, INC.

EPA 8330 - Full List
ACC_DAD1.m

Form 6 LC
Initial Calibration

Lab Name: APPL, Inc. SDG No: 56740
Case No: Initial Cal. Date: 06/27/2008, 6/29/08 FOR PETN, 7/21 for 3,5-DNA
Matrix: Instrument: UV1200 Initials: RJB

Mix A Analytes	0627_011.D	0627_012.D	0627_013.D	0627_014.D	0627_015.D	0627_016.D
Mix B Analytes	0627_005.D	0627_006.D	0627_007.D	0627_008.D	0627_009.D	0627_010.D
PETN	0629_003.D	0629_004.D	0629_005.D	0629_006.D	0629_007.D	0629_008.D
3,5-DNA	0721_008.D	0721_009.D	0721_010.D	0721_011.D	0721_012.D	0721_013.D

		Compound	1	2	3	4	5	6					Avg	%RSD		
1	TMB	RDX	424	380	372	370	368	376					382	5.6	TMB	
2	TMA	1,3,5-TNB	667	665	750	659	691	664					682	5.1	TMA	
3	SA	1,2-DNB	447	437	498	422	443	425					445	6.2	SA	
4	TMB	1,3-DNB	359	327	320	319	321	329					329	4.6	TMB	
5	TMB	Nitrobenzene	340	300	302	301	302	310					309	5.1	TMB	
6	TMA	2,4,6-TNT	395	365	391	350	364	351					369	5.3	TMA	
7	TMA	Tetryl	339	319	350	313	327	319					328	4.3	TMA	
8	TMB	Nitroglycerin	163	155	150	148	148	152					153	3.8	TMB	
9	TMA	2,6-DNT	303	302	320	285	297	286					299	4.4	TMA	
10	TMB	2,4-DNT	271	232	229	228	229	235					237	6.9	TMB	
11	TMA	2-NT	271	279	305	270	282	272					280	4.8	TMA	
12	TMA	4-NT	155	138	175	160	168	162					160	7.8	TMA	
13	TMB	3-NT	302	285	271	272	275	281					281	4.1	TMB	
14	TMB	4-Am-2,6-DNT	215	195	185	184	183	185					191	6.6	TMB	
15	TMA	2-Am-4,6-DNT	202	195	178	163	169	162					178	9.4	TMA	
16	TMA	PETN	68.0	76.1	71.4	70.6	71.5	69.6					71	3.9	TMA	
17	TMB	3,5-Dinitroaniline	283	290	271	267	263	245					270	5.8	TMB	
		Signal #2														
1	TMB	HMX #2	202	182	195	194	193	197					194	3.5	TMB	
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_005.D\DAD1B.CH Vial: 98
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_005.D\DAD1A.CH
Acq On : 28-Jun-08, 01:25 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_1 0.02 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:17 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:15:49 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.42	848	0.042	ppb	m
4) TMB 1,3-DNB	14.67	718	0.032	ppb	m
6) TMB Nitrobenzene	15.83	680	0.033	ppb	m
8) TMB Nitroglycerin	21.47	327	0.026	ppb	m
9) TMB 4-Am-2,6-DNT	33.20	431	0.019	ppb	m
12) TMB 2,4-DNT	24.21	541	0.037	ppb	m
15) TMB 3-NT	30.86	604	0.035	ppb	m
18) TMB HMX #2	7.47	405	0.012	ppb	m
19) TMB RDX #2	11.42	407	0.020	ppb	m
22) TMB 1,3-DNB #2	14.67	1102	0.032	ppb	m
24) TMB Nitrobenzene #2	15.83	642	0.034	ppb	m
26) TMB 4-Am-2,6-DNT #2	33.20	267	0.019	ppb	m
29) TMB 2,4-DNT #2	24.20	670	0.036	ppb	m
32) TMB 3-NT #2	30.85	259	0.037	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
5) TMA Tetryl	0.00	0	N.D.	ppb	
7) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
10) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
11) TMA 2,6-DNT	0.00	0	N.D.	ppb	
13) TMA 2-NT	0.00	0	N.D.	ppb	
14) TMA 4-NT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
23) TMA Tetryl #2	0.00	0	N.D.	ppb	
25) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
27) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
30) TMA 2-NT #2	0.00	0	N.D.	ppb	
31) TMA 4-NT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_005.D
Operator : RJB
Acquired : 28-Jun-08, 01:25 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_1
Misc Info :
Vial Number: 98

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_005.D Vial: 98
Acq On : 28-Jun-08, 01:25 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_1 0.02 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_006.D\DAD1B.CH Vial: 99
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_006.D\DAD1A.CH
Acq On : 28-Jun-08, 02:06 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_2 0.025 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:25 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:23:46 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.42	951	0.039	ppb	m
4) TMB 1,3-DNB	14.67	817	0.033	ppb	m
5) TMB Nitrobenzene	15.83	751	0.033	ppb	m
8) TMB Nitroglycerin	21.46	387	0.029	ppb	m
10) TMB 2,4-DNT	24.19	581	0.034	ppb	m
13) TMB 3-NT	30.83	714	0.036	ppb	m
14) TMB 4-Am-2,6-DNT	33.21	488	0.022	ppb	m
18) TMB HMX #2	7.47	455	0.016	ppb	m
19) TMB RDX #2	11.42	456	0.023	ppb	m
22) TMB 1,3-DNB #2	14.67	1226	0.032	ppb	m
23) TMB Nitrobenzene #2	15.83	712	0.034	ppb	m
27) TMB 2,4-DNT #2	24.19	742	0.035	ppb	m
30) TMB 3-NT #2	30.85	276	0.034	ppb	m
31) TMB 4-Am-2,6-DNT #2	33.20	293	0.022	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_006.D
Operator : RJB
Acquired : 28-Jun-08, 02:06 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_2
Misc Info :
Vial Number: 99

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_006.D Vial: 99
Acq On : 28-Jun-08, 02:06 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_2 0.025 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_007.D\DAD1B.CH Vial: 100
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_007.D\DAD1A.CH
Acq On : 28-Jun-08, 02:47 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_3 0.1 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:28 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:23:46 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.42	3718	0.136	ppb	m
4) TMB 1,3-DNB	14.66	3199	0.120	ppb	m
5) TMB Nitrobenzene	15.82	3018	0.124	ppb	m
8) TMB Nitroglycerin	21.45	1496	0.111	ppb	m
10) TMB 2,4-DNT	24.18	2294	0.125	ppb	m
13) TMB 3-NT	30.84	2714	0.126	ppb	m
14) TMB 4-Am-2,6-DNT	33.20	1847	0.087	ppb	m
18) TMB HMX #2	7.47	1955	0.075	ppb	m
19) TMB RDX #2	11.42	1782	0.094	ppb	m
22) TMB 1,3-DNB #2	14.66	4894	0.120	ppb	m
23) TMB Nitrobenzene #2	15.82	2834	0.124	ppb	m
27) TMB 2,4-DNT #2	24.18	2997	0.128	ppb	m
30) TMB 3-NT #2	30.84	1120	0.128	ppb	m
31) TMB 4-Am-2,6-DNT #2	33.20	1121	0.087	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_007.D
Operator : RJB
Acquired : 28-Jun-08, 02:47 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_3
Misc Info :
Vial Number: 100

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_007.D Vial: 100
Acq On : 28-Jun-08, 02:47 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_3 0.1 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_008.D\DAD1B.CH Vial: 81
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_008.D\DAD1A.CH
Acq On : 28-Jun-08, 03:29 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_4 1.0 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:33 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ)
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:32:13 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.41	36998	0.944	ppb	m
4) TMB 1,3-DNB	14.66	31939	0.953	ppb	m
5) TMB Nitrobenzene	15.81	30058	0.957	ppb	m
8) TMB Nitroglycerin	21.44	14844	0.952	ppb	m
10) TMB 2,4-DNT	24.17	22811	0.935	ppb	m
13) TMB 3-NT	30.82	27216	0.951	ppb	m
14) TMB 4-Am-2,6-DNT	33.19	18373	0.926	ppb	m
18) TMB HMX #2	7.46	19367	1.002	ppb	m
19) TMB RDX #2	11.41	17764	0.945	ppb	m
22) TMB 1,3-DNB #2	14.66	49086	0.962	ppb	m
23) TMB Nitrobenzene #2	15.81	28194	0.951	ppb	m
27) TMB 2,4-DNT #2	24.17	30070	0.968	ppb	m
30) TMB 3-NT #2	30.82	11177	0.953	ppb	m
31) TMB 4-Am-2,6-DNT #2	33.19	11187	0.925	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_008.D
Operator : RJB
Acquired : 28-Jun-08, 03:29 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_4
Misc Info :
Vial Number: 81

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_008.D Vial: 81
Acq On : 28-Jun-08, 03:29 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_4 1.0 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_009.D\DAD1B.CH Vial: 82
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_009.D\DAD1A.CH
Acq On : 28-Jun-08, 04:10 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_5 2.5 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:38 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:36:21 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.40	91901	2.377	ppb	m
4) TMB 1,3-DNB	14.64	80169	2.420	ppb	m
5) TMB Nitrobenzene	15.79	75494	2.430	ppb	m
8) TMB Nitroglycerin	21.41	37082	2.407	ppb	m
10) TMB 2,4-DNT	24.15	57246	2.384	ppb	m
13) TMB 3-NT	30.79	68669	2.429	ppb	m
14) TMB 4-Am-2,6-DNT	33.16	45835	2.354	ppb	m
18) TMB HMX #2	7.45	48153	2.491	ppb	m
19) TMB RDX #2	11.40	44063	2.377	ppb	m
22) TMB 1,3-DNB #2	14.64	123198	2.438	ppb	m
23) TMB Nitrobenzene #2	15.79	70744	2.417	ppb	m
27) TMB 2,4-DNT #2	24.15	75524	2.452	ppb	m
30) TMB 3-NT #2	30.79	28195	2.433	ppb	m
31) TMB 4-Am-2,6-DNT #2	33.16	27859	2.347	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_009.D
Operator : RJB
Acquired : 28-Jun-08, 04:10 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_5
Misc Info :
Vial Number: 82

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_009.D Vial: 82
Acq On : 28-Jun-08, 04:10 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_5 2.5 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_010.D\DAD1B.CH Vial: 83
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_010.D\DAD1A.CH
Acq On : 28-Jun-08, 04:51 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_6 5.0 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:42 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ)
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:41:10 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.37	187826	4.907	ppb	m
4) TMB 1,3-DNB	14.61	164575	5.000	ppb	m
5) TMB Nitrobenzene	15.76	154826	5.011	ppb	m
8) TMB Nitroglycerin	21.36	75927	4.966	ppb	m
10) TMB 2,4-DNT	24.09	117406	4.936	ppb	m
13) TMB 3-NT	30.72	140407	4.994	ppb	
14) TMB 4-Am-2,6-DNT	33.02	92619	4.813	ppb	
18) TMB HMX #2	7.43	98480	5.097	ppb	m
19) TMB RDX #2	11.37	90118	4.910	ppb	m
22) TMB 1,3-DNB #2	14.61	252662	5.024	ppb	m
23) TMB Nitrobenzene #2	15.76	144954	4.985	ppb	m
27) TMB 2,4-DNT #2	24.09	154725	5.042	ppb	m
30) TMB 3-NT #2	30.72	57699	5.006	ppb	m
31) TMB 4-Am-2,6-DNT #2	33.02	56344	4.805	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_010.D
Operator : RJB
Acquired : 28-Jun-08, 04:51 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 06/27_B_CAL_6
Misc Info :
Vial Number: 83

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_010.D Vial: 83
Acq On : 28-Jun-08, 04:51 Operator: RJB
Sample : 8330_06/27_MIXB_CAL_6 5.0 PPM 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_011.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_011.D\DAD1A.CH
Acq On : 28-Jun-08, 05:32 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_1 Inst : G1315A
Misc : 0.02/1.0 PPM 6/27/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:49 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.91	893	0.022	ppb	m
Spiked Amount 0.050	Recovery	=	44.00%		
21) SA 1,2-DNB #2	13.92	442	0.021	ppb	m
Spiked Amount 0.050	Recovery	=	42.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.95	1333	0.022	ppb	
6) TMA 2,4,6-TNT	19.98	789	0.024	ppb	m
7) TMA Tetryl	21.18	677	0.021	ppb	m
9) TMA 2,6-DNT	22.91	607	0.024	ppb	m
11) TMA 2-NT	26.19	541	0.027	ppb	m
12) TMA 4-NT	28.71	310	0.027	ppb	m
15) TMA 2-Am-4,6-DNT	35.22	405	0.016	ppb	m
16) TMA PETN	46.56	786	0.103	ppb	m
20) TMA 1,3,5-TNB #2	11.94	928	0.021	ppb	m
24) TMA 2,4,6-TNT #2	19.99	585	0.023	ppb	m
25) TMA Tetryl #2	21.19	395	0.019	ppb	m
26) TMA 2,6-DNT #2	22.93	346	0.024	ppb	m
28) TMA 2-NT #2	26.20	234	0.020	ppb	m
29) TMA 4-NT #2	28.61	187	0.024	ppb	m
32) TMA 2-Am-4,6-DNT #2	35.16	286	0.014	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_011.D
Operator : RJB
Acquired : 28-Jun-08, 05:32 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 06/27A_PETNCAL_1
Misc Info :
Vial Number: 91

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_011.D Vial: 91
Acq On : 28-Jun-08, 05:32 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_1 Inst : G1315A
Misc : 0.02/1.0 PPM 6/27/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_012.D\DAD1B.CH Vial: 92
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_012.D\DAD1A.CH
Acq On : 28-Jun-08, 06:29 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_2 Inst : G1315A
Misc : 0.025/0.125 ppm Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:52 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.92	1092	0.026	ppb	m
Spiked Amount 0.050	Recovery	=	52.00%		
21) SA 1,2-DNB #2	13.92	535	0.025	ppb	m
Spiked Amount 0.050	Recovery	=	50.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.95	1662	0.027	ppb	
6) TMA 2,4,6-TNT	19.98	913	0.026	ppb	m
7) TMA Tetryl	21.17	797	0.024	ppb	m
9) TMA 2,6-DNT	22.91	755	0.028	ppb	m
11) TMA 2-NT	26.18	698	0.030	ppb	m
12) TMA 4-NT	28.62	346	0.027	ppb	m
15) TMA 2-Am-4,6-DNT	35.13	487	0.021	ppb	m
16) TMA PETN	46.57	997	0.128	ppb	m
20) TMA 1,3,5-TNB #2	11.95	1146	0.026	ppb	m
24) TMA 2,4,6-TNT #2	19.98	730	0.027	ppb	m
25) TMA Tetryl #2	21.17	494	0.024	ppb	m
26) TMA 2,6-DNT #2	22.92	438	0.029	ppb	m
28) TMA 2-NT #2	26.17	297	0.028	ppb	m
29) TMA 4-NT #2	28.65	205	0.024	ppb	m
32) TMA 2-Am-4,6-DNT #2	35.14	352	0.020	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_012.D
Operator : RJB
Acquired : 28-Jun-08, 06:29 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 06/27A_PETNCAL_2
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_012.D Vial: 92
Acq On : 28-Jun-08, 06:29 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_2 Inst : G1315A
Misc : 0.025/0.125 ppm Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_013.D\DAD1B.CH Vial: 93
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_013.D\DAD1A.CH
Acq On : 28-Jun-08, 07:25 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_3 Inst : G1315A
Misc : 0.1/0.5 ppm Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:54 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.96	4982	0.113	ppb	m
Spiked Amount 0.050	Recovery	=	226.00%		
21) SA 1,2-DNB #2	13.97	2420	0.111	ppb	
Spiked Amount 0.050	Recovery	=	222.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.97	7500	0.113	ppb	m
6) TMA 2,4,6-TNT	20.02	3910	0.103	ppb	m
7) TMA Tetryl	21.22	3504	0.107	ppb	m
9) TMA 2,6-DNT	22.96	3202	0.106	ppb	m
11) TMA 2-NT	26.22	3051	0.111	ppb	m
12) TMA 4-NT	28.66	1748	0.119	ppb	m
15) TMA 2-Am-4,6-DNT	35.17	1779	0.090	ppb	m
16) TMA PETN	46.61	2146	0.271	ppb	m
20) TMA 1,3,5-TNB #2	11.98	5144	0.112	ppb	
24) TMA 2,4,6-TNT #2	20.02	3173	0.109	ppb	m
25) TMA Tetryl #2	21.23	2152	0.109	ppb	m
26) TMA 2,6-DNT #2	22.96	1885	0.108	ppb	m
28) TMA 2-NT #2	26.22	1272	0.108	ppb	
29) TMA 4-NT #2	28.65	993	0.113	ppb	m
32) TMA 2-Am-4,6-DNT #2	35.16	1488	0.105	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_013.D
Operator : RJB
Acquired : 28-Jun-08, 07:25 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 06/27A_PETNCAL_3
Misc Info :
Vial Number: 93

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_013.D Vial: 93
Acq On : 28-Jun-08, 07:25 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_3 Inst : G1315A
Misc : 0.1/0.5 ppm Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_014.D\DAD1B.CH Vial: 94
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_014.D\DAD1A.CH
Acq On : 28-Jun-08, 08:21 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_4 Inst : G1315A
Misc : 1.0/5.0 ppm Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 16:59 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.91	42245	0.917	ppb	m
Spiked Amount 0.050	Recovery	= 1834.00%			
21) SA 1,2-DNB #2	13.91	21135	0.936	ppb	m
Spiked Amount 0.050	Recovery	= 1872.00%			
Target Compounds					
2) TMA 1,3,5-TNB	11.94	65906	0.950	ppb	m
6) TMA 2,4,6-TNT	20.00	34987	0.912	ppb	m
7) TMA Tetryl	21.19	31326	0.932	ppb	m
9) TMA 2,6-DNT	22.94	28485	0.923	ppb	m
11) TMA 2-NT	26.20	26992	0.947	ppb	m
12) TMA 4-NT	28.64	16032	1.027	ppb	m
15) TMA 2-Am-4,6-DNT	35.13	16337	0.852	ppb	m
16) TMA PETN	46.55	36766	5.481	ppb	m
20) TMA 1,3,5-TNB #2	11.94	45550	0.951	ppb	m
24) TMA 2,4,6-TNT #2	20.00	28418	0.946	ppb	m
25) TMA Tetryl #2	21.19	19360	0.952	ppb	m
26) TMA 2,6-DNT #2	22.94	16813	0.940	ppb	m
28) TMA 2-NT #2	26.20	11393	0.942	ppb	m
29) TMA 4-NT #2	28.63	9104	0.994	ppb	m
32) TMA 2-Am-4,6-DNT #2	35.13	13497	0.936	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_014.D
Operator : RJB
Acquired : 28-Jun-08, 08:21 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 06/27A_PETNCAL_4
Misc Info :
Vial Number: 94

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_014.D Vial: 94
Acq On : 28-Jun-08, 08:21 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_4 Inst : G1315A
Misc : 1.0/5.0 ppm Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_015.D\DAD1B.CH Vial: 95
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_015.D\DAD1A.CH
Acq On : 28-Jun-08, 09:17 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_5 Inst : G1315A
Misc : 2.5/12.5 ppm Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 17:07 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.92	110854	2.458	ppb	m
Spiked Amount 0.050	Recovery	= 4916.00%			
21) SA 1,2-DNB #2	13.92	55468	2.496	ppb	m
Spiked Amount 0.050	Recovery	= 4992.00%			
Target Compounds					
2) TMA 1,3,5-TNB	11.95	172689	2.521	ppb	m
6) TMA 2,4,6-TNT	20.00	90943	2.424	ppb	m
7) TMA Tetryl	21.19	81804	2.477	ppb	m
9) TMA 2,6-DNT	22.94	74141	2.450	ppb	m
11) TMA 2-NT	26.19	70400	2.504	ppb	m
12) TMA 4-NT	28.62	41997	2.673	ppb	m
15) TMA 2-Am-4,6-DNT	35.10	42172	2.285	ppb	m
16) TMA PETN	46.51	72599	10.568	ppb	m
20) TMA 1,3,5-TNB #2	11.95	119332	2.522	ppb	m
24) TMA 2,4,6-TNT #2	20.00	73833	2.491	ppb	m
25) TMA Tetryl #2	21.19	50486	2.512	ppb	m
26) TMA 2,6-DNT #2	22.94	43743	2.482	ppb	m
28) TMA 2-NT #2	26.19	29742	2.496	ppb	m
29) TMA 4-NT #2	28.62	23843	2.607	ppb	m
32) TMA 2-Am-4,6-DNT #2	35.10	34817	2.454	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_015.D
Operator : RJB
Acquired : 28-Jun-08, 09:17 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 06/27A_PETNCAL_5
Misc Info :
Vial Number: 95

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_015.D Vial: 95
Acq On : 28-Jun-08, 09:17 Operator: RJB
Sample : 8330_06/27_MIXA_PETN_CAL_5 Inst : G1315A
Misc : 2.5/12.5 ppm Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_016.D\DAD1B.CH Vial: 96
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_016.D\DAD1A.CH
Acq On : 28-Jun-08, 10:14 Operator: RJB
Sample : 8330_06/27_MIXA_CAL_6 5.0 ppm 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 17:09 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.90	212379	4.725	ppb	
Spiked Amount 0.050	Recovery	= 9450.00%			
21) SA 1,2-DNB #2	13.90	106169	4.780	ppb	
Spiked Amount 0.050	Recovery	= 9560.00%			
Target Compounds					
2) TMA 1,3,5-TNB	11.94	331898	4.836	ppb	
6) TMA 2,4,6-TNT	19.98	175408	4.704	ppb	
7) TMA Tetryl	21.16	159500	4.838	ppb	
9) TMA 2,6-DNT	22.92	143011	4.745	ppb	
11) TMA 2-NT	26.16	135765	4.828	ppb	
12) TMA 4-NT	28.58	81228	5.100	ppb	
15) TMA 2-Am-4,6-DNT	34.99	81238	4.478	ppb	
20) TMA 1,3,5-TNB #2	11.94	228974	4.831	ppb	
24) TMA 2,4,6-TNT #2	19.98	142306	4.804	ppb	
25) TMA Tetryl #2	21.16	98384	4.891	ppb	
26) TMA 2,6-DNT #2	22.92	84208	4.785	ppb	
28) TMA 2-NT #2	26.16	57231	4.804	ppb	
29) TMA 4-NT #2	28.58	46088	4.997	ppb	
32) TMA 2-Am-4,6-DNT #2	34.99	67110	4.747	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
16) TMA PETN	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_016.D Vial: 96
Acq On : 28-Jun-08, 10:14 Operator: RJB
Sample : 8330_06/27_MIXA_CAL_6 5.0 ppm 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 28-Jun-08, 11:51
Instrument: UV1200
Initial Cal. Date: 6/27/2008
Data File: 0627_018.D, 019.D

DATA FILE			Compound	MEAN	CCRF	%D	%Drift	
0627_018.D	1	TMA	1,3,5-TNB	682	652	4.4	TMA	
0627_018.D	2	SA	1,2-DNB	445	403	9.4	SA	
0627_018.D	3	TMA	2,4,6-TNT	369	336	9.1	TMA	
0627_018.D	4	TMA	Tetryl	328	279	15	TMA	
0627_018.D	5	TMA	2,6-DNT	299	284	5.0	TMA	
0627_018.D	6	TMA	2-NT	280	274	1.9	TMA	
0627_018.D	7	TMA	4-NT	160	159	0.50	TMA	
0627_018.D	8	TMA	2-Am-4,6-DNT	178	172	3.2	TMA	
0627_019.D	9	TMB	RDX	382	348	8.9	TMB	
0627_019.D	10	TMB	1,3-DNB	329	321	2.5	TMB	
0627_019.D	11	TMB	Nitrobenzene	309	289	6.4	TMB	
0627_019.D	12	TMB	Nitroglycerin	153	143	6.3	TMB	
0627_019.D	13	TMB	2,4-DNT	237	228	4.0	TMB	
0627_019.D	14	TMB	3-NT	281	269	4.4	TMB	
0627_019.D	15	TMB	4-Am-2,6-DNT	191	194	1.6	TMB	
0627_019.D	16	SIGNAL # 2						
0627_019.D	17	TMB	HMX #2	194	191	1.4	TMB	
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	38							
	39							
	40							
			Average			5.3		

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_018.D\DAD1B.CH Vial: 84
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_018.D\DAD1A.CH
Acq On : 28-Jun-08, 11:51 Operator: RJB
Sample : 8330_05/15_SS_B_PETN Inst : G1315A
Misc : 2.5/12.5 ppm 6/27/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 17:19 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.90	100852	2.265	ppb	
Spiked Amount 0.050	Recovery	= 4530.00%			
21) SA 1,2-DNB #2	13.90	50411	2.286	ppb	
Spiked Amount 0.050	Recovery	= 4572.00%			
Target Compounds					
2) TMA 1,3,5-TNB	11.94	163073	2.389	ppb	
6) TMA 2,4,6-TNT	19.97	83904	2.272	ppb	
7) TMA Tetryl	21.13	69648	2.124	ppb	m
9) TMA 2,6-DNT	22.90	70939	2.374	ppb	
11) TMA 2-NT	26.15	68560	2.452	ppb	
12) TMA 4-NT	28.57	39753	2.487	ppb	
15) TMA 2-Am-4,6-DNT	34.92	43118	2.419	ppb	
16) TMA PETN	46.43	88234	13.077	ppb	
20) TMA 1,3,5-TNB #2	11.94	112523	2.388	ppb	
24) TMA 2,4,6-TNT #2	19.97	68112	2.314	ppb	
25) TMA Tetryl #2	21.14	42820	2.136	ppb	
26) TMA 2,6-DNT #2	22.90	41821	2.394	ppb	
28) TMA 2-NT #2	26.15	28879	2.440	ppb	
29) TMA 4-NT #2	28.57	22542	2.444	ppb	
32) TMA 2-Am-4,6-DNT #2	34.92	35650	2.543	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3-NT	0.00	0	N.D.	ppb	d
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_018.D
Operator : RJB
Acquired : 28-Jun-08, 11:51 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 05/15_SS_B_PETN
Misc Info :
Vial Number: 84

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_018.D Vial: 84
Acq On : 28-Jun-08, 11:51 Operator: RJB
Sample : 8330_05/15_SS_B_PETN Inst : G1315A
Misc : 2.5/12.5 ppm 6/27/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0627_019.D\DAD1B.CH Vial: 85
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0627_019.D\DAD1A.CH
Acq On : 28-Jun-08, 12:47 Operator: RJB
Sample : 8330_05/15_SS_A 2.5 ppm 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 28 17:15 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.33	86876	2.277	ppb	
4) TMB 1,3-DNB	14.59	80225	2.437	ppb	
5) TMB Nitrobenzene	15.75	72292	2.339	ppb	
8) TMB Nitroglycerin	21.34	35775	2.342	ppb	
10) TMB 2,4-DNT	24.03	56955	2.400	ppb	
13) TMB 3-NT	30.67	67166	2.390	ppb	
14) TMB 4-Am-2,6-DNT	32.78	48558	2.539	ppb	
18) TMB HMX #2	7.39	47790	2.466	ppb	m
19) TMB RDX #2	11.33	41811	2.285	ppb	
22) TMB 1,3-DNB #2	14.59	123156	2.447	ppb	
23) TMB Nitrobenzene #2	15.75	67593	2.326	ppb	
27) TMB 2,4-DNT #2	24.03	74643	2.429	ppb	
30) TMB 3-NT #2	30.67	27545	2.389	ppb	
31) TMB 4-Am-2,6-DNT #2	32.78	29624	2.543	ppb	
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
16) TMA PETN	0.00	0	N.D.	ppb	d
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	d
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	d
25) TMA Tetryl #2	0.00	0	N.D.	ppb	d
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	d
28) TMA 2-NT #2	0.00	0	N.D.	ppb	d
29) TMA 4-NT #2	0.00	0	N.D.	ppb	d
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	d

File : J:\UV1200\HPCHEM\1\DATA\080627\0627_019.D
Operator : RJB
Acquired : 28-Jun-08, 12:47 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 05/15_SS_A
Misc Info :
Vial Number: 85

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0627_019.D Vial: 85
Acq On : 28-Jun-08, 12:47 Operator: RJB
Sample : 8330_05/15_SS_A 2.5 ppm 6/27/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_003.D\DAD1B.CH Vial: 86
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_003.D\DAD1A.CH
Acq On : 29-Jun-08, 17:09 Operator: RJB
Sample : PETN_06/27_CAL_1 0.1 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:10 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
16) TMA PETN	46.17	680	0.101	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0629_003.D
Operator : RJB
Acquired : 29-Jun-08, 17:09 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: PETN_CAL_1 6/29
Misc Info :
Vial Number: 86

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_003.D Vial: 86
Acq On : 29-Jun-08, 17:09 Operator: RJB
Sample : PETN_06/27_CAL_1 0.1 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_004.D\DAD1B.CH Vial: 87
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_004.D\DAD1A.CH
Acq On : 29-Jun-08, 18:05 Operator: RJB
Sample : PETN_06/27_CAL_2 0.125 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:11 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
16) TMA PETN	46.31	952	0.145	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0629_004.D
Operator : RJB
Acquired : 29-Jun-08, 18:05 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: PETN_CAL_2 6/29
Misc Info :
Vial Number: 87

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_004.D Vial: 87
Acq On : 29-Jun-08, 18:05 Operator: RJB
Sample : PETN_06/27_CAL_2 0.125 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_005.D\DAD1B.CH Vial: 88
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_005.D\DAD1A.CH
Acq On : 29-Jun-08, 19:01 Operator: RJB
Sample : PETN_06/27_CAL_3 0.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:11 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb	
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
16) TMA PETN	46.35	3569	0.548	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	
7) TMA Tetryl	0.00	0	N.D.	ppb	
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	
11) TMA 2-NT	0.00	0	N.D.	ppb	
12) TMA 4-NT	0.00	0	N.D.	ppb	
13) TMB 3-NT	0.00	0	N.D.	ppb	
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	
18) TMB HMX #2	0.00	0	N.D.	ppb	
19) TMB RDX #2	0.00	0	N.D.	ppb	
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb	
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb	
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb	
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb	
25) TMA Tetryl #2	0.00	0	N.D.	ppb	
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb	
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb	
28) TMA 2-NT #2	0.00	0	N.D.	ppb	
29) TMA 4-NT #2	0.00	0	N.D.	ppb	
30) TMB 3-NT #2	0.00	0	N.D.	ppb	
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb	
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb	

File : J:\UV1200\HPCHEM\1\DATA\080627\0629_005.D
Operator : RJB
Acquired : 29-Jun-08, 19:01 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: PETN_CAL_3 6/29
Misc Info :
Vial Number: 88

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_005.D Vial: 88
Acq On : 29-Jun-08, 19:01 Operator: RJB
Sample : PETN_06/27_CAL_3 0.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (Not Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_006.D\DAD1B.CH Vial: 89
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_006.D\DAD1A.CH
Acq On : 29-Jun-08, 19:58 Operator: RJB
Sample : PETN_06/27_CAL_4 5.0 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:11 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA 1,2-DNB	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
Target Compounds				
16) TMA PETN	46.35	35290	5.053	ppb
Target Compounds				
1) TMB RDX	0.00	0	N.D.	ppb
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb
4) TMB 1,3-DNB	0.00	0	N.D.	ppb
5) TMB Nitrobenzene	0.00	0	N.D.	ppb
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb
7) TMA Tetryl	0.00	0	N.D.	ppb
8) TMB Nitroglycerin	0.00	0	N.D.	ppb
9) TMA 2,6-DNT	0.00	0	N.D.	ppb
10) TMB 2,4-DNT	0.00	0	N.D.	ppb
11) TMA 2-NT	0.00	0	N.D.	ppb
12) TMA 4-NT	0.00	0	N.D.	ppb
13) TMB 3-NT	0.00	0	N.D.	ppb
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb
18) TMB HMX #2	0.00	0	N.D.	ppb
19) TMB RDX #2	0.00	0	N.D.	ppb
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb
25) TMA Tetryl #2	0.00	0	N.D.	ppb
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb
28) TMA 2-NT #2	0.00	0	N.D.	ppb
29) TMA 4-NT #2	0.00	0	N.D.	ppb
30) TMB 3-NT #2	0.00	0	N.D.	ppb
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_006.D Vial: 89
Acq On : 29-Jun-08, 19:58 Operator: RJB
Sample : PETN_06/27_CAL_4 5.0 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (Not Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_007.D\DAD1B.CH Vial: 90
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_007.D\DAD1A.CH
Acq On : 29-Jun-08, 20:54 Operator: RJB
Sample : PETN_06/27_CAL_5 12.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:12 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA 1,2-DNB	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
Target Compounds				
16) TMA PETN	46.39	89409	12.892	ppb
Target Compounds				
1) TMB RDX	0.00	0	N.D.	ppb
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb
4) TMB 1,3-DNB	0.00	0	N.D.	ppb
5) TMB Nitrobenzene	0.00	0	N.D.	ppb
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb
7) TMA Tetryl	0.00	0	N.D.	ppb
8) TMB Nitroglycerin	0.00	0	N.D.	ppb
9) TMA 2,6-DNT	0.00	0	N.D.	ppb
10) TMB 2,4-DNT	0.00	0	N.D.	ppb
11) TMA 2-NT	0.00	0	N.D.	ppb
12) TMA 4-NT	0.00	0	N.D.	ppb
13) TMB 3-NT	0.00	0	N.D.	ppb
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb
18) TMB HMX #2	0.00	0	N.D.	ppb
19) TMB RDX #2	0.00	0	N.D.	ppb
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb
25) TMA Tetryl #2	0.00	0	N.D.	ppb
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb
28) TMA 2-NT #2	0.00	0	N.D.	ppb
29) TMA 4-NT #2	0.00	0	N.D.	ppb
30) TMB 3-NT #2	0.00	0	N.D.	ppb
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_007.D Vial: 90
Acq On : 29-Jun-08, 20:54 Operator: RJB
Sample : PETN_06/27_CAL_5 12.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

Quantitation Report (Not Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_008.D\DAD1B.CH Vial: 71
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_008.D\DAD1A.CH
Acq On : 29-Jun-08, 21:50 Operator: RJB
Sample : PETN_06/27_CAL_6 25 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:12 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integr
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA 1,2-DNB	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
Target Compounds				
16) TMA PETN	46.35	174122	24.322	ppb
Target Compounds				
1) TMB RDX	0.00	0	N.D.	ppb
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb
4) TMB 1,3-DNB	0.00	0	N.D.	ppb
5) TMB Nitrobenzene	0.00	0	N.D.	ppb
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb
7) TMA Tetryl	0.00	0	N.D.	ppb
8) TMB Nitroglycerin	0.00	0	N.D.	ppb
9) TMA 2,6-DNT	0.00	0	N.D.	ppb
10) TMB 2,4-DNT	0.00	0	N.D.	ppb
11) TMA 2-NT	0.00	0	N.D.	ppb
12) TMA 4-NT	0.00	0	N.D.	ppb
13) TMB 3-NT	0.00	0	N.D.	ppb
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb
18) TMB HMX #2	0.00	0	N.D.	ppb
19) TMB RDX #2	0.00	0	N.D.	ppb
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb
25) TMA Tetryl #2	0.00	0	N.D.	ppb
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb
28) TMA 2-NT #2	0.00	0	N.D.	ppb
29) TMA 4-NT #2	0.00	0	N.D.	ppb
30) TMB 3-NT #2	0.00	0	N.D.	ppb
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_008.D Vial: 71
Acq On : 29-Jun-08, 21:50 Operator: RJB
Sample : PETN_06/27_CAL_6 25 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 29-Jun-08, 22:46
Instrument: UV1200
Initial Cal. Date: 06/29/08
Data File: 0629_009.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	PETN	71.2	70.7	0.76	TMA	
2							
3							
4							
5							
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39							
40							

Quantitation Report (Not Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0629_009.D\DAD1B.CH Vial: 72
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0629_009.D\DAD1A.CH
Acq On : 29-Jun-08, 22:46 Operator: RJB
Sample : PETN_5/15_SS_LEVEL5 12.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Jun 30 7:13 2008 Quant Results File: ACC_DAD.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Sat Jun 28 16:45:54 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : Dionex Acclaim E2 Signal #2 Phase: Dionex Acclaim E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA 1,2-DNB	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
21) SA 1,2-DNB #2	0.00	0	N.D.	ppb
Spiked Amount 0.050	Recovery	=	0.00%	
Target Compounds				
16) TMA PETN	46.43	88331	12.405	ppb
Target Compounds				
1) TMB RDX	0.00	0	N.D.	ppb
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb
4) TMB 1,3-DNB	0.00	0	N.D.	ppb
5) TMB Nitrobenzene	0.00	0	N.D.	ppb
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb
7) TMA Tetryl	0.00	0	N.D.	ppb
8) TMB Nitroglycerin	0.00	0	N.D.	ppb
9) TMA 2,6-DNT	0.00	0	N.D.	ppb
10) TMB 2,4-DNT	0.00	0	N.D.	ppb
11) TMA 2-NT	0.00	0	N.D.	ppb
12) TMA 4-NT	0.00	0	N.D.	ppb
13) TMB 3-NT	0.00	0	N.D.	ppb
14) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb
15) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb
18) TMB HMX #2	0.00	0	N.D.	ppb
19) TMB RDX #2	0.00	0	N.D.	ppb
20) TMA 1,3,5-TNB #2	0.00	0	N.D.	ppb
22) TMB 1,3-DNB #2	0.00	0	N.D.	ppb
23) TMB Nitrobenzene #2	0.00	0	N.D.	ppb
24) TMA 2,4,6-TNT #2	0.00	0	N.D.	ppb
25) TMA Tetryl #2	0.00	0	N.D.	ppb
26) TMA 2,6-DNT #2	0.00	0	N.D.	ppb
27) TMB 2,4-DNT #2	0.00	0	N.D.	ppb
28) TMA 2-NT #2	0.00	0	N.D.	ppb
29) TMA 4-NT #2	0.00	0	N.D.	ppb
30) TMB 3-NT #2	0.00	0	N.D.	ppb
31) TMB 4-Am-2,6-DNT #2	0.00	0	N.D.	ppb
32) TMA 2-Am-4,6-DNT #2	0.00	0	N.D.	ppb

Quantitation Report (Not Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0629_009.D Vial: 72
Acq On : 29-Jun-08, 22:46 Operator: RJB
Sample : PETN_5/15_SS_LEVEL5 12.5 ppm 6/29/08 Inst : G1315A
Misc : Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 20-Aug-08, 14:32
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0820_001.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMA	1,3,5-TNB	682	741	8.6	TMA	
2	SA	1,2-DNB	445	477	7.0	SA	
3	TMA	2,4,6-TNT	369	384	4.1	TMA	
4	TMA	Tetryl	328	367	12	TMA	
5	TMA	2,6-DNT	299	307	2.9	TMA	
6	TMA	2-NT	280	285	1.8	TMA	
7	TMA	4-NT	160	175	9.5	TMA	
8	TMA	2-Am-4,6-DNT	178	190	6.7	TMA	
9	TMA	PETN	71.2	72.0	1.1	TMA	
10							
11							
12							
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40							

Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_001.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_001.D\DAD1A.CH
Acq On : 20-Aug-08, 14:32 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_3 Inst : G1315A
Misc : 2.5/12.5 ppm 8/20/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 8:34 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.49	119132	2.675	ppb	m
Spiked Amount 0.050		Recovery	= 5350.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.65	185265	2.715	ppb	m
6) TMA 2,4,6-TNT	19.40	96079	2.602	ppb	
7) TMA Tetryl	20.24	91805	2.800	ppb	
9) TMA 2,6-DNT	22.33	76845	2.572	ppb	
11) TMA 2-NT	25.55	71149	2.545	ppb	
12) TMA 4-NT	27.87	43768	2.739	ppb	
16) TMA 2-Am-4,6-DNT	33.33	47561	2.668	ppb	
17) TMA PETN	44.00	89980	12.637	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0820_001.D
Operator : RJB
Acquired : 20-Aug-08, 14:32 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 8330_08/13_MixA_PETN_CCV_3
Misc Info : 2.5/12.5 ppm 8/20/08
Vial Number: 91

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_001.D Vial: 91
Acq On : 20-Aug-08, 14:32 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_3 Inst : G1315A
Misc : 2.5/12.5 ppm 8/20/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List

ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 20-Aug-08, 15:28
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0820_002.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	RDX	382	415	8.7	TMB	
2	TMB	1,3-DNB	329	363	10	TMB	
3	TMB	Nitrobenzene	309	335	8.3	TMB	
4	TMB	Nitroglycerin	153	164	7.4	TMB	
5	TMB	2,4-DNT	237	254	6.8	TMB	
6	TMB	3,5-Dinitroaniline	270	283	4.9	TMB	
7	TMB	3-NT	281	296	5.2	TMB	
8	TMB	4-Am-2,6-DNT	191	210	9.7	TMB	
9	Signal # 2						
10	TMB	HMX #2	194	219	13	TMB	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_002.D\DAD1B.CH Vial: 92
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_002.D\DAD1A.CH
Acq On : 20-Aug-08, 15:28 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_3 Inst : G1315A
Misc : 2.5 ppm 8/20/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 8:38 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	10.96	103705	2.718	ppb	m
4) TMB 1,3-DNB	14.29	90683	2.755	ppb	m
5) TMB Nitrobenzene	15.43	83685	2.707	ppb	m
8) TMB Nitroglycerin	20.64	41011	2.685	ppb	m
10) TMB 2,4-DNT	23.46	63397	2.671	ppb	
13) TMB 3,5-Dinitroaniline	28.02	70787	2.624	ppb	m
14) TMB 3-NT	29.99	73935	2.630	ppb	m
15) TMB 4-Am-2,6-DNT	31.38	52430	2.741	ppb	m
19) TMB HMX #2	7.11	54716	2.823	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0820_002.D
Operator : RJB
Acquired : 20-Aug-08, 15:28 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 813B0730DNACCV3
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_002.D Vial: 92
Acq On : 20-Aug-08, 15:28 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_3 Inst : G1315A
Misc : 2.5 ppm 8/20/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

① 8/25/08 8-25-08

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 21-Aug-08, 08:45
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0820_019.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	682	700	2.6	TMA	
2	SA	1,2-DNB	445	457	2.6	SA	
3	TMA	2,4,6-TNT	369	369	0.17	TMA	
4	TMA	Tetryl	328	346	5.6	TMA	
5	TMA	2,6-DNT	299	294	1.7	TMA	
6	TMA	2-NT	280	268	4.2	TMA	
7	TMA	4-NT	160	166	4.1	TMA	
8	TMA	2-Am-4,6-DNT	178	182	2.4	TMA	
9	TMA	PETN	71.2	70.0	1.7	TMA	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0820_019.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0820_019.D\DAD1A.CH
Acq On : 21-Aug-08, 08:45 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_3 Inst : G1315A
Misc : 2.5/12.5 ppm 8/20/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 9:42 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.58	114276	2.566	ppb	
Spiked Amount 0.050		Recovery	= 5132.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.71	175083	2.565	ppb	
6) TMA 2,4,6-TNT	19.50	92152	2.496	ppb	
7) TMA Tetryl	20.38	86588	2.641	ppb	
9) TMA 2,6-DNT	22.46	73466	2.459	ppb	
11) TMA 2-NT	25.68	66986	2.396	ppb	
12) TMA 4-NT	28.03	41602	2.603	ppb	
16) TMA 2-Am-4,6-DNT	33.73	45621	2.559	ppb	
17) TMA PETN	44.20	87503	12.289	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0820_019.D Vial: 91
Acq On : 21-Aug-08, 08:45 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_3 Inst : G1315A
Misc : 2.5/12.5 ppm 8/20/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 21-Aug-08, 09:41
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0820_020.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	RDX	382	407	6.7	TMB	
2	TMB	1,3-DNB	329	346	5.0	TMB	
3	TMB	Nitrobenzene	309	315	2.0	TMB	
4	TMB	Nitroglycerin	153	155	1.2	TMB	
5	TMB	2,4-DNT	237	243	2.5	TMB	
6	TMB	3,5-Dinitroaniline	270	270	0.16	TMB	
7	TMB	3-NT	281	279	0.60	TMB	
8	TMB	4-Am-2,6-DNT	191	201	5.1	TMB	
9	Signal # 2						
10	TMB	HMX #2	194	214	11	TMB	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\080820\0820_020.D\DAD1B.CH Vial
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\080820\0820_020.D\DAD1A.CH
Acq On : 21-Aug-08, 09:41 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_3 Inst : G1315A
Misc : 2.5 ppm 8/20/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 21 10:24 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.02	101751	2.667	ppb	m
4) TMB 1,3-DNB	14.35	86375	2.624	ppb	
5) TMB Nitrobenzene	15.49	78853	2.551	ppb	
8) TMB Nitroglycerin	20.70	38630	2.529	ppb	
10) TMB 2,4-DNT	23.56	60814	2.562	ppb	
13) TMB 3,5-Dinitroaniline	28.30	67563	2.504	ppb	
14) TMB 3-NT	30.10	69850	2.485	ppb	
15) TMB 4-Am-2,6-DNT	31.67	50239	2.627	ppb	
19) TMB HMX #2	7.15	53621	2.767	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV1200\HPCHEM\1\DATA\080627\0820_020.D
Operator : RJB
Acquired : 21-Aug-08, 09:41 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 8330_08/13_MixB_07/30_3,5-DNA_CCV_3
Misc Info : 2.5 ppm 8/20/08
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\080820\0820_020.D Vial: 92
Acq On : 21-Aug-08, 09:41 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_3 Inst : G1315A
Misc : 2.5 ppm 8/20/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 23-Aug-08, 05:25
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_014.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMA	1,3,5-TNB	682	721	5.6	TMA	
2	SA	1,2-DNB	445	469	5.4	SA	
3	TMA	2,4,6-TNT	369	381	3.1	TMA	
4	TMA	Tetryl	328	343	4.5	TMA	
5	TMA	2,6-DNT	299	301	0.84	TMA	
6	TMA	2-NT	280	273	2.5	TMA	
7	TMA	4-NT	160	170	6.1	TMA	
8	TMA	2-Am-4,6-DNT	178	187	4.7	TMA	
9	TMA	PETN	71.2	72.8	2.3	TMA	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_014.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_014.D\DAD1A.CH
Acq On : 23-Aug-08, 05:25 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 23 10:04 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.59	117328	2.635	ppb	m
Spiked Amount 0.050		Recovery	= 5270.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.72	180189	2.640	ppb	
6) TMA 2,4,6-TNT	19.52	95161	2.577	ppb	
7) TMA Tetryl	20.41	85667	2.613	ppb	
9) TMA 2,6-DNT	22.49	75332	2.521	ppb	
11) TMA 2-NT	25.71	68151	2.437	ppb	
12) TMA 4-NT	28.07	42384	2.652	ppb	
16) TMA 2-Am-4,6-DNT	33.81	46651	2.617	ppb	
17) TMA PETN	44.25	91046	12.787	ppb	m
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_014.D
Operator : RJB
Acquired : 23-Aug-08, 05:25 using AcqMethod ACCLAIM.M
Instrument : G1315A
Sample Name: 08/13A_PETN_CCV4
Misc Info :
Vial Number: 91

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_014.D Vial: 91
Acq On : 23-Aug-08, 05:25 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 23-Aug-08, 06:21
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_015.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	RDX	382	418	9.5	TMB	
2	TMB	1,3-DNB	329	358	8.8	TMB	
3	TMB	Nitrobenzene	309	324	4.7	TMB	
4	TMB	Nitroglycerin	153	160	4.9	TMB	
5	TMB	2,4-DNT	237	251	5.7	TMB	
6	TMB	3,5-Dinitroaniline	270	268	0.68	TMB	
7	TMB	3-NT	281	288	2.5	TMB	
8	TMB	4-Am-2,6-DNT	191	207	8.1	TMB	
9	Signal # 2						
10	TMB	HMX #2	194	218	12	TMB	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_015.D\DAD1B.CH Vial: 92
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_015.D\DAD1A.CH
Acq On : 23-Aug-08, 06:21 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 23 10:06 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	11.06	104470	2.738	ppb	m
4) TMB 1,3-DNB	14.38	89535	2.720	ppb	
5) TMB Nitrobenzene	15.51	80927	2.618	ppb	
8) TMB Nitroglycerin	20.72	40038	2.622	ppb	
10) TMB 2,4-DNT	23.59	62698	2.642	ppb	
13) TMB 3,5-Dinitroaniline	28.42	66995	2.483	ppb	
14) TMB 3-NT	30.12	72053	2.563	ppb	
15) TMB 4-Am-2,6-DNT	31.78	51701	2.703	ppb	
19) TMB HMX #2	7.19	54445	2.809	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_015.D
Operator : RJB
Acquired : 23-Aug-08, 06:21 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 813B0730DNACCV4
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_015.D Vial: 92
Acq On : 23-Aug-08, 06:21 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: S6740
Date Analyzed: 23-Aug-08, 18:01
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_028.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	682	698	2.3	TMA	
2	SA	1,2-DNB	445	462	3.8	SA	
3	TMA	2,4,6-TNT	369	373	0.95	TMA	
4	TMA	Tetryl	328	327	0.43	TMA	
5	TMA	2,6-DNT	299	296	0.87	TMA	
6	TMA	2-NT	280	266	4.7	TMA	
7	TMA	4-NT	160	165	3.4	TMA	
8	TMA	2-Am-4,6-DNT	178	186	4.3	TMA	
9	TMA	PETN	71.2	71.4	0.28	TMA	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_028.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_028.D\DAD1A.CH
Acq On : 23-Aug-08, 18:01 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 9:50 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.49	115549	2.595	ppb	
Spiked Amount 0.050	Recovery	= 5190.00%			
Target Compounds					
2) TMA 1,3,5-TNB	11.69	174603	2.558	ppb	
6) TMA 2,4,6-TNT	19.43	93186	2.524	ppb	
7) TMA Tetryl	20.19	81627	2.489	ppb	
9) TMA 2,6-DNT	22.35	74052	2.478	ppb	
11) TMA 2-NT	25.59	66586	2.381	ppb	
12) TMA 4-NT	27.91	41327	2.586	ppb	
16) TMA 2-Am-4,6-DNT	33.13	46494	2.608	ppb	
17) TMA PETN	44.05	89250	12.534	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_028.D Vial: 91
Acq On : 23-Aug-08, 18:01 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 23-Aug-08, 18:57
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_029.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	RDX	382	416	8.9	TMB	
2	TMB	1,3-DNB	329	351	6.6	TMB	
3	TMB	Nitrobenzene	309	315	1.8	TMB	
4	TMB	Nitroglycerin	153	157	2.8	TMB	
5	TMB	2,4-DNT	237	247	4.0	TMB	
6	TMB	3,5-Dinitroaniline	270	267	0.99	TMB	
7	TMB	3-NT	281	280	0.29	TMB	
8	TMB	4-Am-2,6-DNT	191	206	7.9	TMB	
9	Signal # 2						
10	TMB	HMX #2	194	224	15	TMB	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_029.D\DAD1B.CH Vial: 92
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_029.D\DAD1A.CH
Acq On : 23-Aug-08, 18:57 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 9:48 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Integ
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25 (
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB RDX	10.95	103892	2.723	ppb	m
4) TMB 1,3-DNB	14.32	87712	2.665	ppb	
5) TMB Nitrobenzene	15.48	78695	2.546	ppb	
8) TMB Nitroglycerin	20.67	39245	2.570	ppb	
10) TMB 2,4-DNT	23.48	61727	2.601	ppb	
13) TMB 3,5-Dinitroaniline	27.94	66785	2.475	ppb	
14) TMB 3-NT	30.04	70063	2.493	ppb	
15) TMB 4-Am-2,6-DNT	31.33	51586	2.697	ppb	
19) TMB HMX #2	7.09	55894	2.884	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_029.D
Operator : RJB
Acquired : 23-Aug-08, 18:57 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 813B0730DNACCV4
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_029.D Vial: 92
Acq On : 23-Aug-08, 18:57 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

8/24/08
8-25-08

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 24-Aug-08, 04:42
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_038.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	682	687	0.72	TMA	
2	SA	1,2-DNB	445	450	1.1	SA	
3	TMA	2,4,6-TNT	369	366	0.81	TMA	
4	TMA	Tetryl	328	304	7.3	TMA	
5	TMA	2,6-DNT	299	287	3.9	TMA	
6	TMA	2-NT	280	255	9.0	TMA	
7	TMA	4-NT	160	160	0.15	TMA	
8	TMA	2-Am-4,6-DNT	178	181	1.5	TMA	
9	TMA	PETN	71.2	70.3	1.2	TMA	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_038.D\DAD1B.CH Vial: 91
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_038.D\DAD1A.CH
Acq On : 24-Aug-08, 04:42 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 9:46 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIM.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	13.55	112562	2.528	ppb	
Spiked Amount 0.050		Recovery	= 5056.00%		
Target Compounds					
2) TMA 1,3,5-TNB	11.70	171857	2.518	ppb	
6) TMA 2,4,6-TNT	19.48	91566	2.480	ppb	
7) TMA Tetryl	20.32	76029	2.319	ppb	
9) TMA 2,6-DNT	22.44	71778	2.402	ppb	
11) TMA 2-NT	25.66	63641	2.276	ppb	
12) TMA 4-NT	28.00	40014	2.504	ppb	
16) TMA 2-Am-4,6-DNT	33.65	45229	2.537	ppb	
17) TMA PETN	44.10	87911	12.346	ppb	
Target Compounds					
1) TMB RDX	0.00	0	N.D.	ppb	d
4) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
5) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
8) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
10) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
13) TMB 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
14) TMB 3-NT	0.00	0	N.D.	ppb	d
15) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
19) TMB HMX #2	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_038.D Vial: 91
Acq On : 24-Aug-08, 04:42 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_4 Inst : G1315A
Misc : 2.5/12.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330 - Full List
ACC_DAD1.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 24-Aug-08, 05:38
Instrument: UV1200
Initial Cal. Date: 06/27/08
Data File: 0822_039.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	RDX	382	410	7.5	TMB	
2	TMB	1,3-DNB	329	344	4.4	TMB	
3	TMB	Nitrobenzene	309	304	1.6	TMB	
4	TMB	Nitroglycerin	153	154	0.82	TMB	
5	TMB	2,4-DNT	237	241	1.7	TMB	
6	TMB	3,5-Dinitroaniline	270	260	3.6	TMB	
7	TMB	3-NT	281	269	4.4	TMB	
8	TMB	4-Am-2,6-DNT	191	200	4.7	TMB	
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Quantitation Report (QT Reviewed)

Signal #1 : J:\UV1200\HPCHEM\1\DATA\080627\0822_039.D\DAD1B.CH Vial: 92
Signal #2 : J:\UV1200\HPCHEM\1\DATA\080627\0822_039.D\DAD1A.CH
Acq On : 24-Aug-08, 05:38 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
IntFile Signal #1: C18_DAD.E IntFile Signal #2: C18_DAD.E
Quant Time: Aug 24 9:44 2008 Quant Results File: ACC_DAD1.RES

Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M (Chemstation Inte
Title : EPA Method 8330 - Full List
Last Update : Fri Aug 08 08:39:02 2008
Response via : Initial Calibration
DataAcq Meth : ACCLAIMB.M

Volume Inj. : 100 uL
Signal #1 Phase : DIONEX ACCLAIM E2 Signal #2 Phase: DIONEX ACCLAIM E2 25
Signal #1 Info : 210 nm Signal #2 Info : 254 nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050		Recovery =	0.00%		
Target Compounds					
1) TMB RDX	10.99	102552	2.688	ppb	m
4) TMB 1,3-DNB	14.32	85915	2.610	ppb	
5) TMB Nitrobenzene	15.45	76065	2.461	ppb	
8) TMB Nitroglycerin	20.59	38492	2.520	ppb	
10) TMB 2,4-DNT	23.44	60340	2.542	ppb	
13) TMB 3,5-Dinitroaniline	28.15	65007	2.409	ppb	
14) TMB 3-NT	29.94	67176	2.390	ppb	
15) TMB 4-Am-2,6-DNT	31.48	50063	2.618	ppb	
19) TMB HMX #2	7.12	54796	2.827	ppb	m
Target Compounds					
2) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
6) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
11) TMA 2-NT	0.00	0	N.D.	ppb	d
12) TMA 4-NT	0.00	0	N.D.	ppb	d
16) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
17) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV1200\HPCHEM\1\DATA\080627\0822_039.D
Operator : RJB
Acquired : 24-Aug-08, 05:38 using AcqMethod ACCLAIMB.M
Instrument : G1315A
Sample Name: 813B0730DNACCV4
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV1200\HPCHEM\1\DATA\080627\0822_039.D Vial: 92
Acq On : 24-Aug-08, 05:38 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_4 Inst : G1315A
Misc : 2.5 ppm 8/22/08 Multiplr: 1.00
Quant Method : J:\UV1200\HPCHEM\1\DATA\080627\ACC_DAD1.M

EPA 8330B - Full List - UV2
C180825B.m

Form 6 LC
Initial Calibration

Lab Name: APPL, Inc. SDG No: 56740
Case No: Initial Cal. Date: 8/25/2008
Matrix: Instrument: UV2 Initials: RJB

MixA / PETN Calibratio	0825_010.D	0825_011.D	0825_012.D	0825_013.D	0825_014.D
MixB / 3,5-DNA Calibration	0825_003.D	0825_004.D	0825_005.D	0825_006.D	0825_007.D
MixA / MixB / 3,5-DNA Concentration	0.025 ppm	0.05 ppm	1.0 ppm	2.5 ppm	5.0 ppm
PETN Concentration	0.125 ppm	0.25 ppm	1.0 ppm	2.5 ppm	5.0 ppm

		Compound	2	3	4	5	6			Avg	%RSD		
1	TMB	HMX	2713	2567	2446	2324	2696			2549	6.5	TMB	
2	TMB	RDX	1959	1876	1796	1726	2024			1876	6.4	TMB	
3	TMA	1,3,5-TNB	7104	7120	6451	6449	7304			6885	5.9	TMA	
4	SA	1,2-DNB	4095	3994	3599	3587	4281			3911	7.9	SA	
5	TMB	1,3-DNB	3132	3167	3050	2960	3207			3103	3.2	TMB	
6	TM	3,5-Dinitroaniline	5430	5314	5490	5281	5702			5443	3.1	TM	
7	TMA	Tetryl	4017	4028	3614	3595	4335			3918	8.0	TMA	
8	TMB	Nitrobenzene	2244	2253	2166	2081	2412			2231	5.5	TMB	
9	TMA	2,4,6-TNT	3788	3655	3286	3285	3864			3576	7.7	TMA	
10	TMB	Nitroglycerin	1008	862	833	803	956			893	9.7	TMB	
11	TMB	4-Am-2,6-DNT	3530	3461	3290	3172	3600			3411	5.2	TMB	
12	TMA	2-Am-4,6-DNT	3725	3517	3157	3127	3814			3468	9.1	TMA	
13	TMA	2,6-DNT	2522	2275	2040	2034	2558			2286	11	TMA	
14	TMB	2,4-DNT	1943	1947	1860	1793	1942			1897	3.6	TMB	
15	TMA	2-NT	1580	1458	1301	1285	1747			1475	13	TMA	
16	TMA	4-NT	1553	1464	1310	1292	1660			1456	11	TMA	
17	TMB	3-NT	1712	1629	1564	1489	1445			1568	6.8	TMB	
18	TMA	PETN	480	513	501	497	505			499	2.4	TMA	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_003.D Vial: 92
Acq On : 25-Aug-08, 16:57 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_2 Inst : G1314A
Misc : 0.025 ppm 08/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:25 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrator)
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:27:29 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050		Recovery =	0.000%		
Target Compounds					
1) TMB HMX	6.96	6739	0.025	ppb	m
2) TMB RDX	11.49	5061	0.025	ppb	m
5) TMB 1,3-DNB	19.73	8017	0.025	ppb	m
6) TM 3,5-Dinitroaniline	21.40	14256	0.026	ppb	m
8) TMB Nitrobenzene	23.20	6030	0.027	ppb	m
10) TMB Nitroglycerin	26.99	2391	0.024	ppb	m
11) TMB 4-Am-2,6-DNT	28.55	9000	0.027	ppb	m
14) TMB 2,4-DNT	32.74	4854	0.025	ppb	m
17) TMB 3-NT	46.42	3613	0.024	ppb	m
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_003.D
Operator : RJB
Acquired : 25-Aug-08, 16:57 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_2 8/25
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_003.D Vial: 92
Acq On : 25-Aug-08, 16:57 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_2 Inst : G1314A
Misc : 0.025 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

0825_003.D C18_0825.M Tue Aug 26 08:52:59 2008 Page 2

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_004.D Vial: 93
Acq On : 25-Aug-08, 18:00 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_3 Inst : G1314A
Misc : 0.05 ppm 08/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:27 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrator)
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:27:29 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) SA 1,2-DNB	0.00	0	N.D. ppb	d
Spiked Amount 0.050		Recovery =	0.000%	
Target Compounds				
1) TMB HMX	6.97	13567	0.051 ppb	m
2) TMB RDX	11.51	9796	0.049 ppb	m
5) TMB 1,3-DNB	19.82	15661	0.049 ppb	m
6) TM 3,5-Dinitroaniline	21.50	27150	0.050 ppb	m
8) TMB Nitrobenzene	23.35	11222	0.049 ppb	m
10) TMB Nitroglycerin	27.14	5040	0.053 ppb	
11) TMB 4-Am-2,6-DNT	28.77	17649	0.053 ppb	
14) TMB 2,4-DNT	32.94	9714	0.051 ppb	m
17) TMB 3-NT	46.75	8562	0.057 ppb	m
Target Compounds				
3) TMA 1,3,5-TNB	0.00	0	N.D. ppb	d
7) TMA Tetryl	0.00	0	N.D. ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D. ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D. ppb	d
13) TMA 2,6-DNT	0.00	0	N.D. ppb	d
15) TMA 2-NT	0.00	0	N.D. ppb	d
16) TMA 4-NT	0.00	0	N.D. ppb	d
18) TMA PETN	0.00	0	N.D. ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.
0825_004.D C18_0825.M Tue Aug 26 09:01:47 2008

File : J:\UV2\HPCHEM\2\DATA\080825\0825_004.D
Operator : RJB
Acquired : 25-Aug-08, 18:00 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_3 8/25
Misc Info :
Vial Number: 93

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_004.D Vial: 93
Acq On : 25-Aug-08, 18:00 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_3 Inst : G1314A
Misc : 0.05 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_005.D Vial: 94
Acq On : 25-Aug-08, 19:02 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_4 Inst : G1314A
Misc : 1.0 ppm 08/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:28 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:27:29 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.97	256677	0.969	ppb	m
2) TMB RDX	11.52	187630	0.932	ppb	m
5) TMB 1,3-DNB	19.82	316741	0.996	ppb	
6) TM 3,5-Dinitroaniline	21.54	531422	0.990	ppb	
8) TMB Nitrobenzene	23.36	225324	0.970	ppb	
10) TMB Nitroglycerin	27.16	86219	0.899	ppb	
11) TMB 4-Am-2,6-DNT	28.82	346087	1.025	ppb	
14) TMB 2,4-DNT	32.95	194687	1.019	ppb	
17) TMB 3-NT	46.74	162916	1.064	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_005.D
Operator : RJB
Acquired : 25-Aug-08, 19:02 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_4 8/25
Misc Info :
Vial Number: 94

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_005.D Vial: 94
Acq On : 25-Aug-08, 19:02 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_4 Inst : G1314A
Misc : 1.0 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Operator 8-26-08

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_006.D
Acq On : 25-Aug-08, 20:05
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_5
Misc : 2.5 ppm 08/25/08
IntFile : EVENTS.E
Quant Time: Aug 26 7:29 2008 Quant Results File: C18_0825.RES

Vial: 95
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:27:29 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.98	611484	2.357	ppb	m
2) TMB RDX	11.54	448888	2.280	ppb	m
5) TMB 1,3-DNB	19.86	762537	2.433	ppb	
6) TM 3,5-Dinitroaniline	21.62	1372511	2.535	ppb	
8) TMB Nitrobenzene	23.41	541593	2.366	ppb	
10) TMB Nitroglycerin	27.23	208340	2.218	ppb	
11) TMB 4-Am-2,6-DNT	28.95	822601	2.449	ppb	
14) TMB 2,4-DNT	33.05	465100	2.447	ppb	
17) TMB 3-NT	46.90	391059	2.563	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_006.D
Operator : RJB
Acquired : 25-Aug-08, 20:05 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_5 8/25
Misc Info :
Vial Number: 95

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_006.D Vial: 95
Acq On : 25-Aug-08, 20:05 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_5 Inst : G1314A
Misc : 2.5 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Okay to publish
8-26-08

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_007.D
Acq On : 25-Aug-08, 21:08
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_6
Misc : 5.0 ppm 08/25/08
IntFile : EVENTS.E
Quant Time: Aug 26 7:30 2008 Quant Results File: C18_0825.RES

Vial: 96
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:27:29 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.98	1162064	4.440	ppb	
2) TMB RDX	11.54	863070	4.358	ppb	m
5) TMB 1,3-DNB	19.83	1480129	4.656	ppb	
6) TM 3,5-Dinitroaniline	21.63	2640462	4.822	ppb	
8) TMB Nitrobenzene	23.37	1040550	4.489	ppb	
10) TMB Nitroglycerin	27.17	401427	4.246	ppb	
11) TMB 4-Am-2,6-DNT	28.93	1586227	4.627	ppb	
14) TMB 2,4-DNT	32.98	896276	4.620	ppb	
17) TMB 3-NT	46.83	744507	4.767	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_007.D
Operator : RJB
Acquired : 25-Aug-08, 21:08 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_6 8/25
Misc Info :
Vial Number: 96

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_007.D Vial: 96
Acq On : 25-Aug-08, 21:08 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_6 Inst : G1314A
Misc : 5.0 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Original signature
8-26-08

EPA 8330B - Full List - UV2
C180825B.m

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 25-Aug-08, 22:11
Instrument: UV2
Initial Cal. Date: 8/25/2008
Data File: 0825_008.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	HMX	2549	2245	12	TMB	
2	TMB	RDX	1876	1578	16	TMB	
3	TMB	1,3-DNB	3103	2854	8.0	TMB	
4	TM	3,5-Dinitroaniline	5444	5745	5.5	TM	
5	TMB	Nitrobenzene	2231	1982	11	TMB	
6	TMB	Nitroglycerin	893	753	16	TMB	
7	TMB	4-Am-2,6-DNT	3411	3254	4.6	TMB	
8	TMB	2,4-DNT	1897	1723	9.1	TMB	
9	TMB	3-NT	1568	1443	8.0	TMB	
10							
11							
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_008.D Vial: 84
Acq On : 25-Aug-08, 22:11 Operator: RJB
Sample : 8330_05/15_SS_A 2.5 ppm 8/25/08 Inst : G1314A
Misc : Compare to Accustandard MixB analytes Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 8:38 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050		Recovery =	0.00%		
Target Compounds					
1) TMB HMX	6.98	561160	2.201	ppb	m
2) TMB RDX	11.56	394502	2.103	ppb	m
5) TMB 1,3-DNB	19.87	713450	2.299	ppb	
6) TM 3,5-Dinitroaniline	21.66	1436127	2.638	ppb	
8) TMB Nitrobenzene	23.41	495533	2.221	ppb	
10) TMB Nitroglycerin	27.18	188316	2.110	ppb	
11) TMB 4-Am-2,6-DNT	28.98	813610	2.385	ppb	
14) TMB 2,4-DNT	33.09	430868	2.272	ppb	
17) TMB 3-NT	47.04	360735	2.301	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_008.D
Operator : RJB
Acquired : 25-Aug-08, 22:11 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: 5/15_SS_A
Misc Info :
Vial Number: 84

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_008.D Vial: 84
Acq On : 25-Aug-08, 22:11 Operator: RJB
Sample : 8330_05/15_SS_A 2.5 ppm 8/25/08 Inst : G1314A
Misc : Compare to Accustandard MixB analytes Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

0825_008.D C180825B.M Tue Aug 26 08:52:32 2008

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_010.D
Acq On : 26-Aug-08, 00:16
Sample : 8330_08/13_MixA_PETN_CAL_2
Misc : 0.025/0.125 ppm 08/25/08
IntFile : EVENTS.E
Quant Time: Aug 26 7:53 2008 Quant Results File: C18_0825.RES

Vial: 98
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrator)
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) SA 1,2-DNB	16.76	10703	0.025 ppb	m
Spiked Amount 0.050		Recovery =	50.000%	
Target Compounds				
3) TMA 1,3,5-TNB	15.51	18259	0.025 ppb	m
7) TMA Tetryl	22.80	10838	0.027 ppb	
9) TMA 2,4,6-TNT	26.46	9660	0.027 ppb	m
12) TMA 2-Am-4,6-DNT	30.01	9536	0.027 ppb	m
13) TMA 2,6-DNT	32.04	6396	0.028 ppb	m
15) TMA 2-NT	40.16	4369	0.030 ppb	m
16) TMA 4-NT	44.19	4150	0.029 ppb	m
18) TMA PETN	53.82	6315	0.120 ppb	m
Target Compounds				
1) TMB HMX	0.00	0	N.D. ppb	d
2) TMB RDX	0.00	0	N.D. ppb	d
5) TMB 1,3-DNB	0.00	0	N.D. ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D. ppb	d
8) TMB Nitrobenzene	0.00	0	N.D. ppb	d
10) TMB Nitroglycerin	0.00	0	N.D. ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D. ppb	d
14) TMB 2,4-DNT	0.00	0	N.D. ppb	d
17) TMB 3-NT	0.00	0	N.D. ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_010.D
Operator : RJB
Acquired : 26-Aug-08, 00:16 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CAL2 8/25
Misc Info :
Vial Number: 98

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_010.D Vial: 98
Acq On : 26-Aug-08, 00:16 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_2 Inst : G1314A
Misc : 0.025/0.125 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_011.D
Acq On : 26-Aug-08, 01:19
Sample : 8330_08/13_MixA_PETN_CAL_3
Misc : 0.05/0.25 ppm 08/25/08
IntFile : EVENTS.E
Quant Time: Aug 26 7:53 2008 Quant Results File: C18_0825.RES

Vial: 99
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrator)
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SA 1,2-DNB	16.77	20475	0.048 ppb
Spiked Amount 0.050		Recovery =	96.000%
Target Compounds			
3) TMA 1,3,5-TNB	15.51	35519	0.049 ppb
7) TMA Tetryl	22.81	20087	0.049 ppb
9) TMA 2,4,6-TNT	26.49	18942	0.051 ppb
12) TMA 2-Am-4,6-DNT	30.04	18626	0.052 ppb
13) TMA 2,6-DNT	32.07	12609	0.054 ppb
15) TMA 2-NT	40.23	7900	0.052 ppb
16) TMA 4-NT	44.26	7763	0.053 ppb
18) TMA PETN	53.86	12010	0.229 ppb
Target Compounds			
1) TMB HMX	0.00	0	N.D. ppb d
2) TMB RDX	0.00	0	N.D. ppb d
5) TMB 1,3-DNB	0.00	0	N.D. ppb d
6) TM 3,5-Dinitroaniline	0.00	0	N.D. ppb d
8) TMB Nitrobenzene	0.00	0	N.D. ppb d
10) TMB Nitroglycerin	0.00	0	N.D. ppb d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D. ppb d
14) TMB 2,4-DNT	0.00	0	N.D. ppb d
17) TMB 3-NT	0.00	0	N.D. ppb d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_011.D Vial: 99
Acq On : 26-Aug-08, 01:19 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_3 Inst : G1314A
Misc : 0.05/0.25 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_012.D Vial: 100
Acq On : 26-Aug-08, 02:22 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_4 Inst : G1314A
Misc : 1.0 ppm 08/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:54 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.76	399380	0.923	ppb	m
Spiked Amount 0.050		Recovery	= 1846.00%		
Target Compounds					
3) TMA 1,3,5-TNB	15.50	711959	0.967	ppb	m
7) TMA Tetryl	22.81	402837	0.976	ppb	
9) TMA 2,4,6-TNT	26.47	365469	0.974	ppb	
12) TMA 2-Am-4,6-DNT	30.06	351658	0.963	ppb	
13) TMA 2,6-DNT	32.07	227488	0.940	ppb	
15) TMA 2-NT	40.21	145844	0.948	ppb	
16) TMA 4-NT	44.22	146419	0.977	ppb	
18) TMA PETN	53.81	51317	0.980	ppb	
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_012.D
Operator : RJB
Acquired : 26-Aug-08, 02:22 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CAL4 8/25
Misc Info :
Vial Number: 100

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_012.D Vial: 100
Acq On : 26-Aug-08, 02:22 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_4 Inst : G1314A
Misc : 1.0 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

8/26/08
8.26.08

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_013.D Vial: 81
Acq On : 26-Aug-08, 03:24 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_5 Inst : G1314A
Misc : 2.5 ppm 08/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:56 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.77	899626	2.082	ppb	m
Spiked Amount 0.050		Recovery	= 4164.00%		
Target Compounds					
3) TMA 1,3,5-TNB	15.50	1612810	2.176	ppb	m
7) TMA Tetryl	22.86	903590	2.170	ppb	
9) TMA 2,4,6-TNT	26.53	821566	2.163	ppb	
12) TMA 2-Am-4,6-DNT	30.18	789200	2.130	ppb	
13) TMA 2,6-DNT	32.17	509927	2.085	ppb	
15) TMA 2-NT	40.37	325359	2.093	ppb	
16) TMA 4-NT	44.41	327386	2.143	ppb	
18) TMA PETN	54.03	125259	2.439	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_013.D
Operator : RJB
Acquired : 26-Aug-08, 03:24 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CAL5 8/25
Misc Info :
Vial Number: 81

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_013.D
Acq On : 26-Aug-08, 03:24
Sample : 8330_08/13_MixA_PETN_CAL_5
Misc : 2.5 ppm 08/25/08
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Vial: 81
Operator: RJB
Inst : G1314A
Multiplr: 1.00

8-26-08

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_014.D
Vial: 82
Acq On : 26-Aug-08, 04:27
Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_6
Inst : G1314A
Misc : 5.0 ppm 08/25/08
Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 7:57 2008 Quant Results File: C18_0825.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.71	1793564	4.270	ppb	m
Spiked Amount 0.050	Recovery	= 8540.00%			
Target Compounds					
3) TMA 1,3,5-TNB	15.46	3224532	4.436	ppb	m
7) TMA Tetryl	22.79	1797507	4.389	ppb	
9) TMA 2,4,6-TNT	26.44	1642453	4.380	ppb	
12) TMA 2-Am-4,6-DNT	29.98	1563547	4.266	ppb	
13) TMA 2,6-DNT	32.02	1016966	4.218	ppb	
15) TMA 2-NT	40.18	642748	4.190	ppb	
16) TMA 4-NT	44.16	645928	4.245	ppb	
18) TMA PETN	53.92	248731	4.857	ppb	
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_014.D
Operator : RJB
Acquired : 26-Aug-08, 04:27 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CAL6 8/25
Misc Info :
Vial Number: 82

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_014.D Vial: 82
Acq On : 26-Aug-08, 04:27 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_6 Inst : G1314A
Misc : 5.0 ppm 08/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C18_0825.M

Original chrom
JR 8-26-08

EPA 8330B - Full List - UV2

C180825B.m

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

Case No:

Matrix:

SDG No: 56740

Date Analyzed: 26-Aug-08, 07:42

Instrument: UV2

Initial Cal. Date: 08/25/08

Data File: 0825_017.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	6885	6315	8.3	TMA	
2	SA	1,2-DNB	3911	3354	14	SA	
3	TMA	Tetryl	3918	3706	5.4	TMA	
4	TMA	2,4,6-TNT	3576	3190	11	TMA	
5	TMA	2-Am-4,6-DNT	3468	3274	5.6	TMA	
6	TMA	2,6-DNT	2286	2017	12	TMA	
7	TMA	2-NT	1475	1357	8.0	TMA	
8	TMA	4-NT	1456	1314	9.7	TMA	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_017.D
Acq On : 26-Aug-08, 07:42
Sample : 8330_08/24_MIXB_SS 2.5 ppm 8/26/08
Misc : Compare to Accustandard MixA analytes
IntFile : EVENTS.E
Quant Time: Aug 26 9:00 2008 Quant Results File: C180825B.RES

Vial: 13
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.73	838455	2.144	ppb	
Spiked Amount 0.050	Recovery	= 4288.00%			
Target Compounds					
3) TMA 1,3,5-TNB	15.48	1578626	2.293	ppb	
7) TMA Tetryl	22.80	926512	2.365	ppb	
9) TMA 2,4,6-TNT	26.47	797487	2.230	ppb	
12) TMA 2-Am-4,6-DNT	30.04	818447	2.360	ppb	
13) TMA 2,6-DNT	32.07	504226	2.206	ppb	
15) TMA 2-NT	40.23	339126	2.300	ppb	
16) TMA 4-NT	44.23	328599	2.257	ppb	
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_017.D Vial: 13
Acq On : 26-Aug-08, 07:42 Operator: RJB
Sample : 8330_08/24_MIXB_SS 2.5 ppm 8/26/08 Inst : G1314A
Misc : Compare to Accustandard MixA analytes Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B - Full List - UV2
C180825B.m

Form 7
MRL Check

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 26-Aug-08, 11:06
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_020.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	HMX	2549	2885	13	TMB	
2	TMB	RDX	1876	2028	8.1	TMB	
3	TMB	1,3-DNB	3103	3012	2.9	TMB	
4	TM	3,5-Dinitroaniline	5444	5496	0.97	TM	
5	TMB	Nitrobenzene	2231	2299	3.0	TMB	
6	TMB	Nitroglycerin	893	901	0.91	TMB	
7	TMB	4-Am-2,6-DNT	3411	3724	9.2	TMB	
8	TMB	2,4-DNT	1897	1959	3.3	TMB	
9	TMB	3-NT	1568	1702	8.5	TMB	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_020.D Vial: 92
Acq On : 26-Aug-08, 11:06 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_2 Inst : G1314A
Misc : 0.025 ppm 8/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 12:43 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.98	7213	0.028	ppb	m
2) TMB RDX	11.58	5069	0.027	ppb	m
5) TMB 1,3-DNB	19.94	7530	0.024	ppb	
6) TM 3,5-Dinitroaniline	21.71	13741	0.025	ppb	
8) TMB Nitrobenzene	23.44	5747	0.026	ppb	
10) TMB Nitroglycerin	27.12	2252	0.025	ppb	m
11) TMB 4-Am-2,6-DNT	28.98	9311	0.027	ppb	m
14) TMB 2,4-DNT	33.18	4896	0.026	ppb	m
17) TMB 3-NT	47.08	4255	0.027	ppb	m
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_020.D
Operator : RJB
Acquired : 26-Aug-08, 11:06 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CAL_2 8/25
Misc Info :
Vial Number: 92

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_020.D Vial: 92
Acq On : 26-Aug-08, 11:06 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CAL_2 Inst : G1314A
Misc : 0.025 ppm 8/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

Approved 8/26/08 JR 8-26-08

EPA 8330B - Full List - UV2
C180825B.m

Form 7
MRL Check

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 26-Aug-08, 12:09
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_021.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMA	1,3,5-TNB	6885	7325	6.4	TMA	
2	SA	1,2-DNB	3911	4249	8.6	SA	
3	TMA	Tetryl	3918	4281	9.3	TMA	
4	TMA	2,4,6-TNT	3576	3831	7.2	TMA	
5	TMA	2-Am-4,6-DNT	3468	3950	14	TMA	
6	TMA	2,6-DNT	2286	2380	4.1	TMA	
7	TMA	2-NT	1475	1571	6.5	TMA	
8	TMA	4-NT	1456	1689	16	TMA	
9	TMA	PETN	499	508	1.7	TMA	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_021.D Vial: 98
Acq On : 26-Aug-08, 12:09 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_2 Inst : G1314A
Misc : 0.025/0.125 ppm 8/25/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 26 13:13 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.69	10623	0.027	ppb	
Spiked Amount 0.050	Recovery	=	54.00%		
Target Compounds					
3) TMA 1,3,5-TNB	15.45	18312	0.027	ppb	
7) TMA Tetryl	22.68	10702	0.027	ppb	
9) TMA 2,4,6-TNT	26.36	9579	0.027	ppb	
12) TMA 2-Am-4,6-DNT	29.81	9875	0.028	ppb	
13) TMA 2,6-DNT	31.88	5950	0.026	ppb	
15) TMA 2-NT	40.03	3927	0.027	ppb	
16) TMA 4-NT	43.99	4224	0.029	ppb	
18) TMA PETN	53.49	6348	0.127	ppb	
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_021.D Vial: 98
Acq On : 26-Aug-08, 12:09 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CAL_2 Inst : G1314A
Misc : 0.025/0.125 ppm 8/25/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B - Full List - UV2

C180825B.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 27-Aug-08, 05:52
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_034.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	6885	6389	7.2	TMA	
2	SA	1,2-DNB	3911	3573	8.6	SA	
3	TMA	Tetryl	3918	3544	9.6	TMA	
4	TMA	2,4,6-TNT	3576	3257	8.9	TMA	
5	TMA	2-Am-4,6-DNT	3468	3136	9.6	TMA	
6	TMA	2,6-DNT	2286	2038	11	TMA	
7	TMA	2-NT	1475	1300	12	TMA	
8	TMA	4-NT	1456	1307	10	TMA	
9	TMA	PETN	499	520	4.2	TMA	
10							
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_034.D Vial: 74
Acq On : 27-Aug-08, 05:52 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_6 Inst : G1314A
Misc : 2.5 ppm 8/26/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 27 8:03 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.69	893352	2.284	ppb	m
Spiked Amount 0.050		Recovery	= 4568.00%		
Target Compounds					
3) TMA 1,3,5-TNB	15.45	1597222	2.320	ppb	m
7) TMA Tetryl	22.78	885952	2.261	ppb	
9) TMA 2,4,6-TNT	26.44	814309	2.277	ppb	
12) TMA 2-Am-4,6-DNT	29.96	783992	2.261	ppb	
13) TMA 2,6-DNT	32.03	509582	2.229	ppb	
15) TMA 2-NT	40.17	325054	2.204	ppb	
16) TMA 4-NT	44.14	326761	2.245	ppb	
18) TMA PETN	53.98	130125	2.605	ppb	m
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_034.D
Operator : RJB
Acquired : 27-Aug-08, 05:52 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CCV_6
Misc Info :
Vial Number: 74

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_034.D Vial: 74
Acq On : 27-Aug-08, 05:52 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_6 Inst : G1314A
Misc : 2.5 ppm 8/26/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

8/27/08
8-27-08

EPA 8330B - Full List - UV2

C180825B.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 27-Aug-08, 06:55
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_035.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMB	HMX	2549	2420	5.1	TMB	
2	TMB	RDX	1876	1772	5.6	TMB	
3	TMB	1,3-DNB	3103	3007	3.1	TMB	
4	TM	3,5-Dinitroaniline	5444	5411	0.59	TM	
5	TMB	Nitrobenzene	2231	2134	4.4	TMB	
6	TMB	Nitroglycerin	893	831	6.9	TMB	
7	TMB	4-Am-2,6-DNT	3411	3271	4.1	TMB	
8	TMB	2,4-DNT	1897	1827	3.7	TMB	
9	TMB	3-NT	1568	1526	2.7	TMB	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_035.D Vial: 75
Acq On : 27-Aug-08, 06:55 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_6 Inst : G1314A
Misc : 2.5 ppm 8/26/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 27 8:04 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.97	605035	2.373	ppb	m
2) TMB RDX	11.59	443018	2.361	ppb	m
5) TMB 1,3-DNB	19.96	751679	2.422	ppb	
6) TM 3,5-Dinitroaniline	21.82	1352788	2.485	ppb	
8) TMB Nitrobenzene	23.51	533589	2.391	ppb	
10) TMB Nitroglycerin	27.28	207825	2.328	ppb	
11) TMB 4-Am-2,6-DNT	29.18	817823	2.398	ppb	
14) TMB 2,4-DNT	33.29	456816	2.408	ppb	
17) TMB 3-NT	47.26	381556	2.433	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

File : J:\UV2\HPCHEM\2\DATA\080825\0825_035.D
Operator : RJB
Acquired : 27-Aug-08, 06:55 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CCV_6
Misc Info :
Vial Number: 75

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_035.D Vial: 75
Acq On : 27-Aug-08, 06:55 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_6 Inst : G1314A
Misc : 2.5 ppm 8/26/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

EPA 8330B - Full List - UV2

C180825B.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 27-Aug-08, 22:19
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_047.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMA	1,3,5-TNB	6885	6500	5.6	TMA	
2	SA	1,2-DNB	3911	3622	7.4	SA	
3	TMA	Tetryl	3918	3479	11	TMA	
4	TMA	2,4,6-TNT	3576	3299	7.7	TMA	
5	TMA	2-Am-4,6-DNT	3468	3191	8.0	TMA	
6	TMA	2,6-DNT	2286	2058	10	TMA	
7	TMA	2-NT	1475	1288	13	TMA	
8	TMA	4-NT	1456	1301	11	TMA	
9	TMA	PETN	499	519	3.8	TMA	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_047.D Vial: 74
Acq On : 27-Aug-08, 22:19 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_6 Inst : G1314A
Misc : 2.5 PPM 8/26/08 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 28 7:20 2008 Quant Results File: C180825B.RES

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	16.81	905393	2.315	ppb	m
Spiked Amount 0.050	Recovery	= 4630.00%			
Target Compounds					
3) TMA 1,3,5-TNB	15.53	1624917	2.360	ppb	m
7) TMA Tetryl	22.95	869869	2.220	ppb	
9) TMA 2,4,6-TNT	26.63	824743	2.307	ppb	
12) TMA 2-Am-4,6-DNT	30.12	797664	2.300	ppb	
13) TMA 2,6-DNT	32.24	514482	2.251	ppb	
15) TMA 2-NT	40.49	321878	2.183	ppb	
16) TMA 4-NT	44.48	325144	2.234	ppb	
18) TMA PETN	54.48	129662	2.596	ppb	
Target Compounds					
1) TMB HMX	0.00	0	N.D.	ppb	d
2) TMB RDX	0.00	0	N.D.	ppb	d
5) TMB 1,3-DNB	0.00	0	N.D.	ppb	d
6) TM 3,5-Dinitroaniline	0.00	0	N.D.	ppb	d
8) TMB Nitrobenzene	0.00	0	N.D.	ppb	d
10) TMB Nitroglycerin	0.00	0	N.D.	ppb	d
11) TMB 4-Am-2,6-DNT	0.00	0	N.D.	ppb	d
14) TMB 2,4-DNT	0.00	0	N.D.	ppb	d
17) TMB 3-NT	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_047.D
Operator : RJB
Acquired : 27-Aug-08, 22:19 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: A_PETN_CCV_6
Misc Info :
Vial Number: 74

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_047.D Vial: 74
Acq On : 27-Aug-08, 22:19 Operator: RJB
Sample : 8330_08/13_MixA_PETN_CCV_6 Inst : G1314A
Misc : 2.5 PPM 8/26/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

Quant 8/28/08
8.28.08

EPA 8330B - Full List - UV2

C180825B.m

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 56740
Date Analyzed: 27-Aug-08, 23:22
Instrument: UV2
Initial Cal. Date: 08/25/08
Data File: 0825_048.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMB	HMX	2549	2472	3.0	TMB	
2	TMB	RDX	1876	1812	3.4	TMB	
3	TMB	1,3-DNB	3103	3078	0.81	TMB	
4	TM	3,5-Dinitroaniline	5444	5538	1.7	TM	
5	TMB	Nitrobenzene	2231	2134	4.4	TMB	
6	TMB	Nitroglycerin	893	839	6.0	TMB	
7	TMB	4-Am-2,6-DNT	3411	3343	2.0	TMB	
8	TMB	2,4-DNT	1897	1857	2.1	TMB	
9	TMB	3-NT	1568	1508	3.8	TMB	
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Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_048.D
Acq On : 27-Aug-08, 23:22
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_6
Misc : 2.5 ppm 8/26/08
IntFile : EVENTS.E
Quant Time: Aug 28 7:22 2008 Quant Results File: C180825B.RES

Vial: 75
Operator: RJB
Inst : G1314A
Multiplr: 1.00

Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M (Chemstation Integrat
Title : EPA Method 8330B - Full List
Last Update : Tue Aug 26 07:53:02 2008
Response via : Initial Calibration
DataAcq Meth : 214-254A.M

Volume Inj. : 100 uL
Signal Phase : C-18 25 cm x 4.6 mm
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) SA 1,2-DNB	0.00	0	N.D.	ppb	d
Spiked Amount 0.050	Recovery	=	0.00%		
Target Compounds					
1) TMB HMX	6.99	617941	2.424	ppb	
2) TMB RDX	11.61	453089	2.415	ppb	m
5) TMB 1,3-DNB	20.02	769574	2.480	ppb	
6) TM 3,5-Dinitroaniline	21.87	1384470	2.543	ppb	
8) TMB Nitrobenzene	23.63	533500	2.391	ppb	
10) TMB Nitroglycerin	27.44	209778	2.350	ppb	
11) TMB 4-Am-2,6-DNT	29.34	835799	2.451	ppb	
14) TMB 2,4-DNT	33.44	464284	2.448	ppb	
17) TMB 3-NT	47.61	376978	2.404	ppb	
Target Compounds					
3) TMA 1,3,5-TNB	0.00	0	N.D.	ppb	d
7) TMA Tetryl	0.00	0	N.D.	ppb	d
9) TMA 2,4,6-TNT	0.00	0	N.D.	ppb	d
12) TMA 2-Am-4,6-DNT	0.00	0	N.D.	ppb	d
13) TMA 2,6-DNT	0.00	0	N.D.	ppb	d
15) TMA 2-NT	0.00	0	N.D.	ppb	d
16) TMA 4-NT	0.00	0	N.D.	ppb	d
18) TMA PETN	0.00	0	N.D.	ppb	d

(f)=RT Delta > 1/2 Window (m)=manual int.

File : J:\UV2\HPCHEM\2\DATA\080825\0825_048.D
Operator : RJB
Acquired : 27-Aug-08, 23:22 using AcqMethod 214-254A.M
Instrument : G1314A
Sample Name: B_DNA_CCV_6
Misc Info :
Vial Number: 75

Quantitation Report (QT Reviewed)

Data File : J:\UV2\HPCHEM\2\DATA\080825\0825_048.D Vial: 75
Acq On : 27-Aug-08, 23:22 Operator: RJB
Sample : 8330_08/13_MixB_07/30_3,5-DNA_CCV_6 Inst : G1314A
Misc : 2.5 ppm 8/26/08 Multiplr: 1.00
Quant Method : J:\UV2\HPCHEM\2\DATA\080825\C180825B.M

0825_048.D C180825B.M Thu Aug 28 07:28:42 2008 Page 2

EXPLOSIVES

Raw Data

APPL, INC.

125 Market Street
New Haven, CT 06513 USA

AccuStandard, Inc.

W Lot #: B8050026 - 21969
Rec: 5/13/08 MFR exp. 05/07/09

CERTIFICATE OF ANALYSIS

CATALOG NO: S-16714-2 **EXPIRATION:** May 7, 2009

DESCRIPTION: Custom Explosives Standard 2

LOT: B8050026 **See reverse for additional certification information.**

SOLVENT: Acetonitrile:Methanol

This product is guaranteed accurate to ± 0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
HMX	2691-41-0	99.2	100.8	100.0
RDX	121-82-4	99.4	104.4	103.8
1,3-Dinitrobenzene	99-65-0	97.0	103.6*	100.5
Nitrobenzene	98-95-3	99.8	101.8	101.6
Nitroglycerin	55-63-0	100	100.1	100.1
4-Amino-2,6-dinitrotoluene	19406-51-0	99.2	101.0	100.2
2,4-Dinitrotoluene	121-14-2	100	100.6	100.6
3-Nitrotoluene	99-08-1	98.7	101.2	99.9
3,5-Dinitroaniline	618-87-1	99.3	101.0	100.3

9 Components

1. All weights are traceable through NIST, Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and identical to the same lot# without the suffix.

* Weight compensated to 100% purity

Certified by: R. Cooper

AccuStandard is accredited to ISO/IEC 17025:2005

125 Market Street
New Haven, CT 06513 USA

AccuStandard, Inc.

Custom Explosives Standard 2
Lot #: B8050018 - 21973
Rec: 5/13/08 MFR exp. 05/06/09

CERTIFICATE OF ANALYSIS

CATALOG NO: S-16714-1 **EXPIRATION:** May 6, 2009

DESCRIPTION: Custom Explosives Standard 1

LOT: B8050018 **See reverse for additional certification information.**

SOLVENT: Acetonitrile:Methanol

This product is guaranteed accurate to ± 0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
1,3,5-Trinitrobenzene	99-35-4	97.5	102.6*	100.0
Tetryl	479-45-8	99.4	100.4	99.8
2,4,6-Trinitrotoluene	118-96-7	100	100.0	100.0
2-Amino-4,6-dinitrotoluene	35572-78-2	99.8	100.8	100.6
1,2-Dinitrobenzene	528-29-0	98.6	101.0	99.6
2,6-Dinitrotoluene	606-20-2	100	100.2	100.2
2-Nitrotoluene	88-72-2	99.0	100.4	99.4
4-Nitrotoluene	99-99-0	99.2	100.8	100.0
PETN	78-11-5	99.3	500.8	497.3

9 Components

1. All weights are traceable through NIST, Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and identical to the same lot# without the suffix.

* Weight compensated to 100% purity

Certified by: R. Cooper

AccuStandard is accredited to ISO/IEC 17025:2005

OR-ORG/INO-001
Rev. 7/07

Absolute Standards, Inc.
800-368-1131
www.absolutes ards.com

ISO 9001 QS Registe
IS '7025 Accredi

CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):
		E37818	Acetonitrile

Part Number: 95093
Lot Number: 051208
Description: 8330 Mix A
9 components
Expiration Date: 051211

Nominal Concentration (µg/mL): 100

Formulated By:	Justin Dippold	051208	DATE
Reviewed By:	Pedro L. Rentas	051208	DATE

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to: 10.0 0.001 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 4-Amino-2,6-dinitrotoluene	79070	062707	0.10	1.00	0.002	1001.6	100.2	0.00444	00000-00-0	N/A	N/A
2. 3,5-Dinitroaniline	71772	101907	0.10	1.00	0.002	1003.3	100.4	0.00581	00618-87-1	N/A	N/A
3. 1,3-Dinitrobenzene	79071	071706	0.10	1.00	0.002	1001.1	100.1	0.00451	00099-65-0	1mg/m3/8H (skin)	orl-rat 83mg/kg
4. 2,4-Dinitrotoluene	79072	110206	0.10	1.00	0.002	1002.8	100.3	0.00451	00121-14-2	1.5mg/m3/8H (skin)	orl-rat 268mg/kg
5. HMX	79074	041808	0.10	1.00	0.002	1000.7	100.1	0.00451	02691-41-0	N/A	N/A
6. Nitrobenzene	79075	100906	0.10	1.00	0.002	1003.4	100.4	0.00416	00098-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
7. 3-Nitrotoluene	79077	100906	0.10	1.00	0.002	1002.6	100.3	0.00417	00099-08-1	2 ppm (11mg/m3/8H)(skin)	orl-rat 1072mg/kg
8. RDX	79079	060904	0.10	1.00	0.002	1000.7	100.1	0.00581	00121-82-4	N/A	N/A
9. Trinitroglycerin	79252	072804	0.10	1.00	0.002	1000.3	100.1	0.00581	00055-63-0	STEL 0.1mg/m3(skin)	N/A
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											

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CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):
		E37818	Acetonitrile

Part Number: 95094
Lot Number: 051208
Description: 8330 Mix B
8 components
Expiration Date: 051211

Nominal Concentration (µg/mL): 100

Formulated By: Justin Dippold DATE 051208

Reviewed By: Pedro L. Rentas DATE 051208

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to: 10.0 0.001 Flask Uncertainty

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 2-Amino-4,6-dinitrotoluene	79069	062707	0.10	1.00	0.002	1002.3	100.3	0.00417	35572-78-2	N/A	N/A
2. 1,2-Dinitrobenzene	79404	051208	0.10	1.00	0.002	1004.7	100.5	0.00565	00528-29-0	1mg/m3/8H (skin)	N/A
3. 2,6-Dinitrotoluene	79073	100906	0.10	1.00	0.002	1002.2	100.3	0.00416	00606-20-2	1.5mg/m3/8H (skin)	orl-rat 177mg/kg
4. 2-Nitrotoluene	79076	100906	0.10	1.00	0.002	1003.1	100.3	0.00416	00088-72-2	2 ppm (11mg/m3/8H)(skin)	orl-rat 891mg/kg
5. 4-Nitrotoluene	79078	100906	0.10	1.00	0.002	1001.1	100.1	0.00417	00099-99-0	2 ppm (11mg/m3/8H)(skin)	orl-rat 1960mg/kg
6. Tetryl	79080	120903	0.10	1.00	0.002	1000.7	100.1	0.00581	00479-45-8	N/A	N/A
7. 1,3,5-Trinitrobenzene	79081	010406	0.10	1.00	0.002	1001.5	100.2	0.00417	00099-35-4	N/A	N/A
8. 2,4,6-Trinitrotoluene	79082	011008	0.10	1.00	0.002	1002.0	100.2	0.01015	00118-96-7	0.5mg/m3 (skin)	orl-rat 820mg/kg

Lot #: 051208 - 21997
Rec: 5/15/08 M/FR exp. 05/12/11

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CERTIFIED WEIGHT REPORT

Part Number: 79250
Lot Number: 120106
Description: Pentaerythritol tetranitrate [PETN]
Expiration Date: 120111

Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # 1009AE Acetonitrile

Formulated By: Vincent K. Criscio, Jr. DATE 120106

Reviewed By: Pedro L. Rentas DATE 120106

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.002 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	*Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Pentaerythritol tetranitrate	2350	34701-57	1000	99	0.2	0.01010	0.01011	1001.2	0.0107	00078-11-5	N/A	N/A

Lot #: 120106 - 22000
Rec: 5/15/08 MFR exp. 12/01/11

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LC/MS STANDARD PREP LOG# 07 PAGE# 11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
8151/8321CB	0.004 M						
8151/8321CB	0.004M	5-15-08	1.20	2.0	0.004M	NCEPI	5-15-08
8330_05|15_SS_MixA							
95093-8330 Mix A	100µg/mL	Absolute 5/15/08	1.0mL	4.0mL	25µg/mL	50:50 ACN:MeOH CW275:CW326	5/15/08

Part #: 95093 Laboratory Use Only-See MSDS
Lot #: 051208 Exp: 051211 1 mL
8330 Mix A
9 components
100 ug/mL In
ABSOLUTE STANDAR
8330 Mix A
Lot #: 051208 - 21992
Rec: 5/15/08 MFR exp. 05/12/11

The ampule to the left was cracked open 5-15-08 and 1.0mL was used to make the stock above. The remainder was transferred to an amber injection vial and stored in PHOENIX freezer 5/15/08

8330_05|15_SS_MixB							
95094-8330 Mix B	100µg/mL	Absolute 5/15/08	1.0mL	4.0mL	25µg/mL	50:50 ACN:MeOH CW275:CW326	5/15/08

Part #: 95094 Laboratory Use Only-See MSDS
Lot #: 051208 Exp: 051211 1 mL
8330 Mix B
9 components
100 ug/mL In
ABSOLUTE STANDAR
8330 Mix B
Lot #: 051208 - 21997
Rec: 5/15/08 MFR exp. 05/12/11

The ampule to the left was cracked open 5-15-08 and 1.0mL was used to make the stock above. The remaining contents of the vial were transferred to an amber vial and stored in PHOENIX freezer. 5/15/08

PETN_05|15_SS							
79250-Pentaerythritol/Tetranitrate	1000µg/mL	Absolute 5/15/08	1.0mL	8.0mL	125µg/mL	50:50 ACN:MeOH CW275:CW326	5/15/08

Part #: 79250 Laboratory Use Only-See MSDS
Lot #: 120108 Exp: 120111 1 mL
EPA Method 8330 Analyte
Pentaerythritol te
1000 ug/mL
ABSOLUTE STANDA
PETN
Lot #: 120108 - 22000
Rec: 5/15/08 MFR exp. 12/01/11

The ampule to the left was cracked open 5-15-08 and 1.0mL was used to make the stock above. 5-15-08

8330_05|15_SS_A							
8330_05|15_SS_MixA	25ppm	5/15/08	100µL	1.0mL	2.5µg/mL	50:25:25 DI H2O:ACN CW275:MeOH CW326	5/15/08

8330_05|15_SS_B_PETN							
8330_05|15_SS_MixB	25ppm	5/15/08	100µL	1.0mL	2.5µg/mL	50:25:25 DI H2O:MeOH CW326:ACN CW275	5/15/08
PETN_05|15_SS	125ppm	⊥	⊥	⊥	12.5µg/mL	⊥	⊥

LC/MS STANDARD PREP LOG# 90 PAGE# 26

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	
PETN_06/27_STK							
M-8330-ADD-2-10X PETN	1000 µg/mL	Accu Standard 6/27/08	1.0 mL	10.0 mL	100 µg/mL	50:50 ACN:MeOH CW225:CW045	6/27/08 EXP 12/27/08

The ampule below was used to make the PETN_06/27_STK shown above. The remaining ~200 µL was transferred to an amber injection vial and stored in PHOENIX freezer. 6/27/08

AccuStandard
M-8330-ADD-2-10X
PETN
1.0 mg/mL in MeOH
Lot: B7100196
Exp. Oct 19, 2009
PETN
Lot #: B7100196 - 22234
Rec: 6/23/08 MFR exp. 10/19/09
FLAMMABLE
FOR LABORATORY USE ONLY
Open 6/27/08
Exp 6/27/09
STORAGE Freezer (0-5° C)

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	
8330_06/27_MixA_CALINT1							
8330_06/27_MixA_STK	100 µg/mL	6/27/08	~~100 µL~~ 200 µL	~~1.0 mL~~ 2.0 mL	100 µg/mL	50:50 ACN:MeOH CW225:CW045	6/27/08 exp 8/27/08
8330_06/27_MixA_CALINT2							
8330_06/27_MixA_CALINT1	10.0 µg/mL	6/27/08	100 µL	1.0 mL	1.0 µg/mL	50:50 ACN:MeOH CW225:CW045	6/27/08 exp 8/27/08
8330_06/27_MixB_CALINT1							
8330_06/27_MixB_STK	100 µg/mL	6/27/08	~~100 µL~~ 200 µL	~~1.0 mL~~ 2.0 mL	10.0 µg/mL	50:50 ACN:MeOH CW225:CW045	6/27/08 exp 8/27/08
8330_06/27_MixB_CALINT2							
8330_06/27_MixB_CALINT1	10.0 µg/mL	6/27/08	100 µL	1.0 mL	1.0 µg/mL	50:50 ACN:MeOH CW225:CW045	6/27/08 exp 8/27/08

8330_06/27_MixA_PETN_CAL_

1	8330_06/27_MixA_CALINT2	1.0 ppm	6/27/08	20.0 µL	1.0 mL	0.02 ppm	25:25:50 ACN:MeOH:DI CW225:CW045:H_2O 6/27/08
2	PETN_06/27_CALINT	2.5 ppm	6/27/08	40.0 µL		0.1 ppm	
3 2	8330_06/27_MixA_CALINT2	1.0 ppm		25.0 µL		0.025 ppm	
4	PETN_06/27_CALINT	2.5 ppm		50 µL		0.125 ppm	
3	8330_06/27_MixA_CALINT2	1.0 ppm		100 µL		0.1 ppm	
	PETN_06/27_CALINT	2.5 ppm		200 µL		0.5 ppm	
4	8330_06/27_MixA_CALINT1	10 ppm		100 µL		1.0 ppm	
	PETN_06/27_STK	100 ppm		50 µL		5.0 ppm	
5	8330_06/27_MixA_CALINT1	10 ppm		250 µL		2.5 ppm	
	PETN_06/27_STK	100 ppm		125 µL		12.5 ppm	

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
~~8330_Mi~~ 8330_06/27_MixA_CAL_6						25 : 25 : 50 ACN : MeOH : DI CW275 : CW015 : H_2O	6/27/08
8330_06/27_MixA_CALINT1	100 µg/mL	6/27/08	500 µL	1.0 mL	5.0 µg/mL		
PETN_06/27_CAL_6						25 : 25 : 50 ACN : MeOH : DI CW275 : CW015 : H_2O	6/27/08
PETN_06/27_STK	100 µg/mL	6/27/08	250 µL	1.0 mL	25 µg/mL		
PETN_06/27_CALINT						50 : 50 ACN : MeOH CW275 : CW015	6/27/08 exp 8/27/08
PETN_06/27_STK	100 µg/mL	6/27/08	~~20 µL~~ 50.0 µL	2.0 mL	2.5 µg/mL		
8330_06/27_MixB_CAL_						25 : 25 : 50 ACN : MeOH : DI CW275 : CW015 : H_2O	6/27/08
1 8330_06/27_MixB_CALINT2	1.0 ppm	6/27/08	20 µL	1.0 mL	0.02 ppm		
2			25 µL		0.025 ppm		
3			100 µL		0.1 ppm		
4 8330_06/27_MixB_CALINT1	10.0 ppm		100 µL		1.0 ppm		
5			250 µL		2.5 ppm		
6			500 µL		5.0 ppm		
8330_05/15_SS_A						25 : 25 : 50 ACN : MeOH : DI CW275 : CW015 : H_2O	6/27/08
8330_05/15_SS_A_STK	25 ppm	5/15/08	~~2~~ 100 µL	1.0 mL	2.5 ppm		
8330_05/15_SS_B_PETN						25 : 25 : 50 ACN : MeOH : DI CW275 : CW015 : H_2O	6/27/08
8330_05/15_SS_B_STK	25 ppm	5/15/08	100 µL	1.2 mL	2.5 ppm		
PETN_05/15_SS	125 ppm	↓	↓	↓	12.5 ppm		

549_LVL6 4.0 µg/mL 06-27-08 (PREP) / (06-23-08-EXT): JK
549_CAL_STK 10 µg/mL 06-23-08 TOOK 0.400 ML 06-27-
AND ADDED TO 0.600 ML 549_MOBILE_PHASE
PREP 06-05-08 EXP 06-05-09
EXPIRES 12-27-08 JK

549_LVL5 1.5 µg/mL EXT 06-23-08 PREP 06-27-08
EXP 12-27-08:
549_CAL_STK 10 µg/mL 06-23-08 TOOK 0.150 ML
AND ADDED TO 0.850 ML 549_MOBILE_PHASE
PREP 06-05-08 EXP 06-05-09

LCMS STANDARD PREP LOG# 40 PAGE# 20

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	
549 Calibration Curve							
549 Level 1	1.0 ug/ml	Level 4 6/27/08	20uL	1.0 mL	0.02 ug/mL	549 mobile phase (6/18/08)	6/27/2008 sd
549 Level 2	10.0 ug/ml	549 Cal Stk 080626A	10uL	1.0 mL	010 ug/mL		
549 Level 3	10.0 ug/ml	550 Cal Stk 080626A	50uL	1.0 mL	0.50 ug/mL		
549 Level 4	10.0 ug/ml	551 Cal Stk 080626A	100uL	1.0 mL	1.0 ug/mL		
549 Level 5	10.0 ug/ml	552 Cal Stk 080626A	150uL	1.0 mL	1.5 ug/mL		
549 Second Source							
549 Level 3	10.0 ug/mL	549 SS Stk 080626A	50uL	1.0 mL	0.50 ug/mL	549 mobile phase (6/18/08)	6/27/2008 sd

549 Mobile Phase 2 x 4L Jug 6/27/08 DC

4.0L DI WATER
54mL Phosphoric Acid (Lot # E11A03)
40.8mL Diethyl Amine (Lot # E06572)
12.0g Sodium Hexanesulfonate (Lot # 134345)-231072S

8330_06/27_MixA_STK

S-16714-R3-1 1000µg/mL Accustandard 6/27/08 1.0mL 10.0mL 100µg/mL 50:50 ACN CHCl3 : MeOH CHCl3 RTB 6/27/08 Exp 12/27/08
Custom Explosives Standard 1

The ampule below was used to make the 8330_06/27_MixA_STK shown above. The remaining contents (~200µL) were transferred to an amber injection vial and stored in PHOENIX freezer. RTB 6/27/08

AccuStandard
S-16714-R3-1
Custom Explosives Standard 1
1000 µg/mL in Acetonitrile:Meth
Lot: B8060195
Exp: Jun 19, 2009
Custom Explosives Standard 1
Lot #: B8060195 - 22209
Rec: 6/20/08 MFR exp. 06/19/09
8 compa.
FLAMMABLE
LABORATORY USE ONLY
Open 6/27/08
Exp 6/19/09
STORAGE Freeze (-10° C)

8330_06/27_MixB_STK

S-16714-R3-2 1000µg/mL Accustandard 6/27/08 1.0mL 10.0mL 100µg/mL 50:50 ACN CHCl3 : MeOH CHCl3 RTB 6/27/08 Exp 12/27/08
Custom Explosives Standard 2

The ampule below was used to make the 8330_06/27_MixB_STK above. The remaining ~200µL was transferred to an amber injection vial and stored in PHOENIX freezer. RTB 6/27/08

AccuStandard
S-16714-R3-2
Custom Explosives Standard 2
1000 µg/mL in Acetonitrile:Meth
Lot: B8060192
Exp: Jun 17, 2009
Custom Explosives Standard 2
Lot #: B8060192 - 22214
Rec: 6/20/08 MFR exp. 06/17/09
8 compa.
FLAMMABLE
LABORATORY USE ONLY
Open 6/27/08
Exp 6/17/09
STORAGE Freeze (-10° C)

LC/MS STANDARD PREP LOG# 70 PAGE 6-1

	STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
	PETN-06/27_CAL-					25 : 25 : 50 ACN : MeOH : DI CHCl3 : CHCl3 : H2O		
1	PETN-06/27 CAL-TMT	25 ppm	6/28/08	40.0 µL	1.0 mL	0.1 ppm		6/29/08
2				50.0 µL		0.125 ppm		
3				200 µL		0.5 ppm		
4	PETN-06/27_STK	100 ppm	6/29/08	50.0 µL		5.0 ppm		
5				125 µL		12.5 ppm		
6				250 µL		25 ppm		

	PETN_05/15_SS_LEVEL5					25 : 25 : 50 ACN : MeOH : DI CHCl3 : CHCl3 : H2O		
PETN_05/15_SS	125 ppm	5/15/08		100 µL	1.0 mL	12.5 ppm		6/29/08

REAGENT DEFINITIONS 34

IN THE FOLLOWING DOCUMENTATION REFERENCE 06-30-08 WILL BE MADE TO 549_MOBILE_PHASE. THE PREP DATE IS 06-05-08 THE EXPIRATION DATE IS 06-05-09.

549_LVL6 4.0 µg/ml 06-30-08 EXTRACTION
080624A EXPIRATION 12-30-08:
549_CAL_STK 10 µg/ml 080624A TOOK 0.400 ML AND ADDED TO 0.600 ML 549_MOBILE PHASE

549_LVL5 1.5 µg/ml 06-30-08 EXTRACTION
080624A EXPIRATION 12-30-08:
549_CAL_STK 10 µg/ml 080624A TOOK 0.150 ML AND ADDED TO 0.850 ML 549_MOBILE_PHASE

549_LVL4 1.0 µg/ml 06-30-08 EXTRACTION
080624A EXPIRATION 12-30-08:
549_CAL_STK 10 µg/ml 080624A TOOK 0.100 ML AND ADDED TO 0.900 ML 549_MOBILE_PHASE

LC/MS STANDARD PREP LOG# 90 PAGE# 55

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
PETN_07/17_STK							*Prepped 7/17/08, documented 7/18/08.
M-8330-ADD-2-10X PETN	1000 ppm	Accustandard 7/17/08	1.0 mL	10.0 mL	100 ppm	50:50 ACN:MeOH CW275 CW340	7/17/08

Opened the ampule below and added 1.0 mL to 5.0 mL ACN B&J lot # CW275 and 4.0 mL B&J lot # CW340 for a final volume of 10.0 mL and a concentration of 100 ppm. 7/18/08.

AccuStandard
M-8330-ADD-2-10X
PETN
1.0 mg/mL in MeOH
Lot: B7100196
Exp. Oct 19, 2009
PETN
Lot #: B7100196 - 22235
Rec: 6/23/08 MFR exp. 10/19/09
mL
FOR LABORATORY USE ONLY
STORAGE Refrig (0-5° C)
FLAMMABLE

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
8330_06/27_MixB_CAL_							
1 8330_06/27_MixB_CALINT2	1.0 ppm	7/13/08	10.0 µL	1.0 mL	0.01 ppm	25:25:50 ACN:MeOH:DI CW275 CW340 H_2O	7/18/08
2			25.0 µL		0.025 ppm		
3			50.0 µL		0.05 ppm		
8330_05/15_SS_B							
8330_05/15_SS_B_STK	25 ppm	5/15/08	100 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW275:CW340:H_2O	7/18/08
8330_06/27_MixA_07/17_PETN_CCV_							*Prepped 7/19/08, documented 7/21/08
1 8330_06/27_MixA_STK	100 ppm	6/27/08	25.0 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW275 CW340 H_2O	7/21/08
PETN_07/17_STK	100 ppm	7/17/08	125.0 µL		12.5 ppm		
2 8330_06/27_MixA_STK		6/27/08	25.0 µL		2.5 ppm		
PETN_07/17_STK		7/17/08	125 µL		12.5 ppm		
8330_06/27_MixB_CCV_							*Prepped 7/19/08, documented 7/21/08
8 8330_06/27_MixB_STK	100 ppm	6/27/08	25.0 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW275:CW340:H_2O	7/21/08
9							
8330_06/27_MixA_PETN_MRLCHK_							*Prepped 7/19/08, documented 7/21/08
2 8330_06/27_MixA_CALINT2	1.0 ppm	7/13/08	25.0 µL	1.0 mL	0.025 ppm	25:25:50 ACN:MeOH:DI CW275:CW340:H_2O	7/21/08
PETN_06/27_CALINT	2.5 ppm	6/27/08	50.0 µL		0.125 ppm		
3 8330_06/27_MixA_CALINT2	1.0 ppm	7/13/08	25.0 µL		0.025 ppm		
PETN_06/27_CALINT	2.5 ppm	6/27/08	50.0 µL		0.125 ppm		
8330_06/27_MixB_MRLCHK_							*Prepped 7/19/08, documented 7/21/08
3 8330_06/27_MixB_CALINT2	1.0 ppm	7/13/08	25.0 µL	1.0 mL	~~25:25~~ 25:25:50	ACN:MeOH:DI CW275:CW340:H_2O	7/21/08
4					0.025 ppm		

LC/MS STANDARD PREP LOG# 90 PAGE# 56

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
3,5-DNA_07/21_STK							
M-8330-ADD-4 - 3,5-Dinitroaniline	100 ppm	Accustandard 7/21/08	1.0 mL	4.0 mL	250 ppm	50:50 ACN CW275 : MeOH CW340	7/21/08 exp 1/21/08

The ampule below was cracked open and 1.0 mL was used to make the stock documented above. The remainder was transferred to an amber vial and stored in PHOENIX freezer. 7/21/08

AccuStand
M-8330-ADD-4
3,5-Dinitroaniline
0.1 mg/mL in AcCN:MeOH
Lot: B8060229
Exp. Jun 19, 2011
3,5-Dinitroaniline
Lot #: B8060229 - 22236
Rec: 6/23/08 MFR exp. 06/19/11
FOR LABORATORY USE ONLY
STORAGE Ambient
POISON

3,5-DNA_CAL_ 7/21/08

1	3,5-DNA_07/21_STK	25 ppm						
2								
3								
4	M-8330-ADD-4	100 ppm						
5								
6								

3,5-DNA_CAL_

1	3,5-DNA_07/21_CALINT	1.0 ppm	7/21/08	10.0 µL	1.0 mL	0.01 ppm	25 : 25 : 50	7/21/08
2				25.0 µL		0.025 ppm	ACN : MeOH : DI	
3				50.0 µL		0.05 ppm	CW275 : CW340 : H_2O	
4	M-8330-ADD-4	100 ppm		10.0 µL		1.0 ppm		
5				25.0 µL		2.5 ppm		
6				50.0 µL		5.0 ppm		

3,5-DNA_07/21_CALINT

3,5-DNA_07/21/STK	25 ppm	7/21/08	40.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN CW275 : MeOH CW340	7/21/08

8330_WATER_SURROGATE

8330_SOIL_SURROGATE	100 ppm	5/21/08	500 µL	10.0 mL	5.0 ppm	ACN CW275	7/21/08

8330_06/27_Mix_A_07/17_PETN_CCV_3

8330_06/27_Mix_A_STK	100 ppm	6/27/08	25.0 µL	1.0 mL	2.5 ppm	25 : 25 : 50	
PETN_07/17_STK		7/17/08	125.0 µL		12.5 ppm	ACN : MeOH : DI CW275 : CW340 : H_2O	7/21/08

LC/MS STANDARD PREP LOG# 90 PAGE# 63

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
8330_SOIL_SURROGATE							
1,2-Dinitrobenzene	1000 ppm	7/30/08 0951	1.0mL	10.0mL	100 ppm	ACN CW275	7/31/08

The ampule below was cracked open 7/30/08 and 1.0mL was added to 9.0mL ACN, for a total volume of 10.0mL

o2si smart solutions
Phone: (843) Fax: (843) 7
1,2-Dinitrobenzene Solution, 1,000 mg/L, 1 ml
Cat. No: 010086-01
Lot No: 118480
Exp: 6/27/2009
Storage: <10 Degrees C
nt: Acetonitrile
For Research Use Only
1,2-Dinitrobenzene
Lot #: 118480 - 21886
Rec: 4/29/08 MFR exp. 06/27/09

NOTE: THE FOLLOWING DOCUMENTATION WAS PERFORMED AS DATED / JF 07-31-08 — JF 07-31-08

DI-H2O-/0.2% HAC 07-30-08 EXP 01-30-09 — JF 07-30-08
TO 1.00 LITER OF LABORATORY SOURCE DI-H2O 4203 W. Swift Ave THAT WAS PREVIOUSLY FILTERED THROUGH A 0.2 MICRON NYLON FILTER 2.00 ML OF MALLINCKRODT GLACIAL ACETIC ACID LOT 4460 05

PERCHLORATE 0.0004 µg/ml 07-30-08 : EX013009
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK 0.040 ML AND ADDED TO 0.960 ML PER-JS @ 0.0004 µg/ml 07-17-08

Scales Weight Comparison: 07-31-08
Balance ID : Mettler AT200 #J-28448
Time : 10:30

Weight	Balance Reading
20g	19.9990
100mg	0.1000
10mg	0.0100
1mg	0.0010

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STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
~~8330_MixB_CCV-11~~		8/12/08					
8330_06/27_MixB_CCV-11							
8330_06/27_MixB_STK	100 ppm	6/27/08	25.0 µL	1.0 mL	2.5 ppm	25 : 25 : 50 ACN : MeOH : DI CW275 : CW340 : H_2O	8/12/08
8330_06/27_MixA_07/17_PETN_CCV_17							
8330_06/27_MixA_STK	100 ppm	6/27/08	25.0 µL	1.0 mL	2.5 ppm	25 : 25 : 50 ACN : MeOH : DI CW275 : CW340 : H_2O	8/12/08
PETN_07/17_STK	1	7/17/08	125 µL	1	12.5 ppm		

Dilution documentation

080725A-BLKS	33.3DF	7-25-08	0.10	1.0	333DF	HPLCJS	7-26-08	8-12-08	
080725A-BLKS	33.3DF	7-25-08	0.050	0.25	167	HPLCJS	7-26-08	8-12-08	
A080721	33.3	7-25-08	0.10	1.0	333	HPLCJS	7-26-08	8-12-08	
8-12-08 A080721	33.3	7-25-08	0.05	0.25	167	HPLCJS	7-26-08	8-12-08	

8330_08/13_MixA_STK Exp 2-13-08

S-16714-R3-1 Custom Explosives Standard 1	1000 ppm	8/13/08 ACCUSTANDARD	1.0 mL	10.0 mL	100 ppm	50 : 50 ACN : MeOH CW275 : CW340	8/13/08

8330_08/13_MixB_STK Exp 2-13-08

S-16714-R3-2 Custom Explosives Standard 2	1000 ppm	8/13/08 Accustandard	1.0 mL	10.0 mL	100 ppm	50 : 50 ACN : MeOH CW275 : CW340	8/13/08

AccuStandard
S-16714-R3-1
Custom Explosives Standard 1
1000 µg/mL in Acetonitrile:Methanol 1:1
Lot: B8060195
Exp: Jun 19, 2009
Custom Explosives Standard 1
Lot #: B8060195 - 22210
Rec: 6/20/08 MFR exp. 06/19/09
LABORATORY USE ONLY
8 comps.
FLAMMABLE
STORAGE Freeze (<-10° C)
[redacted]

AccuStandard
S-16714-R3-2
Custom Explosives Standard 2
1000 µg/mL in Acetonitrile:Methanol 1:1
Lot: B8060192
Exp: Jun 17, 2009
Custom Explosives Standard 2
Lot #: B8060192 - 22215
Rec: 6/20/08 MFR exp. 06/17/09
LABORATORY USE ONLY
8 comps.
FLAMMABLE
STORAGE Freeze (<-10° C)
[redacted]

8330_08/13_MixA_CALINT

8330_08/13_MixA_STK	100 ppm	8/13/08	10.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN : MeOH CW275 : CW340	8/13/08

8330_08/13_MixB_CALINT

8330_08/13_MixB_STK	100 ppm	8/13/08	10.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN : MeOH CW275 : CW340	8/13/08

LC/MS STANDARD PREP LOG# 90 PAGE# 89

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
PETN 1000 µg/mL Absolute Lot #~~120106-21999~~, I broke open the vial and transferred to a 1.8 mL amber injection vial → PETN 1000 µg/mL Exp 08/09 prep 08-19-08 Did not open 8-19-08							
8330_05/15_SS_B							
8330_05/15_SS_B_STK	25 ppm	5/15/08	100 µL	1.0 mL	2.5 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/20/08
8330_08/13_MixA_PETN_CCV-2							
8330_08/13_MixA_STK	100 ppm	8/13/08	25.0 µL	1.0 mL	2.5 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/20/08
PETN_08/13_STK	⊥	⊥	⊥	⊥	⊥		
8330_08/13_MixB_07/30_3,5-DNA_CCV-2							
8330_08/13_MixB_STK	100 ppm	8/13/08	25.0 µL	1.0 mL	2.5 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/20/08
3,5-DNA_07/30_STK	25 ppm	7/30/08	100 µL	⊥	⊥		
8330_08/20_MixB_SS_STK							
8330 MixB	100 µg/mL	Absolute 8/20/08	1.0 mL	4.0 µL	25 µg/mL	50 : 50 ACN : MeOH CW426 : CW630	8/20/08
8330_08/20_MixB_SS_AMP							
8330 MixB	100 µg/mL	Absolute 8/20/08	25.0 µL	1.0 mL	2.5 µg/mL	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/20/08
8330_08/20_MixB_SS							
8330_08/20_MixB_SS_STK	25 µg/mL	8/20/08	100 µL ~~2.5~~ 1.0 mL 8/20/08		2.5 µg/mL	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/20/08

Part #: 95094	Laboratory Use Only-See MSDS
Lot #: 051208	Exp: 051211 1 mL
8330 Mix B	8330 Mix B
8 components	Lot #: 051208 - 21993
100 ug/mL in	Rec: 5/15/08 MFR exp. 05/12/11
ABSOLUTE STANDAI	

The ampule to the left was cracked open and used to make the 8330_08/20_MixB_SS_STK and the 8330_08/20_MixB_SS_AMP documented above. The remaining contents of the ampule were transferred to an amber injection vial and stored in PHOENIX freezer. 8/20/08

LC/MS STANDARD PREP LOG# 90 PAGE# 100

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
MX-632 6.4 ug/ml							
MX-632	20	07-09-08	1.60	5.0	6.4	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	0.050	⊥	1.0	⊥	⊥
MX-632 3.2 ug/ml							
MX-632	20	7-9-08	0.80	5.0	3.2	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	0.050	⊥	1.0	⊥	⊥
MX-632 1.6 ug/ml							
MX-632	20	7-9-08	0.80	10.0	1.6	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	0.10	⊥	1.0	⊥	⊥
MX-632 0.8 ug/ml							
MX-632	20	7-9-08	0.20	5.0	0.8	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	0.050	⊥	1.0	⊥	⊥
MX-632 0.4 ug/ml							
MX-632	20	7-9-08	0.200	10.0	0.4	MeOH/CW426	08-22-08
HPLCFS	100	8-5-08	0.10	⊥	1.0	⊥	⊥
MX-632 0.2 ug/ml							
MX-632	20	7-9-08	0.10	10.0	0.20	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	0.10	⊥	1.0	⊥	⊥
MX-632 0.10 ug/ml							
MX-632	20	7-9-08	0.050	10.0	0.10	MeOH/CW426	8-22-08
HPLCFS	100	8-5-08	~~⊥~~ 0.10	⊥	1.0	⊥	⊥

8330 08/13_MixA_PETN_CCV_4

8330_08/13_MixA_STK	100ppm	8/13/08	25.0µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI		
PETN-08/13_STK	⊥	⊥	125µL	⊥	12.5ppm	CW426 : CW630 : H_2O		8/22/08

8330_08/13_MixB_07/30_3,5-DNA_CCV_4

8330_08/13_MixB_STK	100ppm	8/13/08	25.0µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI		
3,5-DNA_07/30_STK	25ppm	7/30/08	100µL	⊥	⊥	CW426 : CW630 : H_2O		8/22/08

LC/MS STANDARD PREP LOG# 90 PAGE# 101

	STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE INITIALS
	8330_08|13_MixA_CALINT							
	8330_08|13_MixA_STK	100 ppm	8/13/08	10.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN : MeOH CW426 : CW630	8/22/08
	8330_08|13_MixA_CAL_							
1	8330_08|13_MixA_CALINT	1.0 ppm	8/22/08	10.0 µL	1.0 mL	0.010 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H2O	8/22/08
2	⊥	⊥	⊥	25.0 µL	⊥	0.025 ppm	⊥	⊥
3	⊥	⊥	⊥	50.0 µL	⊥	0.050 ppm	⊥	⊥
4	8330_08|13_MixA_STK	100 ppm	8/13/08	10.0 µL	⊥	1.0 ppm	⊥	⊥
5	⊥	⊥	⊥	25.0 µL	⊥	2.5 ppm	⊥	⊥
6	⊥	⊥	⊥	50.0 µL	⊥	5.0 ppm	⊥	⊥
	8330_08|13_MixA_MRLCHK_2							
	8330_08|13_MixA_CALINT	1.0 ppm	8/22/08	25.0 µL	1.0 mL	0.025 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H2O	8/22/08
	8330_08|13_MixB_MRLCHK_4							
	8330_08|13_MixB_CALINT	1.0 ppm	8/13/08	25.0 µL	1.0 mL	0.025 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H2O	8/22/08
	8330_08|13_MixA_PETN_CALINT							
	8330_08|13_MixA_STK	100 ppm	8/13/08	10.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN : MeOH CW426 : CW630	8/23/08
	PETN_08|13_STK	⊥	⊥	50.0 µL	⊥	5.0 ppm		
	8330_08|13_MixB_07|30_3,5-DNA_CALINT							
	8330_08|13_MixB_STK	100 ppm	8/13/08	10.0 µL	1.0 mL	1.0 ppm	50 : 50 ACN : MeOH CW426 : CW630	8/23/08
	3,5-DNA_07|30_STK	25 ppm	7/30/08	40.0 µL	⊥	⊥		
	8330_08|13_MixA_PETN_CAL_							
1	8330_08|13_MixA_PETN_CALINT	1.0 ppm / 5.0 ppm	8/23/08	10.0 µL	1.0 mL	0.010 / 0.050 ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H2O	8/23/08
2	⊥	⊥	⊥	25.0 µL	⊥	0.025 ppm / 0.125 ppm	⊥	⊥
3	⊥	⊥	⊥	50.0 µL	⊥	0.050 / 0.25 ppm	⊥	⊥
4	8330_08|13_MixA_STK	100 ppm	8/13/08	10.0 µL	⊥	1.0 ppm	⊥	⊥
	PETN_08|13_MixA_STK			⊥	⊥			
5	8330_08|13_MixA_STK	⊥	⊥	25.0 µL	⊥	2.5 ppm	⊥	⊥
	PETN_08|13_STK			⊥	⊥			
6	8330_08|13_MixA_STK	⊥	⊥	50.0 µL	⊥	5.0 ppm	⊥	⊥
	PETN_08|13_STK			⊥	⊥			

LC/MS STANDARD PREP LOG# 90 PAGE# 102

	STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
	8330_08/13_MixB_07/30_3,5-DNA_CAL							
1	8330_08/13_MixB_07/30_3,5-DNA_CAL STK	1.0 ppm	8/23/08	10.0 µL	1.0 mL	0.010 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O	8/23/08
2				25.0 µL		0.025 ppm		
3				50.0 µL		0.050 ppm		
4	8330_08/13_MixB_CAL_STK	100 ppm	8/13/08	10.0 µL		1.0 ppm		
	3,5-DNA_07/30_STK	25 ppm	7/30/08	40.0 µL				
5	8330_08/13_MixB_STK	100 ppm	8/13/08	25.0 µL		2.5 ppm		
	3,5-DNA_07/30_STK	25 ppm	7/30/08	100 µL				
6	8330_08/13_MixB_STK	100 ppm	8/13/08	50.0 µL		5.0 ppm		
	3,5-DNA_07/30_STK	25 ppm	7/30/08	200 µL				

8330_08/24_MixA_SS_STK (compare to Accustandard MixB MixA analytes)

8330 MixB 100ppm Absolute 8/24/08 Transferred to amber injection vial labeled as shown above - 8/24/08

Part #: 95094 Laboratory Use Only-See MSDS
Lot #: 051208 Exp: 051211 1 mL
8330 Mix B
8 components
100 ug/mL In
ABSOLUTE STANDAR
8330 Mix B
Lot #: 051208 - 21996
Rec: 5/15/08 MFR exp. 05/12/11

8330_08/24_MixB_SS

8330_MixB	100 ppm	Absolute 8/24/08	25.0 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O		8/24/08

8330_08/20_MixB_05/15_PETN_SS

8330_08/20_MixB_SS_STK	25 ppm	8/20/08	100 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O	8/24/08
PETN_05/15_SS	125 ppm	5/15/08	20.0 µL				

8330_05/15_MixA_SS

8330_05/15_MixA_SS_STK	25 ppm	5/15/08	100 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O	8/24/08

8330_08/13_MixA_PETN_CCV_5

8330_08/13_MixA_STK	100 ppm	08/13/08	25.0 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O	8/25/08
PETN_08/13_STK			125 µL		12.5 ppm		

8330_08/13_MixB_07/30_3,5-DNA_CCV_5

8330_08/13_MixB_STK	100 ppm	8/13/08	25.0 µL	1.0 mL	2.5 ppm	25:25:50 ACN:MeOH:DI CW426:CW630:H2O	8/25/08
3,5-DNA_07/30_STK	25 ppm	7/30/08	100 µL				

LC/MS STANDARD PREP LOG# 90 PAGE# 110

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

NOTE: THE FOLLOWING DOCUMENTATION WAS PERFORMED AS DATED: 08-26-08

PER_SS_1 0.0004 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK 0.040 ML AND ADDED TO 0.960 ML
PER_IS 0.005 µg/ml 08-25-08

PER_SS_1 0.002 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK 0.200 ML AND ADDED TO 0.800 ML
PER_IS 0.005 µg/ml 08-25-08

PER_SS_2 0.0004 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK 0.040 ML AND ADDED TO 0.960 ML
PER_IS 0.005 µg/ml 08-25-08:

PER_SS_2 0.002 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK 0.200 ML AND ADDED TO 0.800 ML
PER_IS 0.005 µg/ml 08-25-08

8330_08/13_MixA_PETN-MRLCHK_12 8/26/08

8330_08/13_MixA_PETN_CALINT 10/5.0ppm 8/23/08 25.0µL 1.0mL 0.025ppm/0.125ppm 25:25:50 ACN:MeOH:DI CW426:CW630:H2O 8/26/08

8330_08/13_MixB_07/30_3,5-DNA-MRLCHK_12 8/26/08

8330_08/13_MixB_07/30_3,5-DNA_CALINT 1.0ppm 8/23/08 25.0µL 1.0mL 0.025ppm 25:25:50 ACN:MeOH:DI CW426:CW630:H2O 8/26/08

8330_08/13_MixA_PETN-CCV

6 8330_08/13_MixA_STK 100ppm 8/13/08 25.0µL 1.0mL 2.5ppm 25:25:50 ACN:MeOH:DI
PETN_08/13_STK
7 8330_08/13_MixA_STK 25.0µL 2.5ppm CW426 CW630 H2O 8/26/08
PETN_08/13_STK 125µL 12.5ppm

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	STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
	8330_08/13_MixB_07/30_3,5-DNA-STK						CCV-7	8/26/08
	8330_08/13_MixB_STK	100ppm	8/13/08	25.0µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI CW421 : CW630 : H_2O	8/26/08
	3,5-DNA_07/30_STK	25ppm	7/30/08	100µL				
	8330_08/13_MixA_PETN_CAL						* Prepped 8/25/08, documented 8/26/08	
1	8330_08/13_MixA_PETN_CALINT	1.0% 5.0ppm	8/23/08	10.0µL	1.0mL	0.010/ 0.050ppm	25 : 25 : 50	8/26/08
2				25.0µL		0.025/ 0.125ppm	ACN : MeOH : DI	
3				50.0µL		0.050/ 0.25ppm	CW426 CW630 H_2O	
4	8330_08/13_MixA_STK	100ppm	8/13/08	10.0µL		1.0ppm		
	PETN_08/13_STK							
5	8330_08/13_MixA_STK			25.0µL		2.5ppm		
	PETN_08/13_STK							
6	8330_08/13_MixA_STK			50.0µL		5.0ppm		
	PETN_08/13_STK							
	8330_08/13_MixB_07/30_3,5-DNA_CAL						* Prepped 8/25/08, documented 8/26/08	
1	8330_08/13_MixB_07/30_3,5-DNA_CALINT	1.0ppm	8/23/08	10.0µL	1.0mL	0.010ppm	25 : 25 : 50	8/26/08
2				25.0µL		0.025ppm	ACN : MeOH : DI	
3				50.0µL		0.050ppm	CW426 CW630 H_2O	
4	8330_08/13_MixB_STK	100ppm	8/13/08	10.0µL		1.0ppm		
	3,5-DNA_07/30_STK	25ppm	7/30/08	40.0µL				
5	8330_08/13_MixB_STK	100ppm	8/13/08	25.0µL		2.5ppm		
	3,5-DNA_07/30_STK	25ppm	7/30/08	100µL				
6	8330_08/13_MixB_STK	100ppm	8/13/08	50.0µL		5.0ppm		
	3,5-DNA_07/30_STK	25ppm	7/30/08	200µL				
	8330_05/15_MixA_SS						* Prepped 8/25/08, documented 8/26/08	
	8330_05/15_MixA_SS_STK	25ppm	3/15/08	100µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/26/08
	8330_08/20_MixB_05/15_PETN_SS						* Prepped 8/25/08, documented 8/26/08	
	8330_08/20_MixB_SS_STK	25ppm	8/20/08	100µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/26/08
	PETN_05/15_SS	125ppm	5/15/08	20µL				
	8330_08/24_MixB_SS							
	~~8330_08/24~~ 8330_MixB	100ppm	Absolute 8/24/08	25.0µL	1.0mL	2.5ppm	25 : 25 : 50 ACN : MeOH : DI CW426 : CW630 : H_2O	8/26/08

_MWE3535

Organic Extraction Worksheet

Method	EPA Method 3535A	Extraction Set	080813A	Extraction Method	MWE3535	Units	mL

Spiked ID 1	8330_08/13_MixA_STK 100ppm 08/13/08		Surrogate ID 1	8330 W SURROGATE 5.0PPM 7/21/08	
Spiked ID 2	8330_08/13_MixB_STK 100ppm 08/13/08		Surrogate ID 2		
Spiked ID 3	PETN_07/17/_SPK 100ppm 07/17/08		Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. End Time:		
Spiked ID 8			GC Requires Extract By:	08/14/08 0:00	

pH1	2	8/13/08 15:30	W Bath Temp	°C
pH2				
pH3				

Spiked By: KY **Date** 8/13/2008 **Witnessed By:** SC **Date** 8/13/2008

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	080813A Blk				0.1	1	500	5	2	08/13/08 15:50	
2	080813A LCS-1		0.050/0.250	1/3	NA	NA	500	5	2	08/13/08 15:50	
3	080813A LCS-2		0.050	2	NA	NA	500	5	2	08/13/08 15:50	
4	AX82319	AX82319W01			0.1	1	500	5	2	08/13/08 15:50	56738 -- Amber Liter
5	AX82333	AX82333W03			0.1	1	500	5	2	08/13/08 15:50	56740 -- Amber Liter
6	AX82334	AX82334W02			0.1	1	500	5	2	08/13/08 15:50	56740 -- Amber Liter
7	AX82344 MS-1	AX82344W05	0.050/0.250	1/3	NA	NA	500	5	2	08/13/08 15:50	56740 -- Amber Liter
8	AX82344 MSD-1	AX82344W05	0.050/0.250	1/3	NA	NA	500	5	2	08/13/08 15:50	56740 -- Amber Liter
9	AX82344 MS-2	AX82344W06	0.050	2	NA	NA	500	5	2	08/13/08 15:50	56740 -- Amber Liter
10	AX82344 MSD-2	AX82344W06	0.050	2	NA	NA	500	5	2	08/13/08 15:50	56740 -- Amber Liter
11	AX82344	AX82344W03			0.1	1	500	5	2	08/13/08 15:50	56740 -- Amber Liter
12	AX82345	AX82345W03			0.1	1	500	5	2	08/13/08 15:50	56740 -- Amber Liter

KY 8/18/08

Solvent and Lot#
Acetonitrile CU916
Cartridge Lot
Varian 9525507
HCL 4105031

Extraction COC Transfer	
Extraction lab employee Initials	SC KY
GC analyst's initials	RJB
Date	8/14/08
Time	8:00
Refrigerator	PYRO

	Technician's Initials
Scanned By	SC KY
Sample Preparation	SC KY
Extraction	SC KY
Concentration	----------
Modified	8/13/2008 3:20:30 PM

Reviewed By: KY **Date** 8/18/08

_MSE018MI

Organic Extraction Worksheet

Method	Explos Soil Ext 8330B (Mult Incr Sampl)	Extraction Set	080814A	Extraction Method	MSE018MIS	Units	mL

Spiked ID 1	8330_08/13_MIXA_STK 100 PPM 8/13/08		Surrogate ID 1	8330_S Surrogate 100ppm 07/30/08	
Spiked ID 2	8330_08/13_MIXB_STK 100 PPM 8/13/08		Surrogate ID 2		
Spiked ID 3	PETN_07/17_STK 100 PPM 07/17/08		Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. End Time:	08/08/15 10:00	
Spiked ID 8			**GC Requires Extract By:**	**08/18/08 0:00**	

pH1			W Bath Temp	°C
pH2				
pH3				

Spiked By: RJB **Date** 8/14/2008 **Witnessed By:** SC **Date** 8/14/2008

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	080814A Blk				0.060	1	10.00 g	20mL	NA	08/08/14 16:00	
2	080814A LCS-1		0.075,0.375	1,3	NA	NA	10.01 g	20mL	NA	08/08/14 16:00	
3	080814A LCS-2		0.075	2	NA	NA	10.01 g	20mL	NA	08/08/14 16:00	
4	AX82321	AX82321S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
5	AX82322	AX82322S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
6	AX82323	AX82323S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
7	AX82324	AX82324S01			0.060	1	10.03 g	20mL	NA	08/08/14 16:00	56740 -- Other
8	AX82325 MS-1	AX82325S01	0.075,0.375	1/3	NA	NA	10.01 g	20mL	NA	08/08/14 16:00	56740 -- Other
9	AX82325 MSD-1	AX82325S01	0.075,0.375	1/3	NA	NA	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
10	AX82325 MS-2	AX82325S01	0.075	2	NA	NA	10.03 g	20mL	NA	08/08/14 16:00	56740 -- Other
11	AX82325 MSD-2	AX82325S01	0.075	2	NA	NA	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
12	AX82325	AX82325S01			0.060	1	10.02 g	20mL	NA	08/08/14 16:00	56740 -- Other
13	AX82326	AX82326S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
14	AX82327	AX82327S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
15	AX82328	AX82328S01			0.060	1	10.00 g	20mL	NA	08/08/14 16:00	56740 -- Other
16	AX82329	AX82329S01			0.060	1	10.03 g	20mL	NA	08/08/14 16:00	56740 -- Other
17	AX82330	AX82330S01			0.060	1	10.01 g	20mL	NA	08/08/14 16:00	56740 -- Other
18	AX82331	AX82331S01			0.060	1	10.01 g	20mL	NA	08/08/14 16:00	56740 -- Other
19	AX82332	AX82332S01			0.060	1	10.01 g	20mL	NA	08/08/14 16:00	56740 -- Other

15 08/18/08

Solvent and Lot#
Acetonitrile CV681

Extraction COC Transfer	
Extraction lab employee Initials	SC
GC analyst's initials	RJB
Date	08/15/08
Time	10:30
Refrigerator	PYRO

	Technician's Initials
Scanned By	SC
Sample Preparation	SC
Extraction	SC
Concentration	----------
Modified	8/18/2008 3:27:45 PM

Reviewed By: 15 **Date** 08/18/08

/18/2008 3:27:51 PM

Ext_ID 18533

Injection Log

E2 Column

Directory: F:\UV1200\HPCHEM\1\DATA\080627\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
5	98	0627_005.D	1	**8330_06/27_MIXB_CAL_1 0.02 PPM 6/27/08**		28-Jun-08, 01:25
6	99	0627_006.D	1	**8330_06/27_MIXB_CAL_2 0.025 PPM 6/27/08**		28-Jun-08, 02:06
7	100	0627_007.D	1	**8330_06/27_MIXB_CAL_3 0.1 PPM 6/27/08**		28-Jun-08, 02:47
8	81	0627_008.D	1	**8330_06/27_MIXB_CAL_4 1.0 PPM 6/27/08**		28-Jun-08, 03:29
9	82	0627_009.D	1	**8330_06/27_MIXB_CAL_5 2.5 PPM 6/27/08**		28-Jun-08, 04:10
10	83	0627_010.D	1	**8330_06/27_MIXB_CAL_6 5.0 PPM 6/27/08**		28-Jun-08, 04:51
11	91	0627_011.D	1	**8330_06/27_MIXA_PETN_CAL_1**	**0.02/1.0 PPM 6/27/08**	28-Jun-08, 05:32
12	92	0627_012.D	1	**8330_06/27_MIXA_PETN_CAL_2**	**0.025/0.125 ppm**	28-Jun-08, 06:29
13	93	0627_013.D	1	**8330_06/27_MIXA_PETN_CAL_3**	**0.1/0.5 ppm**	28-Jun-08, 07:25
14	94	0627_014.D	1	**8330_06/27_MIXA_PETN_CAL_4**	**1.0/5.0 ppm**	28-Jun-08, 08:21
15	95	0627_015.D	1	**8330_06/27_MIXA_PETN_CAL_5**	**2.5/12.5 ppm**	28-Jun-08, 09:17
16	96	0627_016.D	1	**8330_06/27_MIXA_CAL_6 5.0 ppm 6/27/08**		28-Jun-08, 10:14
18	84	0627_018.D	1	**8330_05/15_SS_B_PETN**	**2.5/12.5 ppm 6/27/08**	28-Jun-08, 11:51
19	85	0627_019.D	1	**8330_05/15_SS_A 2.5 ppm 6/27/08**		28-Jun-08, 12:47
40	86	0629_003.D	1	**PETN_06/27_CAL_1 0.1 ppm 6/29/08**		29-Jun-08, 17:09
41	87	0629_004.D	1	**PETN_06/27_CAL_2 0.125 ppm 6/29/08**		29-Jun-08, 18:05
42	88	0629_005.D	1	**PETN_06/27_CAL_3 0.5 ppm 6/29/08**		29-Jun-08, 19:01
43	89	0629_006.D	1	**PETN_06/27_CAL_4 5.0 ppm 6/29/08**		29-Jun-08, 19:58
44	90	0629_007.D	1	**PETN_06/27_CAL_5 12.5 ppm 6/29/08**		29-Jun-08, 20:54
45	71	0629_008.D	1	**PETN_06/27_CAL_6 25 ppm 6/29/08**		29-Jun-08, 21:50
46	72	0629_009.D	1	**PETN_5/15_SS_LEVEL5 12.5 ppm 6/29/08**		29-Jun-08, 22:46
1	91	0820_001.D	1	**8330_08/13_MixA_PETN_CCV_3**	**2.5/12.5 ppm 8/20/08**	20-Aug-08, 14:32
2	92	0820_002.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_3**	**2.5 ppm 8/20/08**	20-Aug-08, 15:28
3	93	0820_003.D	20	080813WLCS1A	water	20-Aug-08, 16:09
4	94	0820_004.D	20	080813WLCS2A	water	20-Aug-08, 17:29
5	95	0820_005.D	20	AX82344W_MS-1	water	20-Aug-08, 18:34
6	96	0820_006.D	20	AX82344W_MSD-1	water	20-Aug-08, 19:54
7	97	0820_007.D	20	AX82344W_MS-2	water	20-Aug-08, 21:13
8	98	0820_008.D	20	AX82344W_MSD-2	water	20-Aug-08, 22:33
9	99	0820_009.D	3996	080814SLCS1A 10.01 g / 20.0 mL	soil	20-Aug-08, 23:53
10	100	0820_010.D	3996	080814SLCS2A 10.01 g / 20.0 mL	soil	21-Aug-08, 00:49
11	81	0820_011.D	3996	AX82325S01_MS-1 10.01 g / 20.0 mL	soil	21-Aug-08, 01:45
12	82	0820_012.D	4000	AX82325S01_MSD-1 10.00 g / 20.0 mL	soil	21-Aug-08, 02:41
13	83	0820_013.D	3988.04	AX82325S01_MS-2 10.03 g / 20.0 mL	soil	21-Aug-08, 03:38
14	84	0820_014.D	4000	AX82325S01_MSD-2 10.00 g / 20.0 mL	soil	21-Aug-08, 04:34
19	91	0820_019.D	1	**8330_08/13_MixA_PETN_CCV_3**	**2.5/12.5 ppm 8/20/08**	21-Aug-08, 08:45
20	92	0820_020.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_3**	**2.5 ppm 8/20/08**	21-Aug-08, 09:41
14	91	0822_014.D	1	**8330_08/13_MixA_PETN_CCV_4**	**2.5/12.5 ppm 8/22/08**	23-Aug-08, 05:25
15	92	0822_015.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_4**	**2.5 ppm 8/22/08**	23-Aug-08, 06:21
16	87	0822_016.D	4000	080814SBLKA 10.00 g / 20.0 mL	SOIL	23-Aug-08, 07:02
17	88	0822_017.D	4000	AX82321S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 07:58
18	89	0822_018.D	4000	AX82322S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 08:55
19	90	0822_019.D	4000	AX82323S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 09:51
20	71	0822_020.D	3988.04	AX82324S01 10.03 g / 20.0 mL	SOIL	23-Aug-08, 10:47
22	72	0822_022.D	3992.02	AX82325S01 10.02 g / 20.0 mL	SOIL	23-Aug-08, 12:24
23	73	0822_023.D	4000	AX82326S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 13:20
24	74	0822_024.D	4000	AX82327S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 14:16
25	75	0822_025.D	4000	AX82328S01 10.00 g / 20.0 mL	SOIL	23-Aug-08, 15:13
26	76	0822_026.D	3988.04	AX82329S01 10.03 g / 20.0 mL	SOIL	23-Aug-08, 16:09
27	77	0822_027.D	3996	AX82330S01 10.01 g / 20.0 mL	SOIL	23-Aug-08, 17:05
28	91	0822_028.D	1	**8330_08/13_MixA_PETN_CCV_4**	**2.5/12.5 ppm 8/22/08**	23-Aug-08, 18:01

Injection Log

E2 Column

Directory: F:\UV1200\HPCHEM\1\DATA\080627\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
29	92	0822_029.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_4**	**2.5 ppm 8/22/08**	23-Aug-08, 18:57
30	78	0822_030.D	3996	AX82331S01 10.01 g / 20.0 mL	SOIL	23-Aug-08, 19:39
31	79	0822_031.D	3996	AX82332S01 10.01 g / 20.0 mL	SOIL	23-Aug-08, 20:35
32	61	0822_032.D	20	AX82333W	WATER	23-Aug-08, 21:31
33	62	0822_033.D	20	AX82334W	WATER	23-Aug-08, 22:51
34	63	0822_034.D	20	AX82344W	WATER	24-Aug-08, 00:10
35	64	0822_035.D	20	AX82345W	WATER	24-Aug-08, 01:30
38	91	0822_038.D	1	**8330_08/13_MixA_PETN_CCV_4**	**2.5/12.5 ppm 8/22/08**	24-Aug-08, 04:42
39	92	0822_039.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_4**	**2.5 ppm 8/22/08**	24-Aug-08, 05:38

Injection Log

C18 Column

Directory: F:\UV2\HPCHEM\2\DATA\080825\

Line	Vial	FileName	Multip	SampleName	Misc Info	Injected
3	92	0825_003.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_2**	0.025 ppm 08/25/08	25-Aug-08, 16:57
4	93	0825_004.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_3**	0.05 ppm 08/25/08	25-Aug-08, 18:00
5	94	0825_005.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_4**	1.0 ppm 08/25/08	25-Aug-08, 19:02
6	95	0825_006.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_5**	2.5 ppm 08/25/08	25-Aug-08, 20:05
7	96	0825_007.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_6**	5.0 ppm 08/25/08	25-Aug-08, 21:08
8	84	0825_008.D	1	**8330_05/15_SS_A 2.5 ppm 8/25/08**	Compare to Accustandard M	25-Aug-08, 22:11
10	98	0825_010.D	1	**8330_08/13_MixA_PETN_CAL_2**	0.025/0.125 ppm 08/25/08	26-Aug-08, 00:16
11	99	0825_011.D	1	**8330_08/13_MixA_PETN_CAL_3**	0.05/0.25 ppm 08/25/08	26-Aug-08, 01:19
12	100	0825_012.D	1	**8330_08/13_MixA_PETN_CAL_4**	1.0 ppm 08/25/08	26-Aug-08, 02:22
13	81	0825_013.D	1	**8330_08/13_MixA_PETN_CAL_5**	2.5 ppm 08/25/08	26-Aug-08, 03:24
14	82	0825_014.D	1	**8330_08/13_MixA_PETN_CAL_6**	5.0 ppm 08/25/08	26-Aug-08, 04:27
17	13	0825_017.D	1	**8330_08/24_MIXB_SS 2.5 ppm 8/26/08**	Compare to Accustandard M	26-Aug-08, 07:42
20	92	0825_020.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CAL_2**	**0.025 ppm 8/25/08**	26-Aug-08, 11:06
21	98	0825_021.D	1	**8330_08/13_MixA_PETN_CAL_2**	**0.025/0.125 ppm 8/25/08**	26-Aug-08, 12:09
4	45	0825_025.D	20	080813WBLKA CONF	water	26-Aug-08, 18:09
13	74	0825_034.D	1	**8330_08/13_MixA_PETN_CCV_6**	**2.5 ppm 8/26/08**	27-Aug-08, 05:52
14	75	0825_035.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_6**	**2.5 ppm 8/26/08**	27-Aug-08, 06:55
3	85	0825_038.D	20	AX82333W CONF	water	27-Aug-08, 10:03
4	86	0825_039.D	20	AX82334W CONF	water	27-Aug-08, 11:40
5	87	0825_040.D	20	AX82344W CONF	water	27-Aug-08, 13:17
7	89	0825_042.D	4000	AX82327S CONF 10.00 g / 20.0 mL	soil	27-Aug-08, 16:31
8	90	0825_043.D	3996	AX82331S01 CONF 10.01 g / 20.0 mL	soil	27-Aug-08, 17:33
9	71	0825_044.D	3996	AX82332S01 CONF 10.01 g / 20.0 mL	soil	27-Aug-08, 18:36
11	88	0825_046.D	20	AX82345W CONF	water	27-Aug-08, 20:42
12	74	0825_047.D	1	**8330_08/13_MixA_PETN_CCV_6**	**2.5 PPM 8/26/08**	27-Aug-08, 22:19
13	75	0825_048.D	1	**8330_08/13_MixB_07/30_3,5-DNA_CCV_6**	**2.5 ppm 8/26/08**	27-Aug-08, 23:22

Data Validatable Package Review Check List

ARF 56740 Analysis 8330 Reviewer [illegible] Date 8-28-08

yes	no	NA	QC Forms
✓			Are the significant figures on the Form 2 and 3 correct?
✓			Are all surrogates out of control on the Form 2 flagged with "#"?
✓			Are all injections listed on the Form 2,4 and 5?
✓			Do surrogates on result sheets match with Form 2?
✓			Are all analytes out of control on the Form 3 flagged with "#"?
✓			Do Form 3s have correct spike analytes and control limits?
✓			Are SDG numbers correct on Form 2, 3, 4, 5, 6, 7 and 8?
✓			Are forms in proper order?

Blank Form 1, Surrogate Summary Form 2, LCS/LCSD Spike Forms 3, MS/MSD Spike Forms 3, Blank Summary Form 4, Tune Summary Form 5 and IS Area Summary Form 8.

yes	no	NA	Sample Results
✓			Do Form 1s have correct target compounds and reporting limits?
✓			Are all results transcribed correctly from quant reports to result sheets?
✓			Are all extraction dates correct on the quant report? (Check extraction sheet)
✓			Are all extraction dates correct on the Form 1?
✓			Are all extraction ratios correct on the quant report? (Check extraction sheet)
✓			Are all extraction ratios correct on the Form 1s?
✓			Are all samples included in the package?
		✓	Are soil samples corrected for % moisture?

yes	no	NA	Calibrations
✓			Does initial calibration report match raw data?
✓			Are the concentrations listed correctly?
✓			Are all pertinent initial calibrations included in the package?
✓			Do all continuings have correct average calibration from initial?
✓			Are all continuing calibrations included in the package?
✓			Are all compounds out of control flagged with "#" or "NT"?
✓			Was the correct enviroquant method used?

yes	no	NA	Raw data section
✓			Are results transcribed correctly from quant report to Blank Form 1?
✓			Are results transcribed correctly from quant reports to Spike Form 3?
✓			Do Form 3s have correct header information?
✓			Are all spikes included in the package?
✓			Are all blanks included in the package?
✓			Have multilevel forms been completely filled out?
✓			Has an algorithm check been done for each sequence?
✓			Are forms in proper order?

Blank Form 1 with quant report, LCS/LCSD Form 3 with quant reports, MS/MSD Form 3 with quant reports, Tune Reports, Copies of Standard Prep Books, Extraction Sheet (multilevel side down) and Injection Logs.

Comments: _____

METALS

APPL, INC.

EPA 6010B
METALS

Water
Sample & QC Data

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-02
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82333

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Aluminum (Al)	16.4 J	100	12.1	ug/L	1	08/12/08	08/13/08
6010B/3010A	Antimony (Sb)	0.43 U	3.0	0.43	ug/L	1	08/12/08	08/13/08
6010B/3010A	Chromium (Cr)	1.37 U	5.0	1.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Copper (Cu)	9.2	2.0	0.42	ug/L	1	08/12/08	08/13/08
6010B/3010A	Lead (Pb)	0.37 U	2.0	0.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Zinc (Zn)	59.0	50	2.3	ug/L	1	08/12/08	08/13/08

J = Estimated value.

Printed: 08/21/08 4:54:14 PM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 47
Sample ID: AX82333W04
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 101
Date Collected: 8/13/2008 11:59:21 AM
Data Type: Reprocessed on 8/13/2008 1:17:38 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82333W04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	65.4	0.399	ug/L	0.1280	0.080	ug/L	0.0256	32.07%
Al 308.215	368.2	81.93	ug/L	9.547	16.39	ug/L	1.909	11.65%
As 188.979	-50.7	-10.60	ug/L	1.069	-2.119	ug/L	0.2138	10.09%
B	1666.2	79.34	ug/L	0.199	15.87	ug/L	0.040	0.25%
Ba 233.527	91787.4	531.3	ug/L	4.98	106.3	ug/L	1.00	0.94%
Be 313.107	466.5	0.351	ug/L	0.0759	0.070	ug/L	0.0152	21.61%
Ca 315.887	267269.0	10820	ug/L	113.0	2165	ug/L	22.6	1.04%
Cd 214.440	-434.2	-1.726	ug/L	0.0277	-0.345	ug/L	0.0055	1.60%
Co 228.616	-30.1	-0.532	ug/L	0.1655	-0.106	ug/L	0.0331	31.12%
Cr 267.716	489.5	3.891	ug/L	0.1773	0.778	ug/L	0.0355	4.56%
Cu 327.393	9002.4	45.99	ug/L	1.270	9.198	ug/L	0.2541	2.76%
Fe 273.955	56284.8	2122	ug/L	19.2	424.3	ug/L	3.84	0.91%
K 766.490	31024.3	8345	ug/L	43.4	1669	ug/L	8.7	0.52%
Mg 285.213	318384.9	5940	ug/L	48.6	1188	ug/L	9.7	0.82%
Mn 257.610	2358.1	12.14	ug/L	0.161	2.428	ug/L	0.0322	1.33%
Mo 202.031	52.2	1.959	ug/L	0.1637	0.392	ug/L	0.0327	8.36%
Na 589.592	428770.9	30600	ug/L	328.4	6120	ug/L	65.7	1.07%
Ni 231.604	24.5	0.393	ug/L	0.4299	0.079	ug/L	0.0860	109.32%
P 213.617	48.6	13.66	ug/L	1.673	2.732	ug/L	0.3347	12.25%
Pb 220.353	-33.4	-3.235	ug/L	0.4919	-0.647	ug/L	0.0984	15.20%
Sb 206.836	-37.1	-7.512	ug/L	1.0513	-1.502	ug/L	0.2103	14.00%
Se 196.026	-3.9	-1.184	ug/L	0.2143	-0.237	ug/L	0.0429	18.09%
Sn 189.927	6541.6	594.4	ug/L	2.13	118.9	ug/L	0.43	0.36%
Sr 421.552	326092.4	155.1	ug/L	1.19	31.02	ug/L	0.238	0.77%
Ti 337.279	234.0	1.821	ug/L	0.1688	0.364	ug/L	0.0338	9.27%
Tl 190.801	-62.1	-5.854	ug/L	1.2713	-1.171	ug/L	0.2543	21.72%
V 292.402	148.6	0.891	ug/L	0.0348	0.178	ug/L	0.0070	3.91%
Zn 206.200	21847.8	294.9	ug/L	4.49	58.98	ug/L	0.897	1.52%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-03
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82334

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Aluminum (Al)	12.3 J	100	12.1	ug/L	1	08/12/08	08/13/08
6010B/3010A	Antimony (Sb)	0.43 U	3.0	0.43	ug/L	1	08/12/08	08/13/08
6010B/3010A	Chromium (Cr)	1.37 U	5.0	1.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Copper (Cu)	1.7 J	2.0	0.42	ug/L	1	08/12/08	08/13/08
6010B/3010A	Lead (Pb)	0.50 J	2.0	0.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Zinc (Zn)	23.3 J	50	2.3	ug/L	1	08/12/08	08/13/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 48
Sample ID: AX82334W04
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 102
Date Collected: 8/13/2008 12:05:51 PM
Data Type: Reprocessed on 8/13/2008 1:17:39 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82334W04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	67.8	0.210	ug/L	0.2008	0.042	ug/L	0.0402	95.83%
Al 308.215	271.0	61.60	ug/L	9.230	12.32	ug/L	1.846	14.98%
As 188.979	-55.8	-12.40	ug/L	1.570	-2.480	ug/L	0.3141	12.67%
B	1563.9	74.47	ug/L	0.560	14.89	ug/L	0.112	0.75%
Ba 233.527	3815.8	22.07	ug/L	0.213	4.414	ug/L	0.0427	0.97%
Be 313.107	224.1	0.172	ug/L	0.0476	0.034	ug/L	0.0095	27.65%
Ca 315.887	123567.1	5005	ug/L	24.1	1001	ug/L	4.8	0.48%
Cd 214.440	-253.2	-0.951	ug/L	0.0176	-0.190	ug/L	0.0035	1.85%
Co 228.616	-1.3	-0.040	ug/L	0.0766	-0.008	ug/L	0.0153	192.44%
Cr 267.716	656.3	5.474	ug/L	0.0848	1.095	ug/L	0.0170	1.55%
Cu 327.393	1770.9	8.731	ug/L	0.4068	1.746	ug/L	0.0814	4.66%
Fe 273.955	3729.3	141.0	ug/L	1.94	28.20	ug/L	0.388	1.37%
K 766.490	1628.3	430.7	ug/L	61.89	86.14	ug/L	12.379	14.37%
Mg 285.213	103284.0	1926	ug/L	11.5	385.3	ug/L	2.31	0.60%
Mn 257.610	2283.1	12.11	ug/L	0.116	2.422	ug/L	0.0231	0.96%
Mo 202.031	49.7	1.865	ug/L	0.3393	0.373	ug/L	0.0679	18.19%
Na 589.592	156678.2	11180	ug/L	104.3	2237	ug/L	20.9	0.93%
Ni 231.604	-59.2	-1.227	ug/L	0.0430	-0.245	ug/L	0.0086	3.51%
P 213.617	-4.5	-1.262	ug/L	1.3644	-0.252	ug/L	0.2729	108.13%
Pb 220.353	26.0	2.514	ug/L	0.3544	0.503	ug/L	0.0709	14.09%
Sb 206.836	-29.2	-5.911	ug/L	0.6649	-1.182	ug/L	0.1330	11.25%
Se 196.026	-8.5	-2.591	ug/L	0.5036	-0.518	ug/L	0.1007	19.43%
Sn 189.927	6528.4	592.4	ug/L	8.18	118.5	ug/L	1.64	1.38%
Sr 421.552	40851.5	19.41	ug/L	0.063	3.881	ug/L	0.0125	0.32%
Ti 337.279	220.1	1.774	ug/L	0.2214	0.355	ug/L	0.0443	12.49%
Tl 190.801	-71.0	-6.929	ug/L	0.6805	-1.386	ug/L	0.1361	9.82%
V 292.402	44.8	0.269	ug/L	0.0400	0.054	ug/L	0.0080	14.88%
Zn 206.200	8606.8	116.3	ug/L	1.82	23.26	ug/L	0.363	1.56%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82344

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Aluminum (Al)	12.1 U	100	12.1	ug/L	1	08/12/08	08/13/08
6010B/3010A	Antimony (Sb)	0.43 U	3.0	0.43	ug/L	1	08/12/08	08/13/08
6010B/3010A	Chromium (Cr)	1.37 U	5.0	1.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Copper (Cu)	18.3	2.0	0.42	ug/L	1	08/12/08	08/13/08
6010B/3010A	Lead (Pb)	1.1 J	2.0	0.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Zinc (Zn)	431 J	50	2.3	ug/L	1	08/12/08	08/13/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 49
Sample ID: AX82344W08
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 103
Date Collected: 8/13/2008 12:10:14 PM
Data Type: Reprocessed on 8/13/2008 1:17:40 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82344W08

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	75.7	0.530	ug/L	0.2731	0.106	ug/L	0.0546	51.52%
Al 308.215	68.6	12.49	ug/L	5.023	2.498	ug/L	1.0046	40.21%
As 188.979	-41.1	-8.705	ug/L	0.9964	-1.741	ug/L	0.1993	11.45%
B	1091.0	51.95	ug/L	0.826	10.39	ug/L	0.165	1.59%
Ba 233.527	44475.1	257.7	ug/L	0.21	51.54	ug/L	0.043	0.08%
Be 313.107	379.5	0.287	ug/L	0.0086	0.057	ug/L	0.0017	3.00%
Ca 315.887	228293.8	9245	ug/L	38.8	1849	ug/L	7.8	0.42%
Cd 214.440	-296.6	-0.832	ug/L	0.0537	-0.166	ug/L	0.0107	6.46%
Co 228.616	35.1	0.460	ug/L	0.0515	0.092	ug/L	0.0103	11.21%
Cr 267.716	90.0	0.483	ug/L	0.1171	0.097	ug/L	0.0234	24.24%
Cu 327.393	17806.6	91.32	ug/L	0.128	18.26	ug/L	0.026	0.14%
Fe 273.955	3509.0	133.9	ug/L	0.78	26.78	ug/L	0.157	0.59%
K 766.490	11280.3	3015	ug/L	74.4	603.0	ug/L	14.87	2.47%
Mg 285.213	289634.2	5401	ug/L	14.9	1080	ug/L	3.0	0.28%
Mn 257.610	2598.5	13.38	ug/L	0.132	2.677	ug/L	0.0264	0.99%
Mo 202.031	56.7	2.128	ug/L	0.0542	0.426	ug/L	0.0108	2.55%
Na 589.592	541395.9	38640	ug/L	152.8	7729	ug/L	30.6	0.40%
Ni 231.604	47.8	0.915	ug/L	0.4139	0.183	ug/L	0.0828	45.23%
P 213.617	33.8	9.508	ug/L	0.6771	1.902	ug/L	0.1354	7.12%
Pb 220.353	59.3	5.733	ug/L	0.0320	1.147	ug/L	0.0064	0.56%
Sb 206.836	-34.9	-7.081	ug/L	0.5876	-1.416	ug/L	0.1175	8.30%
Se 196.026	-3.2	-0.962	ug/L	1.2665	-0.192	ug/L	0.2533	131.69%
Sn 189.927	5879.9	534.4	ug/L	2.15	106.9	ug/L	0.43	0.40%
Sr 421.552	119352.9	56.72	ug/L	0.090	11.34	ug/L	0.018	0.16%
Ti 337.279	190.6	1.471	ug/L	0.1817	0.294	ug/L	0.0363	12.35%
Tl 190.801	-72.8	-6.912	ug/L	0.2633	-1.382	ug/L	0.0527	3.81%
V 292.402	220.9	1.324	ug/L	0.0475	0.265	ug/L	0.0095	3.59%
Zn 206.200	159367.7	2153	ug/L	5.0	430.7	ug/L	0.99	0.23%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-04
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82345

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Aluminum (Al)	12.1 U	100	12.1	ug/L	1	08/12/08	08/13/08
6010B/3010A	Antimony (Sb)	0.43 U	3.0	0.43	ug/L	1	08/12/08	08/13/08
6010B/3010A	Chromium (Cr)	1.37 U	5.0	1.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Copper (Cu)	16.8	2.0	0.42	ug/L	1	08/12/08	08/13/08
6010B/3010A	Lead (Pb)	1.6 J	2.0	0.37	ug/L	1	08/12/08	08/13/08
6010B/3010A	Zinc (Zn)	474	50	2.3	ug/L	1	08/12/08	08/13/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 57
Sample ID: AX82345W04
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 108
Date Collected: 8/13/2008 12:52:51 PM
Data Type: Reprocessed on 8/13/2008 1:17:51 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82345W04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	127.6	0.815	ug/L	0.0296	0.163	ug/L	0.0059	3.63%
Al 308.215	89.7	17.27	ug/L	2.249	3.454	ug/L	0.4498	13.02%
As 188.979	-51.7	-11.09	ug/L	1.780	-2.217	ug/L	0.3560	16.06%
B	1016.1	48.38	ug/L	0.293	9.677	ug/L	0.0585	0.60%
Ba 233.527	46456.5	269.2	ug/L	1.68	53.84	ug/L	0.336	0.62%
Be 313.107	388.5	0.295	ug/L	0.0211	0.059	ug/L	0.0042	7.17%
Ca 315.887	241506.0	9780	ug/L	55.3	1956	ug/L	11.1	0.57%
Cd 214.440	-297.3	-0.827	ug/L	0.0108	-0.165	ug/L	0.0022	1.31%
Co 228.616	43.6	0.579	ug/L	0.2784	0.116	ug/L	0.0557	48.12%
Cr 267.716	114.4	0.680	ug/L	0.1725	0.136	ug/L	0.0345	25.39%
Cu 327.393	16422.3	84.06	ug/L	0.593	16.81	ug/L	0.119	0.71%
Fe 273.955	3774.0	143.9	ug/L	1.83	28.78	ug/L	0.365	1.27%
K 766.490	11717.4	3133	ug/L	10.3	626.5	ug/L	2.07	0.33%
Mg 285.213	303145.4	5653	ug/L	49.0	1131	ug/L	9.8	0.87%
Mn 257.610	2807.9	14.49	ug/L	0.114	2.898	ug/L	0.0228	0.79%
Mo 202.031	66.3	2.489	ug/L	0.1229	0.498	ug/L	0.0246	4.94%
Na 589.592	546946.5	39040	ug/L	213.9	7808	ug/L	42.8	0.55%
Ni 231.604	84.0	1.650	ug/L	0.2414	0.330	ug/L	0.0483	14.64%
P 213.617	43.1	12.10	ug/L	1.189	2.421	ug/L	0.2377	9.82%
Pb 220.353	80.2	7.755	ug/L	0.1952	1.551	ug/L	0.0390	2.52%
Sb 206.836	2.2	0.446	ug/L	0.7361	0.089	ug/L	0.1472	165.04%
Se 196.026	-1.3	-0.406	ug/L	0.9213	-0.081	ug/L	0.1843	226.65%
Sn 189.927	6233.3	566.5	ug/L	5.36	113.3	ug/L	1.07	0.95%
Sr 421.552	124401.4	59.12	ug/L	0.634	11.82	ug/L	0.127	1.07%
Ti 337.279	209.3	1.619	ug/L	0.1311	0.324	ug/L	0.0262	8.10%
Tl 190.801	-68.7	-6.496	ug/L	1.3172	-1.299	ug/L	0.2634	20.28%
V 292.402	245.9	1.474	ug/L	0.0061	0.295	ug/L	0.0012	0.42%
Zn 206.200	175281.9	2368	ug/L	1.6	473.7	ug/L	0.33	0.07%

6010B/3010AL

Form 4

Blank Summary

Lab Name: APPL, Inc.
SDG No: 56740
Case No: 56740
Date Analyzed: 08/13/08
Matrix: WATER
Instrument: Phoebe
Blank ID: 080812A-BLK
Time Analyzed: 1147

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AX82333	HBGR-GW-02	080813A	08/13/08 1159
080812A-MS	Matrix Spike	080813A	08/13/08 1217
080812A-LCSD	Lab Control SpikeD	080813A	08/13/08 1156
080812A-LCS	Lab Control Spike	080813A	08/13/08 1152
080812A-BLK	Blank	080813A	08/13/08 1147
AX82345	HBGR-GW-04	080813A	08/13/08 1252
AX82344	HBGR-GW-01	080813A	08/13/08 1210
AX82334	HBGR-GW-03	080813A	08/13/08 1205
080812A-MSD	Matrix SpikeD	080813A	08/13/08 1224

Comments: Batch: $61PW-080812A

METALS BLANK

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Analyte	Result	RL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	Aluminum (Al)	12.5 J	100	12.1	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344
6010B	Antimony (Sb)	0.43 U	3.0	0.43	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344
6010B	Chromium (Cr)	1.37 U	5.0	1.37	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344
6010B	Copper (Cu)	0.42 U	2.0	0.42	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344
6010B	Lead (Pb)	0.37 U	2.0	0.37	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344
6010B	Zinc (Zn)	2.3 U	50	2.3	ug/L	08/12/08	08/13/08	$61PW-080812A-AX82344

J = Estimated value.

Sequence No.: 44
Sample ID: 080812A-3010A-BLK
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 98
Date Collected: 8/13/2008 11:47:30 AM
Data Type: Reprocessed on 8/13/2008 1:17:34 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 080812A-3010A-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-47.3	-0.254	ug/L	0.1513	-0.051	ug/L	0.0303	59.45%
Al 308.215	269.2	62.47	ug/L	0.447	12.49	ug/L	0.089	0.72%
As 188.979	-0.6	-0.127	ug/L	1.0822	-0.025	ug/L	0.2164	851.79%
B	481.0	22.90	ug/L	0.143	4.581	ug/L	0.0287	0.63%
Ba 233.527	101.3	0.575	ug/L	0.0927	0.115	ug/L	0.0185	16.11%
Be 313.107	11.5	0.010	ug/L	0.0169	0.002	ug/L	0.0034	169.43%
Ca 315.887	2271.8	92.00	ug/L	2.092	18.40	ug/L	0.418	2.27%
Cd 214.440	-69.7	-0.295	ug/L	0.0436	-0.059	ug/L	0.0087	14.78%
Co 228.616	9.6	0.134	ug/L	0.1371	0.027	ug/L	0.0274	102.18%
Cr 267.716	-22.2	-0.191	ug/L	0.0719	-0.038	ug/L	0.0144	37.69%
Cu 327.393	-129.1	-0.673	ug/L	0.1948	-0.135	ug/L	0.0390	28.95%
Fe 273.955	929.3	35.01	ug/L	2.988	7.002	ug/L	0.5975	8.53%
K 766.490	285.1	76.73	ug/L	31.258	15.35	ug/L	6.252	40.74%
Mg 285.213	1966.0	36.71	ug/L	0.853	7.341	ug/L	0.1706	2.32%
Mn 257.610	237.3	1.285	ug/L	0.0480	0.257	ug/L	0.0096	3.73%
Mo 202.031	2.9	0.107	ug/L	0.0947	0.021	ug/L	0.0189	88.25%
Na 589.592	2067.6	147.5	ug/L	3.31	29.49	ug/L	0.663	2.25%
Ni 231.604	3.0	0.059	ug/L	0.0673	0.012	ug/L	0.0135	114.01%
P 213.617	12.4	3.470	ug/L	0.8467	0.694	ug/L	0.1693	24.40%
Pb 220.353	-29.4	-2.842	ug/L	0.2628	-0.568	ug/L	0.0526	9.25%
Sb 206.836	2.4	0.479	ug/L	0.9594	0.096	ug/L	0.1919	200.42%
Se 196.026	-5.5	-1.683	ug/L	1.0283	-0.337	ug/L	0.2057	61.10%
Sn 189.927	-0.8	-0.060	ug/L	0.1919	-0.012	ug/L	0.0384	320.28%
Sr 421.552	1043.2	0.496	ug/L	0.0540	0.099	ug/L	0.0108	10.89%
Ti 337.279	58.1	0.478	ug/L	0.1629	0.096	ug/L	0.0326	34.06%
Tl 190.801	-12.1	-1.194	ug/L	0.4900	-0.239	ug/L	0.0980	41.05%
V 292.402	13.9	0.083	ug/L	0.0168	0.017	ug/L	0.0034	20.17%
Zn 206.200	-213.8	-2.896	ug/L	0.1650	-0.579	ug/L	0.0330	5.70%

Laboratory Control Spike Recoveries

METALS

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010B	Aluminum (Al)	2000	1860	1840	93.0	92.0	1.1	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344
EPA 6010B	Antimony (Sb)	250	246	254	98.4	102	3.2	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344
EPA 6010B	Chromium (Cr)	250	233	240	93.2	96.0	3.0	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344
EPA 6010B	Copper (Cu)	250	217	220	86.8	88.0	1.4	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344
EPA 6010B	Lead (Pb)	250	228	235	91.2	94.0	3.0	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344
EPA 6010B	Zinc (Zn)	500	460	476	92.0	95.2	3.4	20	80-120	08/12/08	08/13/08	08/12/08	08/13/08	$61PW-080812A-AX82344

Comments: _____

Printed: 8/20/08 3:30:44 PM
APPL Standard LCSD

Sequence No.: 45
Sample ID: 080812A-3010A-LCS
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 99
Date Collected: 8/13/2008 11:52:47 AM
Data Type: Reprocessed on 8/13/2008 1:17:35 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 080812A-3010A-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	16480.0	85.87	ug/L	0.337	85.87	ug/L	0.337	0.39%
Al 308.215	8022.7	1856	ug/L	11.7	1856	ug/L	11.7	0.63%
As 188.979	980.6	221.4	ug/L	0.47	221.4	ug/L	0.47	0.21%
B	5149.4	245.2	ug/L	0.69	245.2	ug/L	0.69	0.28%
Ba 233.527	39969.5	231.6	ug/L	0.39	231.6	ug/L	0.39	0.17%
Be 313.107	63617.2	47.09	ug/L	0.071	47.09	ug/L	0.071	0.15%
Ca 315.887	570761.1	23110	ug/L	150.9	23110	ug/L	150.9	0.65%
Cd 214.440	10858.6	46.57	ug/L	0.195	46.57	ug/L	0.195	0.42%
Co 228.616	16309.3	232.5	ug/L	0.38	232.5	ug/L	0.38	0.16%
Cr 267.716	27519.2	233.2	ug/L	1.12	233.2	ug/L	1.12	0.48%
Cu 327.393	42482.1	217.4	ug/L	2.19	217.4	ug/L	2.19	1.01%
Fe 273.955	25932.7	954.2	ug/L	3.16	954.2	ug/L	3.16	0.33%
K 766.490	16279.2	4370	ug/L	15.8	4370	ug/L	15.8	0.36%
Mg 285.213	1239910.3	23140	ug/L	121.2	23140	ug/L	121.2	0.52%
Mn 257.610	43651.7	234.9	ug/L	0.38	234.9	ug/L	0.38	0.16%
Mo 202.031	6588.2	247.3	ug/L	0.77	247.3	ug/L	0.77	0.31%
Na 589.592	290822.4	20740	ug/L	118.7	20740	ug/L	118.7	0.57%
Ni 231.604	11630.3	236.1	ug/L	0.62	236.1	ug/L	0.62	0.26%
P 213.617	6333.0	1779	ug/L	4.1	1779	ug/L	4.1	0.23%
Pb 220.353	2358.6	228.1	ug/L	0.38	228.1	ug/L	0.38	0.17%
Sb 206.836	1214.9	246.2	ug/L	0.96	246.2	ug/L	0.96	0.39%
Se 196.026	680.5	207.3	ug/L	1.22	207.3	ug/L	1.22	0.59%
Sn 189.927	3726.0	340.8	ug/L	1.41	340.8	ug/L	1.41	0.41%
Sr 421.552	477075.4	226.9	ug/L	1.12	226.9	ug/L	1.12	0.49%
Ti 337.279	28480.9	234.5	ug/L	1.19	234.5	ug/L	1.19	0.51%
Tl 190.801	2187.2	223.6	ug/L	1.32	223.6	ug/L	1.32	0.59%
V 292.402	38163.0	228.7	ug/L	0.52	228.7	ug/L	0.52	0.23%
Zn 206.200	33927.5	460.1	ug/L	1.20	460.1	ug/L	1.20	0.26%

Sequence No.: 46
Sample ID: 808012A-3010A-LCSD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 8/13/2008 11:56:17 AM
Data Type: Reprocessed on 8/13/2008 1:17:36 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 808012A-3010A-LCSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	17005.5	88.62	ug/L	0.947	88.62	ug/L	0.947	1.07%
Al 308.215	7966.4	1843	ug/L	14.7	1843	ug/L	14.7	0.80%
As 188.979	1000.4	225.9	ug/L	1.49	225.9	ug/L	1.49	0.66%
B	5200.1	247.6	ug/L	2.36	247.6	ug/L	2.36	0.95%
Ba 233.527	41184.5	238.6	ug/L	1.92	238.6	ug/L	1.92	0.81%
Be 313.107	64122.7	47.47	ug/L	0.384	47.47	ug/L	0.384	0.81%
Ca 315.887	588179.5	23820	ug/L	166.3	23820	ug/L	166.3	0.70%
Cd 214.440	11175.4	47.92	ug/L	0.087	47.92	ug/L	0.087	0.18%
Co 228.616	16887.7	240.7	ug/L	1.77	240.7	ug/L	1.77	0.73%
Cr 267.716	28342.4	240.2	ug/L	1.05	240.2	ug/L	1.05	0.44%
Cu 327.393	43069.6	220.4	ug/L	1.66	220.4	ug/L	1.66	0.75%
Fe 273.955	26542.6	976.4	ug/L	6.14	976.4	ug/L	6.14	0.63%
K 766.490	16511.3	4432	ug/L	74.9	4432	ug/L	74.9	1.69%
Mg 285.213	1273686.0	23770	ug/L	153.8	23770	ug/L	153.8	0.65%
Mn 257.610	44294.3	238.3	ug/L	1.66	238.3	ug/L	1.66	0.70%
Mo 202.031	6815.6	255.9	ug/L	1.28	255.9	ug/L	1.28	0.50%
Na 589.592	300549.0	21440	ug/L	128.8	21440	ug/L	128.8	0.60%
Ni 231.604	11979.0	243.2	ug/L	0.60	243.2	ug/L	0.60	0.25%
P 213.617	6480.5	1821	ug/L	4.0	1821	ug/L	4.0	0.22%
Pb 220.353	2429.0	234.9	ug/L	1.38	234.9	ug/L	1.38	0.59%
Sb 206.836	1254.8	254.2	ug/L	1.52	254.2	ug/L	1.52	0.60%
Se 196.026	688.5	209.8	ug/L	1.14	209.8	ug/L	1.14	0.54%
Sn 189.927	3912.4	357.8	ug/L	0.05	357.8	ug/L	0.05	0.01%
Sr 421.552	487801.6	232.0	ug/L	1.44	232.0	ug/L	1.44	0.62%
Ti 337.279	29072.5	239.3	ug/L	2.59	239.3	ug/L	2.59	1.08%
Tl 190.801	2257.9	230.8	ug/L	1.61	230.8	ug/L	1.61	0.70%
V 292.402	39503.6	236.8	ug/L	2.29	236.8	ug/L	2.29	0.97%
Zn 206.200	35064.8	475.5	ug/L	4.05	475.5	ug/L	4.05	0.85%

Matrix Spike Recoveries

METALS

APPL ID: **080812W-82344 MS - 125033**

Sample ID: AX82344

Client ID: HBGR-GW-01

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 6010B	Aluminum (Al)	2000	ND	1730	1800	86.5	90.0	4.0	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344
EPA 6010B	Antimony (Sb)	250	ND	223	234	89.2	93.6	4.8	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344
EPA 6010B	Chromium (Cr)	250	ND	209	217	83.6	86.8	3.8	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344
EPA 6010B	Copper (Cu)	250	18.3	230	240	84.7	88.7	4.3	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344
EPA 6010B	Lead (Pb)	250	1.1	189	197	75.2 #	78.4 #	4.1	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344
EPA 6010B	Zinc (Zn)	500	431	1120	1160	138 #	146 #	3.5	20	80-120	8/12/08	8/13/08	8/12/08	8/13/08	125033	AX82344

= Recovery is outside QC limits.

Comments:

Printed: 8/20/08 3:30:36 PM
APPL MSD SCII

Sequence No.: 50
Sample ID: AX82344W07-MS
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 104
Date Collected: 8/13/2008 12:17:38 PM
Data Type: Reprocessed on 8/13/2008 1:17:41 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82344W07-MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	74805.0	390.3	ug/L	1.86	78.07	ug/L	0.372	0.48%
Al 308.215	37489.0	8670	ug/L	69.4	1734	ug/L	13.9	0.80%
As 188.979	4405.8	996.4	ug/L	5.04	199.3	ug/L	1.01	0.51%
B	22080.1	1051	ug/L	7.1	210.3	ug/L	1.43	0.68%
Ba 233.527	218571.2	1267	ug/L	4.5	253.3	ug/L	0.90	0.35%
Be 313.107	296399.8	219.5	ug/L	0.58	43.90	ug/L	0.116	0.26%
Ca 315.887	2918525.1	118200	ug/L	486.2	23640	ug/L	97.2	0.41%
Cd 214.440	44377.7	191.2	ug/L	0.78	38.24	ug/L	0.156	0.41%
Co 228.616	68398.0	974.7	ug/L	3.77	194.9	ug/L	0.75	0.39%
Cr 267.716	123539.8	1047	ug/L	4.4	209.4	ug/L	0.88	0.42%
Cu 327.393	224636.5	1151	ug/L	6.8	230.1	ug/L	1.36	0.59%
Fe 273.955	114738.9	4220	ug/L	16.5	844.0	ug/L	3.29	0.39%
K 766.490	90202.9	24210	ug/L	235.5	4841	ug/L	47.1	0.97%
Mg 285.213	5950228.5	111000	ug/L	756.9	22200	ug/L	151.4	0.68%
Mn 257.610	205682.2	1106	ug/L	6.1	221.2	ug/L	1.23	0.56%
Mo 202.031	29150.0	1094	ug/L	5.9	218.9	ug/L	1.18	0.54%
Na 589.592	1923962.1	137300	ug/L	527.7	27450	ug/L	105.5	0.38%
Ni 231.604	47055.0	954.9	ug/L	3.94	191.0	ug/L	0.79	0.41%
P 213.617	27500.4	7726	ug/L	64.9	1545	ug/L	13.0	0.84%
Pb 220.353	9768.4	944.9	ug/L	4.00	189.0	ug/L	0.80	0.42%
Sb 206.836	5506.5	1116	ug/L	4.1	223.1	ug/L	0.83	0.37%
Se 196.026	2958.2	901.3	ug/L	9.86	180.3	ug/L	1.97	1.09%
Sn 189.927	16667.2	1527	ug/L	8.4	305.4	ug/L	1.67	0.55%
Sr 421.552	2419721.9	1151	ug/L	7.3	230.1	ug/L	1.46	0.63%
Ti 337.279	137008.2	1128	ug/L	6.6	225.6	ug/L	1.31	0.58%
Tl 190.801	8933.3	917.2	ug/L	3.73	183.4	ug/L	0.75	0.41%
V 292.402	176722.1	1059	ug/L	5.1	211.9	ug/L	1.01	0.48%
Zn 206.200	413858.4	5599	ug/L	30.2	1120	ug/L	6.0	0.54%

Sequence No.: 51
Sample ID: AX82344W07-MSD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 105
Date Collected: 8/13/2008 12:24:17 PM
Data Type: Reprocessed on 8/13/2008 1:17:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82344W07-MSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	77921.3	406.8	ug/L	2.41	81.36	ug/L	0.482	0.59%
Al 308.215	38823.3	8978	ug/L	47.9	1796	ug/L	9.6	0.53%
As 188.979	4611.6	1043	ug/L	9.0	208.6	ug/L	1.81	0.87%
B	22639.1	1078	ug/L	3.7	215.6	ug/L	0.74	0.34%
Ba 233.527	226464.6	1312	ug/L	5.1	262.5	ug/L	1.01	0.39%
Be 313.107	309519.4	229.2	ug/L	2.80	45.84	ug/L	0.560	1.22%
Ca 315.887	3042179.5	123200	ug/L	1822.3	24640	ug/L	364.5	1.48%
Cd 214.440	46062.8	198.5	ug/L	1.13	39.69	ug/L	0.225	0.57%
Co 228.616	70892.6	1010	ug/L	6.8	202.1	ug/L	1.35	0.67%
Cr 267.716	127885.0	1084	ug/L	3.9	216.7	ug/L	0.78	0.36%
Cu 327.393	234377.8	1201	ug/L	8.9	240.1	ug/L	1.79	0.74%
Fe 273.955	118578.4	4361	ug/L	20.7	872.2	ug/L	4.14	0.47%
K 766.490	92693.8	24870	ug/L	206.1	4975	ug/L	41.2	0.83%
Mg 285.213	6174312.1	115200	ug/L	325.2	23040	ug/L	65.0	0.28%
Mn 257.610	212834.6	1145	ug/L	6.5	228.9	ug/L	1.30	0.57%
Mo 202.031	30346.6	1139	ug/L	2.9	227.8	ug/L	0.57	0.25%
Na 589.592	1976477.6	141000	ug/L	700.1	28200	ug/L	140.0	0.50%
Ni 231.604	48912.0	992.6	ug/L	6.98	198.5	ug/L	1.40	0.70%
P 213.617	28826.1	8098	ug/L	78.5	1620	ug/L	15.7	0.97%
Pb 220.353	10190.4	985.7	ug/L	5.58	197.1	ug/L	1.12	0.57%
Sb 206.836	5777.1	1171	ug/L	6.4	234.1	ug/L	1.29	0.55%
Se 196.026	3106.4	946.4	ug/L	10.56	189.3	ug/L	2.11	1.12%
Sn 189.927	17441.9	1598	ug/L	12.6	319.6	ug/L	2.52	0.79%
Sr 421.552	2509424.2	1193	ug/L	2.4	238.7	ug/L	0.48	0.20%
Ti 337.279	142116.5	1170	ug/L	8.3	234.0	ug/L	1.66	0.71%
Tl 190.801	9290.1	953.7	ug/L	3.32	190.7	ug/L	0.66	0.35%
V 292.402	182882.6	1096	ug/L	3.6	219.2	ug/L	0.71	0.32%
Zn 206.200	428926.6	5803	ug/L	46.4	1161	ug/L	9.3	0.80%

A.P.P.L. INC.
5B
POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.
HBGR-GW-01

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740

Analysis Date: 08/13/08
Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum (Al)	75-125	379.4		2.498		400	94.2		
Antimony (Sb)	75-125	44.12		-1.416		50	91.1		
Chromium (Cr)	75-125	48.58		0.097		50	97.00		
Copper (Cu)	75-125	64.15		18.26		50	91.8		
Lead (Pb)	75-125	46.1		1.147		50	89.9		
Zinc (Zn)	75-125	515.3		430.7		100	84.6		

Comments:

08/13/08 12:10 AX82344W08

08/13/08 12:30 AX82344W08-1/5

08/13/08 12:35 AX82344W08-A

Sequence No.: 53
Sample ID: AX82344W08-A
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 0.2X

Autosampler Location: 107
Date Collected: 8/13/2008 12:35:18 PM
Data Type: Reprocessed on 8/13/2008 1:17:45 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82344W08-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	15904.7	82.55	ug/L	0.495	16.51	ug/L	0.099	0.60%
Al 308.215	8216.3	1897	ug/L	2.6	379.4	ug/L	0.52	0.14%
As 188.979	966.0	218.7	ug/L	2.55	43.74	ug/L	0.510	1.17%
B	5510.7	262.4	ug/L	1.31	52.48	ug/L	0.263	0.50%
Ba 233.527	84355.2	488.8	ug/L	1.85	97.76	ug/L	0.369	0.38%
Be 313.107	67663.0	50.09	ug/L	0.250	10.02	ug/L	0.050	0.50%
Ca 315.887	822353.3	33300	ug/L	105.4	6661	ug/L	21.1	0.32%
Cd 214.440	10592.8	45.89	ug/L	0.173	9.177	ug/L	0.0346	0.38%
Co 228.616	16208.1	231.0	ug/L	0.96	46.20	ug/L	0.193	0.42%
Cr 267.716	28692.4	242.9	ug/L	0.64	48.58	ug/L	0.128	0.26%
Cu 327.393	62621.8	320.8	ug/L	3.76	64.15	ug/L	0.752	1.17%
Fe 273.955	29447.2	1087	ug/L	4.0	217.5	ug/L	0.80	0.37%
K 766.490	27864.6	7469	ug/L	30.5	1494	ug/L	6.1	0.41%
Mg 285.213	1561319.3	29130	ug/L	173.6	5826	ug/L	34.7	0.60%
Mn 257.610	47615.5	255.6	ug/L	1.59	51.12	ug/L	0.318	0.62%
Mo 202.031	7154.3	268.6	ug/L	1.12	53.71	ug/L	0.224	0.42%
Na 589.592	809011.6	57730	ug/L	404.7	11550	ug/L	80.9	0.70%
Ni 231.604	11584.6	235.1	ug/L	0.54	47.02	ug/L	0.108	0.23%
P 213.617	6165.5	1732	ug/L	6.4	346.4	ug/L	1.28	0.37%
Pb 220.353	2382.9	230.5	ug/L	0.69	46.10	ug/L	0.138	0.30%
Sb 206.836	1088.7	220.6	ug/L	1.30	44.12	ug/L	0.260	0.59%
Se 196.026	649.1	197.8	ug/L	0.84	39.55	ug/L	0.167	0.42%
Sn 189.927	8422.1	768.1	ug/L	2.59	153.6	ug/L	0.52	0.34%
Sr 421.552	627874.6	298.6	ug/L	2.33	59.71	ug/L	0.465	0.78%
Ti 337.279	30464.7	250.7	ug/L	1.75	50.15	ug/L	0.351	0.70%
Tl 190.801	2113.1	216.8	ug/L	0.62	43.36	ug/L	0.124	0.28%
V 292.402	39839.1	238.8	ug/L	1.22	47.76	ug/L	0.244	0.51%
Zn 206.200	190551.9	2576	ug/L	8.5	515.3	ug/L	1.71	0.33%

A.P.P.L. INC.
9
ICP SERIAL DILUTION

CLIENT SAMPLE NO.
HBGR-GW-01

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740
Matrix: WATER

Analysis Date: 08/13/08
Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Aluminum (Al)	2.498		11.57		NA		
Antimony (Sb)	-1.416		-1.679		NA		
Chromium (Cr)	0.097		0.451		NA		
Copper (Cu)	18.26		19.84		NA		
Lead (Pb)	1.147		-0.876		NA		
Zinc (Zn)	430.7		534.4		24.1		M

Comments:

08/13/08 12:10 AX82344W08

08/13/08 12:30 AX82344W08-1/5

08/13/08 12:35 AX82344W08-A

Sequence No.: 52
Sample ID: AX82344W08-1/5
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 106
Date Collected: 8/13/2008 12:30:55 PM
Data Type: Reprocessed on 8/13/2008 1:17:44 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: AX82344W08-1/5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	7.3	0.053	ug/L	0.7581	0.053	ug/L	0.7581	>999.9%
Al 308.215	53.1	11.57	ug/L	2.252	11.57	ug/L	2.252	19.47%
As 188.979	-18.3	-3.972	ug/L	0.6916	-3.972	ug/L	0.6916	17.41%
B	448.3	21.35	ug/L	0.751	21.35	ug/L	0.751	3.52%
Ba 233.527	10176.2	58.97	ug/L	0.955	58.97	ug/L	0.955	1.62%
Be 313.107	76.3	0.059	ug/L	0.0131	0.059	ug/L	0.0131	22.07%
Ca 315.887	51498.3	2086	ug/L	13.1	2086	ug/L	13.1	0.63%
Cd 214.440	-125.8	-0.438	ug/L	0.0775	-0.438	ug/L	0.0775	17.70%
Co 228.616	4.6	0.054	ug/L	0.3408	0.054	ug/L	0.3408	627.68%
Cr 267.716	60.7	0.451	ug/L	0.0543	0.451	ug/L	0.0543	12.03%
Cu 327.393	3870.7	19.84	ug/L	0.029	19.84	ug/L	0.029	0.15%
Fe 273.955	1031.3	39.23	ug/L	1.112	39.23	ug/L	1.112	2.83%
K 766.490	2584.1	690.9	ug/L	25.66	690.9	ug/L	25.66	3.71%
Mg 285.213	65736.6	1226	ug/L	8.7	1226	ug/L	8.7	0.71%
Mn 257.610	895.6	4.700	ug/L	0.1139	4.700	ug/L	0.1139	2.42%
Mo 202.031	10.3	0.387	ug/L	0.0495	0.387	ug/L	0.0495	12.77%
Na 589.592	119929.1	8560	ug/L	70.1	8560	ug/L	70.1	0.82%
Ni 231.604	29.8	0.594	ug/L	0.1432	0.594	ug/L	0.1432	24.10%
P 213.617	18.7	5.254	ug/L	1.6207	5.254	ug/L	1.6207	30.85%
Pb 220.353	-9.1	-0.876	ug/L	0.3901	-0.876	ug/L	0.3901	44.56%
Sb 206.836	-8.3	-1.679	ug/L	0.0627	-1.679	ug/L	0.0627	3.74%
Se 196.026	-6.1	-1.864	ug/L	0.4556	-1.864	ug/L	0.4556	24.44%
Sn 189.927	1422.1	129.2	ug/L	0.26	129.2	ug/L	0.26	0.20%
Sr 421.552	25898.3	12.31	ug/L	0.084	12.31	ug/L	0.084	0.69%
Ti 337.279	83.2	0.663	ug/L	0.1300	0.663	ug/L	0.1300	19.60%
Tl 190.801	-24.3	-2.331	ug/L	0.6576	-2.331	ug/L	0.6576	28.21%
V 292.402	61.4	0.368	ug/L	0.0545	0.368	ug/L	0.0545	14.81%
Zn 206.200	39551.4	534.4	ug/L	8.52	534.4	ug/L	8.52	1.59%

EPA 6010B
METALS

Soil
Sample & QC Data

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-01
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82321

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	6430	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.44 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	8.3 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.6 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	6.3 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	10.6 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 30
Sample ID: AX82321S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.91 g
Dilution:

Autosampler Location: 47
Date Collected: 8/20/2008 11:20:29 AM
Data Type: Reprocessed on 8/20/2008 3:02:56 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82321S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-4618.6	-19.76	ug/L	0.751	-0.434	mg/kg	0.0165	3.80%
Al 308.215	1337111.4	292600	ug/L	3157.4	6431	mg/kg	69.4	1.08%
As 188.979	9.9	2.699	ug/L	0.9590	0.059	mg/kg	0.0211	35.53%
B	6058.6	272.2	ug/L	4.92	5.982	mg/kg	0.1082	1.81%
Ba 233.527	374730.2	1901	ug/L	14.1	41.77	mg/kg	0.309	0.74%
Be 313.107	1479.4	11.82	ug/L	0.025	0.260	mg/kg	0.0006	0.22%
Ca 315.887	587617.5	21220	ug/L	209.8	466.5	mg/kg	4.61	0.99%
Cd 214.440	280.4	1.561	ug/L	0.0487	0.034	mg/kg	0.0011	3.12%
Co 228.616	6002.3	66.06	ug/L	0.425	1.452	mg/kg	0.0093	0.64%
Cr 267.716	48741.1	378.0	ug/L	3.83	8.308	mg/kg	0.0843	1.01%
Cu 327.393	24990.5	165.4	ug/L	1.22	3.636	mg/kg	0.0269	0.74%
Fe 273.955	6018259.3	211600	ug/L	1430.3	4650	mg/kg	31.4	0.68%
K 766.490	40730.7	10020	ug/L	128.2	220.2	mg/kg	2.82	1.28%
Mg 285.213	822976.7	13990	ug/L	138.8	307.5	mg/kg	3.05	0.99%
Mn 257.610	3040419.6	15690	ug/L	157.2	344.8	mg/kg	3.45	1.00%
Mo 202.031	401.5	13.93	ug/L	0.332	0.306	mg/kg	0.0073	2.38%
Na 589.592	64851.4	4910	ug/L	58.7	107.9	mg/kg	1.29	1.19%
Ni 231.604	6275.0	107.3	ug/L	0.68	2.359	mg/kg	0.0149	0.63%
P 213.617	40857.3	10590	ug/L	128.1	232.7	mg/kg	2.82	1.21%
Pb 220.353	3280.7	287.4	ug/L	0.92	6.317	mg/kg	0.0203	0.32%
Sb 206.836	90.4	19.95	ug/L	10.227	0.438	mg/kg	0.2248	51.26%
Se 196.026	102.3	28.92	ug/L	10.456	0.636	mg/kg	0.2298	36.16%
Sn 189.927	140.1	10.80	ug/L	4.029	0.237	mg/kg	0.0886	37.32%
Sr 421.552	304816.3	137.2	ug/L	1.29	3.015	mg/kg	0.0285	0.94%
Ti 337.279	452825.4	3327	ug/L	38.5	73.11	mg/kg	0.845	1.16%
Tl 190.801	-1320.2	13.91	ug/L	6.184	0.306	mg/kg	0.1359	44.45%
V 292.402	108432.5	658.1	ug/L	2.52	14.46	mg/kg	0.055	0.38%
Zn 206.200	41547.5	481.0	ug/L	5.97	10.57	mg/kg	0.131	1.24%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02A
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82322

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	6050	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.049 U J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	7.1 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.4 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	6.3 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	10.9 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 31
Sample ID: AX82322S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.96 g
Dilution:

Autosampler Location: 48
Date Collected: 8/20/2008 11:23:31 AM
Data Type: Reprocessed on 8/20/2008 3:02:58 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82322S01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-4246.3	-18.39	ug/L	0.325	-0.383	mg/kg	0.0068	1.76%
Al 308.215	1326644.4	290300	ug/L	1584.3	6049	mg/kg	33.0	0.55%
As 188.979	57.6	15.68	ug/L	0.359	0.327	mg/kg	0.0075	2.29%
B	5514.9	247.7	ug/L	2.37	5.161	mg/kg	0.0493	0.96%
Ba 233.527	413066.4	2112	ug/L	11.2	44.01	mg/kg	0.233	0.53%
Be 313.107	3415.1	11.02	ug/L	0.094	0.230	mg/kg	0.0020	0.85%
Ca 315.887	684691.9	24740	ug/L	122.5	515.5	mg/kg	2.55	0.49%
Cd 214.440	359.8	2.003	ug/L	0.0735	0.042	mg/kg	0.0015	3.67%
Co 228.616	6370.9	72.95	ug/L	0.253	1.520	mg/kg	0.0053	0.35%
Cr 267.716	44040.8	339.9	ug/L	2.67	7.080	mg/kg	0.0556	0.79%
Cu 327.393	25046.7	160.8	ug/L	0.37	3.350	mg/kg	0.0077	0.23%
Fe 273.955	5491097.1	193000	ug/L	2411.2	4022	mg/kg	50.2	1.25%
K 766.490	45925.0	11360	ug/L	48.3	236.6	mg/kg	1.01	0.43%
Mg 285.213	842467.7	14300	ug/L	58.5	297.9	mg/kg	1.22	0.41%
Mn 257.610	3338007.9	17220	ug/L	92.4	358.8	mg/kg	1.93	0.54%
Mo 202.031	384.0	13.32	ug/L	0.116	0.278	mg/kg	0.0024	0.87%
Na 589.592	46557.9	3465	ug/L	22.5	72.18	mg/kg	0.469	0.65%
Ni 231.604	6359.3	109.1	ug/L	0.29	2.272	mg/kg	0.0060	0.27%
P 213.617	43507.6	11270	ug/L	135.1	234.9	mg/kg	2.82	1.20%
Pb 220.353	3424.9	300.0	ug/L	2.18	6.251	mg/kg	0.0454	0.73%
Sb 206.836	-7.0	-1.534	ug/L	0.6011	-0.032	mg/kg	0.0125	39.18%
Se 196.026	73.9	20.88	ug/L	0.654	0.435	mg/kg	0.0136	3.13%
Sn 189.927	29.7	2.087	ug/L	0.5942	0.043	mg/kg	0.0124	28.47%
Sr 421.552	325941.7	146.7	ug/L	0.83	3.057	mg/kg	0.0174	0.57%
Ti 337.279	362717.3	2664	ug/L	19.5	55.51	mg/kg	0.407	0.73%
Tl 190.801	-1396.2	9.436	ug/L	2.0798	0.197	mg/kg	0.0433	22.04%
V 292.402	105995.7	643.3	ug/L	5.04	13.40	mg/kg	0.105	0.78%
Zn 206.200	44828.0	522.2	ug/L	6.42	10.88	mg/kg	0.134	1.23%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02B
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82323

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	5160	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.11 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	8.8 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.4 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	6.1 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	10.4 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 32
Sample ID: AX82323S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.01 g
Dilution:

Autosampler Location: 49
Date Collected: 8/20/2008 11:29:41 AM
Data Type: Reprocessed on 8/20/2008 3:02:59 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82323S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-3948.4	-18.07	ug/L	0.790	-0.358	mg/kg	0.0157	4.38%
Al 308.215	1189840.0	260400	ug/L	3000.7	5156	mg/kg	59.4	1.15%
As 188.979	271.3	73.93	ug/L	0.224	1.464	mg/kg	0.0044	0.30%
B	6670.8	299.7	ug/L	1.92	5.934	mg/kg	0.0380	0.64%
Ba 233.527	423340.5	2144	ug/L	29.2	42.45	mg/kg	0.579	1.36%
Be 313.107	7511.6	11.50	ug/L	0.022	0.228	mg/kg	0.0004	0.19%
Ca 315.887	690249.4	24930	ug/L	321.8	493.7	mg/kg	6.37	1.29%
Cd 214.440	355.5	1.979	ug/L	0.2066	0.039	mg/kg	0.0041	10.44%
Co 228.616	6292.7	72.41	ug/L	0.472	1.434	mg/kg	0.0094	0.65%
Cr 267.716	57188.0	444.4	ug/L	6.08	8.800	mg/kg	0.1204	1.37%
Cu 327.393	24659.6	170.0	ug/L	0.07	3.367	mg/kg	0.0013	0.04%
Fe 273.955	7041721.1	247600	ug/L	824.1	4902	mg/kg	16.3	0.33%
K 766.490	42203.6	10370	ug/L	59.3	205.3	mg/kg	1.17	0.57%
Mg 285.213	737105.1	12600	ug/L	142.7	249.5	mg/kg	2.83	1.13%
Mn 257.610	3353301.6	17300	ug/L	214.8	342.7	mg/kg	4.25	1.24%
Mo 202.031	494.6	17.16	ug/L	0.318	0.340	mg/kg	0.0063	1.85%
Na 589.592	70542.6	5369	ug/L	59.3	106.3	mg/kg	1.17	1.10%
Ni 231.604	5789.2	97.73	ug/L	0.824	1.935	mg/kg	0.0163	0.84%
P 213.617	45982.4	11920	ug/L	205.7	235.9	mg/kg	4.07	1.73%
Pb 220.353	3519.3	308.3	ug/L	3.09	6.105	mg/kg	0.0613	1.00%
Sb 206.836	25.2	5.563	ug/L	5.0900	0.110	mg/kg	0.1008	91.49%
Se 196.026	79.1	22.35	ug/L	5.307	0.443	mg/kg	0.1051	23.75%
Sn 189.927	99.5	3.301	ug/L	1.1060	0.065	mg/kg	0.0219	33.51%
Sr 421.552	309246.3	139.1	ug/L	1.61	2.754	mg/kg	0.0318	1.16%
Ti 337.279	263102.1	1932	ug/L	5.1	38.27	mg/kg	0.101	0.26%
Tl 190.801	-1353.1	7.949	ug/L	1.6529	0.157	mg/kg	0.0327	20.80%
V 292.402	122922.0	746.0	ug/L	4.34	14.77	mg/kg	0.086	0.58%
Zn 206.200	45275.2	522.5	ug/L	10.89	10.35	mg/kg	0.216	2.08%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-02C
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82324

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	6300	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.11 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	7.9 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.3 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	6.3 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	12.2 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 35
Sample ID: AX82324S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.91 g
Dilution:

Autosampler Location: 50
Date Collected: 8/20/2008 11:43:34 AM
Data Type: Reprocessed on 8/20/2008 3:03:03 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82324S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-4238.0	-18.16	ug/L	0.679	-0.399	mg/kg	0.0149	3.74%
Al 308.215	1308849.8	286400	ug/L	3056.8	6295	mg/kg	67.2	1.07%
As 188.979	-86.1	-23.46	ug/L	6.132	-0.516	mg/kg	0.1348	26.14%
B	5546.3	249.2	ug/L	0.71	5.476	mg/kg	0.0156	0.29%
Ba 233.527	392794.6	2007	ug/L	4.3	44.10	mg/kg	0.095	0.21%
Be 313.107	-1696.2	10.61	ug/L	0.159	0.233	mg/kg	0.0035	1.50%
Ca 315.887	647955.2	23410	ug/L	233.4	514.6	mg/kg	5.13	1.00%
Cd 214.440	405.1	2.255	ug/L	0.0844	0.050	mg/kg	0.0019	3.74%
Co 228.616	6274.8	69.62	ug/L	0.718	1.530	mg/kg	0.0158	1.03%
Cr 267.716	46609.3	360.9	ug/L	2.13	7.932	mg/kg	0.0467	0.59%
Cu 327.393	23046.5	151.0	ug/L	0.88	3.318	mg/kg	0.0193	0.58%
Fe 273.955	5350676.7	188100	ug/L	592.4	4134	mg/kg	13.0	0.31%
K 766.490	44128.2	10910	ug/L	15.5	239.7	mg/kg	0.34	0.14%
Mg 285.213	835214.3	14170	ug/L	140.1	311.4	mg/kg	3.08	0.99%
Mn 257.610	3055334.2	15760	ug/L	167.2	346.5	mg/kg	3.68	1.06%
Mo 202.031	360.1	12.50	ug/L	0.016	0.275	mg/kg	0.0004	0.13%
Na 589.592	61050.1	4616	ug/L	11.4	101.5	mg/kg	0.25	0.25%
Ni 231.604	6511.5	112.2	ug/L	1.62	2.466	mg/kg	0.0356	1.44%
P 213.617	43352.6	11230	ug/L	19.8	246.9	mg/kg	0.44	0.18%
Pb 220.353	3270.3	286.5	ug/L	1.43	6.297	mg/kg	0.0315	0.50%
Sb 206.836	22.0	4.856	ug/L	17.1447	0.107	mg/kg	0.3768	353.07%
Se 196.026	46.2	13.06	ug/L	6.976	0.287	mg/kg	0.1533	53.40%
Sn 189.927	125.9	11.68	ug/L	5.264	0.257	mg/kg	0.1157	45.05%
Sr 421.552	309819.1	139.5	ug/L	1.56	3.065	mg/kg	0.0343	1.12%
Ti 337.279	494754.0	3635	ug/L	39.0	79.88	mg/kg	0.857	1.07%
Tl 190.801	-1433.5	6.072	ug/L	3.1334	0.133	mg/kg	0.0689	51.61%
V 292.402	102584.1	622.6	ug/L	2.67	13.68	mg/kg	0.059	0.43%
Zn 206.200	47560.1	556.1	ug/L	2.10	12.22	mg/kg	0.046	0.38%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS01-DU1-SS-02-03
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82325

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	6020 J	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.072 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	8.6 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.5 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	8.4 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	10.9 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 36
Sample ID: AX82325S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.97 g
Dilution:

Autosampler Location: 51
Date Collected: 8/20/2008 11:48:41 AM
Data Type: Reprocessed on 8/20/2008 3:03:04 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82325S01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-4603.5	-20.95	ug/L	1.529	-0.432	mg/kg	0.0315	7.30%
Al 308.215	1334639.8	292100	ug/L	1197.4	6022	mg/kg	24.7	0.41%
As 188.979	164.7	44.88	ug/L	0.683	0.925	mg/kg	0.0141	1.52%
B	6651.1	298.8	ug/L	0.62	6.161	mg/kg	0.0127	0.21%
Ba 233.527	453942.6	2312	ug/L	52.7	47.67	mg/kg	1.086	2.28%
Be 313.107	7836.3	12.92	ug/L	0.135	0.266	mg/kg	0.0028	1.05%
Ca 315.887	677203.3	24460	ug/L	151.2	504.4	mg/kg	3.12	0.62%
Cd 214.440	487.5	2.714	ug/L	0.1690	0.056	mg/kg	0.0035	6.23%
Co 228.616	6772.5	78.13	ug/L	0.270	1.611	mg/kg	0.0056	0.35%
Cr 267.716	54085.9	419.1	ug/L	8.34	8.642	mg/kg	0.1720	1.99%
Cu 327.393	25436.4	170.9	ug/L	0.57	3.524	mg/kg	0.0117	0.33%
Fe 273.955	6674839.4	234700	ug/L	1040.7	4838	mg/kg	21.5	0.44%
K 766.490	38597.2	9455	ug/L	68.8	194.9	mg/kg	1.42	0.73%
Mg 285.213	804794.6	13720	ug/L	52.2	282.8	mg/kg	1.08	0.38%
Mn 257.610	3551526.8	18330	ug/L	91.8	377.8	mg/kg	1.89	0.50%
Mo 202.031	449.4	15.59	ug/L	0.097	0.321	mg/kg	0.0020	0.62%
Na 589.592	49422.0	3683	ug/L	14.7	75.94	mg/kg	0.303	0.40%
Ni 231.604	6582.4	112.3	ug/L	1.55	2.315	mg/kg	0.0319	1.38%
P 213.617	48383.7	12540	ug/L	331.1	258.5	mg/kg	6.83	2.64%
Pb 220.353	4632.5	405.9	ug/L	4.09	8.368	mg/kg	0.0844	1.01%
Sb 206.836	15.9	3.510	ug/L	4.4799	0.072	mg/kg	0.0924	127.63%
Se 196.026	70.8	20.01	ug/L	1.122	0.413	mg/kg	0.0231	5.61%
Sn 189.927	55.6	1.270	ug/L	1.4434	0.026	mg/kg	0.0298	113.61%
Sr 421.552	317672.9	142.9	ug/L	0.63	2.947	mg/kg	0.0130	0.44%
Ti 337.279	313523.0	2303	ug/L	13.3	47.48	mg/kg	0.274	0.58%
Tl 190.801	-1460.4	7.777	ug/L	1.7881	0.160	mg/kg	0.0369	22.99%
V 292.402	123007.8	746.5	ug/L	11.55	15.39	mg/kg	0.238	1.55%
Zn 206.200	45599.6	527.6	ug/L	16.61	10.88	mg/kg	0.342	3.15%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS02-DU2-SS-02-01
Sample Collection Date: 08/05/08

ARF: 56740
APPL ID: AX82326

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	4400	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.11 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	4.5 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	1.9 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	5.4 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	3.8 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 41
Sample ID: AX82326S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 56
Date Collected: 8/20/2008 12:17:24 PM
Data Type: Reprocessed on 8/20/2008 3:03:11 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82326S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-5456.6	-20.48	ug/L	1.771	-0.390	mg/kg	0.0337	8.65%
Al 308.215	1056248.5	231200	ug/L	1780.3	4403	mg/kg	33.9	0.77%
As 188.979	-618.9	-168.6	ug/L	3.56	-3.212	mg/kg	0.0678	2.11%
B	3453.3	155.1	ug/L	2.13	2.955	mg/kg	0.0406	1.37%
Ba 233.527	197491.4	1001	ug/L	13.3	19.07	mg/kg	0.254	1.33%
Be 313.107	-21963.4	8.163	ug/L	0.0800	0.155	mg/kg	0.0015	0.98%
Ca 315.887	135611.5	4880	ug/L	68.8	92.96	mg/kg	1.310	1.41%
Cd 214.440	180.2	1.004	ug/L	0.0655	0.019	mg/kg	0.0012	6.53%
Co 228.616	2911.1	18.66	ug/L	0.100	0.355	mg/kg	0.0019	0.54%
Cr 267.716	29958.1	237.3	ug/L	0.96	4.520	mg/kg	0.0182	0.40%
Cu 327.393	14228.1	98.62	ug/L	0.435	1.878	mg/kg	0.0083	0.44%
Fe 273.955	3200735.8	112600	ug/L	1466.5	2144	mg/kg	27.9	1.30%
K 766.490	16037.0	3883	ug/L	96.6	73.97	mg/kg	1.840	2.49%
Mg 285.213	430727.7	7322	ug/L	61.4	139.5	mg/kg	1.17	0.84%
Mn 257.610	149186.6	774.3	ug/L	5.67	14.75	mg/kg	0.108	0.73%
Mo 202.031	223.3	7.749	ug/L	0.5101	0.148	mg/kg	0.0097	6.58%
Na 589.592	44329.4	3350	ug/L	26.2	63.81	mg/kg	0.499	0.78%
Ni 231.604	3305.5	56.76	ug/L	1.160	1.081	mg/kg	0.0221	2.04%
P 213.617	7738.9	2005	ug/L	13.8	38.20	mg/kg	0.263	0.69%
Pb 220.353	3222.6	282.3	ug/L	4.32	5.378	mg/kg	0.0823	1.53%
Sb 206.836	26.2	5.783	ug/L	21.4080	0.110	mg/kg	0.4078	370.16%
Se 196.026	32.3	9.123	ug/L	11.1284	0.174	mg/kg	0.2120	121.98%
Sn 189.927	227.6	27.07	ug/L	1.006	0.516	mg/kg	0.0192	3.72%
Sr 421.552	256998.9	115.8	ug/L	0.80	2.206	mg/kg	0.0153	0.69%
Ti 337.279	983569.4	7227	ug/L	63.9	137.7	mg/kg	1.22	0.88%
Tl 190.801	-927.7	-6.971	ug/L	1.3824	-0.133	mg/kg	0.0263	19.83%
V 292.402	72976.6	442.9	ug/L	5.08	8.436	mg/kg	0.0968	1.15%
Zn 206.200	17589.6	201.8	ug/L	2.57	3.844	mg/kg	0.0490	1.28%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS03-DU3-SS-02-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82327

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	4330	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.44 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	123 E	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	180 J	2.50	0.140	mg/kg	5	08/15/08	08/21/08
6010B/3050B	Copper (Cu)	3.1 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	6.7 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	4.5 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.
E = The reported value exceeds linear range.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 59
Sample ID: AX82327S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.07 g
Dilution:

Autosampler Location: 57
Date Collected: 8/20/2008 1:22:33 PM
Data Type: Reprocessed on 8/20/2008 3:03:34 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82327S01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	30650.7	-38.48	ug/L	1.228	-0.719	mg/kg	0.0230	3.19%
Al 308.215	1058308.1	231600	ug/L	1406.8	4329	mg/kg	26.3	0.61%
As 188.979	-423.4	-115.4	ug/L	3.35	-2.156	mg/kg	0.0626	2.91%
B	7798.0	350.3	ug/L	9.08	6.548	mg/kg	0.1697	2.59%
Ba 233.527	280123.8	1368	ug/L	5.2	25.56	mg/kg	0.097	0.38%
Be 313.107	-17178.3	8.044	ug/L	0.1084	0.150	mg/kg	0.0020	1.35%
Ca 315.887	120037.3	4263	ug/L	114.9	79.68	mg/kg	2.147	2.69%
Cd 214.440	-0.3	-0.002	ug/L	0.1957	0.000	mg/kg	0.0037	>999.9%
Co 228.616	5675.1	51.99	ug/L	2.265	0.972	mg/kg	0.0423	4.36%
Cr 267.716	831801.4	6579	ug/L	33.3	123.0	mg/kg	0.62	0.51%
Cu 327.393	20878.1	165.9	ug/L	0.77	3.101	mg/kg	0.0144	0.46%
Fe 273.955	8026430.8	282200	ug/L	2569.6	5275	mg/kg	48.0	0.91%
K 766.490	28027.4	6748	ug/L	114.6	126.1	mg/kg	2.14	1.70%
Mg 285.213	565664.3	9771	ug/L	60.2	182.6	mg/kg	1.13	0.62%
Mn 257.610	964305.0	4988	ug/L	31.7	93.24	mg/kg	0.592	0.63%
Mo 202.031	478.1	16.59	ug/L	0.688	0.310	mg/kg	0.0129	4.15%
Na 589.592	63428.1	4818	ug/L	68.5	90.06	mg/kg	1.281	1.42%
Ni 231.604	6380.2	109.9	ug/L	1.54	2.055	mg/kg	0.0289	1.41%
P 213.617	7143.6	1851	ug/L	23.5	34.60	mg/kg	0.438	1.27%
Pb 220.353	4093.9	358.7	ug/L	3.20	6.704	mg/kg	0.0598	0.89%
Sb 206.836	106.2	23.42	ug/L	17.514	0.438	mg/kg	0.3274	74.78%
Se 196.026	82.9	23.42	ug/L	13.502	0.438	mg/kg	0.2524	57.66%
Sn 189.927	351.4	26.45	ug/L	6.728	0.494	mg/kg	0.1257	25.43%
Sr 421.552	240995.3	108.3	ug/L	0.80	2.025	mg/kg	0.0150	0.74%
Ti 337.279	817042.6	6003	ug/L	29.1	112.2	mg/kg	0.54	0.49%
Tl 190.801	-979.1	4.125	ug/L	0.8032	0.077	mg/kg	0.0150	19.47%
V 292.402	115615.3	701.6	ug/L	4.07	13.11	mg/kg	0.076	0.58%
Zn 206.200	16468.4	241.0	ug/L	3.71	4.504	mg/kg	0.0694	1.54%

Sequence No.: 19
Sample ID: AX82327S01-1/5
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.07 g
Dilution: 5X

Autosampler Location: 44
Date Collected: 8/21/2008 11:03:35 AM
Data Type: Reprocessed on 8/21/2008 2:55:37 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82327S01-1/5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	8197.8	-12.23	ug/L	0.388	-1.143	mg/kg	0.0363	3.17%
Al 308.215	302324.5	70560	ug/L	402.1	6594	mg/kg	37.6	0.57%
As 188.979	-45.8	25.82	ug/L	1.158	2.413	mg/kg	0.1082	4.48%
B	2644.4	128.7	ug/L	1.25	12.03	mg/kg	0.117	0.97%
Ba 233.527	77689.5	405.2	ug/L	7.41	37.87	mg/kg	0.692	1.83%
Be 313.107	-4610.5	2.695	ug/L	0.0297	0.252	mg/kg	0.0028	1.10%
Ca 315.887	33761.6	1329	ug/L	15.2	124.2	mg/kg	1.42	1.14%
Cd 214.440	1264.3	-2.955	ug/L	0.2930	-0.276	mg/kg	0.0274	9.91%
Co 228.616	1616.1	15.85	ug/L	0.361	1.482	mg/kg	0.0338	2.28%
Cr 267.716	223190.6	1920	ug/L	31.2	179.5	mg/kg	2.91	1.62%
Cu 327.393	5576.3	49.19	ug/L	0.898	4.597	mg/kg	0.0839	1.82%
Fe 273.955	2439157.2	93100	ug/L	1544.8	8701	mg/kg	144.4	1.66%
K 766.490	8004.7	2107	ug/L	10.9	196.9	mg/kg	1.02	0.52%
Mg 285.213	163383.3	3045	ug/L	30.9	284.6	mg/kg	2.89	1.02%
Mn 257.610	274353.0	1544	ug/L	8.4	144.3	mg/kg	0.78	0.54%
Mo 202.031	147.2	5.550	ug/L	0.2520	0.519	mg/kg	0.0235	4.54%
Na 589.592	23964.4	2004	ug/L	26.2	187.3	mg/kg	2.45	1.31%
Ni 231.604	1864.9	35.13	ug/L	1.139	3.283	mg/kg	0.1065	3.24%
P 213.617	2020.0	585.1	ug/L	12.23	54.68	mg/kg	1.143	2.09%
Pb 220.353	1209.6	117.2	ug/L	2.55	10.95	mg/kg	0.238	2.18%
Sb 206.836	61.0	15.18	ug/L	3.111	1.419	mg/kg	0.2907	20.49%
Se 196.026	8.2	2.559	ug/L	1.1541	0.239	mg/kg	0.1079	45.10%
Sn 189.927	28.8	1.531	ug/L	0.7829	0.143	mg/kg	0.0732	51.12%
Sr 421.552	67333.9	32.55	ug/L	0.174	3.042	mg/kg	0.0163	0.53%
Ti 337.279	231941.2	1869	ug/L	5.6	174.7	mg/kg	0.52	0.30%
Tl 190.801	-272.6	1.771	ug/L	1.6413	0.165	mg/kg	0.1534	92.70%
V 292.402	31087.1	205.1	ug/L	3.28	19.17	mg/kg	0.307	1.60%
Zn 206.200	-7382.1	-159.7	ug/L	9.79	-14.92	mg/kg	0.915	6.13%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS04-DU4-SS-02-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82328

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	5130	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.19 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	7.8 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	3.8 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	9.2 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	5.8 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 60
Sample ID: AX82328S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.95 g
Dilution:

Autosampler Location: 58
Date Collected: 8/20/2008 1:27:49 PM
Data Type: Reprocessed on 8/20/2008 3:03:35 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82328S01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-6244.6	-26.21	ug/L	0.369	-0.552	mg/kg	0.0078	1.41%
Al 308.215	1112705.0	243500	ug/L	1424.8	5126	mg/kg	30.0	0.59%
As 188.979	-351.5	-95.78	ug/L	2.065	-2.016	mg/kg	0.0435	2.16%
B	5609.7	252.0	ug/L	1.82	5.306	mg/kg	0.0384	0.72%
Ba 233.527	357338.7	1814	ug/L	23.5	38.20	mg/kg	0.494	1.29%
Be 313.107	-10806.0	11.74	ug/L	0.232	0.247	mg/kg	0.0049	1.98%
Ca 315.887	230844.7	8310	ug/L	33.8	174.9	mg/kg	0.71	0.41%
Cd 214.440	-33.3	-0.185	ug/L	0.0810	-0.004	mg/kg	0.0017	43.74%
Co 228.616	9309.9	105.3	ug/L	0.47	2.217	mg/kg	0.0100	0.45%
Cr 267.716	47753.4	371.8	ug/L	2.16	7.828	mg/kg	0.0455	0.58%
Cu 327.393	27726.3	182.2	ug/L	0.36	3.835	mg/kg	0.0076	0.20%
Fe 273.955	5610454.0	197300	ug/L	2542.1	4153	mg/kg	53.5	1.29%
K 766.490	23866.5	5780	ug/L	44.6	121.7	mg/kg	0.94	0.77%
Mg 285.213	658037.9	11220	ug/L	50.0	236.2	mg/kg	1.05	0.45%
Mn 257.610	2450373.4	12650	ug/L	37.2	266.2	mg/kg	0.78	0.29%
Mo 202.031	376.2	13.05	ug/L	0.739	0.275	mg/kg	0.0156	5.66%
Na 589.592	45576.9	3420	ug/L	20.7	72.01	mg/kg	0.437	0.61%
Ni 231.604	5631.8	96.49	ug/L	0.963	2.031	mg/kg	0.0203	1.00%
P 213.617	7801.6	2022	ug/L	5.2	42.56	mg/kg	0.110	0.26%
Pb 220.353	4985.0	436.7	ug/L	2.06	9.194	mg/kg	0.0434	0.47%
Sb 206.836	40.3	8.893	ug/L	6.3283	0.187	mg/kg	0.1332	71.16%
Se 196.026	23.2	6.562	ug/L	4.1564	0.138	mg/kg	0.0875	63.34%
Sn 189.927	142.2	13.92	ug/L	4.532	0.293	mg/kg	0.0954	32.55%
Sr 421.552	298704.0	134.5	ug/L	1.13	2.832	mg/kg	0.0237	0.84%
Ti 337.279	808087.2	5937	ug/L	45.6	125.0	mg/kg	0.96	0.77%
Tl 190.801	-1409.8	11.18	ug/L	1.100	0.235	mg/kg	0.0232	9.83%
V 292.402	94090.6	571.0	ug/L	7.44	12.02	mg/kg	0.157	1.30%
Zn 206.200	24422.8	276.1	ug/L	1.77	5.813	mg/kg	0.0373	0.64%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS05-DU5-SS-02-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82329

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	4480	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.44 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	5.0 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	4.5 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	5.3 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	5.0 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 61
Sample ID: AX82329S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.04 g
Dilution:

Autosampler Location: 59
Date Collected: 8/20/2008 1:32:57 PM
Data Type: Reprocessed on 8/20/2008 3:03:37 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82329S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-6383.2	-26.05	ug/L	0.932	-0.501	mg/kg	0.0179	3.58%
Al 308.215	1064098.0	232900	ug/L	1470.6	4479	mg/kg	28.3	0.63%
As 188.979	-381.5	-103.9	ug/L	1.69	-1.999	mg/kg	0.0324	1.62%
B	4164.5	187.1	ug/L	1.19	3.598	mg/kg	0.0229	0.64%
Ba 233.527	214941.3	1080	ug/L	6.2	20.76	mg/kg	0.120	0.58%
Be 313.107	-11682.0	10.51	ug/L	0.298	0.202	mg/kg	0.0057	2.84%
Ca 315.887	127337.5	4574	ug/L	41.5	87.95	mg/kg	0.798	0.91%
Cd 214.440	0.3	0.002	ug/L	0.1534	0.000	mg/kg	0.0030	>999.9%
Co 228.616	3458.2	28.49	ug/L	0.799	0.548	mg/kg	0.0154	2.81%
Cr 267.716	32589.9	258.5	ug/L	3.17	4.970	mg/kg	0.0610	1.23%
Cu 327.393	39900.2	235.1	ug/L	0.42	4.522	mg/kg	0.0081	0.18%
Fe 273.955	4159183.2	146200	ug/L	754.1	2812	mg/kg	14.5	0.52%
K 766.490	18978.0	4594	ug/L	99.6	88.35	mg/kg	1.916	2.17%
Mg 285.213	572525.0	9732	ug/L	60.1	187.2	mg/kg	1.16	0.62%
Mn 257.610	122604.2	639.2	ug/L	4.52	12.29	mg/kg	0.087	0.71%
Mo 202.031	207.8	7.210	ug/L	0.1676	0.139	mg/kg	0.0032	2.32%
Na 589.592	38624.8	2889	ug/L	27.0	55.56	mg/kg	0.520	0.94%
Ni 231.604	4368.0	75.83	ug/L	1.520	1.458	mg/kg	0.0292	2.00%
P 213.617	7143.8	1851	ug/L	33.4	35.60	mg/kg	0.642	1.80%
Pb 220.353	3167.2	277.5	ug/L	7.88	5.336	mg/kg	0.1516	2.84%
Sb 206.836	102.6	22.63	ug/L	10.746	0.435	mg/kg	0.2067	47.48%
Se 196.026	65.4	18.47	ug/L	6.546	0.355	mg/kg	0.1259	35.44%
Sn 189.927	120.5	13.79	ug/L	1.929	0.265	mg/kg	0.0371	13.99%
Sr 421.552	222820.8	100.3	ug/L	0.71	1.930	mg/kg	0.0137	0.71%
Ti 337.279	782405.9	5749	ug/L	40.0	110.5	mg/kg	0.77	0.70%
Tl 190.801	-737.9	-3.735	ug/L	1.2866	-0.072	mg/kg	0.0247	34.44%
V 292.402	84737.4	514.3	ug/L	3.68	9.889	mg/kg	0.0707	0.72%
Zn 206.200	22783.2	260.7	ug/L	4.99	5.013	mg/kg	0.0960	1.92%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-MRS05-DU6-SS-02-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82330

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	2720	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.17 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	4.7 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	1.7 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	4.7 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	3.5 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 62
Sample ID: AX82330S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.07 g
Dilution:

Autosampler Location: 60
Date Collected: 8/20/2008 1:38:05 PM
Data Type: Reprocessed on 8/20/2008 3:03:38 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82330S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-5041.2	-23.47	ug/L	0.876	-0.439	mg/kg	0.0164	3.73%
Al 308.215	665801.1	145700	ug/L	1745.6	2724	mg/kg	32.6	1.20%
As 188.979	-177.7	-48.41	ug/L	2.894	-0.905	mg/kg	0.0541	5.98%
B	3119.7	140.1	ug/L	2.46	2.620	mg/kg	0.0461	1.76%
Ba 233.527	402177.8	2088	ug/L	17.0	39.03	mg/kg	0.317	0.81%
Be 313.107	-1551.4	10.84	ug/L	0.166	0.203	mg/kg	0.0031	1.53%
Ca 315.887	146259.9	5268	ug/L	77.4	98.46	mg/kg	1.446	1.47%
Cd 214.440	-36.8	-0.205	ug/L	0.0269	-0.004	mg/kg	0.0005	13.12%
Co 228.616	3644.5	36.91	ug/L	0.881	0.690	mg/kg	0.0165	2.39%
Cr 267.716	32088.5	252.3	ug/L	2.36	4.715	mg/kg	0.0441	0.93%
Cu 327.393	13561.6	93.34	ug/L	0.129	1.745	mg/kg	0.0024	0.14%
Fe 273.955	3286580.0	115500	ug/L	1022.2	2160	mg/kg	19.1	0.88%
K 766.490	12867.0	3102	ug/L	61.4	57.97	mg/kg	1.148	1.98%
Mg 285.213	391178.1	6668	ug/L	74.3	124.6	mg/kg	1.39	1.11%
Mn 257.610	872018.5	4502	ug/L	56.6	84.16	mg/kg	1.058	1.26%
Mo 202.031	220.0	7.633	ug/L	0.0637	0.143	mg/kg	0.0012	0.83%
Na 589.592	43419.2	3326	ug/L	31.7	62.17	mg/kg	0.592	0.95%
Ni 231.604	3229.8	55.63	ug/L	0.418	1.040	mg/kg	0.0078	0.75%
P 213.617	5766.2	1494	ug/L	25.0	27.93	mg/kg	0.468	1.67%
Pb 220.353	2876.8	252.0	ug/L	3.91	4.711	mg/kg	0.0730	1.55%
Sb 206.836	41.0	9.038	ug/L	4.8367	0.169	mg/kg	0.0904	53.51%
Se 196.026	30.3	8.572	ug/L	1.6804	0.160	mg/kg	0.0314	19.60%
Sn 189.927	158.0	14.66	ug/L	1.570	0.274	mg/kg	0.0293	10.71%
Sr 421.552	243680.6	109.8	ug/L	1.32	2.053	mg/kg	0.0246	1.20%
Ti 337.279	500918.0	3680	ug/L	39.7	68.79	mg/kg	0.742	1.08%
Tl 190.801	-764.0	-2.968	ug/L	1.9984	-0.055	mg/kg	0.0374	67.34%
V 292.402	74746.1	453.6	ug/L	3.08	8.479	mg/kg	0.0576	0.68%
Zn 206.200	16212.3	185.1	ug/L	3.76	3.459	mg/kg	0.0703	2.03%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-AOC-DU7-SS-02-01
Sample Collection Date: 08/05/08

ARF: 56740
APPL ID: AX82331

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	4110	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.22 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	4.5 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	2.0 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	4.9 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	4.3 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 63
Sample ID: AX82331S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1.05 g
Dilution:

Autosampler Location: 61
Date Collected: 8/20/2008 1:44:10 PM
Data Type: Reprocessed on 8/20/2008 3:03:39 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82331S01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-5131.5	-23.02	ug/L	0.901	-0.438	mg/kg	0.0172	3.91%
Al 308.215	985981.2	215800	ug/L	1560.0	4110	mg/kg	29.7	0.72%
As 188.979	-309.0	-84.19	ug/L	0.789	-1.604	mg/kg	0.0150	0.94%
B	3000.9	134.8	ug/L	1.94	2.568	mg/kg	0.0370	1.44%
Ba 233.527	260987.3	1342	ug/L	16.1	25.57	mg/kg	0.308	1.20%
Be 313.107	-8740.1	8.372	ug/L	0.1812	0.159	mg/kg	0.0035	2.16%
Ca 315.887	262304.2	9469	ug/L	62.5	180.4	mg/kg	1.19	0.66%
Cd 214.440	55.5	0.309	ug/L	0.0364	0.006	mg/kg	0.0007	11.77%
Co 228.616	3269.5	29.96	ug/L	0.612	0.571	mg/kg	0.0117	2.04%
Cr 267.716	30363.7	238.4	ug/L	3.01	4.542	mg/kg	0.0573	1.26%
Cu 327.393	16544.6	105.1	ug/L	0.56	2.002	mg/kg	0.0108	0.54%
Fe 273.955	2965216.0	104300	ug/L	1488.0	1986	mg/kg	28.3	1.43%
K 766.490	17758.1	4328	ug/L	34.7	82.44	mg/kg	0.661	0.80%
Mg 285.213	493359.3	8361	ug/L	53.7	159.3	mg/kg	1.02	0.64%
Mn 257.610	832109.1	4295	ug/L	29.7	81.82	mg/kg	0.566	0.69%
Mo 202.031	189.0	6.556	ug/L	0.1366	0.125	mg/kg	0.0026	2.08%
Na 589.592	51724.4	3945	ug/L	51.8	75.14	mg/kg	0.988	1.31%
Ni 231.604	3526.9	60.71	ug/L	1.273	1.156	mg/kg	0.0243	2.10%
P 213.617	7166.6	1857	ug/L	37.5	35.37	mg/kg	0.714	2.02%
Pb 220.353	2961.6	259.5	ug/L	4.39	4.942	mg/kg	0.0837	1.69%
Sb 206.836	52.6	11.60	ug/L	8.038	0.221	mg/kg	0.1531	69.32%
Se 196.026	27.4	7.755	ug/L	1.8892	0.148	mg/kg	0.0360	24.36%
Sn 189.927	145.2	16.70	ug/L	0.913	0.318	mg/kg	0.0174	5.47%
Sr 421.552	295256.6	133.1	ug/L	0.93	2.535	mg/kg	0.0177	0.70%
Ti 337.279	606622.6	4457	ug/L	27.7	84.89	mg/kg	0.527	0.62%
Tl 190.801	-837.7	-4.030	ug/L	2.0004	-0.077	mg/kg	0.0381	49.64%
V 292.402	68677.0	416.8	ug/L	3.46	7.939	mg/kg	0.0659	0.83%
Zn 206.200	19643.1	227.5	ug/L	5.77	4.333	mg/kg	0.1099	2.54%

Metals Analysis

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-RL-DU8-SS-02-01
Sample Collection Date: 08/04/08

ARF: 56740
APPL ID: AX82332

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Aluminum (Al)	3410	10.0	1.02	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Antimony (Sb)	0.29 J	0.20	0.049	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Chromium (Cr)	4.3 J	0.50	0.029	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Copper (Cu)	4.9 J	0.50	0.094	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Lead (Pb)	8.6 J	0.50	0.092	mg/kg	1	08/15/08	08/20/08
6010B/3050B	Zinc (Zn)	23.3 J	5.0	1.15	mg/kg	1	08/15/08	08/20/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 64
Sample ID: AX82332S01
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.93 g
Dilution:

Autosampler Location: 62
Date Collected: 8/20/2008 1:50:19 PM
Data Type: Reprocessed on 8/20/2008 3:03:41 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82332S01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-2799.7	-13.00	ug/L	0.912	-0.280	mg/kg	0.0196	7.01%
Al 308.215	725000.9	158700	ug/L	851.1	3412	mg/kg	18.3	0.54%
As 188.979	-49.9	-13.59	ug/L	0.585	-0.292	mg/kg	0.0126	4.31%
B	4082.9	183.4	ug/L	1.11	3.945	mg/kg	0.0239	0.61%
Ba 233.527	242964.6	1248	ug/L	4.0	26.84	mg/kg	0.086	0.32%
Be 313.107	-4822.7	3.995	ug/L	0.0490	0.086	mg/kg	0.0011	1.23%
Ca 315.887	3168713.8	114700	ug/L	536.3	2467	mg/kg	11.5	0.47%
Cd 214.440	677.0	3.769	ug/L	0.2116	0.081	mg/kg	0.0046	5.61%
Co 228.616	2568.4	25.65	ug/L	0.539	0.552	mg/kg	0.0116	2.10%
Cr 267.716	25659.9	200.3	ug/L	2.21	4.307	mg/kg	0.0475	1.10%
Cu 327.393	42451.6	227.8	ug/L	1.81	4.898	mg/kg	0.0389	0.79%
Fe 273.955	2883450.5	101400	ug/L	535.9	2180	mg/kg	11.5	0.53%
K 766.490	40756.5	10160	ug/L	74.6	218.5	mg/kg	1.60	0.73%
Mg 285.213	1025109.6	17250	ug/L	90.5	371.0	mg/kg	1.95	0.52%
Mn 257.610	919529.6	4743	ug/L	24.4	102.0	mg/kg	0.53	0.52%
Mo 202.031	255.8	8.876	ug/L	0.2762	0.191	mg/kg	0.0059	3.11%
Na 589.592	53146.4	4057	ug/L	26.2	87.26	mg/kg	0.563	0.64%
Ni 231.604	4366.8	76.63	ug/L	1.498	1.648	mg/kg	0.0322	1.95%
P 213.617	39396.3	10210	ug/L	126.7	219.5	mg/kg	2.72	1.24%
Pb 220.353	4584.8	401.7	ug/L	7.04	8.638	mg/kg	0.1515	1.75%
Sb 206.836	61.2	13.49	ug/L	0.911	0.290	mg/kg	0.0196	6.75%
Se 196.026	66.4	18.75	ug/L	3.017	0.403	mg/kg	0.0649	16.09%
Sn 189.927	-126.5	2.628	ug/L	2.5000	0.057	mg/kg	0.0538	95.14%
Sr 421.552	855678.9	385.6	ug/L	1.82	8.293	mg/kg	0.0391	0.47%
Ti 337.279	306193.7	2249	ug/L	11.3	48.36	mg/kg	0.244	0.50%
Tl 190.801	-624.4	-3.352	ug/L	1.6638	-0.072	mg/kg	0.0358	49.63%
V 292.402	53555.3	325.0	ug/L	0.68	6.990	mg/kg	0.0146	0.21%
Zn 206.200	90838.4	1084	ug/L	15.9	23.32	mg/kg	0.343	1.47%

6010B/3050BL

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 56740
Matrix: SOIL
Blank ID: 080815A-BLK

SDG No: 56740
Date Analyzed: 08/20/08
Instrument: Phoebe
Time Analyzed: 1103

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AX82328	HBGR-MRS04-DU4-SS-02-01	080820A	08/20/08 1327
AX82327	HBGR-MRS03-DU3-SS-02-01	080820A	08/20/08 1322
AX82326	HBGR-MRS02-DU2-SS-02-01	080820A	08/20/08 1217
AX82325	HBGR-MRS01-DU1-SS-02-03	080820A	08/20/08 1148
AX82324	HBGR-MRS01-DU1-SS-02-02C	080820A	08/20/08 1143
AX82329	HBGR-MRS05-DU5-SS-02-01	080820A	08/20/08 1332
AX82322	HBGR-MRS01-DU1-SS-02-02A	080820A	08/20/08 1123
080815A-LCS	Lab Control Spike	080820A	08/20/08 1308
AX82323	HBGR-MRS01-DU1-SS-02-02B	080820A	08/20/08 1129
AX82330	HBGR-MRS05-DU6-SS-02-01	080820A	08/20/08 1338
AX82331	HBGR-AOC-DU7-SS-02-01	080820A	08/20/08 1344
AX82332	HBGR-RL-DU8-SS-02-01	080820A	08/20/08 1350
AX82321	HBGR-MRS01-DU1-SS-02-01	080820A	08/20/08 1120
080815A-BLK	Blank	080820A	08/20/08 1103
080815A-LCSD	Lab Control SpikeD	080820A	08/20/08 1311
080815A-MS	Matrix Spike	080820A	08/20/08 1154
080815A-MSD	Matrix SpikeD	080820A	08/20/08 1200
AX82327	HBGR-MRS03-DU3-SS-02-01	080821A	08/21/08 1103

Comments: Batch: $61PS-080815A

METALS BLANK

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Analyte	Result	RL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	Aluminum (Al)	1.02 U	10.0	1.02	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325
6010B	Antimony (Sb)	0.065 J	0.20	0.049	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325
6010B	Chromium (Cr)	0.029 U	0.50	0.029	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325
6010B	Copper (Cu)	0.094 U	0.50	0.094	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325
6010B	Lead (Pb)	0.092 U	0.50	0.092	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325
6010B	Zinc (Zn)	1.6 J	5.0	1.15	mg/kg	08/15/08	08/20/08	$61PS-080815A-AX82325

J = Estimated value.

Sequence No.: 27
Sample ID: 080815A-3050LL-BLK
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1 g
Dilution:

Autosampler Location: 44
Date Collected: 8/20/2008 11:03:40 AM
Data Type: Reprocessed on 8/20/2008 3:02:53 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: 080815A-3050LL-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	167.9	0.902	ug/L	0.1086	0.018	mg/kg	0.0022	12.04%
Al 308.215	39.7	8.638	ug/L	1.3927	0.173	mg/kg	0.0279	16.12%
As 188.979	0.7	0.188	ug/L	0.6387	0.004	mg/kg	0.0128	340.12%
B	221.7	9.959	ug/L	0.2628	0.199	mg/kg	0.0053	2.64%
Ba 233.527	98.4	0.515	ug/L	0.0450	0.010	mg/kg	0.0009	8.73%
Be 313.107	361.8	0.257	ug/L	0.0080	0.005	mg/kg	0.0002	3.13%
Ca 315.887	2331.1	84.39	ug/L	0.292	1.688	mg/kg	0.0058	0.35%
Cd 214.440	-229.1	-1.276	ug/L	0.0137	-0.026	mg/kg	0.0003	1.08%
Co 228.616	6.5	0.084	ug/L	0.1606	0.002	mg/kg	0.0032	191.64%
Cr 267.716	94.0	0.740	ug/L	0.1163	0.015	mg/kg	0.0023	15.72%
Cu 327.393	586.3	2.995	ug/L	0.9738	0.060	mg/kg	0.0195	32.52%
Fe 273.955	475.0	16.75	ug/L	0.279	0.335	mg/kg	0.0056	1.67%
K 766.490	53.5	13.41	ug/L	6.807	0.268	mg/kg	0.1361	50.77%
Mg 285.213	2874.1	48.07	ug/L	0.122	0.961	mg/kg	0.0024	0.25%
Mn 257.610	158.7	0.813	ug/L	0.0061	0.016	mg/kg	0.0001	0.76%
Mo 202.031	23.2	0.804	ug/L	0.0199	0.016	mg/kg	0.0004	2.47%
Na 589.592	2014.7	159.5	ug/L	10.62	3.190	mg/kg	0.2124	6.66%
Ni 231.604	36.2	0.676	ug/L	0.1563	0.014	mg/kg	0.0031	23.14%
P 213.617	2.9	0.739	ug/L	1.0539	0.015	mg/kg	0.0211	142.69%
Pb 220.353	19.0	1.666	ug/L	0.3211	0.033	mg/kg	0.0064	19.27%
Sb 206.836	14.7	3.253	ug/L	0.7631	0.065	mg/kg	0.0153	23.46%
Se 196.026	7.6	2.143	ug/L	0.7756	0.043	mg/kg	0.0155	36.19%
Sn 189.927	215.1	17.80	ug/L	1.391	0.356	mg/kg	0.0278	7.81%
Sr 421.552	301.7	0.136	ug/L	0.0709	0.003	mg/kg	0.0014	52.25%
Ti 337.279	263.2	1.934	ug/L	0.0983	0.039	mg/kg	0.0020	5.08%
Tl 190.801	-70.4	-6.845	ug/L	0.3919	-0.137	mg/kg	0.0078	5.72%
V 292.402	-33.8	-0.205	ug/L	0.0162	-0.004	mg/kg	0.0003	7.90%
Zn 206.200	6416.0	77.50	ug/L	1.205	1.550	mg/kg	0.0241	1.55%

Laboratory Control Spike Recoveries

METALS

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Lvl mg/kg	SPK Res mg/kg	DUP Res mg/kg	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010B	Aluminum (Al)	200	211	217	106	109	2.8	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325
EPA 6010B	Antimony (Sb)	25.0	27.6	28.6	110	114	3.6	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325
EPA 6010B	Chromium (Cr)	25.0	28.9	29.7	116	119	2.7	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325
EPA 6010B	Copper (Cu)	25.0	26.5	27.6	106	110	4.1	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325
EPA 6010B	Lead (Pb)	25.0	27.4	28.3	110	113	3.2	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325
EPA 6010B	Zinc (Zn)	50.0	56.4	57.8	113	116	2.5	20	80-120	08/15/08	08/20/08	08/15/08	08/20/08	$61PS-080815A-AX82325

Comments: _____

Printed: 8/20/08 3:30:44 PM
APPL Standard LCSD

Sequence No.: 55
Sample ID: 080815A-3050LL-LCS
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1 g
Dilution: 5X

Autosampler Location: 45
Date Collected: 8/20/2008 1:08:13 PM
Data Type: Reprocessed on 8/20/2008 3:03:29 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: 080815A-3050LL-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	20748.9	106.2	ug/L	0.31	10.62	mg/kg	0.031	0.29%
Al 308.215	9695.0	2114	ug/L	11.2	211.4	mg/kg	1.12	0.53%
As 188.979	959.2	261.3	ug/L	0.93	26.13	mg/kg	0.093	0.36%
B	5481.5	246.3	ug/L	2.30	24.63	mg/kg	0.230	0.94%
Ba 233.527	53527.3	284.3	ug/L	2.48	28.43	mg/kg	0.248	0.87%
Be 313.107	75554.4	53.23	ug/L	0.496	5.323	mg/kg	0.0496	0.93%
Ca 315.887	749940.9	27150	ug/L	361.2	2715	mg/kg	36.1	1.33%
Cd 214.440	9973.6	55.53	ug/L	0.565	5.553	mg/kg	0.0565	1.02%
Co 228.616	21176.4	284.2	ug/L	2.25	28.42	mg/kg	0.225	0.79%
Cr 267.716	36641.5	289.3	ug/L	2.32	28.93	mg/kg	0.232	0.80%
Cu 327.393	52503.9	265.4	ug/L	1.58	26.54	mg/kg	0.158	0.59%
Fe 273.955	35045.4	1204	ug/L	18.3	120.4	mg/kg	1.83	1.52%
K 766.490	20781.3	5244	ug/L	6.0	524.4	mg/kg	0.60	0.11%
Mg 285.213	1618868.3	27070	ug/L	322.9	2707	mg/kg	32.3	1.19%
Mn 257.610	52574.4	268.6	ug/L	2.79	26.86	mg/kg	0.279	1.04%
Mo 202.031	8867.6	307.7	ug/L	0.27	30.77	mg/kg	0.027	0.09%
Na 589.592	345381.9	27330	ug/L	254.0	2733	mg/kg	25.4	0.93%
Ni 231.604	15032.7	278.2	ug/L	2.38	27.82	mg/kg	0.238	0.85%
P 213.617	7993.5	2071	ug/L	5.8	207.1	mg/kg	0.58	0.28%
Pb 220.353	3128.3	274.1	ug/L	1.75	27.41	mg/kg	0.175	0.64%
Sb 206.836	1250.2	275.8	ug/L	4.37	27.58	mg/kg	0.437	1.58%
Se 196.026	852.9	241.0	ug/L	0.74	24.10	mg/kg	0.074	0.31%
Sn 189.927	3529.1	295.4	ug/L	1.24	29.54	mg/kg	0.124	0.42%
Sr 421.552	586020.5	264.5	ug/L	3.29	26.45	mg/kg	0.329	1.24%
Ti 337.279	37943.4	278.4	ug/L	3.29	27.84	mg/kg	0.329	1.18%
Tl 190.801	2768.0	275.6	ug/L	0.80	27.56	mg/kg	0.080	0.29%
V 292.402	46955.1	285.0	ug/L	2.35	28.50	mg/kg	0.235	0.82%
Zn 206.200	46547.1	564.4	ug/L	6.09	56.44	mg/kg	0.609	1.08%

Sequence No.: 56
Sample ID: 080815A-3050LL-LCSD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 1 g
Dilution: 5X

Autosampler Location: 46
Date Collected: 8/20/2008 1:11:35 PM
Data Type: Reprocessed on 8/20/2008 3:03:30 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: 080815A-3050LL-LCSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	21282.8	108.9	ug/L	0.51	10.89	mg/kg	0.051	0.47%
Al 308.215	9944.7	2168	ug/L	10.5	216.8	mg/kg	1.05	0.48%
As 188.979	987.7	269.1	ug/L	1.66	26.91	mg/kg	0.166	0.62%
B	5661.8	254.4	ug/L	0.86	25.44	mg/kg	0.086	0.34%
Ba 233.527	54911.0	291.7	ug/L	2.59	29.17	mg/kg	0.259	0.89%
Be 313.107	78086.9	55.01	ug/L	0.268	5.501	mg/kg	0.0268	0.49%
Ca 315.887	762455.6	27600	ug/L	117.6	2760	mg/kg	11.8	0.43%
Cd 214.440	10154.2	56.53	ug/L	0.633	5.653	mg/kg	0.0633	1.12%
Co 228.616	21770.3	292.2	ug/L	2.00	29.22	mg/kg	0.200	0.69%
Cr 267.716	37609.4	297.0	ug/L	2.67	29.70	mg/kg	0.267	0.90%
Cu 327.393	54599.3	276.1	ug/L	1.92	27.61	mg/kg	0.192	0.70%
Fe 273.955	34517.3	1185	ug/L	7.2	118.5	mg/kg	0.72	0.61%
K 766.490	21359.0	5390	ug/L	31.4	539.0	mg/kg	3.14	0.58%
Mg 285.213	1648768.8	27570	ug/L	67.1	2757	mg/kg	6.7	0.24%
Mn 257.610	54153.9	276.7	ug/L	1.57	27.67	mg/kg	0.157	0.57%
Mo 202.031	9178.6	318.5	ug/L	1.57	31.85	mg/kg	0.157	0.49%
Na 589.592	353891.0	28000	ug/L	134.7	2800	mg/kg	13.5	0.48%
Ni 231.604	15316.1	283.5	ug/L	1.33	28.35	mg/kg	0.133	0.47%
P 213.617	8235.9	2134	ug/L	10.3	213.4	mg/kg	1.03	0.48%
Pb 220.353	3229.4	282.9	ug/L	1.27	28.29	mg/kg	0.127	0.45%
Sb 206.836	1296.3	285.9	ug/L	2.47	28.59	mg/kg	0.247	0.86%
Se 196.026	885.1	250.1	ug/L	2.37	25.01	mg/kg	0.237	0.95%
Sn 189.927	3580.5	299.8	ug/L	1.07	29.98	mg/kg	0.107	0.36%
Sr 421.552	597029.7	269.5	ug/L	0.64	26.95	mg/kg	0.064	0.24%
Ti 337.279	38747.8	284.3	ug/L	1.05	28.43	mg/kg	0.105	0.37%
Tl 190.801	2872.9	286.0	ug/L	0.60	28.60	mg/kg	0.060	0.21%
V 292.402	48472.9	294.2	ug/L	2.62	29.42	mg/kg	0.262	0.89%
Zn 206.200	47681.0	578.2	ug/L	5.34	57.82	mg/kg	0.534	0.92%

Matrix Spike Recoveries

METALS

APPL ID: **080815S-82325 MS - 125247**

Sample ID: AX82325

Client ID: HBGR-MRS01-DU1-SS-02-03

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Method	Compound Name	Spike Lvl mg/kg	Matrix Res mg/kg	SPK Res mg/kg	DUP Res mg/kg	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 6010B	Aluminum (Al)	426	6020	9060	9210	714 #	749 #	1.6	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325
EPA 6010B	Antimony (Sb)	53.2	0.072	34.0	32.2	63.8 #	60.4 #	5.4	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325
EPA 6010B	Chromium (Cr)	53.2	8.6	44.7	46.0	67.9 #	70.3 #	2.9	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325
EPA 6010B	Copper (Cu)	53.2	3.5	44.7	46.1	77.4 #	80.1	3.1	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325
EPA 6010B	Lead (Pb)	53.2	8.4	40.1	41.0	59.6 #	61.3 #	2.2	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325
EPA 6010B	Zinc (Zn)	106	10.9	76.4	77.6	61.8 #	62.9 #	1.6	20	80-120	8/15/08	8/20/08	8/15/08	8/20/08	125247	AX82325

= Recovery is outside QC limits.

Comments:

Printed: 8/20/08 3:30:35 PM
APPL MSD SCII

Sequence No.: 37
Sample ID: AX82325S01-MS
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.94 g
Dilution:

Autosampler Location: 52
Date Collected: 8/20/2008 11:54:48 AM
Data Type: Reprocessed on 8/20/2008 3:03:06 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82325S01-MS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	136329.3	707.9	ug/L	8.12	15.06	mg/kg	0.173	1.15%
Al 308.215	1946052.8	425900	ug/L	3818.8	9061	mg/kg	81.3	0.90%
As 188.979	6048.7	1648	ug/L	21.5	35.06	mg/kg	0.458	1.31%
B	41117.5	1847	ug/L	7.4	39.30	mg/kg	0.158	0.40%
Ba 233.527	688949.2	3581	ug/L	32.3	76.20	mg/kg	0.688	0.90%
Be 313.107	512761.7	372.8	ug/L	4.76	7.932	mg/kg	0.1012	1.28%
Ca 315.887	5589770.7	202300	ug/L	1343.3	4305	mg/kg	28.6	0.66%
Cd 214.440	57571.8	320.5	ug/L	2.56	6.820	mg/kg	0.0545	0.80%
Co 228.616	131675.3	1751	ug/L	16.8	37.26	mg/kg	0.358	0.96%
Cr 267.716	266929.1	2100	ug/L	17.8	44.67	mg/kg	0.379	0.85%
Cu 327.393	409214.5	2102	ug/L	12.7	44.72	mg/kg	0.271	0.61%
Fe 273.955	5448309.3	191400	ug/L	1546.3	4072	mg/kg	32.9	0.81%
K 766.490	205457.3	51600	ug/L	500.3	1098	mg/kg	10.6	0.97%
Mg 285.213	11852793.2	198400	ug/L	1031.9	4222	mg/kg	22.0	0.52%
Mn 257.610	3426442.5	17660	ug/L	172.6	375.7	mg/kg	3.67	0.98%
Mo 202.031	53138.1	1844	ug/L	14.8	39.23	mg/kg	0.314	0.80%
Na 589.592	2524302.4	199500	ug/L	1414.5	4244	mg/kg	30.1	0.71%
Ni 231.604	95208.3	1753	ug/L	16.9	37.29	mg/kg	0.359	0.96%
P 213.617	85512.3	22160	ug/L	317.8	471.5	mg/kg	6.76	1.43%
Pb 220.353	21521.1	1885	ug/L	13.4	40.12	mg/kg	0.286	0.71%
Sb 206.836	7251.9	1600	ug/L	24.4	34.04	mg/kg	0.519	1.52%
Se 196.026	5796.5	1638	ug/L	28.6	34.85	mg/kg	0.608	1.74%
Sn 189.927	20106.4	1689	ug/L	19.2	35.94	mg/kg	0.408	1.14%
Sr 421.552	4545649.0	2051	ug/L	10.0	43.64	mg/kg	0.212	0.49%
Ti 337.279	741792.4	5447	ug/L	77.4	115.9	mg/kg	1.65	1.42%
Tl 190.801	14000.7	1550	ug/L	9.0	32.97	mg/kg	0.192	0.58%
V 292.402	402959.2	2445	ug/L	20.7	52.03	mg/kg	0.441	0.85%
Zn 206.200	297589.2	3589	ug/L	37.6	76.36	mg/kg	0.799	1.05%

Sequence No.: 38
Sample ID: AX82325S01-MSD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.94 g
Dilution:

Autosampler Location: 53
Date Collected: 8/20/2008 12:00:03 PM
Data Type: Reprocessed on 8/20/2008 3:03:07 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82325S01-MSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	138787.4	720.0	ug/L	9.41	15.32	mg/kg	0.200	1.31%
Al 308.215	1977142.2	432700	ug/L	2459.6	9205	mg/kg	52.3	0.57%
As 188.979	6299.2	1716	ug/L	34.8	36.52	mg/kg	0.740	2.03%
B	42378.7	1904	ug/L	11.9	40.51	mg/kg	0.253	0.62%
Ba 233.527	699762.1	3626	ug/L	2.0	77.15	mg/kg	0.042	0.05%
Be 313.107	526362.6	379.1	ug/L	2.89	8.066	mg/kg	0.0616	0.76%
Ca 315.887	5780554.2	209200	ug/L	711.5	4451	mg/kg	15.1	0.34%
Cd 214.440	57936.5	322.6	ug/L	5.68	6.863	mg/kg	0.1208	1.76%
Co 228.616	133389.1	1776	ug/L	24.1	37.78	mg/kg	0.512	1.36%
Cr 267.716	274769.8	2162	ug/L	1.9	46.00	mg/kg	0.041	0.09%
Cu 327.393	421209.7	2167	ug/L	11.2	46.11	mg/kg	0.238	0.52%
Fe 273.955	6294142.5	221100	ug/L	370.8	4704	mg/kg	7.9	0.17%
K 766.490	208975.1	52460	ug/L	551.3	1116	mg/kg	11.7	1.05%
Mg 285.213	12205428.0	204300	ug/L	685.4	4348	mg/kg	14.6	0.34%
Mn 257.610	3378137.1	17410	ug/L	146.0	370.5	mg/kg	3.11	0.84%
Mo 202.031	53943.1	1872	ug/L	23.9	39.82	mg/kg	0.508	1.28%
Na 589.592	2606226.1	205900	ug/L	1628.0	4382	mg/kg	34.6	0.79%
Ni 231.604	96419.1	1774	ug/L	26.7	37.75	mg/kg	0.567	1.50%
P 213.617	88235.6	22860	ug/L	446.5	486.5	mg/kg	9.50	1.95%
Pb 220.353	21970.6	1925	ug/L	29.9	40.95	mg/kg	0.637	1.55%
Sb 206.836	6855.9	1512	ug/L	39.1	32.18	mg/kg	0.831	2.58%
Se 196.026	5771.6	1631	ug/L	30.4	34.70	mg/kg	0.646	1.86%
Sn 189.927	20318.5	1704	ug/L	20.5	36.26	mg/kg	0.437	1.20%
Sr 421.552	4685816.0	2114	ug/L	5.4	44.99	mg/kg	0.116	0.26%
Ti 337.279	610348.9	4481	ug/L	13.3	95.34	mg/kg	0.284	0.30%
Tl 190.801	14228.1	1561	ug/L	22.7	33.22	mg/kg	0.484	1.46%
V 292.402	417491.1	2534	ug/L	6.0	53.91	mg/kg	0.128	0.24%
Zn 206.200	302599.6	3646	ug/L	13.3	77.58	mg/kg	0.284	0.37%

A.P.P.L. INC.
5B
POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.
HBGR-MRS01-DU1-SS-02-03

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Analysis Date: 08/20/08 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum (Al)	75-125	6123		6022		82.47	123.00		
Antimony (Sb)	75-125	3.036		0.072		10.31	28.7		M
Chromium (Cr)	75-125	12.45		8.642		10.31	36.9		M
Copper (Cu)	75-125	7.58		3.524		10.31	39.3		M
Lead (Pb)	75-125	11.99		8.368		10.31	35.1		M
Zinc (Zn)	75-125	17.97		10.88		20.62	34.4		M

Comments:

08/20/08 11:48 AX82325S01

08/20/08 12:05 AX82325S01-1/5

08/20/08 12:11 AX82325S01-A

Sequence No.: 40
Sample ID: AX82325S01-A
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.97 g
Dilution:

Autosampler Location: 55
Date Collected: 8/20/2008 12:11:18 PM
Data Type: Reprocessed on 8/20/2008 3:03:09 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82325S01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	5030.8	26.27	ug/L	16.785	0.542	mg/kg	0.3461	63.89%
Al 308.215	1356916.7	297000	ug/L	2079.9	6123	mg/kg	42.9	0.70%
As 188.979	894.6	243.7	ug/L	31.73	5.026	mg/kg	0.6542	13.02%
B	8511.2	382.4	ug/L	13.05	7.884	mg/kg	0.2692	3.41%
Ba 233.527	481645.8	2461	ug/L	19.4	50.75	mg/kg	0.399	0.79%
Be 313.107	34660.2	31.37	ug/L	3.058	0.647	mg/kg	0.0630	9.75%
Ca 315.887	928825.4	33570	ug/L	1255.3	692.2	mg/kg	25.88	3.74%
Cd 214.440	7422.3	41.32	ug/L	6.717	0.852	mg/kg	0.1385	16.25%
Co 228.616	22218.5	286.0	ug/L	35.53	5.896	mg/kg	0.7326	12.43%
Cr 267.716	77488.1	604.0	ug/L	45.81	12.45	mg/kg	0.944	7.58%
Cu 327.393	64342.9	367.7	ug/L	59.27	7.580	mg/kg	1.2220	16.12%
Fe 273.955	6534085.1	229700	ug/L	3298.5	4736	mg/kg	68.0	1.44%
K 766.490	45420.7	11180	ug/L	400.4	230.5	mg/kg	8.26	3.58%
Mg 285.213	1329374.2	22480	ug/L	1298.6	463.5	mg/kg	26.78	5.78%
Mn 257.610	3637215.9	18770	ug/L	155.9	386.9	mg/kg	3.21	0.83%
Mo 202.031	5142.8	178.4	ug/L	48.78	3.679	mg/kg	1.0058	27.34%
Na 589.592	159689.3	12410	ug/L	1200.0	255.8	mg/kg	24.74	9.67%
Ni 231.604	17343.4	311.5	ug/L	33.30	6.423	mg/kg	0.6866	10.69%
P 213.617	52975.7	13730	ug/L	90.2	283.0	mg/kg	1.86	0.66%
Pb 220.353	6637.5	581.5	ug/L	23.57	11.99	mg/kg	0.486	4.05%
Sb 206.836	667.5	147.2	ug/L	43.32	3.036	mg/kg	0.8933	29.42%
Se 196.026	737.4	208.4	ug/L	31.26	4.296	mg/kg	0.6445	15.00%
Sn 189.927	1758.1	143.4	ug/L	45.00	2.957	mg/kg	0.9278	31.38%
Sr 421.552	510266.5	229.8	ug/L	13.41	4.739	mg/kg	0.2766	5.84%
Ti 337.279	307646.8	2260	ug/L	27.4	46.59	mg/kg	0.564	1.21%
Tl 190.801	481.8	200.2	ug/L	37.19	4.128	mg/kg	0.7668	18.58%
V 292.402	152641.7	926.3	ug/L	43.75	19.10	mg/kg	0.902	4.72%
Zn 206.200	73854.0	871.3	ug/L	82.97	17.97	mg/kg	1.711	9.52%

A.P.P.L. INC.
9
ICP SERIAL DILUTION

CLIENT SAMPLE NO.
HBGR-MRS01-DU1-SS-02-03

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740
Matrix: SOIL

Analysis Date: 8/20/08
Concentration Units: mg/kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Aluminum (Al)	6022		8175		35.8		M
Antimony (Sb)	0.072		-0.374		NA		
Chromium (Cr)	8.642		11.81		36.7		M
Copper (Cu)	3.524		4.559		NA		
Lead (Pb)	8.368		12.13		45.00		M
Zinc (Zn)	10.88		15.77		NA		

Comments:

8/20/08 11:48 AX82325S01

8/20/08 12:05 AX82325S01-1/5

8/20/08 12:11 AX82325S01-A

Sequence No.: 39
Sample ID: AX82325S01-1/5
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt: 0.97 g
Dilution: 5X

Autosampler Location: 54
Date Collected: 8/20/2008 12:05:20 PM
Data Type: Reprocessed on 8/20/2008 3:03:08 PM

Initial Sample Vol:
Sample Prep Vol: 20 mL

Mean Data: AX82325S01-1/5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-1077.0	-4.607	ug/L	0.3256	-0.475	mg/kg	0.0336	7.07%
Al 308.215	362359.2	79300	ug/L	354.3	8175	mg/kg	36.5	0.45%
As 188.979	42.3	11.51	ug/L	1.251	1.187	mg/kg	0.1290	10.87%
B	2044.8	91.86	ug/L	1.300	9.470	mg/kg	0.1341	1.42%
Ba 233.527	121176.7	614.8	ug/L	27.93	63.38	mg/kg	2.880	4.54%
Be 313.107	2434.9	3.579	ug/L	0.0754	0.369	mg/kg	0.0078	2.11%
Ca 315.887	186646.1	6742	ug/L	70.4	695.0	mg/kg	7.26	1.04%
Cd 214.440	144.6	0.805	ug/L	0.0519	0.083	mg/kg	0.0054	6.45%
Co 228.616	1865.0	21.56	ug/L	0.829	2.223	mg/kg	0.0855	3.85%
Cr 267.716	14790.5	114.6	ug/L	4.58	11.81	mg/kg	0.472	4.00%
Cu 327.393	6322.8	44.22	ug/L	2.143	4.559	mg/kg	0.2209	4.85%
Fe 273.955	1933803.9	67990	ug/L	2948.4	7009	mg/kg	304.0	4.34%
K 766.490	10650.3	2606	ug/L	15.8	268.7	mg/kg	1.63	0.61%
Mg 285.213	223214.7	3807	ug/L	21.2	392.5	mg/kg	2.18	0.56%
Mn 257.610	990230.0	5110	ug/L	36.8	526.8	mg/kg	3.79	0.72%
Mo 202.031	117.3	4.070	ug/L	0.1602	0.420	mg/kg	0.0165	3.94%
Na 589.592	13814.3	1030	ug/L	9.6	106.2	mg/kg	0.99	0.94%
Ni 231.604	1835.6	31.28	ug/L	1.028	3.224	mg/kg	0.1060	3.29%
P 213.617	13564.4	3515	ug/L	126.2	362.4	mg/kg	13.01	3.59%
Pb 220.353	1342.8	117.6	ug/L	4.16	12.13	mg/kg	0.429	3.54%
Sb 206.836	-16.4	-3.623	ug/L	2.1871	-0.374	mg/kg	0.2255	60.37%
Se 196.026	15.4	4.338	ug/L	0.6460	0.447	mg/kg	0.0666	14.89%
Sn 189.927	-11.8	-2.178	ug/L	0.7646	-0.225	mg/kg	0.0788	35.11%
Sr 421.552	83700.6	37.64	ug/L	0.084	3.881	mg/kg	0.0087	0.22%
Ti 337.279	79142.5	581.3	ug/L	2.05	59.93	mg/kg	0.212	0.35%
Tl 190.801	-402.1	1.931	ug/L	0.6633	0.199	mg/kg	0.0684	34.35%
V 292.402	32114.0	194.9	ug/L	8.23	20.09	mg/kg	0.848	4.22%
Zn 206.200	13224.9	153.0	ug/L	5.92	15.77	mg/kg	0.611	3.87%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/13/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 8:15	%R(1)	True CCV1	Found 8:28	%R(1)	True CCV2	Found 8:49	%R(1)	
Aluminum (Al)	25000	24760	99.00	20000	19650	98.3	15000	14880	99.2	P
Chromium (Cr)	1000	1009	101.00	1000	1002	100.00	750	773.7	103.00	P
Copper (Cu)	1000	1015	101.00	1000	997.6	99.8	750	758.5	101.00	P
Lead (Pb)	1000	1040	104.00	1000	1010	101.00	750	778.5	104.00	P
Antimony (Sb)	1000	1047	105.00	1000	989.5	99.00	750	750.2	100.00	P
Zinc (Zn)	1000	1062	106.00	1000	1011	101.00	750	795.6	106.00	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/13/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 8:15	%R(1)	True CCV1	Found 11:34	%R(1)	True CCV2	Found 12:41	%R(1)	
Aluminum (Al)	25000	24760	99.00	20000	20550	103.00	15000	15590	104.00	P
Chromium (Cr)	1000	1009	101.00	1000	1044	104.00	750	793.7	106.00	P
Copper (Cu)	1000	1015	101.00	1000	1028	103.00	750	777.4	104.00	P
Lead (Pb)	1000	1040	104.00	1000	1052	105.00	750	816.5	109.00	P
Antimony (Sb)	1000	1047	105.00	1000	1037	104.00	750	792.1	106.00	P
Zinc (Zn)	1000	1062	106.00	1000	1058	106.00	750	815.8	109.00	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/13/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 8:15	%R(1)	True CCV1	Found 13:00	%R(1)	True	Found	%R(1)	
Aluminum (Al)	25000	24760	99.00	20000	20790	104.00				P
Chromium (Cr)	1000	1009	101.00	1000	1039	104.00				P
Copper (Cu)	1000	1015	101.00	1000	1029	103.00				P
Lead (Pb)	1000	1040	104.00	1000	1061	106.00				P
Antimony (Sb)	1000	1047	105.00	1000	1039	104.00				P
Zinc (Zn)	1000	1062	106.00	1000	1062	106.00				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 8/13/08

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	08:22		08:32		08:53		11:42		11:47		
Al	2000	U	2000	U	2000	U	15.3	J	12.5	J	P
Cr	100.00	U	100.00	U	100.00	U	100.00	U	100.00	U	P
Cu	0.825	J	1.06	J	0.72	J	40.00	U	40.00	U	P
Pb	40.00	U	40.00	U	40.00	U	40.00	U	40.00	U	P
Sb	0.568	J	2.40	J	0.623	J	0.434	J	60.00	U	P
Zn	1000	U	1000	U	1000	U	1000	U	1000	U	P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 8/13/08

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
	08:22		12:47		13:06				11:47		
Al	2000	U	2000	U	2000	U			12.5	J	P
Cr	100.00	U	100.00	U	100.00	U			100.00	U	P
Cu	0.825	J	40.00	U	40.00	U			40.00	U	P
Pb	40.00	U	40.00	U	40.00	U			40.00	U	P
Sb	0.568	J	60.00	U	0.877	J			60.00	U	P
Zn	1000	U	1000	U	1000	U			1000	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740
ICP ID Number: ICAP
ICS Source: Environmental Express

Analysis Date: 8/13/08
Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 8:37	Sol AB 8:45	%R(1)
Aluminum (Al)	200000	200000	194300	190200	95.1
Antimony (Sb)		500	1.399	519.6	104.00
Calcium (Ca)	200000	200000	191000	188000	94.00
Chromium (Cr)		500	-1.229	449.2	89.8
Copper (Cu)		500	ND	481.8	96.4
Iron (Fe)	200000	200000	167700	168900	84.5
Lead (Pb)		1000	-1.504	906.2	90.6
Magnesium (Mg)	200000	200000	180700	177800	88.9
Zinc (Zn)		1000	-12.2	886.9	88.7

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/20/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:17	%R(1)	True CCV1	Found 9:32	%R(1)	True CCV2	Found 9:56	%R(1)	
Aluminum (Al)	25000	25290	101.00	20000	18990	95.00	15000	14170	94.5	P
Chromium (Cr)	1000	1019	102.00	1000	1004	100.00	750	756.6	101.00	P
Copper (Cu)	1000	1021	102.00	1000	987.3	98.7	750	740.1	98.7	P
Lead (Pb)	1000	1051	105.00	1000	1011	101.00	750	769.2	103.00	P
Antimony (Sb)	1000	995.4	99.5	1000	989.7	99.00	750	765.9	102.00	P
Zinc (Zn)	1000	1087	109.00	1000	1021	102.00	750	776.4	104.00	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/20/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:17	%R(1)	True CCV1	Found 10:33	%R(1)	True CCV2	Found 11:35	%R(1)	
Aluminum (Al)	25000	25290	101.00	20000	19190	96.00	15000	14670	97.8	P
Chromium (Cr)	1000	1019	102.00	1000	1017	102.00	750	772.5	103.00	P
Copper (Cu)	1000	1021	102.00	1000	993.1	99.3	750	752.2	100.00	P
Lead (Pb)	1000	1051	105.00	1000	1017	102.00	750	783.5	104.00	P
Antimony (Sb)	1000	995.4	99.5	1000	1034	103.00	750	781.7	104.00	P
Zinc (Zn)	1000	1087	109.00	1000	1041	104.00	750	790.3	105.00	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/20/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:17	%R(1)	True CCV1	Found 12:35	%R(1)	True CCV2	Found 13:14	%R(1)	
Aluminum (Al)	25000	25290	101.00	20000	19420	97.1	15000	14680	97.9	P
Chromium (Cr)	1000	1019	102.00	1000	1031	103.00	750	776.5	104.00	P
Copper (Cu)	1000	1021	102.00	1000	1001	100.00	750	755.4	101.00	P
Lead (Pb)	1000	1051	105.00	1000	1030	103.00	750	786.3	105.00	P
Antimony (Sb)	1000	995.4	99.5	1000	1010	101.00	750	755	101.00	P
Zinc (Zn)	1000	1087	109.00	1000	1051	105.00	750	796.8	106.00	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 8/20/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:17	%R(1)	True CCV1	Found 13:56	%R(1)	True	Found	%R(1)	
Aluminum (Al)	25000	25290	101.00	20000	19900	99.5				P
Chromium (Cr)	1000	1019	102.00	1000	1024	102.00				P
Copper (Cu)	1000	1021	102.00	1000	1012	101.00				P
Lead (Pb)	1000	1051	105.00	1000	1034	103.00				P
Antimony (Sb)	1000	995.4	99.5	1000	1005	100.00				P
Zinc (Zn)	1000	1087	109.00	1000	1039	104.00				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 8/20/08

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	09:27		09:38		09:59		10:39		11:03		
Al	100.00	U	100.00	U	100.00	U	100.00	U	10.0	U	P
Cr	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Cu	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Pb	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Sb	2.00	U	2.00	U	2.00	U	2.00	U	0.065	J	P
Zn	50.00	U	50.00	U	50.00	U	50.00	U	1.55	J	P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 8/20/08

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	09:27		11:38		12:41		13:17		11:03		
Al	100.00	U	100.00	U	100.00	U	100.00	U	10.0	U	P
Cr	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Cu	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Pb	5.00	U	5.00	U	5.00	U	5.00	U	0.50	U	P
Sb	2.00	U	2.00	U	2.00	U	2.00	U	0.065	J	P
Zn	50.00	U	50.00	U	50.00	U	50.00	U	1.55	J	P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 8/20/08

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	09:27		14:02						11:03		
Al	100.00	U	100.00	U					10.0	U	P
Cr	5.00	U	5.00	U					0.50	U	P
Cu	5.00	U	5.00	U					0.50	U	P
Pb	5.00	U	5.00	U					0.50	U	P
Sb	2.00	U	2.00	U					0.065	J	P
Zn	50.00	U	50.00	U					1.55	J	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740
ICP ID Number: ICAP
ICS Source: Environmental Express

Analysis Date: 8/20/08
Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 9:43	Sol AB 9:50	%R(1)
Aluminum (Al)	200000	200000	186500	183300	91.7
Antimony (Sb)		500	-0.426	456.6	91.3
Calcium (Ca)	200000	200000	180400	179600	89.8
Chromium (Cr)		500	-0.443	440	88.00
Copper (Cu)		500	-0.182	471.7	94.3
Iron (Fe)	200000	200000	165300	164000	82.00
Lead (Pb)		1000	2.411	889.2	88.9
Magnesium (Mg)	200000	200000	172500	171500	85.8
Zinc (Zn)		1000	-6.839	863.4	86.3

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 08/21/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:41	%R(1)	True CCV1	Found 9:49	%R(1)	True CCV2	Found 10:16	%R(1)	
Chromium (Cr)	1000	998.4	99.8	1000	1028	103.00	750	784.6	105.00	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP
ARF No: 56740 SDG: 56740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 08/21/08 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:41	%R(1)	True CCV1	Found 11:09	%R(1)	True	Found	%R(1)	
Chromium (Cr)	1000	998.4	99.8	1000	1052	105.00				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: PARSONS-MMRP

ARF No.: 56740 SDG: 56740

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 08/21/08

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	09:44		09:59		10:23		11:25				
Cr	5.00	U	5.00	U	5.00	U	5.00	U			P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.
Contract: PARSONS-MMRP
ARF No.: 56740
SDG: 56740
ICP ID Number: ICAP
ICS Source: Environmental Express

Analysis Date: 08/21/08
Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:04	Sol AB 10:08	%R(1)
Aluminum (Al)	200000	200000	199200	195000	97.5
Calcium (Ca)	200000	200000	198200	194300	97.2
Chromium (Cr)		500	-0.36	461.3	92.3
Iron (Fe)	200000	200000	174500	172900	86.5
Magnesium (Mg)	200000	200000	185300	182600	91.3

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: Chemist Technique: ICP Continuous

Results Data Set (original): 080813A6010B
Results Library (original): C:\pe\Chemist\Results\080813.mdb
Results Data Set (reprocessed): 080813A6010BR
Results Library (reprocessed): C:\pe\Chemist\Results\080813.mdb

Sequence No.: 1
Sample ID: CalBlk 080812SDM I:PB O:S
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2008 7:58:14 AM
Data Type: Reprocessed on 8/13/2008 1:16:38 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 080812SDM I:PB O:S

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	88.7	5.06	5.70%	[0.00]	ug/L
Al 308.215	268.4	8.88	3.31%	[0.00]	ug/L
As 188.979	-80.8	6.00	7.43%	[0.00]	ug/L
B	-62.9	4.13	6.56%	[0.00]	ug/L
Ba 233.527	104.1	12.88	12.37%	[0.00]	ug/L
Be 313.107	-192.0	22.05	11.48%	[0.00]	ug/L
Ca 315.887	-598.3	14.80	2.47%	[0.00]	ug/L
Cd 214.440	346.0	10.89	3.15%	[0.00]	ug/L
Co 228.616	17.7	7.29	41.24%	[0.00]	ug/L
Cr 267.716	384.2	13.25	3.45%	[0.00]	ug/L
Cu 327.393	1104.2	18.77	1.70%	[0.00]	ug/L
Fe 273.955	-177.0	8.30	4.69%	[0.00]	ug/L
K 766.490	1801.1	171.82	9.54%	[0.00]	ug/L
Mg 285.213	-172.4	1.08	0.62%	[0.00]	ug/L
Mn 257.610	2.8	7.34	262.03%	[0.00]	ug/L
Mo 202.031	-3.8	1.77	46.36%	[0.00]	ug/L
Na 589.592	188.2	163.32	86.76%	[0.00]	ug/L
Ni 231.604	-294.5	1.61	0.55%	[0.00]	ug/L
P 213.617	3.9	2.57	66.52%	[0.00]	ug/L
Pb 220.353	13.4	8.30	61.75%	[0.00]	ug/L
Sb 206.836	1.4	6.27	460.98%	[0.00]	ug/L
Se 196.026	0.8	1.48	189.96%	[0.00]	ug/L
Sn 189.927	109.9	1.21	1.10%	[0.00]	ug/L
Sr 421.552	705.8	11.28	1.60%	[0.00]	ug/L
Ti 337.279	-473.9	18.88	3.98%	[0.00]	ug/L
Tl 190.801	-114.7	0.96	0.84%	[0.00]	ug/L
V 292.402	-0.4	3.78	839.65%	[0.00]	ug/L
Zn 206.200	644.6	79.16	12.28%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 080812SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/13/2008 8:03:28 AM
Data Type: Reprocessed on 8/13/2008 1:16:39 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 080812SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	213.1	32.41	15.21%	[1.00]	ug/L
Al 308.215	502.2	11.20	2.23%	[100.00]	ug/L
As 188.979	27.7	2.17	7.83%	[3.50]	ug/L
B	1087.6	6.61	0.61%	[50.00]	ug/L
Ba 233.527	1157.8	9.16	0.79%	[5.00]	ug/L
Be 313.107	3516.1	14.44	0.41%	[2.00]	ug/L
Ca 315.887	3426.9	10.93	0.32%	[100.00]	ug/L
Cd 214.440	1602.7	16.88	1.05%	[5.00]	ug/L
Co 228.616	479.3	12.53	2.61%	[5.00]	ug/L
Cr 267.716	802.0	8.37	1.04%	[5.00]	ug/L
Cu 327.393	1263.4	20.68	1.64%	[5.00]	ug/L
Fe 273.955	1979.1	7.66	0.39%	[50.00]	ug/L
K 766.490	3746.8	36.18	0.97%	[1000.00]	ug/L
Mg 285.213	4029.8	20.20	0.50%	[50]	ug/L
Mn 257.610	2269.5	7.54	0.33%	[5.00]	ug/L
Mo 202.031	177.6	0.67	0.38%	[5.00]	ug/L
Na 589.592	15218.9	363.93	2.39%	[1000.00]	ug/L
Ni 231.604	335.8	7.28	2.17%	[5.00]	ug/L
P 213.617	105.9	4.32	4.08%	[25.00]	ug/L
Pb 220.353	31.5	4.46	14.18%	[3.00]	ug/L
Sb 206.836	27.5	1.56	5.70%	[5.00]	ug/L
Se 196.026	16.4	3.35	20.46%	[5.00]	ug/L
Sn 189.927	71.5	5.09	7.12%	[5.00]	ug/L
Sr 421.552	12501.7	172.26	1.38%	[5.00]	ug/L
Ti 337.279	743.8	36.85	4.96%	[5.00]	ug/L
Tl 190.801	58.3	4.77	8.19%	[5.00]	ug/L
V 292.402	1023.5	9.42	0.92%	[5.00]	ug/L
Zn 206.200	2096.1	35.69	1.70%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 080812SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2008 8:08:44 AM
Data Type: Reprocessed on 8/13/2008 1:16:40 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 080812SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	93350.3	594.75	0.64%	[500.0]	ug/L
Al 308.215	88850.9	765.28	0.86%	[20000.00]	ug/L
As 188.979	4711.1	1.83	0.04%	[1000.00]	ug/L
B	21786.3	211.05	0.97%	[1000.00]	ug/L
Ba 233.527	182560.7	1855.98	1.02%	[1000.00]	ug/L
Be 313.107	1438613.0	10432.51	0.73%	[1000.00]	ug/L
Ca 315.887	1275754.0	6701.31	0.53%	[50000]	ug/L
Cd 214.440	253976.0	3148.28	1.24%	[1000.00]	ug/L
Co 228.616	74800.7	834.81	1.12%	[1000.00]	ug/L
Cr 267.716	124448.0	1389.65	1.12%	[1000.00]	ug/L
Cu 327.393	201287.0	1634.48	0.81%	[1000.00]	ug/L
Fe 273.955	565814.5	6569.64	1.16%	[20000]	ug/L
K 766.490	75849.4	479.25	0.63%	[20000]	ug/L
Mg 285.213	2801276.7	17190.77	0.61%	[50000]	ug/L
Mn 257.610	193280.7	1755.98	0.91%	[1000.00]	ug/L
Mo 202.031	28288.5	311.26	1.10%	[1000.00]	ug/L
Na 589.592	359880.2	2565.88	0.71%	[25000]	ug/L
Ni 231.604	52646.5	687.61	1.31%	[1000.00]	ug/L
P 213.617	18765.8	33.48	0.18%	[5000]	ug/L
Pb 220.353	11154.2	29.94	0.27%	[1000.00]	ug/L
Sb 206.836	5192.6	10.21	0.20%	[1000.00]	ug/L
Se 196.026	3489.3	2.42	0.07%	[1000.00]	ug/L
Sn 189.927	11647.5	21.82	0.19%	[1000.00]	ug/L
Sr 421.552	2176498.4	14721.81	0.68%	[1000.00]	ug/L
Ti 337.279	125798.6	973.37	0.77%	[1000.00]	ug/L
Tl 190.801	10862.1	24.03	0.22%	[1000.00]	ug/L
V 292.402	174908.0	2203.48	1.26%	[1000.00]	ug/L
Zn 206.200	79484.8	1192.94	1.50%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 080812SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 8/13/2008 8:12:15 AM
Data Type: Reprocessed on 8/13/2008 1:16:41 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 080812SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	177017.7	364.45	0.21%	[1000.00]	ug/L
Al 308.215	170923.8	508.27	0.30%	[40000.00]	ug/L
As 188.979	8792.1	59.59	0.68%	[2000.00]	ug/L
B	41609.7	60.07	0.14%	[2000.00]	ug/L
Ba 233.527	340046.6	301.29	0.09%	[2000.00]	ug/L
Be 313.107	2716041.3	26369.90	0.97%	[2000.00]	ug/L
Ca 315.887	2448130.6	6577.55	0.27%	[100000.0]	ug/L
Cd 214.440	464660.4	408.43	0.09%	[2000.00]	ug/L
Co 228.616	137919.7	236.48	0.17%	[2000.00]	ug/L
Cr 267.716	232103.4	505.85	0.22%	[2000.00]	ug/L
Cu 327.393	380909.4	1078.04	0.28%	[2000.00]	ug/L
Fe 273.955	1044262.6	1138.54	0.11%	[40000]	ug/L
K 766.490	147412.4	668.41	0.45%	[40000]	ug/L
Mg 285.213	5298056.0	42562.41	0.80%	[100000]	ug/L
Mn 257.610	363708.6	1224.23	0.34%	[2000.00]	ug/L
Mo 202.031	52452.4	246.99	0.47%	[2000.00]	ug/L
Na 589.592	695508.7	2576.30	0.37%	[50000]	ug/L
Ni 231.604	96438.9	214.09	0.22%	[2000.00]	ug/L
P 213.617	35112.7	246.08	0.70%	[10000]	ug/L
Pb 220.353	20268.8	111.63	0.55%	[2000.00]	ug/L
Sb 206.836	9742.6	68.61	0.70%	[2000.00]	ug/L
Se 196.026	6460.9	44.53	0.69%	[2000.00]	ug/L
Sn 189.927	21757.2	107.66	0.49%	[2000.00]	ug/L
Sr 421.552	4165549.0	32443.30	0.78%	[2000.00]	ug/L
Ti 337.279	240305.2	946.86	0.39%	[2000.00]	ug/L
Tl 190.801	19547.3	145.23	0.74%	[2000.00]	ug/L
V 292.402	329634.2	616.00	0.19%	[2000.00]	ug/L
Zn 206.200	145275.8	172.75	0.12%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	179.0	0.00000	0.999766	
Al 308.215	3	Lin Thru 0	0.0	4.307	0.00000	0.999876	
As 188.979	3	Lin Thru 0	0.0	4.459	0.00000	0.999600	
B	3	Lin Thru 0	0.0	21.00	0.00000	0.999825	
Ba 233.527	3	Lin Thru 0	0.0	172.5	0.00000	0.999578	
Be 313.107	3	Lin Thru 0	0.0	1374	0.00000	0.999725	
Ca 315.887	3	Lin Thru 0	0.0	24.69	0.00000	0.999860	
Cd 214.440	3	Lin Thru 0	0.0	236.7	0.00000	0.999331	
Co 228.616	3	Lin Thru 0	0.0	70.13	0.00000	0.999445	
Cr 267.716	3	Lin Thru 0	0.0	117.7	0.00000	0.999593	
Cu 327.393	3	Lin Thru 0	0.0	192.6	0.00000	0.999747	
Fe 273.955	3	Lin Thru 0	0.0	26.54	0.00000	0.999459	
K 766.490	3	Lin Thru 0	0.0	3.707	0.00000	0.999933	
Mg 285.213	3	Lin Thru 0	0.0	53.59	0.00000	0.999742	
Mn 257.610	3	Lin Thru 0	0.0	184.1	0.00000	0.999687	
Mo 202.031	3	Lin Thru 0	0.0	26.64	0.00000	0.999521	
Na 589.592	3	Lin Thru 0	0.0	14.01	0.00000	0.999903	
Ni 231.604	3	Lin Thru 0	0.0	49.10	0.00000	0.999350	
P 213.617	3	Lin Thru 0	0.0	3.560	0.00000	0.999631	
Pb 220.353	3	Lin Thru 0	0.0	10.34	0.00000	0.999222	
Sb 206.836	3	Lin Thru 0	0.0	4.936	0.00000	0.999661	
Se 196.026	3	Lin Thru 0	0.0	3.282	0.00000	0.999503	
Sn 189.927	3	Lin Thru 0	0.0	11.03	0.00000	0.999611	
Sr 421.552	3	Lin Thru 0	0.0	2102	0.00000	0.999841	
Ti 337.279	3	Lin Thru 0	0.0	121.3	0.00000	0.999827	

Tl 190.801	3	Lin Thru 0	0.0	9.991	0.00000	0.999052
V 292.402	3	Lin Thru 0	0.0	166.8	0.00000	0.999707
Zn 206.200	3	Lin Thru 0	0.0	74.01	0.00000	0.999309

Sequence No.: 5
Sample ID: ICV 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/13/2008 8:15:24 AM
Data Type: Reprocessed on 8/13/2008 1:16:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	92880.9	493.4	ug/L	2.64	493.4	ug/L	2.64	0.53%
QC value within limits for Ag 338.289 Recovery = 98.68%								
Al 308.215	106656.7	24760	ug/L	200.0	24760	ug/L	200.0	0.81%
QC value within limits for Al 308.215 Recovery = 99.02%								
As 188.979	4302.5	975.7	ug/L	1.57	975.7	ug/L	1.57	0.16%
QC value within limits for As 188.979 Recovery = 97.57%								
B	21360.2	1017	ug/L	8.6	1017	ug/L	8.6	0.84%
QC value within limits for B Recovery = 101.71%								
Ba 233.527	177975.7	1024	ug/L	3.4	1024	ug/L	3.4	0.33%
QC value within limits for Ba 233.527 Recovery = 102.42%								
Be 313.107	1352892.1	987.8	ug/L	4.63	987.8	ug/L	4.63	0.47%
QC value within limits for Be 313.107 Recovery = 98.78%								
Ca 315.887	614270.6	24870	ug/L	75.2	24870	ug/L	75.2	0.30%
QC value within limits for Ca 315.887 Recovery = 99.47%								
Cd 214.440	246869.6	1042	ug/L	4.9	1042	ug/L	4.9	0.47%
QC value within limits for Cd 214.440 Recovery = 104.21%								
Co 228.616	72903.3	1039	ug/L	5.4	1039	ug/L	5.4	0.52%
QC value within limits for Co 228.616 Recovery = 103.89%								
Cr 267.716	118681.7	1009	ug/L	3.0	1009	ug/L	3.0	0.29%
QC value within limits for Cr 267.716 Recovery = 100.87%								
Cu 327.393	195161.4	1015	ug/L	6.6	1015	ug/L	6.6	0.65%
QC value within limits for Cu 327.393 Recovery = 101.49%								
Fe 273.955	693147.1	26010	ug/L	107.2	26010	ug/L	107.2	0.41%
QC value within limits for Fe 273.955 Recovery = 104.04%								
K 766.490	91674.3	24670	ug/L	218.7	24670	ug/L	218.7	0.89%
QC value within limits for K 766.490 Recovery = 98.68%								
Mg 285.213	1343291.8	25090	ug/L	126.4	25090	ug/L	126.4	0.50%
QC value within limits for Mg 285.213 Recovery = 100.37%								
Mn 257.610	186209.1	1010	ug/L	8.6	1010	ug/L	8.6	0.85%
QC value within limits for Mn 257.610 Recovery = 101.03%								
Mo 202.031	28271.4	1061	ug/L	4.9	1061	ug/L	4.9	0.46%
QC value within limits for Mo 202.031 Recovery = 106.13%								
Na 589.592	350698.1	24980	ug/L	126.9	24980	ug/L	126.9	0.51%
QC value within limits for Na 589.592 Recovery = 99.92%								
Ni 231.604	51682.8	1049	ug/L	6.1	1049	ug/L	6.1	0.58%
QC value within limits for Ni 231.604 Recovery = 104.89%								
P 213.617	17353.1	4875	ug/L	9.2	4875	ug/L	9.2	0.19%
QC value within limits for P 213.617 Recovery = 97.50%								
Pb 220.353	10750.2	1040	ug/L	2.5	1040	ug/L	2.5	0.24%
QC value within limits for Pb 220.353 Recovery = 103.98%								
Sb 206.836	5168.8	1047	ug/L	2.7	1047	ug/L	2.7	0.26%
QC value within limits for Sb 206.836 Recovery = 104.73%								
Se 196.026	3308.4	1008	ug/L	1.3	1008	ug/L	1.3	0.13%
QC value within limits for Se 196.026 Recovery = 100.80%								
Sn 189.927	3568.1	327.0	ug/L	0.67	327.0	ug/L	0.67	0.20%
QC value less than the lower limit for Sn 189.927 Recovery = 65.40%								
Sr 421.552	1987908.3	945.7	ug/L	6.06	945.7	ug/L	6.06	0.64%
QC value within limits for Sr 421.552 Recovery = 94.57%								
Ti 337.279	117290.9	966.7	ug/L	8.87	966.7	ug/L	8.87	0.92%
QC value within limits for Ti 337.279 Recovery = 96.67%								
Tl 190.801	10409.0	1062	ug/L	2.4	1062	ug/L	2.4	0.23%
QC value within limits for Tl 190.801 Recovery = 106.20%								
V 292.402	176450.0	1058	ug/L	2.6	1058	ug/L	2.6	0.25%
QC value within limits for V 292.402 Recovery = 105.76%								
Zn 206.200	77977.3	1062	ug/L	4.7	1062	ug/L	4.7	0.44%
QC value within limits for Zn 206.200 Recovery = 106.15%								

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: ICB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2008 8:22:58 AM
Data Type: Reprocessed on 8/13/2008 1:16:46 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-12.9	-0.068	ug/L	0.1165	-0.068	ug/L	0.1165	172.57%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	1.6	0.358	ug/L	1.0585	0.358	ug/L	1.0585	295.31%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.9	1.334	ug/L	1.2760	1.334	ug/L	1.2760	95.62%
QC value within limits for As 188.979 Recovery = Not calculated								
B	151.2	7.202	ug/L	0.5862	7.202	ug/L	0.5862	8.14%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	3.7	0.021	ug/L	0.0331	0.021	ug/L	0.0331	154.58%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	87.0	0.064	ug/L	0.0129	0.064	ug/L	0.0129	20.21%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	98.2	3.979	ug/L	0.7531	3.979	ug/L	0.7531	18.93%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-26.2	-0.111	ug/L	0.0579	-0.111	ug/L	0.0579	52.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.6	0.195	ug/L	0.2775	0.195	ug/L	0.2775	142.47%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-13.5	-0.115	ug/L	0.1611	-0.115	ug/L	0.1611	140.07%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	159.0	0.825	ug/L	0.1124	0.825	ug/L	0.1124	13.62%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	12.3	0.473	ug/L	0.2127	0.473	ug/L	0.2127	44.93%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-104.3	-28.14	ug/L	21.393	-28.14	ug/L	21.393	76.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	55.8	1.042	ug/L	0.4156	1.042	ug/L	0.4156	39.90%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	20.9	0.113	ug/L	0.1031	0.113	ug/L	0.1031	91.05%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.5	0.169	ug/L	0.0740	0.169	ug/L	0.0740	43.82%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	271.6	19.41	ug/L	7.793	19.41	ug/L	7.793	40.14%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.2	0.044	ug/L	0.2490	0.044	ug/L	0.2490	572.09%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.7	-1.327	ug/L	1.7992	-1.327	ug/L	1.7992	135.63%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-29.4	-2.840	ug/L	0.2990	-2.840	ug/L	0.2990	10.53%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.8	0.568	ug/L	2.0586	0.568	ug/L	2.0586	362.32%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-4.2	-1.283	ug/L	0.3522	-1.283	ug/L	0.3522	27.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-9.5	-0.857	ug/L	0.1427	-0.857	ug/L	0.1427	16.66%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	92.1	0.044	ug/L	0.0071	0.044	ug/L	0.0071	16.33%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	15.8	0.130	ug/L	0.0872	0.130	ug/L	0.0872	66.99%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-1.5	-0.145	ug/L	0.1924	-0.145	ug/L	0.1924	132.76%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-11.7	-0.070	ug/L	0.0381	-0.070	ug/L	0.0381	54.09%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-382.9	-5.175	ug/L	0.2794	-5.175	ug/L	0.2794	5.40%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: CCV1 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2008 8:28:09 AM
Data Type: Reprocessed on 8/13/2008 1:16:47 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	89214.3	472.4	ug/L	1.87	472.4	ug/L	1.87	0.40%
QC value within limits for Ag 338.289 Recovery = 94.48%								
Al 308.215	84669.8	19650	ug/L	125.7	19650	ug/L	125.7	0.64%
QC value within limits for Al 308.215 Recovery = 98.23%								
As 188.979	4445.9	1007	ug/L	4.2	1007	ug/L	4.2	0.42%
QC value within limits for As 188.979 Recovery = 100.69%								
B	20750.0	988.0	ug/L	3.46	988.0	ug/L	3.46	0.35%
QC value within limits for B Recovery = 98.80%								
Ba 233.527	172746.5	995.8	ug/L	0.99	995.8	ug/L	0.99	0.10%
QC value within limits for Ba 233.527 Recovery = 99.58%								
Be 313.107	1357310.5	991.1	ug/L	1.22	991.1	ug/L	1.22	0.12%
QC value within limits for Be 313.107 Recovery = 99.11%								
Ca 315.887	1198696.2	48540	ug/L	143.7	48540	ug/L	143.7	0.30%
QC value within limits for Ca 315.887 Recovery = 97.08%								
Cd 214.440	238979.4	1010	ug/L	4.3	1010	ug/L	4.3	0.43%
QC value within limits for Cd 214.440 Recovery = 100.97%								
Co 228.616	70768.9	1008	ug/L	3.3	1008	ug/L	3.3	0.33%
QC value within limits for Co 228.616 Recovery = 100.84%								
Cr 267.716	117982.5	1002	ug/L	1.7	1002	ug/L	1.7	0.17%
QC value within limits for Cr 267.716 Recovery = 100.19%								
Cu 327.393	192728.1	997.6	ug/L	5.65	997.6	ug/L	5.65	0.57%
QC value within limits for Cu 327.393 Recovery = 99.76%								
Fe 273.955	536073.7	20100	ug/L	38.8	20100	ug/L	38.8	0.19%
QC value within limits for Fe 273.955 Recovery = 100.48%								
K 766.490	73844.9	19860	ug/L	38.0	19860	ug/L	38.0	0.19%
QC value within limits for K 766.490 Recovery = 99.31%								
Mg 285.213	2661814.4	49690	ug/L	84.6	49690	ug/L	84.6	0.17%
QC value within limits for Mg 285.213 Recovery = 99.38%								
Mn 257.610	183103.3	990.8	ug/L	5.59	990.8	ug/L	5.59	0.56%
QC value within limits for Mn 257.610 Recovery = 99.08%								
Mo 202.031	26673.3	1001	ug/L	6.1	1001	ug/L	6.1	0.61%
QC value within limits for Mo 202.031 Recovery = 100.13%								
Na 589.592	358793.0	25550	ug/L	66.9	25550	ug/L	66.9	0.26%
QC value within limits for Na 589.592 Recovery = 102.22%								
Ni 231.604	49837.6	1011	ug/L	3.3	1011	ug/L	3.3	0.33%
QC value within limits for Ni 231.604 Recovery = 101.14%								
P 213.617	17654.6	4960	ug/L	28.1	4960	ug/L	28.1	0.57%
QC value within limits for P 213.617 Recovery = 99.19%								
Pb 220.353	10443.2	1010	ug/L	5.8	1010	ug/L	5.8	0.57%
QC value within limits for Pb 220.353 Recovery = 101.01%								
Sb 206.836	4883.5	989.5	ug/L	4.23	989.5	ug/L	4.23	0.43%
QC value within limits for Sb 206.836 Recovery = 98.95%								
Se 196.026	3269.8	996.2	ug/L	3.63	996.2	ug/L	3.63	0.36%
QC value within limits for Se 196.026 Recovery = 99.62%								
Sn 189.927	11018.5	1005	ug/L	6.3	1005	ug/L	6.3	0.62%
QC value within limits for Sn 189.927 Recovery = 100.51%								
Sr 421.552	2073548.4	986.4	ug/L	1.36	986.4	ug/L	1.36	0.14%
QC value within limits for Sr 421.552 Recovery = 98.64%								
Ti 337.279	119918.5	988.0	ug/L	6.43	988.0	ug/L	6.43	0.65%
QC value within limits for Ti 337.279 Recovery = 98.80%								
Tl 190.801	10302.4	1051	ug/L	5.1	1051	ug/L	5.1	0.49%
QC value within limits for Tl 190.801 Recovery = 105.11%								
V 292.402	167982.7	1007	ug/L	2.1	1007	ug/L	2.1	0.21%
QC value within limits for V 292.402 Recovery = 100.69%								
Zn 206.200	74271.0	1011	ug/L	5.4	1011	ug/L	5.4	0.54%
QC value within limits for Zn 206.200 Recovery = 101.08%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CCB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2008 8:32:14 AM
Data Type: Reprocessed on 8/13/2008 1:16:48 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-53.4	-0.291	ug/L	0.0758	-0.291	ug/L	0.0758	26.06%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	15.2	3.510	ug/L	3.6228	3.510	ug/L	3.6228	103.22%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.5	0.551	ug/L	1.3482	0.551	ug/L	1.3482	244.52%
QC value within limits for As 188.979 Recovery = Not calculated								
B	204.5	9.739	ug/L	0.8997	9.739	ug/L	0.8997	9.24%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18.7	0.107	ug/L	0.0215	0.107	ug/L	0.0215	20.09%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	182.2	0.133	ug/L	0.0125	0.133	ug/L	0.0125	9.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	297.0	12.03	ug/L	0.480	12.03	ug/L	0.480	3.99%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-15.4	-0.064	ug/L	0.0145	-0.064	ug/L	0.0145	22.48%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	21.1	0.302	ug/L	0.1500	0.302	ug/L	0.1500	49.69%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-16.4	-0.140	ug/L	0.0667	-0.140	ug/L	0.0667	47.80%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	205.2	1.065	ug/L	0.1043	1.065	ug/L	0.1043	9.79%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	61.7	2.335	ug/L	0.4550	2.335	ug/L	0.4550	19.49%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	38.3	10.30	ug/L	46.477	10.30	ug/L	46.477	451.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	243.5	4.544	ug/L	0.5583	4.544	ug/L	0.5583	12.29%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	28.7	0.155	ug/L	0.0277	0.155	ug/L	0.0277	17.81%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	15.2	0.570	ug/L	0.0734	0.570	ug/L	0.0734	12.88%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	347.8	24.81	ug/L	7.587	24.81	ug/L	7.587	30.58%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.8	0.261	ug/L	0.0755	0.261	ug/L	0.0755	28.94%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-7.8	-2.205	ug/L	1.1359	-2.205	ug/L	1.1359	51.51%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-28.0	-2.711	ug/L	0.4933	-2.711	ug/L	0.4933	18.19%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	11.9	2.402	ug/L	0.6489	2.402	ug/L	0.6489	27.02%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.2	-1.594	ug/L	2.0279	-1.594	ug/L	2.0279	127.24%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-4.6	-0.414	ug/L	0.2278	-0.414	ug/L	0.2278	55.07%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	262.7	0.125	ug/L	0.0090	0.125	ug/L	0.0090	7.21%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	22.3	0.184	ug/L	0.1546	0.184	ug/L	0.1546	84.22%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-0.7	-0.068	ug/L	0.2920	-0.068	ug/L	0.2920	427.14%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-11.9	-0.071	ug/L	0.0707	-0.071	ug/L	0.0707	99.51%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-375.1	-5.070	ug/L	0.1169	-5.070	ug/L	0.1169	2.30%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSA 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 8/13/2008 8:37:28 AM
Data Type: Reprocessed on 8/13/2008 1:16:49 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-1237.4	0.437	ug/L	0.3090	0.437	ug/L	0.3090	70.76%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	836917.5	194300	ug/L	877.8	194300	ug/L	877.8	0.45%
QC value within limits for Al 308.215 Recovery = 97.13%								
As 188.979	-126.4	0.000	ug/L	1.1553	0.000	ug/L	1.1553	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B	4009.4	190.9	ug/L	1.15	190.9	ug/L	1.15	0.60%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9429.9	0.000	ug/L	1.5208	0.000	ug/L	1.5208	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	238.8	0.271	ug/L	0.0163	0.271	ug/L	0.0163	6.00%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4717151.0	191000	ug/L	1634.3	191000	ug/L	1634.3	0.86%
QC value within limits for Ca 315.887 Recovery = 95.51%								
Cd 214.440	3267.4	0.000	ug/L	0.0247	0.000	ug/L	0.0247	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	449.1	0.574	ug/L	0.1742	0.574	ug/L	0.1742	30.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	506.3	-1.229	ug/L	0.2142	-1.229	ug/L	0.2142	17.43%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-434.5	0.000	ug/L	0.2492	0.000	ug/L	0.2492	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4451205.2	167700	ug/L	473.2	167700	ug/L	473.2	0.28%
QC value within limits for Fe 273.955 Recovery = 83.84%								
K 766.490	444.0	-156.0	ug/L	17.97	-156.0	ug/L	17.97	11.51%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	9676448.8	180700	ug/L	1058.3	180700	ug/L	1058.3	0.59%
QC value within limits for Mg 285.213 Recovery = 90.37%								
Mn 257.610	1529.4	0.515	ug/L	0.1597	0.515	ug/L	0.1597	30.98%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-34.5	-1.296	ug/L	0.3482	-1.296	ug/L	0.3482	26.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	677.4	-183.6	ug/L	5.70	-183.6	ug/L	5.70	3.10%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	299.5	-0.061	ug/L	0.3022	-0.061	ug/L	0.3022	497.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.9	0.528	ug/L	2.9813	0.528	ug/L	2.9813	564.94%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-15.5	-1.504	ug/L	1.0447	-1.504	ug/L	1.0447	69.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	6.9	1.399	ug/L	0.3301	1.399	ug/L	0.3301	23.59%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	16.4	4.999	ug/L	1.6407	4.999	ug/L	1.6407	32.82%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-298.3	-14.20	ug/L	0.372	-14.20	ug/L	0.372	2.62%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3603.0	0.391	ug/L	0.0801	0.391	ug/L	0.0801	20.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	454.1	0.487	ug/L	0.2194	0.487	ug/L	0.2194	45.03%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	0.4	0.000	ug/L	0.9168	0.000	ug/L	0.9168	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-35.8	-0.215	ug/L	0.0884	-0.215	ug/L	0.0884	41.18%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	1296.0	-12.20	ug/L	0.109	-12.20	ug/L	0.109	0.89%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSAB 080812SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 8/13/2008 8:45:17 AM
Data Type: Reprocessed on 8/13/2008 1:16:51 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 080812SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	170907.1	949.9	ug/L	5.54	949.9	ug/L	5.54	0.58%
QC value within limits for Ag 338.289 Recovery = 94.99%								
Al 308.215	819417.2	190200	ug/L	1432.6	190200	ug/L	1432.6	0.75%
QC value within limits for Al 308.215 Recovery = 95.10%								
As 188.979	1968.0	467.5	ug/L	4.88	467.5	ug/L	4.88	1.04%
QC value within limits for As 188.979 Recovery = 93.51%								
B	3978.8	189.5	ug/L	2.49	189.5	ug/L	2.49	1.31%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	88095.5	456.0	ug/L	2.62	456.0	ug/L	2.62	0.57%
QC value within limits for Ba 233.527 Recovery = 91.21%								
Be 313.107	624863.4	454.9	ug/L	3.93	454.9	ug/L	3.93	0.86%
QC value within limits for Be 313.107 Recovery = 90.97%								
Ca 315.887	4642657.1	188000	ug/L	682.5	188000	ug/L	682.5	0.36%
QC value within limits for Ca 315.887 Recovery = 94.00%								
Cd 214.440	215667.9	897.4	ug/L	6.10	897.4	ug/L	6.10	0.68%
QC value within limits for Cd 214.440 Recovery = 89.74%								
Co 228.616	32641.7	460.6	ug/L	1.27	460.6	ug/L	1.27	0.28%
QC value within limits for Co 228.616 Recovery = 92.13%								
Cr 267.716	53445.5	449.2	ug/L	1.46	449.2	ug/L	1.46	0.33%
QC value within limits for Cr 267.716 Recovery = 89.83%								
Cu 327.393	92298.7	481.8	ug/L	2.35	481.8	ug/L	2.35	0.49%
QC value within limits for Cu 327.393 Recovery = 96.36%								
Fe 273.955	4483953.0	168900	ug/L	695.4	168900	ug/L	695.4	0.41%
QC value within limits for Fe 273.955 Recovery = 84.44%								
K 766.490	400.1	-169.8	ug/L	53.95	-169.8	ug/L	53.95	31.77%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	9520898.7	177800	ug/L	466.3	177800	ug/L	466.3	0.26%
QC value within limits for Mg 285.213 Recovery = 88.92%								
Mn 257.610	86541.2	462.6	ug/L	2.36	462.6	ug/L	2.36	0.51%
QC value within limits for Mn 257.610 Recovery = 92.52%								
Mo 202.031	12856.2	482.6	ug/L	0.57	482.6	ug/L	0.57	0.12%
QC value within limits for Mo 202.031 Recovery = 96.52%								
Na 589.592	479.8	-196.7	ug/L	3.02	-196.7	ug/L	3.02	1.53%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	44111.9	891.0	ug/L	4.47	891.0	ug/L	4.47	0.50%
QC value within limits for Ni 231.604 Recovery = 89.10%								
P 213.617	-3.5	-0.979	ug/L	1.1900	-0.979	ug/L	1.1900	121.53%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	9368.3	906.2	ug/L	0.98	906.2	ug/L	0.98	0.11%
QC value within limits for Pb 220.353 Recovery = 90.62%								
Sb 206.836	2564.4	519.6	ug/L	2.43	519.6	ug/L	2.43	0.47%
QC value within limits for Sb 206.836 Recovery = 103.91%								
Se 196.026	1468.3	447.4	ug/L	4.01	447.4	ug/L	4.01	0.90%
QC value within limits for Se 196.026 Recovery = 89.47%								
Sn 189.927	-341.4	-18.42	ug/L	0.294	-18.42	ug/L	0.294	1.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3688.9	0.446	ug/L	0.0433	0.446	ug/L	0.0433	9.70%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	369.0	-0.125	ug/L	0.5626	-0.125	ug/L	0.5626	450.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4536.9	458.4	ug/L	2.32	458.4	ug/L	2.32	0.51%
QC value within limits for Tl 190.801 Recovery = 91.68%								
V 292.402	76650.4	459.4	ug/L	1.00	459.4	ug/L	1.00	0.22%
QC value within limits for V 292.402 Recovery = 91.89%								
Zn 206.200	67436.4	886.9	ug/L	5.71	886.9	ug/L	5.71	0.64%
QC value within limits for Zn 206.200 Recovery = 88.69%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCV2 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/13/2008 8:49:32 AM
Data Type: Reprocessed on 8/13/2008 1:16:52 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68380.6	362.0	ug/L	1.42	362.0	ug/L	1.42	0.39%
QC value within limits for Ag 338.289 Recovery = 96.53%								
Al 308.215	64140.4	14880	ug/L	36.9	14880	ug/L	36.9	0.25%
QC value within limits for Al 308.215 Recovery = 99.21%								
As 188.979	3402.2	770.4	ug/L	3.31	770.4	ug/L	3.31	0.43%
QC value within limits for As 188.979 Recovery = 102.71%								
B	15701.5	747.6	ug/L	0.37	747.6	ug/L	0.37	0.05%
QC value within limits for B Recovery = 99.68%								
Ba 233.527	133738.9	770.9	ug/L	8.20	770.9	ug/L	8.20	1.06%
QC value within limits for Ba 233.527 Recovery = 102.78%								
Be 313.107	1039751.2	759.2	ug/L	4.30	759.2	ug/L	4.30	0.57%
QC value within limits for Be 313.107 Recovery = 101.22%								
Ca 315.887	920801.0	37290	ug/L	200.2	37290	ug/L	200.2	0.54%
QC value within limits for Ca 315.887 Recovery = 99.43%								
Cd 214.440	187378.6	791.7	ug/L	8.91	791.7	ug/L	8.91	1.13%
QC value within limits for Cd 214.440 Recovery = 105.56%								
Co 228.616	55125.8	785.6	ug/L	8.06	785.6	ug/L	8.06	1.03%
QC value within limits for Co 228.616 Recovery = 104.74%								
Cr 267.716	91108.2	773.7	ug/L	6.28	773.7	ug/L	6.28	0.81%
QC value within limits for Cr 267.716 Recovery = 103.16%								
Cu 327.393	146537.1	758.5	ug/L	2.85	758.5	ug/L	2.85	0.38%
QC value within limits for Cu 327.393 Recovery = 101.14%								
Fe 273.955	418233.9	15680	ug/L	150.2	15680	ug/L	150.2	0.96%
QC value within limits for Fe 273.955 Recovery = 104.53%								
K 766.490	56197.0	15120	ug/L	11.2	15120	ug/L	11.2	0.07%
QC value within limits for K 766.490 Recovery = 100.77%								
Mg 285.213	2030554.4	37910	ug/L	179.4	37910	ug/L	179.4	0.47%
QC value within limits for Mg 285.213 Recovery = 101.08%								
Mn 257.610	140076.5	758.0	ug/L	2.13	758.0	ug/L	2.13	0.28%
QC value within limits for Mn 257.610 Recovery = 101.07%								
Mo 202.031	21036.4	789.7	ug/L	2.18	789.7	ug/L	2.18	0.28%
QC value within limits for Mo 202.031 Recovery = 105.29%								
Na 589.592	278795.9	19860	ug/L	129.3	19860	ug/L	129.3	0.65%
QC value within limits for Na 589.592 Recovery = 105.91%								
Ni 231.604	38947.3	790.4	ug/L	7.41	790.4	ug/L	7.41	0.94%
QC value within limits for Ni 231.604 Recovery = 105.39%								
P 213.617	13548.3	3806	ug/L	14.2	3806	ug/L	14.2	0.37%
QC value within limits for P 213.617 Recovery = 101.50%								
Pb 220.353	8048.7	778.5	ug/L	2.47	778.5	ug/L	2.47	0.32%
QC value within limits for Pb 220.353 Recovery = 103.80%								
Sb 206.836	3702.6	750.2	ug/L	2.01	750.2	ug/L	2.01	0.27%
QC value within limits for Sb 206.836 Recovery = 100.03%								
Se 196.026	2506.1	763.5	ug/L	2.93	763.5	ug/L	2.93	0.38%
QC value within limits for Se 196.026 Recovery = 101.81%								
Sn 189.927	8424.9	768.5	ug/L	1.75	768.5	ug/L	1.75	0.23%
QC value within limits for Sn 189.927 Recovery = 102.47%								
Sr 421.552	1578914.9	751.1	ug/L	3.71	751.1	ug/L	3.71	0.49%
QC value within limits for Sr 421.552 Recovery = 100.14%								
Ti 337.279	91139.4	750.9	ug/L	0.86	750.9	ug/L	0.86	0.11%
QC value within limits for Ti 337.279 Recovery = 100.12%								
Tl 190.801	7999.7	815.8	ug/L	2.15	815.8	ug/L	2.15	0.26%
QC value within limits for Tl 190.801 Recovery = 108.78%								
V 292.402	129553.4	776.5	ug/L	5.34	776.5	ug/L	5.34	0.69%
QC value within limits for V 292.402 Recovery = 103.54%								
Zn 206.200	58467.8	795.6	ug/L	9.07	795.6	ug/L	9.07	1.14%
QC value within limits for Zn 206.200 Recovery = 106.08%								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/13/2008 8:53:10 AM
Data Type: Reprocessed on 8/13/2008 1:16:53 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-29.9	-0.158	ug/L	0.1889	-0.158	ug/L	0.1889	119.46%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.6	2.895	ug/L	1.5815	2.895	ug/L	1.5815	54.63%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.1	-0.016	ug/L	0.3892	-0.016	ug/L	0.3892	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B	153.9	7.327	ug/L	0.9648	7.327	ug/L	0.9648	13.17%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	12.3	0.070	ug/L	0.0815	0.070	ug/L	0.0815	116.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	184.7	0.134	ug/L	0.0170	0.134	ug/L	0.0170	12.67%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	287.5	11.64	ug/L	0.900	11.64	ug/L	0.900	7.73%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-29.3	-0.124	ug/L	0.0077	-0.124	ug/L	0.0077	6.18%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	28.0	0.400	ug/L	0.1244	0.400	ug/L	0.1244	31.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-23.1	-0.197	ug/L	0.1823	-0.197	ug/L	0.1823	92.74%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	138.8	0.720	ug/L	0.1456	0.720	ug/L	0.1456	20.23%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	76.1	2.878	ug/L	0.0245	2.878	ug/L	0.0245	0.85%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	1.0	0.260	ug/L	43.8419	0.260	ug/L	43.8419	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	307.1	5.732	ug/L	0.8811	5.732	ug/L	0.8811	15.37%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	16.8	0.091	ug/L	0.0783	0.091	ug/L	0.0783	86.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.2	0.534	ug/L	0.0666	0.534	ug/L	0.0666	12.48%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	296.5	21.16	ug/L	4.333	21.16	ug/L	4.333	20.48%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	37.2	0.756	ug/L	0.2692	0.756	ug/L	0.2692	35.61%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-5.6	-1.581	ug/L	0.8071	-1.581	ug/L	0.8071	51.05%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-29.5	-2.851	ug/L	0.4085	-2.851	ug/L	0.4085	14.33%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.1	0.623	ug/L	0.7687	0.623	ug/L	0.7687	123.29%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-7.0	-2.119	ug/L	0.5139	-2.119	ug/L	0.5139	24.26%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-12.7	-1.148	ug/L	0.2246	-1.148	ug/L	0.2246	19.57%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	164.3	0.078	ug/L	0.0161	0.078	ug/L	0.0161	20.62%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	2.6	0.021	ug/L	0.1486	0.021	ug/L	0.1486	701.67%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.0	0.295	ug/L	0.7340	0.295	ug/L	0.7340	249.16%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-19.2	-0.115	ug/L	0.0341	-0.115	ug/L	0.0341	29.67%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-458.9	-6.203	ug/L	0.1432	-6.203	ug/L	0.1432	2.31%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCV1 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2008 11:34:40 AM
Data Type: Reprocessed on 8/13/2008 1:17:31 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	91922.2	486.4	ug/L	1.92	486.4	ug/L	1.92	0.40%
QC value within limits for Ag 338.289 Recovery = 97.27%								
Al 308.215	88556.9	20550	ug/L	195.4	20550	ug/L	195.4	0.95%
QC value within limits for Al 308.215 Recovery = 102.73%								
As 188.979	4563.1	1033	ug/L	4.4	1033	ug/L	4.4	0.43%
QC value within limits for As 188.979 Recovery = 103.34%								
B	21988.6	1047	ug/L	10.6	1047	ug/L	10.6	1.01%
QC value within limits for B Recovery = 104.70%								
Ba 233.527	180412.0	1040	ug/L	10.0	1040	ug/L	10.0	0.96%
QC value within limits for Ba 233.527 Recovery = 103.99%								
Be 313.107	1432949.4	1046	ug/L	0.9	1046	ug/L	0.9	0.09%
QC value within limits for Be 313.107 Recovery = 104.62%								
Ca 315.887	1267434.3	51320	ug/L	81.5	51320	ug/L	81.5	0.16%
QC value within limits for Ca 315.887 Recovery = 102.65%								
Cd 214.440	249309.2	1053	ug/L	10.7	1053	ug/L	10.7	1.01%
QC value within limits for Cd 214.440 Recovery = 105.33%								
Co 228.616	74081.1	1056	ug/L	11.2	1056	ug/L	11.2	1.06%
QC value within limits for Co 228.616 Recovery = 105.56%								
Cr 267.716	122950.1	1044	ug/L	7.1	1044	ug/L	7.1	0.68%
QC value within limits for Cr 267.716 Recovery = 104.40%								
Cu 327.393	198633.8	1028	ug/L	3.6	1028	ug/L	3.6	0.35%
QC value within limits for Cu 327.393 Recovery = 102.80%								
Fe 273.955	560404.4	21010	ug/L	172.4	21010	ug/L	172.4	0.82%
QC value within limits for Fe 273.955 Recovery = 105.05%								
K 766.490	75207.0	20230	ug/L	209.8	20230	ug/L	209.8	1.04%
QC value within limits for K 766.490 Recovery = 101.15%								
Mg 285.213	2800763.4	52280	ug/L	45.2	52280	ug/L	45.2	0.09%
QC value within limits for Mg 285.213 Recovery = 104.57%								
Mn 257.610	196239.0	1062	ug/L	10.5	1062	ug/L	10.5	0.99%
QC value within limits for Mn 257.610 Recovery = 106.20%								
Mo 202.031	27870.4	1046	ug/L	9.7	1046	ug/L	9.7	0.93%
QC value within limits for Mo 202.031 Recovery = 104.62%								
Na 589.592	338040.3	24070	ug/L	115.6	24070	ug/L	115.6	0.48%
QC value within limits for Na 589.592 Recovery = 96.28%								
Ni 231.604	52079.7	1057	ug/L	8.8	1057	ug/L	8.8	0.83%
QC value within limits for Ni 231.604 Recovery = 105.70%								
P 213.617	18205.6	5114	ug/L	26.2	5114	ug/L	26.2	0.51%
QC value within limits for P 213.617 Recovery = 102.29%								
Pb 220.353	10878.5	1052	ug/L	7.0	1052	ug/L	7.0	0.67%
QC value within limits for Pb 220.353 Recovery = 105.22%								
Sb 206.836	5116.8	1037	ug/L	8.2	1037	ug/L	8.2	0.79%
QC value within limits for Sb 206.836 Recovery = 103.67%								
Se 196.026	3351.5	1021	ug/L	4.3	1021	ug/L	4.3	0.42%
QC value within limits for Se 196.026 Recovery = 102.11%								
Sn 189.927	11431.0	1043	ug/L	8.3	1043	ug/L	8.3	0.79%
QC value within limits for Sn 189.927 Recovery = 104.28%								
Sr 421.552	2156656.7	1026	ug/L	1.2	1026	ug/L	1.2	0.11%
QC value within limits for Sr 421.552 Recovery = 102.59%								
Ti 337.279	124224.9	1023	ug/L	9.1	1023	ug/L	9.1	0.89%
QC value within limits for Ti 337.279 Recovery = 102.35%								
Tl 190.801	10436.0	1065	ug/L	5.2	1065	ug/L	5.2	0.49%
QC value within limits for Tl 190.801 Recovery = 106.51%								
V 292.402	170976.8	1025	ug/L	3.1	1025	ug/L	3.1	0.30%
QC value within limits for V 292.402 Recovery = 102.48%								
Zn 206.200	77720.8	1058	ug/L	12.0	1058	ug/L	12.0	1.14%
QC value within limits for Zn 206.200 Recovery = 105.76%								

All analyte(s) passed QC.

Sequence No.: 43
Sample ID: CCB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2008 11:42:15 AM
Data Type: Reprocessed on 8/13/2008 1:17:32 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-51.8	-0.273	ug/L	0.1164	-0.273	ug/L	0.1164	42.69%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	65.9	15.27	ug/L	2.259	15.27	ug/L	2.259	14.80%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-4.2	-0.944	ug/L	0.7095	-0.944	ug/L	0.7095	75.16%
QC value within limits for As 188.979 Recovery = Not calculated								
B	489.1	23.29	ug/L	0.634	23.29	ug/L	0.634	2.72%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	43.2	0.246	ug/L	0.1068	0.246	ug/L	0.1068	43.48%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	37.3	0.028	ug/L	0.0111	0.028	ug/L	0.0111	39.98%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	595.9	24.11	ug/L	5.386	24.11	ug/L	5.386	22.34%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-72.6	-0.305	ug/L	0.0747	-0.305	ug/L	0.0747	24.46%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	7.1	0.101	ug/L	0.1416	0.101	ug/L	0.1416	139.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-47.1	-0.402	ug/L	0.0906	-0.402	ug/L	0.0906	22.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-5.7	-0.028	ug/L	0.1018	-0.028	ug/L	0.1018	360.96%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	347.5	13.10	ug/L	3.022	13.10	ug/L	3.022	23.07%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	624.0	168.2	ug/L	18.38	168.2	ug/L	18.38	10.93%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	491.3	9.156	ug/L	1.4462	9.156	ug/L	1.4462	15.79%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	200.7	1.088	ug/L	0.0281	1.088	ug/L	0.0281	2.59%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	7.0	0.264	ug/L	0.0924	0.264	ug/L	0.0924	34.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2734.2	195.0	ug/L	3.46	195.0	ug/L	3.46	1.77%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.1	-0.124	ug/L	0.3194	-0.124	ug/L	0.3194	256.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	5.7	1.593	ug/L	0.5617	1.593	ug/L	0.5617	35.25%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-31.1	-3.004	ug/L	0.1802	-3.004	ug/L	0.1802	6.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.1	0.434	ug/L	0.5083	0.434	ug/L	0.5083	117.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-7.8	-2.362	ug/L	0.4637	-2.362	ug/L	0.4637	19.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-5.2	-0.466	ug/L	0.5124	-0.466	ug/L	0.5124	109.99%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	296.6	0.141	ug/L	0.0164	0.141	ug/L	0.0164	11.65%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	28.5	0.235	ug/L	0.0487	0.235	ug/L	0.0487	20.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-5.1	-0.499	ug/L	0.3969	-0.499	ug/L	0.3969	79.47%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	2.7	0.016	ug/L	0.0295	0.016	ug/L	0.0295	180.67%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-514.1	-6.952	ug/L	0.1082	-6.952	ug/L	0.1082	1.56%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV2 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/13/2008 12:41:48 PM
Data Type: Reprocessed on 8/13/2008 1:17:47 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	69372.2	367.0	ug/L	1.42	367.0	ug/L	1.42	0.39%
QC value within limits for Ag 338.289 Recovery = 97.88%								
Al 308.215	67217.2	15590	ug/L	90.1	15590	ug/L	90.1	0.58%
QC value within limits for Al 308.215 Recovery = 103.96%								
As 188.979	3551.5	804.1	ug/L	5.31	804.1	ug/L	5.31	0.66%
QC value within limits for As 188.979 Recovery = 107.21%								
B	16601.2	790.5	ug/L	6.03	790.5	ug/L	6.03	0.76%
QC value within limits for B Recovery = 105.40%								
Ba 233.527	137342.4	791.6	ug/L	4.57	791.6	ug/L	4.57	0.58%
QC value within limits for Ba 233.527 Recovery = 105.55%								
Be 313.107	1122462.9	819.5	ug/L	8.43	819.5	ug/L	8.43	1.03%
QC value within limits for Be 313.107 Recovery = 109.27%								
Ca 315.887	977268.0	39570	ug/L	425.8	39570	ug/L	425.8	1.08%
QC value within limits for Ca 315.887 Recovery = 105.53%								
Cd 214.440	192232.0	812.2	ug/L	4.45	812.2	ug/L	4.45	0.55%
QC value within limits for Cd 214.440 Recovery = 108.29%								
Co 228.616	56915.5	811.1	ug/L	4.46	811.1	ug/L	4.46	0.55%
QC value within limits for Co 228.616 Recovery = 108.14%								
Cr 267.716	93480.8	793.7	ug/L	3.91	793.7	ug/L	3.91	0.49%
QC value within limits for Cr 267.716 Recovery = 105.83%								
Cu 327.393	150216.2	777.4	ug/L	2.72	777.4	ug/L	2.72	0.35%
QC value within limits for Cu 327.393 Recovery = 103.65%								
Fe 273.955	429492.5	16100	ug/L	84.3	16100	ug/L	84.3	0.52%
QC value within limits for Fe 273.955 Recovery = 107.36%								
K 766.490	56037.5	15070	ug/L	154.7	15070	ug/L	154.7	1.03%
QC value within limits for K 766.490 Recovery = 100.48%								
Mg 285.213	2170779.5	40520	ug/L	365.3	40520	ug/L	365.3	0.90%
QC value within limits for Mg 285.213 Recovery = 108.06%								
Mn 257.610	150463.7	814.2	ug/L	6.67	814.2	ug/L	6.67	0.82%
QC value within limits for Mn 257.610 Recovery = 108.57%								
Mo 202.031	22150.9	831.5	ug/L	3.98	831.5	ug/L	3.98	0.48%
QC value greater than the upper limit for Mo 202.031 Recovery = 110.87%								
Na 589.592	249176.2	17740	ug/L	127.3	17740	ug/L	127.3	0.72%
QC value within limits for Na 589.592 Recovery = 94.62%								
Ni 231.604	40266.9	817.2	ug/L	3.22	817.2	ug/L	3.22	0.39%
QC value within limits for Ni 231.604 Recovery = 108.96%								
P 213.617	14116.3	3966	ug/L	16.7	3966	ug/L	16.7	0.42%
QC value within limits for P 213.617 Recovery = 105.75%								
Pb 220.353	8441.4	816.5	ug/L	3.84	816.5	ug/L	3.84	0.47%
QC value within limits for Pb 220.353 Recovery = 108.87%								
Sb 206.836	3909.6	792.1	ug/L	3.14	792.1	ug/L	3.14	0.40%
QC value within limits for Sb 206.836 Recovery = 105.62%								
Se 196.026	2618.6	797.8	ug/L	3.56	797.8	ug/L	3.56	0.45%
QC value within limits for Se 196.026 Recovery = 106.38%								
Sn 189.927	8820.3	804.6	ug/L	4.15	804.6	ug/L	4.15	0.52%
QC value within limits for Sn 189.927 Recovery = 107.29%								
Sr 421.552	1676663.7	797.6	ug/L	6.98	797.6	ug/L	6.98	0.88%
QC value within limits for Sr 421.552 Recovery = 106.34%								
Ti 337.279	95992.8	790.9	ug/L	4.13	790.9	ug/L	4.13	0.52%
QC value within limits for Ti 337.279 Recovery = 105.45%								
Tl 190.801	8065.2	822.9	ug/L	4.85	822.9	ug/L	4.85	0.59%
QC value within limits for Tl 190.801 Recovery = 109.71%								
V 292.402	128630.3	771.0	ug/L	2.57	771.0	ug/L	2.57	0.33%
QC value within limits for V 292.402 Recovery = 102.80%								
Zn 206.200	59956.2	815.8	ug/L	4.35	815.8	ug/L	4.35	0.53%
QC value within limits for Zn 206.200 Recovery = 108.77%								

QC Failed. Continue with analysis.

Sequence No.: 56
Sample ID: CCB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/13/2008 12:47:36 PM
Data Type: Reprocessed on 8/13/2008 1:17:49 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-8.3	-0.033	ug/L	0.1782	-0.033	ug/L	0.1782	540.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	46.1	10.70	ug/L	2.805	10.70	ug/L	2.805	26.23%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.4	-0.310	ug/L	2.0453	-0.310	ug/L	2.0453	660.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B	381.5	18.17	ug/L	1.104	18.17	ug/L	1.104	6.08%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	13.6	0.075	ug/L	0.0577	0.075	ug/L	0.0577	77.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	61.3	0.046	ug/L	0.0412	0.046	ug/L	0.0412	89.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	164.6	6.659	ug/L	2.4035	6.659	ug/L	2.4035	36.09%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-87.3	-0.370	ug/L	0.0504	-0.370	ug/L	0.0504	13.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	2.4	0.034	ug/L	0.1284	0.034	ug/L	0.1284	381.41%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-32.8	-0.279	ug/L	0.0300	-0.279	ug/L	0.0300	10.74%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-45.5	-0.234	ug/L	0.1722	-0.234	ug/L	0.1722	73.59%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	336.0	12.65	ug/L	1.079	12.65	ug/L	1.079	8.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	83.3	22.39	ug/L	46.171	22.39	ug/L	46.171	206.18%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	375.7	7.013	ug/L	1.5212	7.013	ug/L	1.5212	21.69%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	157.4	0.854	ug/L	0.0495	0.854	ug/L	0.0495	5.79%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	9.5	0.358	ug/L	0.0570	0.358	ug/L	0.0570	15.91%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1522.0	108.6	ug/L	1.65	108.6	ug/L	1.65	1.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	20.3	0.412	ug/L	0.0765	0.412	ug/L	0.0765	18.56%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	10.8	3.047	ug/L	1.5090	3.047	ug/L	1.5090	49.53%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-32.2	-3.119	ug/L	0.0908	-3.119	ug/L	0.0908	2.91%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.0	0.409	ug/L	0.4863	0.409	ug/L	0.4863	118.91%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.2	0.070	ug/L	1.1636	0.070	ug/L	1.1636	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	12.6	1.149	ug/L	0.0772	1.149	ug/L	0.0772	6.72%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	254.9	0.121	ug/L	0.0238	0.121	ug/L	0.0238	19.66%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	53.0	0.437	ug/L	0.0549	0.437	ug/L	0.0549	12.58%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-3.7	-0.354	ug/L	0.3599	-0.354	ug/L	0.3599	101.64%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	23.8	0.142	ug/L	0.0473	0.142	ug/L	0.0473	33.19%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-525.6	-7.105	ug/L	0.1131	-7.105	ug/L	0.1131	1.59%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCV1 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/13/2008 1:00:15 PM
Data Type: Reprocessed on 8/13/2008 1:17:52 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	91351.4	483.3	ug/L	3.67	483.3	ug/L	3.67	0.76%
QC value within limits for Ag 338.289 Recovery = 96.67%								
Al 308.215	89617.5	20790	ug/L	114.2	20790	ug/L	114.2	0.55%
QC value within limits for Al 308.215 Recovery = 103.96%								
As 188.979	4631.2	1049	ug/L	8.1	1049	ug/L	8.1	0.77%
QC value within limits for As 188.979 Recovery = 104.89%								
B	22000.7	1048	ug/L	8.5	1048	ug/L	8.5	0.81%
QC value within limits for B Recovery = 104.76%								
Ba 233.527	179627.2	1035	ug/L	13.1	1035	ug/L	13.1	1.26%
QC value within limits for Ba 233.527 Recovery = 103.54%								
Be 313.107	1464295.3	1069	ug/L	7.8	1069	ug/L	7.8	0.73%
QC value within limits for Be 313.107 Recovery = 106.91%								
Ca 315.887	1274448.5	51610	ug/L	527.8	51610	ug/L	527.8	1.02%
QC value within limits for Ca 315.887 Recovery = 103.21%								
Cd 214.440	250024.2	1056	ug/L	14.5	1056	ug/L	14.5	1.37%
QC value within limits for Cd 214.440 Recovery = 105.64%								
Co 228.616	74213.0	1057	ug/L	11.0	1057	ug/L	11.0	1.04%
QC value within limits for Co 228.616 Recovery = 105.74%								
Cr 267.716	122370.8	1039	ug/L	11.1	1039	ug/L	11.1	1.07%
QC value within limits for Cr 267.716 Recovery = 103.90%								
Cu 327.393	198892.1	1029	ug/L	5.2	1029	ug/L	5.2	0.51%
QC value within limits for Cu 327.393 Recovery = 102.93%								
Fe 273.955	559579.6	20980	ug/L	233.1	20980	ug/L	233.1	1.11%
QC value within limits for Fe 273.955 Recovery = 104.90%								
K 766.490	74537.9	20050	ug/L	65.1	20050	ug/L	65.1	0.32%
QC value within limits for K 766.490 Recovery = 100.25%								
Mg 285.213	2842075.4	53050	ug/L	363.7	53050	ug/L	363.7	0.69%
QC value within limits for Mg 285.213 Recovery = 106.11%								
Mn 257.610	198916.2	1076	ug/L	7.9	1076	ug/L	7.9	0.73%
QC value within limits for Mn 257.610 Recovery = 107.65%								
Mo 202.031	27871.5	1046	ug/L	11.1	1046	ug/L	11.1	1.06%
QC value within limits for Mo 202.031 Recovery = 104.63%								
Na 589.592	322581.9	22970	ug/L	208.7	22970	ug/L	208.7	0.91%
QC value within limits for Na 589.592 Recovery = 91.87%								
Ni 231.604	52293.3	1061	ug/L	10.6	1061	ug/L	10.6	1.00%
QC value within limits for Ni 231.604 Recovery = 106.13%								
P 213.617	18463.8	5187	ug/L	27.0	5187	ug/L	27.0	0.52%
QC value within limits for P 213.617 Recovery = 103.74%								
Pb 220.353	10967.1	1061	ug/L	5.9	1061	ug/L	5.9	0.56%
QC value within limits for Pb 220.353 Recovery = 106.08%								
Sb 206.836	5127.8	1039	ug/L	4.5	1039	ug/L	4.5	0.43%
QC value within limits for Sb 206.836 Recovery = 103.90%								
Se 196.026	3407.7	1038	ug/L	3.4	1038	ug/L	3.4	0.32%
QC value within limits for Se 196.026 Recovery = 103.82%								
Sn 189.927	11572.2	1056	ug/L	4.7	1056	ug/L	4.7	0.44%
QC value within limits for Sn 189.927 Recovery = 105.57%								
Sr 421.552	2197114.9	1045	ug/L	7.0	1045	ug/L	7.0	0.67%
QC value within limits for Sr 421.552 Recovery = 104.52%								
Ti 337.279	126956.5	1046	ug/L	7.2	1046	ug/L	7.2	0.69%
QC value within limits for Ti 337.279 Recovery = 104.60%								
Tl 190.801	10412.3	1063	ug/L	3.0	1063	ug/L	3.0	0.28%
QC value within limits for Tl 190.801 Recovery = 106.29%								
V 292.402	168937.9	1013	ug/L	9.0	1013	ug/L	9.0	0.89%
QC value within limits for V 292.402 Recovery = 101.26%								
Zn 206.200	78030.3	1062	ug/L	16.1	1062	ug/L	16.1	1.52%
QC value within limits for Zn 206.200 Recovery = 106.17%								

All analyte(s) passed QC.

Sequence No.: 59
Sample ID: CCB 080812SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/13/2008 1:06:45 PM
Data Type: Reprocessed on 8/13/2008 1:17:53 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080812SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-13.0	-0.062	ug/L	0.0045	-0.062	ug/L	0.0045	7.26%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	34.1	7.901	ug/L	3.4795	7.901	ug/L	3.4795	44.04%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.0	0.898	ug/L	1.0327	0.898	ug/L	1.0327	115.04%
QC value within limits for As 188.979 Recovery = Not calculated								
B	344.3	16.39	ug/L	0.531	16.39	ug/L	0.531	3.24%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.5	0.051	ug/L	0.0405	0.051	ug/L	0.0405	79.13%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-19.7	-0.013	ug/L	0.0227	-0.013	ug/L	0.0227	176.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	138.3	5.593	ug/L	0.1273	5.593	ug/L	0.1273	2.28%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-98.2	-0.416	ug/L	0.0699	-0.416	ug/L	0.0699	16.83%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-11.1	-0.158	ug/L	0.2536	-0.158	ug/L	0.2536	160.56%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-26.2	-0.223	ug/L	0.1484	-0.223	ug/L	0.1484	66.55%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-73.0	-0.376	ug/L	0.1338	-0.376	ug/L	0.1338	35.57%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	307.2	11.57	ug/L	0.647	11.57	ug/L	0.647	5.59%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	67.2	18.06	ug/L	54.102	18.06	ug/L	54.102	299.58%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	231.6	4.326	ug/L	0.6666	4.326	ug/L	0.6666	15.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	167.5	0.909	ug/L	0.0535	0.909	ug/L	0.0535	5.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	9.7	0.365	ug/L	0.1437	0.365	ug/L	0.1437	39.40%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1349.1	96.29	ug/L	6.187	96.29	ug/L	6.187	6.43%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	5.6	0.113	ug/L	0.2169	0.113	ug/L	0.2169	191.59%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	8.7	2.431	ug/L	0.4524	2.431	ug/L	0.4524	18.61%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-28.8	-2.783	ug/L	0.6778	-2.783	ug/L	0.6778	24.35%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.877	ug/L	0.3565	0.877	ug/L	0.3565	40.65%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.8	0.542	ug/L	0.1794	0.542	ug/L	0.1794	33.12%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.0	1.359	ug/L	0.0504	1.359	ug/L	0.0504	3.70%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	173.0	0.082	ug/L	0.0176	0.082	ug/L	0.0176	21.36%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	55.1	0.454	ug/L	0.1206	0.454	ug/L	0.1206	26.55%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.7	-0.461	ug/L	0.2337	-0.461	ug/L	0.2337	50.69%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	14.9	0.089	ug/L	0.0683	0.089	ug/L	0.0683	76.40%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-490.9	-6.635	ug/L	0.0894	-6.635	ug/L	0.0894	1.35%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 1
Sample ID: CalBlk 080818SDM I:PB O:S
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 8:57:33 AM
Data Type: Reprocessed on 8/20/2008 3:02:19 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 080818SDM I:PB O:S

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	31.9	11.16	34.98%	[0.00]	ug/L
Al 308.215	262.7	11.01	4.19%	[0.00]	ug/L
As 188.979	-3.3	1.59	47.62%	[0.00]	ug/L
B	-86.3	3.82	4.42%	[0.00]	ug/L
Ba 233.527	79.3	12.58	15.88%	[0.00]	ug/L
Be 313.107	-225.4	12.13	5.38%	[0.00]	ug/L
Ca 315.887	-822.8	28.95	3.52%	[0.00]	ug/L
Cd 214.440	-181.2	5.54	3.06%	[0.00]	ug/L
Co 228.616	9.8	11.59	118.56%	[0.00]	ug/L
Cr 267.716	387.2	13.60	3.51%	[0.00]	ug/L
Cu 327.393	771.0	31.76	4.12%	[0.00]	ug/L
Fe 273.955	-112.1	6.38	5.69%	[0.00]	ug/L
K 766.490	936.0	161.34	17.24%	[0.00]	ug/L
Mg 285.213	-167.8	16.66	9.93%	[0.00]	ug/L
Mn 257.610	-43.3	6.25	14.46%	[0.00]	ug/L
Mo 202.031	-1.5	2.12	141.91%	[0.00]	ug/L
Na 589.592	579.2	36.00	6.22%	[0.00]	ug/L
Ni 231.604	-306.7	9.30	3.03%	[0.00]	ug/L
P 213.617	32.5	1.90	5.83%	[0.00]	ug/L
Pb 220.353	-17.8	3.64	20.49%	[0.00]	ug/L
Sb 206.836	1.4	10.73	768.33%	[0.00]	ug/L
Se 196.026	8.0	12.12	152.02%	[0.00]	ug/L
Sn 189.927	107.0	9.17	8.57%	[0.00]	ug/L
Sr 421.552	494.4	140.61	28.44%	[0.00]	ug/L
Ti 337.279	-497.4	10.79	2.17%	[0.00]	ug/L
Tl 190.801	-134.8	2.39	1.77%	[0.00]	ug/L
V 292.402	74.4	2.25	3.02%	[0.00]	ug/L
Zn 206.200	209.3	6.72	3.21%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/20/2008 9:02:20 AM
Data Type: Reprocessed on 8/20/2008 3:02:20 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	216.2	40.50	18.73%	[1.00]	ug/L
Al 308.215	469.0	11.00	2.35%	[100.00]	ug/L
As 188.979	16.4	2.92	17.77%	[3.50]	ug/L
B	1070.9	7.92	0.74%	[50.00]	ug/L
Ba 233.527	1073.7	2.28	0.21%	[5.00]	ug/L
Be 313.107	3080.8	21.97	0.71%	[2.00]	ug/L
Ca 315.887	3240.1	21.44	0.66%	[100.00]	ug/L
Cd 214.440	1052.5	3.72	0.35%	[5.00]	ug/L
Co 228.616	443.3	8.45	1.91%	[5.00]	ug/L
Cr 267.716	714.1	19.68	2.76%	[5.00]	ug/L
Cu 327.393	1061.3	33.73	3.18%	[5.00]	ug/L
Fe 273.955	1624.1	22.52	1.39%	[50.00]	ug/L
K 766.490	3634.5	114.92	3.16%	[1000.00]	ug/L
Mg 285.213	3370.8	7.17	0.21%	[50]	ug/L
Mn 257.610	1186.7	6.71	0.57%	[5.00]	ug/L
Mo 202.031	161.4	1.23	0.76%	[5.00]	ug/L
Na 589.592	12651.4	131.01	1.04%	[1000.00]	ug/L
Ni 231.604	305.1	10.92	3.58%	[5.00]	ug/L
P 213.617	94.0	0.74	0.79%	[25.00]	ug/L
Pb 220.353	34.9	2.21	6.33%	[3.00]	ug/L
Sb 206.836	13.5	7.81	57.82%	[5.00]	ug/L
Se 196.026	12.8	6.95	54.34%	[5.00]	ug/L
Sn 189.927	64.3	4.18	6.51%	[5.00]	ug/L
Sr 421.552	11533.9	158.80	1.38%	[5.00]	ug/L
Ti 337.279	714.1	9.10	1.27%	[5.00]	ug/L
Tl 190.801	59.9	7.79	13.01%	[5.00]	ug/L
V 292.402	869.5	1.90	0.22%	[5.00]	ug/L
Zn 206.200	2181.6	15.00	0.69%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/20/2008 9:07:08 AM
Data Type: Reprocessed on 8/20/2008 3:02:21 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	92336.2	479.80	0.52%	[500.0]	ug/L
Al 308.215	91572.0	882.18	0.96%	[20000.00]	ug/L
As 188.979	3776.0	23.23	0.62%	[1000.00]	ug/L
B	22415.1	221.96	0.99%	[1000.00]	ug/L
Ba 233.527	193554.0	597.05	0.31%	[1000.00]	ug/L
Be 313.107	1475148.2	4256.14	0.29%	[1000.00]	ug/L
Ca 315.887	1383510.9	6570.41	0.47%	[50000]	ug/L
Cd 214.440	187236.5	586.43	0.31%	[1000.00]	ug/L
Co 228.616	77154.4	415.10	0.54%	[1000.00]	ug/L
Cr 267.716	129696.9	370.58	0.29%	[1000.00]	ug/L
Cu 327.393	197508.7	1422.08	0.72%	[1000.00]	ug/L
Fe 273.955	589333.8	1805.04	0.31%	[20000]	ug/L
K 766.490	78631.0	508.01	0.65%	[20000]	ug/L
Mg 285.213	3058334.2	9193.33	0.30%	[50000]	ug/L
Mn 257.610	197618.8	2091.61	1.06%	[1000.00]	ug/L
Mo 202.031	29338.5	143.44	0.49%	[1000.00]	ug/L
Na 589.592	315872.6	2131.25	0.67%	[25000]	ug/L
Ni 231.604	56040.2	274.30	0.49%	[1000.00]	ug/L
P 213.617	19792.4	37.95	0.19%	[5000]	ug/L
Pb 220.353	11986.6	33.85	0.28%	[1000.00]	ug/L
Sb 206.836	4682.8	43.02	0.92%	[1000.00]	ug/L
Se 196.026	3686.8	18.09	0.49%	[1000.00]	ug/L
Sn 189.927	12484.9	54.83	0.44%	[1000.00]	ug/L
Sr 421.552	2242981.7	4495.75	0.20%	[1000.00]	ug/L
Ti 337.279	137517.9	1341.11	0.98%	[1000.00]	ug/L
Tl 190.801	10868.8	37.88	0.35%	[1000.00]	ug/L
V 292.402	167248.7	537.99	0.32%	[1000.00]	ug/L
Zn 206.200	86523.4	398.79	0.46%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 8/20/2008 9:10:07 AM
Data Type: Reprocessed on 8/20/2008 3:02:22 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	181561.1	1240.87	0.68%	[1000.00]	ug/L
Al 308.215	182658.3	606.82	0.33%	[40000.00]	ug/L
As 188.979	7288.0	122.87	1.69%	[2000.00]	ug/L
B	44443.1	308.90	0.70%	[2000.00]	ug/L
Ba 233.527	373502.3	3332.33	0.89%	[2000.00]	ug/L
Be 313.107	2874316.9	7735.82	0.27%	[2000.00]	ug/L
Ca 315.887	2760344.8	7290.92	0.26%	[100000.0]	ug/L
Cd 214.440	355427.5	2552.67	0.72%	[2000.00]	ug/L
Co 228.616	147674.4	1348.81	0.91%	[2000.00]	ug/L
Cr 267.716	251174.3	2415.46	0.96%	[2000.00]	ug/L
Cu 327.393	389071.3	2548.72	0.66%	[2000.00]	ug/L
Fe 273.955	1127194.5	10439.76	0.93%	[40000]	ug/L
K 766.490	157792.3	297.35	0.19%	[40000]	ug/L
Mg 285.213	5944739.8	19521.46	0.33%	[100000]	ug/L
Mn 257.610	386001.5	1228.83	0.32%	[2000.00]	ug/L
Mo 202.031	57385.0	699.60	1.22%	[2000.00]	ug/L
Na 589.592	631354.0	5756.62	0.91%	[50000]	ug/L
Ni 231.604	106605.3	994.42	0.93%	[2000.00]	ug/L
P 213.617	38343.4	446.54	1.16%	[10000]	ug/L
Pb 220.353	22542.7	163.50	0.73%	[2000.00]	ug/L
Sb 206.836	8991.9	122.22	1.36%	[2000.00]	ug/L
Se 196.026	7004.7	31.31	0.45%	[2000.00]	ug/L
Sn 189.927	23996.4	328.27	1.37%	[2000.00]	ug/L
Sr 421.552	4414350.4	16057.98	0.36%	[2000.00]	ug/L
Ti 337.279	271479.9	1079.76	0.40%	[2000.00]	ug/L
Tl 190.801	20193.1	241.34	1.20%	[2000.00]	ug/L
V 292.402	328320.4	1838.40	0.56%	[2000.00]	ug/L
Zn 206.200	163709.1	1509.65	0.92%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	182.2	0.00000	0.999977	
Al 308.215	3	Lin Thru 0	0.0	4.569	0.00000	0.999999	
As 188.979	3	Lin Thru 0	0.0	3.670	0.00000	0.999897	
B	3	Lin Thru 0	0.0	22.26	0.00000	0.999994	
Ba 233.527	3	Lin Thru 0	0.0	188.1	0.00000	0.999895	
Be 313.107	3	Lin Thru 0	0.0	1445	0.00000	0.999945	
Ca 315.887	3	Lin Thru 0	0.0	27.62	0.00000	1.000000	
Cd 214.440	3	Lin Thru 0	0.0	179.6	0.00000	0.999775	
Co 228.616	3	Lin Thru 0	0.0	74.50	0.00000	0.999841	
Cr 267.716	3	Lin Thru 0	0.0	126.4	0.00000	0.999915	
Cu 327.393	3	Lin Thru 0	0.0	195.1	0.00000	0.999981	
Fe 273.955	3	Lin Thru 0	0.0	28.44	0.00000	0.999836	
K 766.490	3	Lin Thru 0	0.0	3.942	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	59.79	0.00000	0.999934	
Mn 257.610	3	Lin Thru 0	0.0	193.9	0.00000	0.999955	
Mo 202.031	3	Lin Thru 0	0.0	28.82	0.00000	0.999960	
Na 589.592	3	Lin Thru 0	0.0	12.63	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	53.85	0.00000	0.999793	
P 213.617	3	Lin Thru 0	0.0	3.859	0.00000	0.999917	
Pb 220.353	3	Lin Thru 0	0.0	11.41	0.00000	0.999686	
Sb 206.836	3	Lin Thru 0	0.0	4.533	0.00000	0.999864	
Se 196.026	3	Lin Thru 0	0.0	3.539	0.00000	0.999783	
Sn 189.927	3	Lin Thru 0	0.0	12.10	0.00000	0.999870	
Sr 421.552	3	Lin Thru 0	0.0	2214	0.00000	0.999979	
Ti 337.279	3	Lin Thru 0	0.0	136.1	0.00000	0.999986	

Tl 190.801	3	Lin Thru 0	0.0	10.25	0.00000	0.999546
V 292.402	3	Lin Thru 0	0.0	164.8	0.00000	0.999972
Zn 206.200	3	Lin Thru 0	0.0	82.79	0.00000	0.999742

Sequence No.: 6
Sample ID: ICV 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/20/2008 9:17:46 AM
Data Type: Reprocessed on 8/20/2008 3:02:25 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	94591.6	493.6	ug/L	3.09	493.6	ug/L	3.09	0.63%
QC value within limits for Ag 338.289 Recovery = 98.72%								
Al 308.215	115603.3	25290	ug/L	390.4	25290	ug/L	390.4	1.54%
QC value within limits for Al 308.215 Recovery = 101.18%								
As 188.979	3560.5	970.1	ug/L	7.63	970.1	ug/L	7.63	0.79%
QC value within limits for As 188.979 Recovery = 97.01%								
B	22599.1	1015	ug/L	18.8	1015	ug/L	18.8	1.85%
QC value within limits for B Recovery = 101.52%								
Ba 233.527	196481.6	1034	ug/L	8.5	1034	ug/L	8.5	0.82%
QC value within limits for Ba 233.527 Recovery = 103.40%								
Be 313.107	1445508.2	1004	ug/L	0.7	1004	ug/L	0.7	0.07%
QC value within limits for Be 313.107 Recovery = 100.37%								
Ca 315.887	704640.7	25500	ug/L	77.1	25500	ug/L	77.1	0.30%
QC value within limits for Ca 315.887 Recovery = 102.00%								
Cd 214.440	190644.3	1061	ug/L	12.8	1061	ug/L	12.8	1.20%
QC value within limits for Cd 214.440 Recovery = 106.14%								
Co 228.616	78946.4	1059	ug/L	8.8	1059	ug/L	8.8	0.83%
QC value within limits for Co 228.616 Recovery = 105.90%								
Cr 267.716	128704.7	1019	ug/L	7.3	1019	ug/L	7.3	0.71%
QC value within limits for Cr 267.716 Recovery = 101.88%								
Cu 327.393	198882.9	1021	ug/L	5.8	1021	ug/L	5.8	0.57%
QC value within limits for Cu 327.393 Recovery = 102.09%								
Fe 273.955	762864.3	26720	ug/L	226.1	26720	ug/L	226.1	0.85%
QC value within limits for Fe 273.955 Recovery = 106.88%								
K 766.490	99719.6	25230	ug/L	407.9	25230	ug/L	407.9	1.62%
QC value within limits for K 766.490 Recovery = 100.94%								
Mg 285.213	1552135.0	25990	ug/L	4.3	25990	ug/L	4.3	0.02%
QC value within limits for Mg 285.213 Recovery = 103.94%								
Mn 257.610	198191.6	1021	ug/L	15.2	1021	ug/L	15.2	1.49%
QC value within limits for Mn 257.610 Recovery = 102.11%								
Mo 202.031	30566.6	1061	ug/L	15.4	1061	ug/L	15.4	1.45%
QC value within limits for Mo 202.031 Recovery = 106.05%								
Na 589.592	318053.9	25130	ug/L	236.8	25130	ug/L	236.8	0.94%
QC value within limits for Na 589.592 Recovery = 100.51%								
Ni 231.604	57223.9	1059	ug/L	10.6	1059	ug/L	10.6	1.00%
QC value within limits for Ni 231.604 Recovery = 105.90%								
P 213.617	18694.3	4844	ug/L	26.1	4844	ug/L	26.1	0.54%
QC value within limits for P 213.617 Recovery = 96.88%								
Pb 220.353	11999.9	1051	ug/L	4.9	1051	ug/L	4.9	0.46%
QC value within limits for Pb 220.353 Recovery = 105.13%								
Sb 206.836	4512.4	995.4	ug/L	8.48	995.4	ug/L	8.48	0.85%
QC value within limits for Sb 206.836 Recovery = 99.54%								
Se 196.026	3607.1	1019	ug/L	5.5	1019	ug/L	5.5	0.54%
QC value within limits for Se 196.026 Recovery = 101.92%								
Sn 189.927	3209.1	268.9	ug/L	2.18	268.9	ug/L	2.18	0.81%
QC value less than the lower limit for Sn 189.927 Recovery = 53.78%								
Sr 421.552	2119448.5	956.9	ug/L	0.80	956.9	ug/L	0.80	0.08%
QC value within limits for Sr 421.552 Recovery = 95.69%								
Ti 337.279	128838.6	946.3	ug/L	14.81	946.3	ug/L	14.81	1.57%
QC value within limits for Ti 337.279 Recovery = 94.63%								
Tl 190.801	10997.2	1093	ug/L	6.4	1093	ug/L	6.4	0.59%
QC value within limits for Tl 190.801 Recovery = 109.28%								
V 292.402	174908.7	1061	ug/L	10.3	1061	ug/L	10.3	0.97%
QC value within limits for V 292.402 Recovery = 106.15%								
Zn 206.200	89346.9	1087	ug/L	13.4	1087	ug/L	13.4	1.23%
QC value within limits for Zn 206.200 Recovery = 108.71%								

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: ICB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 9:27:48 AM
Data Type: Reprocessed on 8/20/2008 3:02:28 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	18.1	0.102	ug/L	0.0439	0.102	ug/L	0.0439	42.84%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-10.4	-2.287	ug/L	3.9047	-2.287	ug/L	3.9047	170.70%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.0	1.916	ug/L	0.8245	1.916	ug/L	0.8245	43.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B	106.7	4.794	ug/L	0.2406	4.794	ug/L	0.2406	5.02%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	35.0	0.185	ug/L	0.0332	0.185	ug/L	0.0332	17.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	114.4	0.079	ug/L	0.0098	0.079	ug/L	0.0098	12.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	168.6	6.102	ug/L	4.0210	6.102	ug/L	4.0210	65.90%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-5.9	-0.033	ug/L	0.0495	-0.033	ug/L	0.0495	150.75%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	0.4	0.006	ug/L	0.0406	0.006	ug/L	0.0406	706.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-6.1	-0.049	ug/L	0.0373	-0.049	ug/L	0.0373	76.80%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	94.7	0.485	ug/L	0.0752	0.485	ug/L	0.0752	15.48%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	97.5	3.432	ug/L	0.2133	3.432	ug/L	0.2133	6.22%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	26.5	6.705	ug/L	20.8933	6.705	ug/L	20.8933	311.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	69.7	1.169	ug/L	0.4701	1.169	ug/L	0.4701	40.21%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.1	0.026	ug/L	0.0372	0.026	ug/L	0.0372	142.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.8	0.235	ug/L	0.0541	0.235	ug/L	0.0541	23.02%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	50.6	3.999	ug/L	18.7540	3.999	ug/L	18.7540	469.02%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-1.9	-0.037	ug/L	0.2696	-0.037	ug/L	0.2696	734.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-7.8	-2.010	ug/L	0.6933	-2.010	ug/L	0.6933	34.49%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	5.3	0.465	ug/L	0.6395	0.465	ug/L	0.6395	137.44%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.8	-0.400	ug/L	1.1651	-0.400	ug/L	1.1651	291.63%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-7.2	-2.031	ug/L	0.2013	-2.031	ug/L	0.2013	9.91%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	23.8	1.969	ug/L	0.7515	1.969	ug/L	0.7515	38.16%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	51.0	0.023	ug/L	0.0174	0.023	ug/L	0.0174	75.82%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	0.2	0.001	ug/L	0.0564	0.001	ug/L	0.0564	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	9.4	0.917	ug/L	0.7346	0.917	ug/L	0.7346	80.12%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-2.3	-0.014	ug/L	0.0229	-0.014	ug/L	0.0229	163.79%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	58.2	0.702	ug/L	0.0628	0.702	ug/L	0.0628	8.95%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/20/2008 9:32:26 AM
Data Type: Reprocessed on 8/20/2008 3:02:29 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	90722.1	471.9	ug/L	2.89	471.9	ug/L	2.89	0.61%
QC value within limits for Ag 338.289 Recovery = 94.39%								
Al 308.215	86845.1	18990	ug/L	176.0	18990	ug/L	176.0	0.93%
QC value within limits for Al 308.215 Recovery = 94.97%								
As 188.979	3573.9	973.7	ug/L	8.35	973.7	ug/L	8.35	0.86%
QC value within limits for As 188.979 Recovery = 97.37%								
B	21063.7	946.3	ug/L	8.68	946.3	ug/L	8.68	0.92%
QC value within limits for B Recovery = 94.63%								
Ba 233.527	189523.7	999.8	ug/L	9.47	999.8	ug/L	9.47	0.95%
QC value within limits for Ba 233.527 Recovery = 99.98%								
Be 313.107	1382480.5	960.1	ug/L	6.18	960.1	ug/L	6.18	0.64%
QC value within limits for Be 313.107 Recovery = 96.01%								
Ca 315.887	1309416.0	47400	ug/L	360.5	47400	ug/L	360.5	0.76%
QC value within limits for Ca 315.887 Recovery = 94.80%								
Cd 214.440	181820.7	1012	ug/L	12.3	1012	ug/L	12.3	1.22%
QC value within limits for Cd 214.440 Recovery = 101.23%								
Co 228.616	75394.6	1011	ug/L	9.7	1011	ug/L	9.7	0.96%
QC value within limits for Co 228.616 Recovery = 101.13%								
Cr 267.716	126967.9	1004	ug/L	8.6	1004	ug/L	8.6	0.86%
QC value within limits for Cr 267.716 Recovery = 100.42%								
Cu 327.393	193204.8	987.3	ug/L	2.51	987.3	ug/L	2.51	0.25%
QC value within limits for Cu 327.393 Recovery = 98.73%								
Fe 273.955	574124.3	20090	ug/L	183.3	20090	ug/L	183.3	0.91%
QC value within limits for Fe 273.955 Recovery = 100.45%								
K 766.490	75550.4	19110	ug/L	184.6	19110	ug/L	184.6	0.97%
QC value within limits for K 766.490 Recovery = 95.54%								
Mg 285.213	2923631.4	48920	ug/L	266.5	48920	ug/L	266.5	0.54%
QC value within limits for Mg 285.213 Recovery = 97.83%								
Mn 257.610	186522.4	958.4	ug/L	8.82	958.4	ug/L	8.82	0.92%
QC value within limits for Mn 257.610 Recovery = 95.84%								
Mo 202.031	28984.1	1006	ug/L	6.2	1006	ug/L	6.2	0.61%
QC value within limits for Mo 202.031 Recovery = 100.56%								
Na 589.592	310102.7	24500	ug/L	88.7	24500	ug/L	88.7	0.36%
QC value within limits for Na 589.592 Recovery = 97.99%								
Ni 231.604	54445.4	1008	ug/L	8.5	1008	ug/L	8.5	0.85%
QC value within limits for Ni 231.604 Recovery = 100.76%								
P 213.617	18663.2	4836	ug/L	28.8	4836	ug/L	28.8	0.60%
QC value within limits for P 213.617 Recovery = 96.72%								
Pb 220.353	11538.0	1011	ug/L	5.8	1011	ug/L	5.8	0.57%
QC value within limits for Pb 220.353 Recovery = 101.08%								
Sb 206.836	4486.7	989.7	ug/L	7.76	989.7	ug/L	7.76	0.78%
QC value within limits for Sb 206.836 Recovery = 98.97%								
Se 196.026	3475.1	981.9	ug/L	7.33	981.9	ug/L	7.33	0.75%
QC value within limits for Se 196.026 Recovery = 98.19%								
Sn 189.927	12019.6	999.9	ug/L	3.36	999.9	ug/L	3.36	0.34%
QC value within limits for Sn 189.927 Recovery = 99.99%								
Sr 421.552	2129014.5	961.2	ug/L	5.12	961.2	ug/L	5.12	0.53%
QC value within limits for Sr 421.552 Recovery = 96.12%								
Ti 337.279	129403.5	950.1	ug/L	9.29	950.1	ug/L	9.29	0.98%
QC value within limits for Ti 337.279 Recovery = 95.01%								
Tl 190.801	10516.5	1045	ug/L	3.3	1045	ug/L	3.3	0.32%
QC value within limits for Tl 190.801 Recovery = 104.51%								
V 292.402	164019.4	995.4	ug/L	6.60	995.4	ug/L	6.60	0.66%
QC value within limits for V 292.402 Recovery = 99.54%								
Zn 206.200	83885.6	1021	ug/L	11.7	1021	ug/L	11.7	1.14%
QC value within limits for Zn 206.200 Recovery = 102.05%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 9:38:25 AM
Data Type: Reprocessed on 8/20/2008 3:02:31 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	60.2	0.334	ug/L	0.0980	0.334	ug/L	0.0980	29.34%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.9	-3.046	ug/L	1.9363	-3.046	ug/L	1.9363	63.57%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	1.006	ug/L	0.7678	1.006	ug/L	0.7678	76.33%
QC value within limits for As 188.979 Recovery = Not calculated								
B	152.0	6.829	ug/L	0.4447	6.829	ug/L	0.4447	6.51%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	43.6	0.230	ug/L	0.0100	0.230	ug/L	0.0100	4.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	167.8	0.116	ug/L	0.0114	0.116	ug/L	0.0114	9.78%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	365.2	13.22	ug/L	0.543	13.22	ug/L	0.543	4.10%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-5.6	-0.031	ug/L	0.0337	-0.031	ug/L	0.0337	107.75%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	6.5	0.087	ug/L	0.1249	0.087	ug/L	0.1249	143.26%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-9.2	-0.073	ug/L	0.0539	-0.073	ug/L	0.0539	74.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	50.7	0.259	ug/L	0.0465	0.259	ug/L	0.0465	17.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	110.8	3.895	ug/L	0.4433	3.895	ug/L	0.4433	11.38%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-94.0	-23.86	ug/L	57.291	-23.86	ug/L	57.291	240.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	159.7	2.675	ug/L	0.4429	2.675	ug/L	0.4429	16.56%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	14.5	0.075	ug/L	0.0567	0.075	ug/L	0.0567	75.92%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.9	0.204	ug/L	0.1183	0.204	ug/L	0.1183	58.06%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	182.6	14.48	ug/L	15.933	14.48	ug/L	15.933	110.06%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-5.8	-0.109	ug/L	0.1433	-0.109	ug/L	0.1433	131.47%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-6.3	-1.642	ug/L	0.1134	-1.642	ug/L	0.1134	6.90%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.4	0.209	ug/L	0.1828	0.209	ug/L	0.1828	87.58%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.4	-0.087	ug/L	2.0917	-0.087	ug/L	2.0917	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-3.7	-1.033	ug/L	0.7463	-1.033	ug/L	0.7463	72.22%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	42.5	3.517	ug/L	0.2787	3.517	ug/L	0.2787	7.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	205.5	0.093	ug/L	0.0571	0.093	ug/L	0.0571	61.64%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	6.0	0.044	ug/L	0.0877	0.044	ug/L	0.0877	200.99%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	31.0	3.024	ug/L	0.4830	3.024	ug/L	0.4830	15.97%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.2	0.025	ug/L	0.0120	0.025	ug/L	0.0120	47.49%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	74.5	0.899	ug/L	0.0872	0.899	ug/L	0.0872	9.70%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSA 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 8/20/2008 9:43:09 AM
Data Type: Reprocessed on 8/20/2008 3:02:32 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-1496.8	1.019	ug/L	0.1390	1.019	ug/L	0.1390	13.63%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	852160.7	186500	ug/L	609.9	186500	ug/L	609.9	0.33%
QC value within limits for Al 308.215 Recovery = 93.23%								
As 188.979	16.4	4.461	ug/L	3.3171	4.461	ug/L	3.3171	74.36%
QC value within limits for As 188.979 Recovery = Not calculated								
B	4381.6	196.8	ug/L	2.23	196.8	ug/L	2.23	1.13%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	13472.9	-0.002	ug/L	1.1766	-0.002	ug/L	1.1766	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	200.1	0.229	ug/L	0.0880	0.229	ug/L	0.0880	38.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4984090.6	180400	ug/L	2005.9	180400	ug/L	2005.9	1.11%
QC value within limits for Ca 315.887 Recovery = 90.21%								
Cd 214.440	414.0	2.305	ug/L	0.1151	2.305	ug/L	0.1151	4.99%
QC value greater than the upper limit for Cd 214.440 Recovery = Not calculated								
Co 228.616	462.4	0.523	ug/L	0.1914	0.523	ug/L	0.1914	36.58%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	607.2	-0.443	ug/L	0.1577	-0.443	ug/L	0.1577	35.58%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-686.6	-0.182	ug/L	0.4883	-0.182	ug/L	0.4883	267.94%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4700213.0	165300	ug/L	990.3	165300	ug/L	990.3	0.60%
QC value within limits for Fe 273.955 Recovery = 82.64%								
K 766.490	568.6	-124.1	ug/L	26.72	-124.1	ug/L	26.72	21.53%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	10305277.6	172500	ug/L	1313.1	172500	ug/L	1313.1	0.76%
QC value within limits for Mg 285.213 Recovery = 86.27%								
Mn 257.610	1237.8	-0.683	ug/L	0.3233	-0.683	ug/L	0.3233	47.33%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	15.7	0.544	ug/L	0.2982	0.544	ug/L	0.2982	54.83%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	896.8	-151.7	ug/L	5.24	-151.7	ug/L	5.24	3.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	318.7	-0.066	ug/L	0.4880	-0.066	ug/L	0.4880	736.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	3.7	0.963	ug/L	0.7384	0.963	ug/L	0.7384	76.65%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	27.5	2.411	ug/L	0.8203	2.411	ug/L	0.8203	34.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.9	-0.426	ug/L	5.8453	-0.426	ug/L	5.8453	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-14.1	-3.970	ug/L	4.4245	-3.970	ug/L	4.4245	111.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-360.6	-18.07	ug/L	1.540	-18.07	ug/L	1.540	8.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3566.6	0.348	ug/L	0.0166	0.348	ug/L	0.0166	4.77%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	388.6	-0.249	ug/L	0.1012	-0.249	ug/L	0.1012	40.58%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.0	0.448	ug/L	1.2034	0.448	ug/L	1.2034	268.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	159.2	0.966	ug/L	0.1327	0.966	ug/L	0.1327	13.74%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	1828.0	-6.839	ug/L	0.1525	-6.839	ug/L	0.1525	2.23%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 8/20/2008 9:50:03 AM
Data Type: Reprocessed on 8/20/2008 3:02:33 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	169964.1	929.8	ug/L	3.38	929.8	ug/L	3.38	0.36%
QC value within limits for Ag 338.289 Recovery = 92.98%								
Al 308.215	837592.3	183300	ug/L	1612.6	183300	ug/L	1612.6	0.88%
QC value within limits for Al 308.215 Recovery = 91.64%								
As 188.979	1691.4	460.8	ug/L	2.39	460.8	ug/L	2.39	0.52%
QC value within limits for As 188.979 Recovery = 92.17%								
B	4296.3	193.0	ug/L	0.11	193.0	ug/L	0.11	0.05%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	97638.9	448.4	ug/L	3.33	448.4	ug/L	3.33	0.74%
QC value within limits for Ba 233.527 Recovery = 89.69%								
Be 313.107	624463.7	432.4	ug/L	4.16	432.4	ug/L	4.16	0.96%
QC value within limits for Be 313.107 Recovery = 86.47%								
Ca 315.887	4960494.5	179600	ug/L	885.6	179600	ug/L	885.6	0.49%
QC value within limits for Ca 315.887 Recovery = 89.78%								
Cd 214.440	156789.4	872.9	ug/L	11.57	872.9	ug/L	11.57	1.33%
QC value within limits for Cd 214.440 Recovery = 87.29%								
Co 228.616	33859.0	449.8	ug/L	2.14	449.8	ug/L	2.14	0.48%
QC value within limits for Co 228.616 Recovery = 89.97%								
Cr 267.716	56196.7	440.0	ug/L	3.15	440.0	ug/L	3.15	0.71%
QC value within limits for Cr 267.716 Recovery = 87.99%								
Cu 327.393	91475.4	471.7	ug/L	2.29	471.7	ug/L	2.29	0.49%
QC value within limits for Cu 327.393 Recovery = 94.34%								
Fe 273.955	4664705.7	164000	ug/L	1123.5	164000	ug/L	1123.5	0.69%
QC value within limits for Fe 273.955 Recovery = 81.99%								
K 766.490	701.0	-90.77	ug/L	55.550	-90.77	ug/L	55.550	61.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	10244558.5	171500	ug/L	826.3	171500	ug/L	826.3	0.48%
QC value within limits for Mg 285.213 Recovery = 85.76%								
Mn 257.610	86287.6	438.0	ug/L	0.95	438.0	ug/L	0.95	0.22%
QC value within limits for Mn 257.610 Recovery = 87.59%								
Mo 202.031	13774.6	477.9	ug/L	0.89	477.9	ug/L	0.89	0.19%
QC value within limits for Mo 202.031 Recovery = 95.58%								
Na 589.592	924.8	-149.4	ug/L	2.46	-149.4	ug/L	2.46	1.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	46710.3	860.4	ug/L	3.85	860.4	ug/L	3.85	0.45%
QC value within limits for Ni 231.604 Recovery = 86.04%								
P 213.617	19.4	5.017	ug/L	2.5385	5.017	ug/L	2.5385	50.60%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	10149.8	889.2	ug/L	2.58	889.2	ug/L	2.58	0.29%
QC value within limits for Pb 220.353 Recovery = 88.92%								
Sb 206.836	2069.8	456.6	ug/L	3.10	456.6	ug/L	3.10	0.68%
QC value within limits for Sb 206.836 Recovery = 91.31%								
Se 196.026	1518.7	429.1	ug/L	4.42	429.1	ug/L	4.42	1.03%
QC value within limits for Se 196.026 Recovery = 85.82%								
Sn 189.927	-380.3	-19.63	ug/L	0.655	-19.63	ug/L	0.655	3.34%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3597.7	0.369	ug/L	0.0147	0.369	ug/L	0.0147	3.99%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	451.8	0.272	ug/L	0.3430	0.272	ug/L	0.3430	125.92%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4623.3	455.1	ug/L	0.94	455.1	ug/L	0.94	0.21%
QC value within limits for Tl 190.801 Recovery = 91.02%								
V 292.402	73328.6	445.0	ug/L	2.52	445.0	ug/L	2.52	0.57%
QC value within limits for V 292.402 Recovery = 89.00%								
Zn 206.200	73421.7	863.4	ug/L	9.76	863.4	ug/L	9.76	1.13%
QC value within limits for Zn 206.200 Recovery = 86.34%								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCV2 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/20/2008 9:56:22 AM
Data Type: Reprocessed on 8/20/2008 3:02:34 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68384.3	355.9	ug/L	2.61	355.9	ug/L	2.61	0.73%
QC value within limits for Ag 338.289 Recovery = 94.89%								
Al 308.215	64783.4	14170	ug/L	39.6	14170	ug/L	39.6	0.28%
QC value within limits for Al 308.215 Recovery = 94.46%								
As 188.979	2700.3	735.7	ug/L	4.18	735.7	ug/L	4.18	0.57%
QC value within limits for As 188.979 Recovery = 98.09%								
B	15645.6	702.9	ug/L	2.89	702.9	ug/L	2.89	0.41%
QC value within limits for B Recovery = 93.72%								
Ba 233.527	142979.5	754.3	ug/L	7.31	754.3	ug/L	7.31	0.97%
QC value within limits for Ba 233.527 Recovery = 100.57%								
Be 313.107	1018115.5	707.1	ug/L	8.51	707.1	ug/L	8.51	1.20%
QC value within limits for Be 313.107 Recovery = 94.28%								
Ca 315.887	968374.9	35050	ug/L	482.5	35050	ug/L	482.5	1.38%
QC value within limits for Ca 315.887 Recovery = 93.48%								
Cd 214.440	138801.5	772.8	ug/L	9.24	772.8	ug/L	9.24	1.20%
QC value within limits for Cd 214.440 Recovery = 103.03%								
Co 228.616	57100.8	766.1	ug/L	6.40	766.1	ug/L	6.40	0.83%
QC value within limits for Co 228.616 Recovery = 102.14%								
Cr 267.716	95663.1	756.6	ug/L	7.19	756.6	ug/L	7.19	0.95%
QC value within limits for Cr 267.716 Recovery = 100.88%								
Cu 327.393	144816.0	740.1	ug/L	4.55	740.1	ug/L	4.55	0.62%
QC value within limits for Cu 327.393 Recovery = 98.68%								
Fe 273.955	435018.0	15220	ug/L	151.9	15220	ug/L	151.9	1.00%
QC value within limits for Fe 273.955 Recovery = 101.48%								
K 766.490	56719.0	14340	ug/L	32.3	14340	ug/L	32.3	0.23%
QC value within limits for K 766.490 Recovery = 95.63%								
Mg 285.213	2164060.6	36210	ug/L	361.1	36210	ug/L	361.1	1.00%
QC value within limits for Mg 285.213 Recovery = 96.55%								
Mn 257.610	139619.2	717.5	ug/L	1.36	717.5	ug/L	1.36	0.19%
QC value within limits for Mn 257.610 Recovery = 95.66%								
Mo 202.031	22621.9	784.9	ug/L	1.89	784.9	ug/L	1.89	0.24%
QC value within limits for Mo 202.031 Recovery = 104.65%								
Na 589.592	238949.6	18880	ug/L	116.8	18880	ug/L	116.8	0.62%
QC value within limits for Na 589.592 Recovery = 100.68%								
Ni 231.604	41152.4	761.6	ug/L	6.44	761.6	ug/L	6.44	0.85%
QC value within limits for Ni 231.604 Recovery = 101.54%								
P 213.617	14008.4	3630	ug/L	1.9	3630	ug/L	1.9	0.05%
QC value within limits for P 213.617 Recovery = 96.80%								
Pb 220.353	8780.2	769.2	ug/L	1.31	769.2	ug/L	1.31	0.17%
QC value within limits for Pb 220.353 Recovery = 102.56%								
Sb 206.836	3471.9	765.9	ug/L	5.46	765.9	ug/L	5.46	0.71%
QC value within limits for Sb 206.836 Recovery = 102.12%								
Se 196.026	2598.8	734.3	ug/L	3.71	734.3	ug/L	3.71	0.51%
QC value within limits for Se 196.026 Recovery = 97.91%								
Sn 189.927	9036.6	751.7	ug/L	2.04	751.7	ug/L	2.04	0.27%
QC value within limits for Sn 189.927 Recovery = 100.22%								
Sr 421.552	1572784.9	710.0	ug/L	6.95	710.0	ug/L	6.95	0.98%
QC value within limits for Sr 421.552 Recovery = 94.67%								
Ti 337.279	96536.0	708.8	ug/L	1.28	708.8	ug/L	1.28	0.18%
QC value within limits for Ti 337.279 Recovery = 94.51%								
Tl 190.801	8069.0	801.4	ug/L	0.96	801.4	ug/L	0.96	0.12%
QC value within limits for Tl 190.801 Recovery = 106.85%								
V 292.402	123476.5	749.4	ug/L	11.22	749.4	ug/L	11.22	1.50%
QC value within limits for V 292.402 Recovery = 99.91%								
Zn 206.200	63822.8	776.4	ug/L	7.24	776.4	ug/L	7.24	0.93%
QC value within limits for Zn 206.200 Recovery = 103.53%								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/20/2008 9:59:21 AM
Data Type: Reprocessed on 8/20/2008 3:02:36 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	72.4	0.399	ug/L	0.1519	0.399	ug/L	0.1519	38.06%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	4.9	1.064	ug/L	1.9441	1.064	ug/L	1.9441	182.65%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.4	0.929	ug/L	0.4940	0.929	ug/L	0.4940	53.16%
QC value within limits for As 188.979 Recovery = Not calculated								
B	154.2	6.925	ug/L	0.6134	6.925	ug/L	0.6134	8.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	29.6	0.150	ug/L	0.0096	0.150	ug/L	0.0096	6.35%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	266.6	0.184	ug/L	0.0378	0.184	ug/L	0.0378	20.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	492.3	17.82	ug/L	2.211	17.82	ug/L	2.211	12.41%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	6.2	0.035	ug/L	0.0215	0.035	ug/L	0.0215	62.32%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.7	0.184	ug/L	0.0902	0.184	ug/L	0.0902	49.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	1.5	0.011	ug/L	0.1604	0.011	ug/L	0.1604	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	133.0	0.682	ug/L	0.1440	0.682	ug/L	0.1440	21.10%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	445.1	15.65	ug/L	0.555	15.65	ug/L	0.555	3.55%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	55.7	14.08	ug/L	69.050	14.08	ug/L	69.050	490.33%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	513.9	8.609	ug/L	2.4929	8.609	ug/L	2.4929	28.96%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	66.1	0.340	ug/L	0.0810	0.340	ug/L	0.0810	23.79%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.8	0.306	ug/L	0.0719	0.306	ug/L	0.0719	23.53%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	304.2	24.06	ug/L	1.446	24.06	ug/L	1.446	6.01%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.4	-0.140	ug/L	0.1749	-0.140	ug/L	0.1749	124.52%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.0	-1.048	ug/L	0.3047	-1.048	ug/L	0.3047	29.06%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.4	0.207	ug/L	0.6209	0.207	ug/L	0.6209	299.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.8	0.407	ug/L	1.5072	0.407	ug/L	1.5072	370.15%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.2	-0.348	ug/L	0.4243	-0.348	ug/L	0.4243	121.92%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	42.1	3.482	ug/L	0.2359	3.482	ug/L	0.2359	6.78%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	336.2	0.152	ug/L	0.0577	0.152	ug/L	0.0577	38.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.5	-0.099	ug/L	0.0483	-0.099	ug/L	0.0483	48.66%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	25.5	2.490	ug/L	1.1572	2.490	ug/L	1.1572	46.47%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	5.1	0.031	ug/L	0.0382	0.031	ug/L	0.0382	123.13%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	38.6	0.464	ug/L	0.1311	0.464	ug/L	0.1311	28.23%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/20/2008 10:33:47 AM
Data Type: Reprocessed on 8/20/2008 3:02:45 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	91427.0	475.5	ug/L	0.41	475.5	ug/L	0.41	0.09%
QC value within limits for Ag 338.289 Recovery = 95.10%								
Al 308.215	87724.1	19190	ug/L	241.9	19190	ug/L	241.9	1.26%
QC value within limits for Al 308.215 Recovery = 95.94%								
As 188.979	3633.9	990.1	ug/L	12.63	990.1	ug/L	12.63	1.28%
QC value within limits for As 188.979 Recovery = 99.01%								
B	21144.5	949.9	ug/L	12.97	949.9	ug/L	12.97	1.37%
QC value within limits for B Recovery = 94.99%								
Ba 233.527	192361.1	1015	ug/L	5.6	1015	ug/L	5.6	0.55%
QC value within limits for Ba 233.527 Recovery = 101.48%								
Be 313.107	1387263.7	963.4	ug/L	4.98	963.4	ug/L	4.98	0.52%
QC value within limits for Be 313.107 Recovery = 96.34%								
Ca 315.887	1322481.6	47870	ug/L	277.6	47870	ug/L	277.6	0.58%
QC value within limits for Ca 315.887 Recovery = 95.74%								
Cd 214.440	186505.6	1038	ug/L	7.8	1038	ug/L	7.8	0.75%
QC value within limits for Cd 214.440 Recovery = 103.83%								
Co 228.616	76562.0	1027	ug/L	6.5	1027	ug/L	6.5	0.63%
QC value within limits for Co 228.616 Recovery = 102.70%								
Cr 267.716	128596.6	1017	ug/L	5.1	1017	ug/L	5.1	0.50%
QC value within limits for Cr 267.716 Recovery = 101.71%								
Cu 327.393	194340.3	993.1	ug/L	3.15	993.1	ug/L	3.15	0.32%
QC value within limits for Cu 327.393 Recovery = 99.31%								
Fe 273.955	583840.2	20430	ug/L	114.0	20430	ug/L	114.0	0.56%
QC value within limits for Fe 273.955 Recovery = 102.14%								
K 766.490	77225.0	19530	ug/L	271.0	19530	ug/L	271.0	1.39%
QC value within limits for K 766.490 Recovery = 97.65%								
Mg 285.213	2942836.0	49240	ug/L	246.1	49240	ug/L	246.1	0.50%
QC value within limits for Mg 285.213 Recovery = 98.47%								
Mn 257.610	188339.8	967.8	ug/L	12.54	967.8	ug/L	12.54	1.30%
QC value within limits for Mn 257.610 Recovery = 96.78%								
Mo 202.031	29253.6	1015	ug/L	11.7	1015	ug/L	11.7	1.15%
QC value within limits for Mo 202.031 Recovery = 101.50%								
Na 589.592	335372.7	26500	ug/L	165.9	26500	ug/L	165.9	0.63%
QC value within limits for Na 589.592 Recovery = 105.99%								
Ni 231.604	55119.5	1020	ug/L	8.3	1020	ug/L	8.3	0.82%
QC value within limits for Ni 231.604 Recovery = 102.01%								
P 213.617	18742.3	4857	ug/L	30.1	4857	ug/L	30.1	0.62%
QC value within limits for P 213.617 Recovery = 97.13%								
Pb 220.353	11609.4	1017	ug/L	5.7	1017	ug/L	5.7	0.56%
QC value within limits for Pb 220.353 Recovery = 101.71%								
Sb 206.836	4687.4	1034	ug/L	13.4	1034	ug/L	13.4	1.30%
QC value within limits for Sb 206.836 Recovery = 103.40%								
Se 196.026	3432.5	969.8	ug/L	2.81	969.8	ug/L	2.81	0.29%
QC value within limits for Se 196.026 Recovery = 96.98%								
Sn 189.927	12168.4	1012	ug/L	5.4	1012	ug/L	5.4	0.53%
QC value within limits for Sn 189.927 Recovery = 101.23%								
Sr 421.552	2143658.2	967.8	ug/L	5.58	967.8	ug/L	5.58	0.58%
QC value within limits for Sr 421.552 Recovery = 96.78%								
Ti 337.279	129825.2	953.2	ug/L	10.98	953.2	ug/L	10.98	1.15%
QC value within limits for Ti 337.279 Recovery = 95.32%								
Tl 190.801	10657.3	1059	ug/L	4.4	1059	ug/L	4.4	0.42%
QC value within limits for Tl 190.801 Recovery = 105.91%								
V 292.402	167485.2	1016	ug/L	4.2	1016	ug/L	4.2	0.41%
QC value within limits for V 292.402 Recovery = 101.64%								
Zn 206.200	85591.0	1041	ug/L	10.1	1041	ug/L	10.1	0.97%
QC value within limits for Zn 206.200 Recovery = 104.13%								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 10:39:47 AM
Data Type: Reprocessed on 8/20/2008 3:02:46 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44.5	0.247	ug/L	0.2296	0.247	ug/L	0.2296	92.85%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-9.0	-1.993	ug/L	3.6403	-1.993	ug/L	3.6403	182.68%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.1	0.582	ug/L	0.1419	0.582	ug/L	0.1419	24.40%
QC value within limits for As 188.979 Recovery = Not calculated								
B	162.9	7.318	ug/L	0.1213	7.318	ug/L	0.1213	1.66%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	64.7	0.341	ug/L	0.0540	0.341	ug/L	0.0540	15.83%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	198.4	0.138	ug/L	0.0007	0.138	ug/L	0.0007	0.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	484.0	17.52	ug/L	1.533	17.52	ug/L	1.533	8.75%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-11.1	-0.062	ug/L	0.0432	-0.062	ug/L	0.0432	70.13%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.2	0.177	ug/L	0.0788	0.177	ug/L	0.0788	44.50%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-3.5	-0.028	ug/L	0.0664	-0.028	ug/L	0.0664	234.60%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	122.1	0.625	ug/L	0.0754	0.625	ug/L	0.0754	12.07%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	151.4	5.328	ug/L	0.7235	5.328	ug/L	0.7235	13.58%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	126.9	32.15	ug/L	33.611	32.15	ug/L	33.611	104.53%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	233.1	3.900	ug/L	0.7071	3.900	ug/L	0.7071	18.13%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	21.8	0.112	ug/L	0.0373	0.112	ug/L	0.0373	33.40%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.8	0.304	ug/L	0.0444	0.304	ug/L	0.0444	14.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	385.7	30.51	ug/L	6.086	30.51	ug/L	6.086	19.95%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-1.9	-0.037	ug/L	0.2376	-0.037	ug/L	0.2376	644.31%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-11.6	-3.010	ug/L	1.2575	-3.010	ug/L	1.2575	41.78%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.9	0.253	ug/L	0.0397	0.253	ug/L	0.0397	15.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-8.3	-1.836	ug/L	0.6844	-1.836	ug/L	0.6844	37.29%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.1	-2.842	ug/L	1.2498	-2.842	ug/L	1.2498	43.98%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	27.7	2.296	ug/L	0.2478	2.296	ug/L	0.2478	10.79%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	116.3	0.052	ug/L	0.0926	0.052	ug/L	0.0926	176.70%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	15.7	0.115	ug/L	0.0966	0.115	ug/L	0.0966	83.68%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	22.0	2.148	ug/L	0.2696	2.148	ug/L	0.2696	12.55%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-3.1	-0.019	ug/L	0.0222	-0.019	ug/L	0.0222	117.04%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	65.5	0.790	ug/L	0.1807	0.790	ug/L	0.1807	22.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: CCV2 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/20/2008 11:35:50 AM
Data Type: Reprocessed on 8/20/2008 3:03:00 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	69502.6	361.6	ug/L	3.46	361.6	ug/L	3.46	0.96%
QC value within limits for Ag 338.289 Recovery = 96.43%								
Al 308.215	67077.5	14670	ug/L	90.8	14670	ug/L	90.8	0.62%
QC value within limits for Al 308.215 Recovery = 97.80%								
As 188.979	2768.8	754.3	ug/L	4.36	754.3	ug/L	4.36	0.58%
QC value within limits for As 188.979 Recovery = 100.58%								
B	16095.5	723.1	ug/L	4.48	723.1	ug/L	4.48	0.62%
QC value within limits for B Recovery = 96.41%								
Ba 233.527	146189.0	771.2	ug/L	9.43	771.2	ug/L	9.43	1.22%
QC value within limits for Ba 233.527 Recovery = 102.83%								
Be 313.107	1065774.2	740.1	ug/L	5.71	740.1	ug/L	5.71	0.77%
QC value within limits for Be 313.107 Recovery = 98.68%								
Ca 315.887	1013747.7	36700	ug/L	131.1	36700	ug/L	131.1	0.36%
QC value within limits for Ca 315.887 Recovery = 97.86%								
Cd 214.440	141380.1	787.1	ug/L	12.79	787.1	ug/L	12.79	1.62%
QC value within limits for Cd 214.440 Recovery = 104.95%								
Co 228.616	58393.7	783.4	ug/L	10.44	783.4	ug/L	10.44	1.33%
QC value within limits for Co 228.616 Recovery = 104.45%								
Cr 267.716	97678.0	772.5	ug/L	9.29	772.5	ug/L	9.29	1.20%
QC value within limits for Cr 267.716 Recovery = 103.00%								
Cu 327.393	147203.5	752.2	ug/L	2.46	752.2	ug/L	2.46	0.33%
QC value within limits for Cu 327.393 Recovery = 100.29%								
Fe 273.955	444706.9	15560	ug/L	175.6	15560	ug/L	175.6	1.13%
QC value within limits for Fe 273.955 Recovery = 103.74%								
K 766.490	58815.5	14870	ug/L	109.8	14870	ug/L	109.8	0.74%
QC value within limits for K 766.490 Recovery = 99.17%								
Mg 285.213	2249514.7	37640	ug/L	266.1	37640	ug/L	266.1	0.71%
QC value within limits for Mg 285.213 Recovery = 100.37%								
Mn 257.610	145362.8	746.9	ug/L	6.03	746.9	ug/L	6.03	0.81%
QC value within limits for Mn 257.610 Recovery = 99.59%								
Mo 202.031	23145.7	803.1	ug/L	3.04	803.1	ug/L	3.04	0.38%
QC value within limits for Mo 202.031 Recovery = 107.08%								
Na 589.592	249900.5	19740	ug/L	224.1	19740	ug/L	224.1	1.14%
QC value within limits for Na 589.592 Recovery = 105.30%								
Ni 231.604	42122.1	779.5	ug/L	10.46	779.5	ug/L	10.46	1.34%
QC value within limits for Ni 231.604 Recovery = 103.94%								
P 213.617	14348.9	3718	ug/L	10.4	3718	ug/L	10.4	0.28%
QC value within limits for P 213.617 Recovery = 99.15%								
Pb 220.353	8942.8	783.5	ug/L	2.87	783.5	ug/L	2.87	0.37%
QC value within limits for Pb 220.353 Recovery = 104.46%								
Sb 206.836	3543.7	781.7	ug/L	11.23	781.7	ug/L	11.23	1.44%
QC value within limits for Sb 206.836 Recovery = 104.23%								
Se 196.026	2620.8	740.5	ug/L	2.84	740.5	ug/L	2.84	0.38%
QC value within limits for Se 196.026 Recovery = 98.73%								
Sn 189.927	9417.5	783.4	ug/L	5.03	783.4	ug/L	5.03	0.64%
QC value within limits for Sn 189.927 Recovery = 104.45%								
Sr 421.552	1639291.4	740.1	ug/L	5.95	740.1	ug/L	5.95	0.80%
QC value within limits for Sr 421.552 Recovery = 98.68%								
Ti 337.279	99424.7	730.0	ug/L	4.91	730.0	ug/L	4.91	0.67%
QC value within limits for Ti 337.279 Recovery = 97.33%								
Tl 190.801	8223.0	816.9	ug/L	4.96	816.9	ug/L	4.96	0.61%
QC value within limits for Tl 190.801 Recovery = 108.92%								
V 292.402	126727.4	769.1	ug/L	7.75	769.1	ug/L	7.75	1.01%
QC value within limits for V 292.402 Recovery = 102.54%								
Zn 206.200	64962.8	790.3	ug/L	12.26	790.3	ug/L	12.26	1.55%
QC value within limits for Zn 206.200 Recovery = 105.37%								

All analyte(s) passed QC.

Sequence No.: 34
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/20/2008 11:38:49 AM
Data Type: Reprocessed on 8/20/2008 3:03:02 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	70.2	0.386	ug/L	0.0969	0.386	ug/L	0.0969	25.11%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.0	2.604	ug/L	2.5648	2.604	ug/L	2.5648	98.48%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.5	0.964	ug/L	0.5977	0.964	ug/L	0.5977	62.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B	168.2	7.555	ug/L	0.5715	7.555	ug/L	0.5715	7.57%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	32.8	0.166	ug/L	0.0275	0.166	ug/L	0.0275	16.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	299.7	0.208	ug/L	0.0350	0.208	ug/L	0.0350	16.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	460.5	16.66	ug/L	2.147	16.66	ug/L	2.147	12.88%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-17.4	-0.097	ug/L	0.0310	-0.097	ug/L	0.0310	32.12%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	4.7	0.064	ug/L	0.2344	0.064	ug/L	0.2344	367.64%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.5	0.074	ug/L	0.0405	0.074	ug/L	0.0405	54.56%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	96.9	0.498	ug/L	0.1088	0.498	ug/L	0.1088	21.84%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	507.2	17.84	ug/L	0.626	17.84	ug/L	0.626	3.51%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	278.3	70.55	ug/L	19.475	70.55	ug/L	19.475	27.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	452.5	7.581	ug/L	1.6920	7.581	ug/L	1.6920	22.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	106.4	0.549	ug/L	0.0325	0.549	ug/L	0.0325	5.92%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	11.6	0.401	ug/L	0.0164	0.401	ug/L	0.0164	4.08%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	483.4	38.20	ug/L	5.181	38.20	ug/L	5.181	13.56%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.7	-0.144	ug/L	0.0292	-0.144	ug/L	0.0292	20.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-5.0	-1.286	ug/L	0.4839	-1.286	ug/L	0.4839	37.64%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.0	0.347	ug/L	0.5535	0.347	ug/L	0.5535	159.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-11.6	-2.557	ug/L	2.7298	-2.557	ug/L	2.7298	106.74%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.1	-1.441	ug/L	0.8960	-1.441	ug/L	0.8960	62.17%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	21.2	1.755	ug/L	0.4145	1.755	ug/L	0.4145	23.62%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	436.7	0.197	ug/L	0.0596	0.197	ug/L	0.0596	30.24%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	11.9	0.087	ug/L	0.0444	0.087	ug/L	0.0444	51.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	13.3	1.304	ug/L	0.2991	1.304	ug/L	0.2991	22.94%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-3.2	-0.019	ug/L	0.0098	-0.019	ug/L	0.0098	51.22%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	19.0	0.228	ug/L	0.1010	0.228	ug/L	0.1010	44.23%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 45
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/20/2008 12:35:46 PM
Data Type: Reprocessed on 8/20/2008 3:03:16 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	92277.9	479.8	ug/L	4.40	479.8	ug/L	4.40	0.92%
QC value within limits for Ag 338.289 Recovery = 95.95%								
Al 308.215	88775.0	19420	ug/L	286.0	19420	ug/L	286.0	1.47%
QC value within limits for Al 308.215 Recovery = 97.09%								
As 188.979	3642.0	992.3	ug/L	1.95	992.3	ug/L	1.95	0.20%
QC value within limits for As 188.979 Recovery = 99.23%								
B	21197.9	952.3	ug/L	14.05	952.3	ug/L	14.05	1.48%
QC value within limits for B Recovery = 95.23%								
Ba 233.527	194863.7	1028	ug/L	13.3	1028	ug/L	13.3	1.30%
QC value within limits for Ba 233.527 Recovery = 102.80%								
Be 313.107	1411313.7	980.1	ug/L	10.49	980.1	ug/L	10.49	1.07%
QC value within limits for Be 313.107 Recovery = 98.01%								
Ca 315.887	1347314.4	48770	ug/L	629.2	48770	ug/L	629.2	1.29%
QC value within limits for Ca 315.887 Recovery = 97.54%								
Cd 214.440	187592.1	1044	ug/L	12.7	1044	ug/L	12.7	1.22%
QC value within limits for Cd 214.440 Recovery = 104.44%								
Co 228.616	77689.4	1042	ug/L	13.7	1042	ug/L	13.7	1.31%
QC value within limits for Co 228.616 Recovery = 104.22%								
Cr 267.716	130325.0	1031	ug/L	12.7	1031	ug/L	12.7	1.23%
QC value within limits for Cr 267.716 Recovery = 103.08%								
Cu 327.393	195971.2	1001	ug/L	9.5	1001	ug/L	9.5	0.94%
QC value within limits for Cu 327.393 Recovery = 100.14%								
Fe 273.955	591291.6	20690	ug/L	265.3	20690	ug/L	265.3	1.28%
QC value within limits for Fe 273.955 Recovery = 103.45%								
K 766.490	77237.6	19530	ug/L	279.3	19530	ug/L	279.3	1.43%
QC value within limits for K 766.490 Recovery = 97.67%								
Mg 285.213	2956971.4	49470	ug/L	455.2	49470	ug/L	455.2	0.92%
QC value within limits for Mg 285.213 Recovery = 98.95%								
Mn 257.610	191721.3	985.2	ug/L	13.84	985.2	ug/L	13.84	1.40%
QC value within limits for Mn 257.610 Recovery = 98.52%								
Mo 202.031	29686.0	1030	ug/L	11.7	1030	ug/L	11.7	1.13%
QC value within limits for Mo 202.031 Recovery = 103.00%								
Na 589.592	323276.5	25540	ug/L	219.8	25540	ug/L	219.8	0.86%
QC value within limits for Na 589.592 Recovery = 102.16%								
Ni 231.604	55833.3	1033	ug/L	15.1	1033	ug/L	15.1	1.46%
QC value within limits for Ni 231.604 Recovery = 103.33%								
P 213.617	19108.2	4951	ug/L	15.2	4951	ug/L	15.2	0.31%
QC value within limits for P 213.617 Recovery = 99.03%								
Pb 220.353	11762.2	1030	ug/L	3.3	1030	ug/L	3.3	0.32%
QC value within limits for Pb 220.353 Recovery = 103.05%								
Sb 206.836	4578.4	1010	ug/L	6.3	1010	ug/L	6.3	0.62%
QC value within limits for Sb 206.836 Recovery = 101.00%								
Se 196.026	3487.1	985.3	ug/L	3.99	985.3	ug/L	3.99	0.41%
QC value within limits for Se 196.026 Recovery = 98.53%								
Sn 189.927	12488.7	1039	ug/L	2.6	1039	ug/L	2.6	0.25%
QC value within limits for Sn 189.927 Recovery = 103.88%								
Sr 421.552	2157186.1	973.9	ug/L	8.26	973.9	ug/L	8.26	0.85%
QC value within limits for Sr 421.552 Recovery = 97.39%								
Ti 337.279	131090.8	962.5	ug/L	12.90	962.5	ug/L	12.90	1.34%
QC value within limits for Ti 337.279 Recovery = 96.25%								
Tl 190.801	10696.5	1063	ug/L	0.3	1063	ug/L	0.3	0.03%
QC value within limits for Tl 190.801 Recovery = 106.30%								
V 292.402	168390.7	1022	ug/L	12.2	1022	ug/L	12.2	1.20%
QC value within limits for V 292.402 Recovery = 102.19%								
Zn 206.200	86418.9	1051	ug/L	15.4	1051	ug/L	15.4	1.46%
QC value within limits for Zn 206.200 Recovery = 105.13%								

All analyte(s) passed QC.

Sequence No.: 46
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 12:41:24 PM
Data Type: Reprocessed on 8/20/2008 3:03:17 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	61.6	0.341	ug/L	0.1885	0.341	ug/L	0.1885	55.21%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	21.8	4.766	ug/L	3.8431	4.766	ug/L	3.8431	80.63%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.2	0.057	ug/L	0.5564	0.057	ug/L	0.5564	971.17%
QC value within limits for As 188.979 Recovery = Not calculated								
B	238.2	10.70	ug/L	0.230	10.70	ug/L	0.230	2.15%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	35.0	0.184	ug/L	0.0241	0.184	ug/L	0.0241	13.13%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	169.1	0.117	ug/L	0.0138	0.117	ug/L	0.0138	11.79%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	268.1	9.700	ug/L	1.2195	9.700	ug/L	1.2195	12.57%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-5.1	-0.028	ug/L	0.0093	-0.028	ug/L	0.0093	32.85%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.9	0.080	ug/L	0.1304	0.080	ug/L	0.1304	162.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-5.6	-0.045	ug/L	0.0837	-0.045	ug/L	0.0837	186.64%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	115.7	0.593	ug/L	0.0552	0.593	ug/L	0.0552	9.30%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	145.4	5.112	ug/L	0.5790	5.112	ug/L	0.5790	11.33%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	146.7	37.19	ug/L	17.416	37.19	ug/L	17.416	46.83%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	165.3	2.766	ug/L	0.3787	2.766	ug/L	0.3787	13.69%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	68.4	0.352	ug/L	0.0150	0.352	ug/L	0.0150	4.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	9.0	0.313	ug/L	0.0672	0.313	ug/L	0.0672	21.43%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	342.2	27.06	ug/L	15.867	27.06	ug/L	15.867	58.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-3.1	-0.058	ug/L	0.2043	-0.058	ug/L	0.2043	350.06%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.0	-1.027	ug/L	0.6096	-1.027	ug/L	0.6096	59.37%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.8	0.416	ug/L	0.0812	0.416	ug/L	0.0812	19.51%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-11.6	-2.550	ug/L	0.8621	-2.550	ug/L	0.8621	33.81%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-6.5	-1.849	ug/L	1.2676	-1.849	ug/L	1.2676	68.56%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	21.1	1.746	ug/L	0.3686	1.746	ug/L	0.3686	21.11%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	123.4	0.056	ug/L	0.0630	0.056	ug/L	0.0630	113.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.4	0.040	ug/L	0.0548	0.040	ug/L	0.0548	137.60%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	12.7	1.241	ug/L	0.6646	1.241	ug/L	0.6646	53.56%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.2	0.025	ug/L	0.0352	0.025	ug/L	0.0352	138.56%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	14.6	0.175	ug/L	0.0193	0.175	ug/L	0.0193	11.04%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV2 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/20/2008 1:14:41 PM
Data Type: Reprocessed on 8/20/2008 3:03:31 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	69861.0	363.4	ug/L	0.42	363.4	ug/L	0.42	0.12%
QC value within limits for Ag 338.289 Recovery = 96.91%								
Al 308.215	67106.3	14680	ug/L	122.1	14680	ug/L	122.1	0.83%
QC value within limits for Al 308.215 Recovery = 97.85%								
As 188.979	2743.2	747.4	ug/L	4.02	747.4	ug/L	4.02	0.54%
QC value within limits for As 188.979 Recovery = 99.65%								
B	16090.7	722.9	ug/L	8.61	722.9	ug/L	8.61	1.19%
QC value within limits for B Recovery = 96.38%								
Ba 233.527	146925.7	775.1	ug/L	4.09	775.1	ug/L	4.09	0.53%
QC value within limits for Ba 233.527 Recovery = 103.34%								
Be 313.107	1062613.4	737.9	ug/L	2.94	737.9	ug/L	2.94	0.40%
QC value within limits for Be 313.107 Recovery = 98.39%								
Ca 315.887	1007506.4	36470	ug/L	164.9	36470	ug/L	164.9	0.45%
QC value within limits for Ca 315.887 Recovery = 97.25%								
Cd 214.440	141853.4	789.7	ug/L	6.12	789.7	ug/L	6.12	0.78%
QC value within limits for Cd 214.440 Recovery = 105.30%								
Co 228.616	58772.7	788.5	ug/L	3.53	788.5	ug/L	3.53	0.45%
QC value within limits for Co 228.616 Recovery = 105.13%								
Cr 267.716	98177.9	776.5	ug/L	3.42	776.5	ug/L	3.42	0.44%
QC value within limits for Cr 267.716 Recovery = 103.53%								
Cu 327.393	147820.1	755.4	ug/L	1.74	755.4	ug/L	1.74	0.23%
QC value within limits for Cu 327.393 Recovery = 100.72%								
Fe 273.955	447215.1	15650	ug/L	73.3	15650	ug/L	73.3	0.47%
QC value within limits for Fe 273.955 Recovery = 104.33%								
K 766.490	58010.1	14670	ug/L	107.8	14670	ug/L	107.8	0.73%
QC value within limits for K 766.490 Recovery = 97.81%								
Mg 285.213	2235099.5	37400	ug/L	138.3	37400	ug/L	138.3	0.37%
QC value within limits for Mg 285.213 Recovery = 99.72%								
Mn 257.610	145416.3	747.3	ug/L	5.25	747.3	ug/L	5.25	0.70%
QC value within limits for Mn 257.610 Recovery = 99.63%								
Mo 202.031	23100.9	801.5	ug/L	5.81	801.5	ug/L	5.81	0.72%
QC value within limits for Mo 202.031 Recovery = 106.87%								
Na 589.592	240346.8	18990	ug/L	68.3	18990	ug/L	68.3	0.36%
QC value within limits for Na 589.592 Recovery = 101.26%								
Ni 231.604	42364.5	784.0	ug/L	4.27	784.0	ug/L	4.27	0.54%
QC value within limits for Ni 231.604 Recovery = 104.54%								
P 213.617	14353.8	3719	ug/L	21.1	3719	ug/L	21.1	0.57%
QC value within limits for P 213.617 Recovery = 99.18%								
Pb 220.353	8974.8	786.3	ug/L	4.88	786.3	ug/L	4.88	0.62%
QC value within limits for Pb 220.353 Recovery = 104.84%								
Sb 206.836	3422.7	755.0	ug/L	3.00	755.0	ug/L	3.00	0.40%
QC value within limits for Sb 206.836 Recovery = 100.67%								
Se 196.026	2649.2	748.5	ug/L	4.39	748.5	ug/L	4.39	0.59%
QC value within limits for Se 196.026 Recovery = 99.80%								
Sn 189.927	9374.5	779.8	ug/L	5.00	779.8	ug/L	5.00	0.64%
QC value within limits for Sn 189.927 Recovery = 103.97%								
Sr 421.552	1626483.6	734.3	ug/L	2.53	734.3	ug/L	2.53	0.34%
QC value within limits for Sr 421.552 Recovery = 97.90%								
Ti 337.279	99396.2	729.8	ug/L	8.59	729.8	ug/L	8.59	1.18%
QC value within limits for Ti 337.279 Recovery = 97.31%								
Tl 190.801	8202.2	814.8	ug/L	3.89	814.8	ug/L	3.89	0.48%
QC value within limits for Tl 190.801 Recovery = 108.64%								
V 292.402	125763.8	763.2	ug/L	4.58	763.2	ug/L	4.58	0.60%
QC value within limits for V 292.402 Recovery = 101.76%								
Zn 206.200	65497.9	796.8	ug/L	7.18	796.8	ug/L	7.18	0.90%
QC value within limits for Zn 206.200 Recovery = 106.24%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/20/2008 1:17:44 PM
Data Type: Reprocessed on 8/20/2008 3:03:33 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	17.1	0.095	ug/L	0.0937	0.095	ug/L	0.0937	98.53%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-8.2	-1.809	ug/L	4.8175	-1.809	ug/L	4.8175	266.32%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.9	0.800	ug/L	0.4493	0.800	ug/L	0.4493	56.18%
QC value within limits for As 188.979 Recovery = Not calculated								
B	241.0	10.83	ug/L	0.949	10.83	ug/L	0.949	8.77%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.6	0.077	ug/L	0.0461	0.077	ug/L	0.0461	59.73%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	296.8	0.206	ug/L	0.0361	0.206	ug/L	0.0361	17.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	343.6	12.43	ug/L	1.653	12.43	ug/L	1.653	13.30%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-4.5	-0.025	ug/L	0.0220	-0.025	ug/L	0.0220	87.75%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-0.3	-0.004	ug/L	0.0782	-0.004	ug/L	0.0782	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	5.1	0.039	ug/L	0.2160	0.039	ug/L	0.2160	548.28%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	63.4	0.326	ug/L	0.2074	0.326	ug/L	0.2074	63.59%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	363.7	12.79	ug/L	0.650	12.79	ug/L	0.650	5.08%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	236.7	60.00	ug/L	5.589	60.00	ug/L	5.589	9.31%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	436.9	7.315	ug/L	2.1444	7.315	ug/L	2.1444	29.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	80.2	0.413	ug/L	0.0352	0.413	ug/L	0.0352	8.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	10.5	0.364	ug/L	0.1029	0.364	ug/L	0.1029	28.27%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	529.8	41.89	ug/L	2.877	41.89	ug/L	2.877	6.87%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.6	0.084	ug/L	0.2121	0.084	ug/L	0.2121	251.28%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-2.3	-0.592	ug/L	0.7479	-0.592	ug/L	0.7479	126.34%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.5	0.395	ug/L	0.3480	0.395	ug/L	0.3480	88.04%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-17.2	-3.789	ug/L	3.8951	-3.789	ug/L	3.8951	102.81%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.4	-1.534	ug/L	1.3233	-1.534	ug/L	1.3233	86.28%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	16.5	1.365	ug/L	0.1308	1.365	ug/L	0.1308	9.58%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	356.7	0.161	ug/L	0.0708	0.161	ug/L	0.0708	44.00%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.7	0.108	ug/L	0.0850	0.108	ug/L	0.0850	78.99%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	26.2	2.560	ug/L	0.4069	2.560	ug/L	0.4069	15.89%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	1.8	0.011	ug/L	0.0156	0.011	ug/L	0.0156	145.90%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	4.8	0.057	ug/L	0.0711	0.057	ug/L	0.0711	124.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 65
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/20/2008 1:56:18 PM
Data Type: Reprocessed on 8/20/2008 3:03:42 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	92781.7	482.7	ug/L	1.91	482.7	ug/L	1.91	0.40%
QC value within limits for Ag 338.289 Recovery = 96.54%								
Al 308.215	90990.6	19900	ug/L	205.5	19900	ug/L	205.5	1.03%
QC value within limits for Al 308.215 Recovery = 99.51%								
As 188.979	3635.3	990.4	ug/L	3.47	990.4	ug/L	3.47	0.35%
QC value within limits for As 188.979 Recovery = 99.04%								
B	21473.4	964.7	ug/L	11.57	964.7	ug/L	11.57	1.20%
QC value within limits for B Recovery = 96.47%								
Ba 233.527	193957.8	1023	ug/L	5.7	1023	ug/L	5.7	0.55%
QC value within limits for Ba 233.527 Recovery = 102.32%								
Be 313.107	1429831.4	993.0	ug/L	5.44	993.0	ug/L	5.44	0.55%
QC value within limits for Be 313.107 Recovery = 99.30%								
Ca 315.887	1360474.6	49250	ug/L	236.5	49250	ug/L	236.5	0.48%
QC value within limits for Ca 315.887 Recovery = 98.50%								
Cd 214.440	184878.5	1029	ug/L	9.7	1029	ug/L	9.7	0.94%
QC value within limits for Cd 214.440 Recovery = 102.93%								
Co 228.616	77247.0	1036	ug/L	5.1	1036	ug/L	5.1	0.49%
QC value within limits for Co 228.616 Recovery = 103.61%								
Cr 267.716	129530.9	1024	ug/L	6.1	1024	ug/L	6.1	0.59%
QC value within limits for Cr 267.716 Recovery = 102.44%								
Cu 327.393	198017.5	1012	ug/L	1.3	1012	ug/L	1.3	0.13%
QC value within limits for Cu 327.393 Recovery = 101.18%								
Fe 273.955	588168.0	20580	ug/L	129.1	20580	ug/L	129.1	0.63%
QC value within limits for Fe 273.955 Recovery = 102.91%								
K 766.490	78408.2	19830	ug/L	217.7	19830	ug/L	217.7	1.10%
QC value within limits for K 766.490 Recovery = 99.15%								
Mg 285.213	3004185.2	50260	ug/L	206.8	50260	ug/L	206.8	0.41%
QC value within limits for Mg 285.213 Recovery = 100.53%								
Mn 257.610	195272.8	1003	ug/L	11.7	1003	ug/L	11.7	1.17%
QC value within limits for Mn 257.610 Recovery = 100.34%								
Mo 202.031	29370.5	1019	ug/L	7.2	1019	ug/L	7.2	0.71%
QC value within limits for Mo 202.031 Recovery = 101.90%								
Na 589.592	324130.8	25610	ug/L	237.7	25610	ug/L	237.7	0.93%
QC value within limits for Na 589.592 Recovery = 102.42%								
Ni 231.604	55457.6	1026	ug/L	8.1	1026	ug/L	8.1	0.79%
QC value within limits for Ni 231.604 Recovery = 102.63%								
P 213.617	19109.3	4952	ug/L	4.3	4952	ug/L	4.3	0.09%
QC value within limits for P 213.617 Recovery = 99.03%								
Pb 220.353	11798.9	1034	ug/L	2.4	1034	ug/L	2.4	0.23%
QC value within limits for Pb 220.353 Recovery = 103.37%								
Sb 206.836	4555.6	1005	ug/L	8.0	1005	ug/L	8.0	0.80%
QC value within limits for Sb 206.836 Recovery = 100.49%								
Se 196.026	3517.3	993.8	ug/L	2.95	993.8	ug/L	2.95	0.30%
QC value within limits for Se 196.026 Recovery = 99.38%								
Sn 189.927	12453.3	1036	ug/L	0.6	1036	ug/L	0.6	0.06%
QC value within limits for Sn 189.927 Recovery = 103.60%								
Sr 421.552	2189724.5	988.6	ug/L	5.00	988.6	ug/L	5.00	0.51%
QC value within limits for Sr 421.552 Recovery = 98.86%								
Ti 337.279	134145.8	984.9	ug/L	11.60	984.9	ug/L	11.60	1.18%
QC value within limits for Ti 337.279 Recovery = 98.49%								
Tl 190.801	10665.0	1060	ug/L	2.7	1060	ug/L	2.7	0.26%
QC value within limits for Tl 190.801 Recovery = 106.03%								
V 292.402	167359.9	1016	ug/L	4.3	1016	ug/L	4.3	0.42%
QC value within limits for V 292.402 Recovery = 101.57%								
Zn 206.200	85400.6	1039	ug/L	10.2	1039	ug/L	10.2	0.98%
QC value within limits for Zn 206.200 Recovery = 103.89%								

All analyte(s) passed QC.

Sequence No.: 66
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/20/2008 2:02:19 PM
Data Type: Reprocessed on 8/20/2008 3:03:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	40.3	0.227	ug/L	0.0556	0.227	ug/L	0.0556	24.51%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	2.8	0.602	ug/L	3.3910	0.602	ug/L	3.3910	563.75%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.0	1.084	ug/L	0.4279	1.084	ug/L	0.4279	39.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B	115.6	5.191	ug/L	0.3352	5.191	ug/L	0.3352	6.46%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	53.4	0.281	ug/L	0.0537	0.281	ug/L	0.0537	19.09%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	134.8	0.094	ug/L	0.0338	0.094	ug/L	0.0338	36.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	274.0	9.917	ug/L	1.0028	9.917	ug/L	1.0028	10.11%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-5.7	-0.032	ug/L	0.0350	-0.032	ug/L	0.0350	109.80%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-3.9	-0.052	ug/L	0.1618	-0.052	ug/L	0.1618	309.71%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-10.7	-0.085	ug/L	0.0856	-0.085	ug/L	0.0856	100.28%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	69.3	0.355	ug/L	0.2879	0.355	ug/L	0.2879	81.01%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	162.9	5.726	ug/L	0.3635	5.726	ug/L	0.3635	6.35%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	77.4	19.61	ug/L	14.513	19.61	ug/L	14.513	73.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	196.5	3.289	ug/L	0.5814	3.289	ug/L	0.5814	17.68%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	46.6	0.240	ug/L	0.0308	0.240	ug/L	0.0308	12.82%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	11.4	0.395	ug/L	0.0382	0.395	ug/L	0.0382	9.67%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	413.3	32.70	ug/L	10.945	32.70	ug/L	10.945	33.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.0	-0.150	ug/L	0.0922	-0.150	ug/L	0.0922	61.64%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.8	-0.458	ug/L	0.1917	-0.458	ug/L	0.1917	41.88%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	1.6	0.137	ug/L	0.3117	0.137	ug/L	0.3117	227.79%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-11.1	-2.452	ug/L	1.8099	-2.452	ug/L	1.8099	73.83%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-14.9	-4.201	ug/L	0.5016	-4.201	ug/L	0.5016	11.94%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	14.0	1.157	ug/L	0.2608	1.157	ug/L	0.2608	22.55%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	193.5	0.087	ug/L	0.0111	0.087	ug/L	0.0111	12.69%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	16.7	0.123	ug/L	0.1382	0.123	ug/L	0.1382	112.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	22.5	2.194	ug/L	0.6342	2.194	ug/L	0.6342	28.91%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	7.2	0.044	ug/L	0.0109	0.044	ug/L	0.0109	24.73%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	24.9	0.299	ug/L	0.1785	0.299	ug/L	0.1785	59.60%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Reprocessing Begun
Logged In Analyst: Chemist Technique: ICP Continuous

Results Data Set (original): 080821-6010B
Results Library (original): C:\pe\Chemist\Results\080821.mdb
Results Data Set (reprocessed): 080821A6010BR
Results Library (reprocessed): C:\pe\Chemist\Results\080821.mdb

Sequence No.: 1
Sample ID: CalBlk 080818SDM I:PB O:S
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/21/2008 9:23:40 AM
Data Type: Reprocessed on 8/21/2008 2:55:13 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 080818SDM I:PB O:S

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	18.5	15.66	84.45%	[0.00]	ug/L
Al 308.215	247.7	1.94	0.78%	[0.00]	ug/L
As 188.979	-78.9	5.23	6.62%	[0.00]	ug/L
B	-85.1	2.17	2.56%	[0.00]	ug/L
Ba 233.527	89.1	12.79	14.35%	[0.00]	ug/L
Be 313.107	-121.1	16.78	13.85%	[0.00]	ug/L
Ca 315.887	-616.3	7.16	1.16%	[0.00]	ug/L
Cd 214.440	216.6	15.95	7.37%	[0.00]	ug/L
Co 228.616	0.3	7.10	>999.9%	[0.00]	ug/L
Cr 267.716	365.0	12.14	3.33%	[0.00]	ug/L
Cu 327.393	741.0	30.57	4.13%	[0.00]	ug/L
Fe 273.955	4.9	7.50	152.75%	[0.00]	ug/L
K 766.490	740.5	31.60	4.27%	[0.00]	ug/L
Mg 285.213	-27.9	9.24	33.16%	[0.00]	ug/L
Mn 257.610	26.8	6.25	23.36%	[0.00]	ug/L
Mo 202.031	-2.3	4.54	198.94%	[0.00]	ug/L
Na 589.592	482.4	16.42	3.40%	[0.00]	ug/L
Ni 231.604	-305.1	16.26	5.33%	[0.00]	ug/L
P 213.617	26.5	4.90	18.45%	[0.00]	ug/L
Pb 220.353	-18.6	3.20	17.22%	[0.00]	ug/L
Sb 206.836	-6.9	4.11	59.98%	[0.00]	ug/L
Se 196.026	2.8	0.91	32.97%	[0.00]	ug/L
Sn 189.927	110.1	7.78	7.07%	[0.00]	ug/L
Sr 421.552	465.5	11.60	2.49%	[0.00]	ug/L
Ti 337.279	-483.4	4.69	0.97%	[0.00]	ug/L
Tl 190.801	-131.6	3.73	2.83%	[0.00]	ug/L
V 292.402	65.3	5.23	8.01%	[0.00]	ug/L
Zn 206.200	-160.7	3.20	1.99%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/21/2008 9:28:25 AM
Data Type: Reprocessed on 8/21/2008 2:55:14 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	240.6	29.55	12.28%	[1.00]	ug/L
Al 308.215	438.4	7.30	1.66%	[100.00]	ug/L
As 188.979	15.3	2.42	15.86%	[3.50]	ug/L
B	994.0	5.16	0.52%	[50.00]	ug/L
Ba 233.527	1048.7	8.14	0.78%	[5.00]	ug/L
Be 313.107	2782.9	30.45	1.09%	[2.00]	ug/L
Ca 315.887	3230.3	21.29	0.66%	[100.00]	ug/L
Cd 214.440	1394.4	14.74	1.06%	[5.00]	ug/L
Co 228.616	419.1	12.58	3.00%	[5.00]	ug/L
Cr 267.716	639.2	8.87	1.39%	[5.00]	ug/L
Cu 327.393	1053.5	14.77	1.40%	[5.00]	ug/L
Fe 273.955	1557.1	5.20	0.33%	[50.00]	ug/L
K 766.490	3611.4	149.64	4.14%	[1000.00]	ug/L
Mg 285.213	3133.7	14.32	0.46%	[50]	ug/L
Mn 257.610	922.9	11.55	1.25%	[5.00]	ug/L
Mo 202.031	157.1	0.75	0.48%	[5.00]	ug/L
Na 589.592	12368.4	183.08	1.48%	[1000.00]	ug/L
Ni 231.604	320.4	20.04	6.25%	[5.00]	ug/L
P 213.617	96.3	3.09	3.21%	[25.00]	ug/L
Pb 220.353	35.0	4.17	11.90%	[3.00]	ug/L
Sb 206.836	15.7	12.27	78.20%	[5.00]	ug/L
Se 196.026	11.4	4.44	39.03%	[5.00]	ug/L
Sn 189.927	49.9	8.52	17.06%	[5.00]	ug/L
Sr 421.552	10712.2	59.66	0.56%	[5.00]	ug/L
Ti 337.279	693.0	18.82	2.72%	[5.00]	ug/L
Tl 190.801	59.5	6.09	10.23%	[5.00]	ug/L
V 292.402	807.9	5.60	0.69%	[5.00]	ug/L
Zn 206.200	1580.3	7.33	0.46%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/21/2008 9:33:11 AM
Data Type: Reprocessed on 8/21/2008 2:55:16 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	88074.3	347.96	0.40%	[500.0]	ug/L
Al 308.215	86165.4	209.00	0.24%	[20000.00]	ug/L
As 188.979	4527.8	15.17	0.33%	[1000.00]	ug/L
B	20712.0	59.29	0.29%	[1000.00]	ug/L
Ba 233.527	179205.8	872.30	0.49%	[1000.00]	ug/L
Be 313.107	1338590.3	5230.72	0.39%	[1000.00]	ug/L
Ca 315.887	1240763.6	3943.62	0.32%	[50000]	ug/L
Cd 214.440	249435.2	1255.15	0.50%	[1000.00]	ug/L
Co 228.616	71791.3	305.65	0.43%	[1000.00]	ug/L
Cr 267.716	120053.2	559.52	0.47%	[1000.00]	ug/L
Cu 327.393	190080.1	920.13	0.48%	[1000.00]	ug/L
Fe 273.955	546327.3	2728.73	0.50%	[20000]	ug/L
K 766.490	72199.0	353.10	0.49%	[20000]	ug/L
Mg 285.213	2821886.5	8702.48	0.31%	[50000]	ug/L
Mn 257.610	182268.9	246.53	0.14%	[1000.00]	ug/L
Mo 202.031	27417.8	75.15	0.27%	[1000.00]	ug/L
Na 589.592	289826.7	729.17	0.25%	[25000]	ug/L
Ni 231.604	51485.4	288.39	0.56%	[1000.00]	ug/L
P 213.617	17642.9	25.23	0.14%	[5000]	ug/L
Pb 220.353	10806.5	20.03	0.19%	[1000.00]	ug/L
Sb 206.836	4159.9	70.27	1.69%	[1000.00]	ug/L
Se 196.026	3313.7	12.47	0.38%	[1000.00]	ug/L
Sn 189.927	11036.8	21.36	0.19%	[1000.00]	ug/L
Sr 421.552	2073059.4	4939.85	0.24%	[1000.00]	ug/L
Ti 337.279	125594.4	46.25	0.04%	[1000.00]	ug/L
Tl 190.801	9871.0	16.39	0.17%	[1000.00]	ug/L
V 292.402	155892.2	928.61	0.60%	[1000.00]	ug/L
Zn 206.200	48874.0	612.23	1.25%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 8/21/2008 9:36:11 AM
Data Type: Reprocessed on 8/21/2008 2:55:17 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	172480.7	1635.74	0.95%	[1000.00]	ug/L
Al 308.215	171130.5	2082.43	1.22%	[40000.00]	ug/L
As 188.979	8824.7	47.99	0.54%	[2000.00]	ug/L
B	40998.1	563.86	1.38%	[2000.00]	ug/L
Ba 233.527	343112.2	4125.25	1.20%	[2000.00]	ug/L
Be 313.107	2621573.7	20150.30	0.77%	[2000.00]	ug/L
Ca 315.887	2491465.0	26220.50	1.05%	[100000.0]	ug/L
Cd 214.440	468891.6	6125.36	1.31%	[2000.00]	ug/L
Co 228.616	136403.4	1496.68	1.10%	[2000.00]	ug/L
Cr 267.716	230507.0	2529.19	1.10%	[2000.00]	ug/L
Cu 327.393	374008.1	2855.18	0.76%	[2000.00]	ug/L
Fe 273.955	1036556.6	12043.55	1.16%	[40000]	ug/L
K 766.490	143875.6	1694.33	1.18%	[40000]	ug/L
Mg 285.213	5529333.5	32117.07	0.58%	[100000]	ug/L
Mn 257.610	354741.4	4296.65	1.21%	[2000.00]	ug/L
Mo 202.031	52585.8	342.01	0.65%	[2000.00]	ug/L
Na 589.592	579426.7	5284.00	0.91%	[50000]	ug/L
Ni 231.604	97345.2	1285.87	1.32%	[2000.00]	ug/L
P 213.617	34335.4	347.73	1.01%	[10000]	ug/L
Pb 220.353	20401.1	256.33	1.26%	[2000.00]	ug/L
Sb 206.836	7969.5	15.75	0.20%	[2000.00]	ug/L
Se 196.026	6359.6	109.87	1.73%	[2000.00]	ug/L
Sn 189.927	21468.9	338.58	1.58%	[2000.00]	ug/L
Sr 421.552	4107938.0	20126.38	0.49%	[2000.00]	ug/L
Ti 337.279	247357.7	3610.40	1.46%	[2000.00]	ug/L
Tl 190.801	18460.7	212.31	1.15%	[2000.00]	ug/L
V 292.402	301011.6	2540.67	0.84%	[2000.00]	ug/L
Zn 206.200	91126.4	779.48	0.86%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	173.2	0.00000	0.999964	
Al 308.215	3	Lin Thru 0	0.0	4.284	0.00000	0.999996	
As 188.979	3	Lin Thru 0	0.0	4.435	0.00000	0.999946	
B	3	Lin Thru 0	0.0	20.54	0.00000	0.999991	
Ba 233.527	3	Lin Thru 0	0.0	173.1	0.00000	0.999844	
Be 313.107	3	Lin Thru 0	0.0	1316	0.00000	0.999964	
Ca 315.887	3	Lin Thru 0	0.0	24.89	0.00000	0.999999	
Cd 214.440	3	Lin Thru 0	0.0	237.4	0.00000	0.999681	
Co 228.616	3	Lin Thru 0	0.0	68.92	0.00000	0.999783	
Cr 267.716	3	Lin Thru 0	0.0	116.2	0.00000	0.999864	
Cu 327.393	3	Lin Thru 0	0.0	187.6	0.00000	0.999978	
Fe 273.955	3	Lin Thru 0	0.0	26.19	0.00000	0.999771	
K 766.490	3	Lin Thru 0	0.0	3.600	0.00000	0.999999	
Mg 285.213	3	Lin Thru 0	0.0	55.52	0.00000	0.999966	
Mn 257.610	3	Lin Thru 0	0.0	178.4	0.00000	0.999940	
Mo 202.031	3	Lin Thru 0	0.0	26.52	0.00000	0.999856	
Na 589.592	3	Lin Thru 0	0.0	11.59	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	49.24	0.00000	0.999739	
P 213.617	3	Lin Thru 0	0.0	3.453	0.00000	0.999939	
Pb 220.353	3	Lin Thru 0	0.0	10.32	0.00000	0.999724	
Sb 206.836	3	Lin Thru 0	0.0	4.020	0.00000	0.999848	
Se 196.026	3	Lin Thru 0	0.0	3.207	0.00000	0.999860	
Sn 189.927	3	Lin Thru 0	0.0	10.79	0.00000	0.999937	
Sr 421.552	3	Lin Thru 0	0.0	2058	0.00000	0.999993	
Ti 337.279	3	Lin Thru 0	0.0	124.1	0.00000	0.999981	

Tl 190.801	3	Lin Thru 0	0.0	9.358	0.00000	0.999625
V 292.402	3	Lin Thru 0	0.0	151.6	0.00000	0.999899
Zn 206.200	3	Lin Thru 0	0.0	46.23	0.00000	0.999570

Sequence No.: 5
Sample ID: ICV 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/21/2008 9:41:25 AM
Data Type: Reprocessed on 8/21/2008 2:55:19 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	88479.5	485.8	ug/L	1.76	485.8	ug/L	1.76	0.36%
QC value within limits for Ag 338.289 Recovery = 97.16%								
Al 308.215	106967.8	24960	ug/L	89.0	24960	ug/L	89.0	0.36%
QC value within limits for Al 308.215 Recovery = 99.84%								
As 188.979	4257.6	969.1	ug/L	4.18	969.1	ug/L	4.18	0.43%
QC value within limits for As 188.979 Recovery = 96.91%								
B	20503.7	998.2	ug/L	4.42	998.2	ug/L	4.42	0.44%
QC value within limits for B Recovery = 99.82%								
Ba 233.527	177161.2	1012	ug/L	9.9	1012	ug/L	9.9	0.98%
QC value within limits for Ba 233.527 Recovery = 101.24%								
Be 313.107	1308938.3	997.6	ug/L	11.73	997.6	ug/L	11.73	1.18%
QC value within limits for Be 313.107 Recovery = 99.76%								
Ca 315.887	621541.5	24950	ug/L	340.2	24950	ug/L	340.2	1.36%
QC value within limits for Ca 315.887 Recovery = 99.81%								
Cd 214.440	245656.8	1034	ug/L	11.6	1034	ug/L	11.6	1.13%
QC value within limits for Cd 214.440 Recovery = 103.38%								
Co 228.616	71002.9	1030	ug/L	8.6	1030	ug/L	8.6	0.83%
QC value within limits for Co 228.616 Recovery = 102.96%								
Cr 267.716	115950.6	998.4	ug/L	9.37	998.4	ug/L	9.37	0.94%
QC value within limits for Cr 267.716 Recovery = 99.84%								
Cu 327.393	187211.7	999.5	ug/L	2.94	999.5	ug/L	2.94	0.29%
QC value within limits for Cu 327.393 Recovery = 99.95%								
Fe 273.955	679579.3	25840	ug/L	246.5	25840	ug/L	246.5	0.95%
QC value within limits for Fe 273.955 Recovery = 103.36%								
K 766.490	89194.3	24720	ug/L	64.7	24720	ug/L	64.7	0.26%
QC value within limits for K 766.490 Recovery = 98.88%								
Mg 285.213	1402622.6	25290	ug/L	250.5	25290	ug/L	250.5	0.99%
QC value within limits for Mg 285.213 Recovery = 101.15%								
Mn 257.610	181410.2	1016	ug/L	2.5	1016	ug/L	2.5	0.25%
QC value within limits for Mn 257.610 Recovery = 101.62%								
Mo 202.031	27783.7	1048	ug/L	11.8	1048	ug/L	11.8	1.12%
QC value within limits for Mo 202.031 Recovery = 104.77%								
Na 589.592	288352.4	24820	ug/L	264.7	24820	ug/L	264.7	1.07%
QC value within limits for Na 589.592 Recovery = 99.29%								
Ni 231.604	51289.7	1038	ug/L	9.1	1038	ug/L	9.1	0.88%
QC value within limits for Ni 231.604 Recovery = 103.82%								
P 213.617	16885.1	4891	ug/L	21.8	4891	ug/L	21.8	0.45%
QC value within limits for P 213.617 Recovery = 97.81%								
Pb 220.353	10819.6	1048	ug/L	4.9	1048	ug/L	4.9	0.47%
QC value within limits for Pb 220.353 Recovery = 104.82%								
Sb 206.836	4016.5	999.2	ug/L	12.03	999.2	ug/L	12.03	1.20%
QC value within limits for Sb 206.836 Recovery = 99.92%								
Se 196.026	3259.9	1017	ug/L	1.7	1017	ug/L	1.7	0.17%
QC value within limits for Se 196.026 Recovery = 101.66%								
Sn 189.927	3010.5	282.5	ug/L	0.94	282.5	ug/L	0.94	0.33%
QC value less than the lower limit for Sn 189.927 Recovery = 56.50%								
Sr 421.552	1961064.2	952.8	ug/L	9.73	952.8	ug/L	9.73	1.02%
QC value within limits for Sr 421.552 Recovery = 95.28%								
Ti 337.279	119411.6	962.2	ug/L	3.95	962.2	ug/L	3.95	0.41%
QC value within limits for Ti 337.279 Recovery = 96.22%								
Tl 190.801	10005.0	1089	ug/L	4.3	1089	ug/L	4.3	0.40%
QC value within limits for Tl 190.801 Recovery = 108.92%								
V 292.402	158451.0	1045	ug/L	7.7	1045	ug/L	7.7	0.74%
QC value within limits for V 292.402 Recovery = 104.53%								
Zn 206.200	49157.5	1063	ug/L	21.2	1063	ug/L	21.2	1.99%
QC value within limits for Zn 206.200 Recovery = 106.34%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/21/2008 9:44:26 AM
Data Type: Reprocessed on 8/21/2008 2:55:21 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	63.9	0.370	ug/L	0.1309	0.370	ug/L	0.1309	35.35%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.4	3.823	ug/L	3.4208	3.823	ug/L	3.4208	89.49%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	10.5	2.379	ug/L	0.5279	2.379	ug/L	0.5279	22.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B	401.1	19.52	ug/L	3.204	19.52	ug/L	3.204	16.41%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	16.9	0.096	ug/L	0.1485	0.096	ug/L	0.1485	154.10%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	252.8	0.194	ug/L	0.0666	0.194	ug/L	0.0666	34.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	128.3	5.150	ug/L	1.4508	5.150	ug/L	1.4508	28.17%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	39.6	0.168	ug/L	0.0578	0.168	ug/L	0.0578	34.49%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	19.7	0.287	ug/L	0.1382	0.287	ug/L	0.1382	48.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	7.4	0.063	ug/L	0.2324	0.063	ug/L	0.2324	369.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	232.5	1.239	ug/L	0.2538	1.239	ug/L	0.2538	20.49%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	52.0	1.980	ug/L	1.7108	1.980	ug/L	1.7108	86.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	1.8	0.466	ug/L	65.4628	0.466	ug/L	65.4628	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	269.6	4.856	ug/L	1.5455	4.856	ug/L	1.5455	31.83%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	44.0	0.246	ug/L	0.0947	0.246	ug/L	0.0947	38.43%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.4	0.544	ug/L	0.0336	0.544	ug/L	0.0336	6.18%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	332.5	28.68	ug/L	12.308	28.68	ug/L	12.308	42.92%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	13.4	0.270	ug/L	0.1883	0.270	ug/L	0.1883	69.75%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.8	1.396	ug/L	0.8276	1.396	ug/L	0.8276	59.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	10.2	0.986	ug/L	0.4118	0.986	ug/L	0.4118	41.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.6	2.628	ug/L	3.0114	2.628	ug/L	3.0114	114.57%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.1	-0.666	ug/L	1.1628	-0.666	ug/L	1.1628	174.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	33.4	3.092	ug/L	0.7707	3.092	ug/L	0.7707	24.93%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	358.6	0.174	ug/L	0.0503	0.174	ug/L	0.0503	28.87%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	59.6	0.480	ug/L	0.1070	0.480	ug/L	0.1070	22.29%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	19.6	2.102	ug/L	0.7058	2.102	ug/L	0.7058	33.58%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11.6	0.076	ug/L	0.0189	0.076	ug/L	0.0189	24.68%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	8.9	0.193	ug/L	0.0763	0.193	ug/L	0.0763	39.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/21/2008 9:49:13 AM
Data Type: Reprocessed on 8/21/2008 2:55:22 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	87861.8	480.7	ug/L	1.29	480.7	ug/L	1.29	0.27%
QC value within limits for Ag 338.289 Recovery = 96.13%								
Al 308.215	86848.0	20260	ug/L	113.4	20260	ug/L	113.4	0.56%
QC value within limits for Al 308.215 Recovery = 101.29%								
As 188.979	4552.2	1035	ug/L	4.8	1035	ug/L	4.8	0.47%
QC value within limits for As 188.979 Recovery = 103.51%								
B	21055.2	1025	ug/L	4.4	1025	ug/L	4.4	0.43%
QC value within limits for B Recovery = 102.50%								
Ba 233.527	178193.2	1021	ug/L	5.0	1021	ug/L	5.0	0.49%
QC value within limits for Ba 233.527 Recovery = 102.08%								
Be 313.107	1351525.6	1030	ug/L	2.7	1030	ug/L	2.7	0.27%
QC value within limits for Be 313.107 Recovery = 103.01%								
Ca 315.887	1252610.7	50300	ug/L	89.7	50300	ug/L	89.7	0.18%
QC value within limits for Ca 315.887 Recovery = 100.60%								
Cd 214.440	247495.7	1042	ug/L	5.3	1042	ug/L	5.3	0.51%
QC value within limits for Cd 214.440 Recovery = 104.24%								
Co 228.616	71298.2	1034	ug/L	8.0	1034	ug/L	8.0	0.77%
QC value within limits for Co 228.616 Recovery = 103.37%								
Cr 267.716	119503.1	1028	ug/L	5.3	1028	ug/L	5.3	0.52%
QC value within limits for Cr 267.716 Recovery = 102.80%								
Cu 327.393	190236.4	1011	ug/L	6.8	1011	ug/L	6.8	0.68%
QC value within limits for Cu 327.393 Recovery = 101.09%								
Fe 273.955	543122.6	20630	ug/L	105.0	20630	ug/L	105.0	0.51%
QC value within limits for Fe 273.955 Recovery = 103.16%								
K 766.490	73059.8	20240	ug/L	82.1	20240	ug/L	82.1	0.41%
QC value within limits for K 766.490 Recovery = 101.19%								
Mg 285.213	2841937.5	51200	ug/L	159.1	51200	ug/L	159.1	0.31%
QC value within limits for Mg 285.213 Recovery = 102.41%								
Mn 257.610	184200.7	1029	ug/L	7.2	1029	ug/L	7.2	0.70%
QC value within limits for Mn 257.610 Recovery = 102.92%								
Mo 202.031	27216.2	1026	ug/L	4.3	1026	ug/L	4.3	0.42%
QC value within limits for Mo 202.031 Recovery = 102.63%								
Na 589.592	296769.1	25550	ug/L	59.7	25550	ug/L	59.7	0.23%
QC value within limits for Na 589.592 Recovery = 102.18%								
Ni 231.604	51284.6	1038	ug/L	6.1	1038	ug/L	6.1	0.59%
QC value within limits for Ni 231.604 Recovery = 103.81%								
P 213.617	17746.8	5140	ug/L	11.8	5140	ug/L	11.8	0.23%
QC value within limits for P 213.617 Recovery = 102.80%								
Pb 220.353	10851.1	1051	ug/L	1.7	1051	ug/L	1.7	0.16%
QC value within limits for Pb 220.353 Recovery = 105.13%								
Sb 206.836	4190.6	1042	ug/L	12.9	1042	ug/L	12.9	1.24%
QC value within limits for Sb 206.836 Recovery = 104.25%								
Se 196.026	3336.3	1040	ug/L	2.0	1040	ug/L	2.0	0.19%
QC value within limits for Se 196.026 Recovery = 104.05%								
Sn 189.927	11157.3	1040	ug/L	1.5	1040	ug/L	1.5	0.15%
QC value within limits for Sn 189.927 Recovery = 104.02%								
Sr 421.552	2089774.9	1015	ug/L	3.6	1015	ug/L	3.6	0.35%
QC value within limits for Sr 421.552 Recovery = 101.52%								
Ti 337.279	126482.7	1019	ug/L	4.1	1019	ug/L	4.1	0.40%
QC value within limits for Ti 337.279 Recovery = 101.87%								
Tl 190.801	9900.5	1078	ug/L	3.4	1078	ug/L	3.4	0.31%
QC value within limits for Tl 190.801 Recovery = 107.84%								
V 292.402	155462.5	1026	ug/L	4.7	1026	ug/L	4.7	0.46%
QC value within limits for V 292.402 Recovery = 102.56%								
Zn 206.200	48257.5	1044	ug/L	2.3	1044	ug/L	2.3	0.22%
QC value within limits for Zn 206.200 Recovery = 104.39%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/21/2008 9:59:23 AM
Data Type: Reprocessed on 8/21/2008 2:55:23 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13.9	0.083	ug/L	0.0943	0.083	ug/L	0.0943	113.10%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	11.2	2.591	ug/L	1.2213	2.591	ug/L	1.2213	47.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.2	1.405	ug/L	0.7473	1.405	ug/L	0.7473	53.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B	249.5	12.15	ug/L	0.590	12.15	ug/L	0.590	4.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0134	-0.004	ug/L	0.0134	368.07%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	64.4	0.050	ug/L	0.0078	0.050	ug/L	0.0078	15.68%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.2	1.290	ug/L	0.7248	1.290	ug/L	0.7248	56.21%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	13.2	0.056	ug/L	0.0677	0.056	ug/L	0.0677	120.43%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-0.5	-0.007	ug/L	0.2211	-0.007	ug/L	0.2211	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-1.5	-0.013	ug/L	0.0108	-0.013	ug/L	0.0108	83.91%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	92.5	0.493	ug/L	0.1461	0.493	ug/L	0.1461	29.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	14.1	0.534	ug/L	0.2834	0.534	ug/L	0.2834	53.06%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	113.4	31.50	ug/L	38.981	31.50	ug/L	38.981	123.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	44.3	0.795	ug/L	0.3796	0.795	ug/L	0.3796	47.75%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.5	0.008	ug/L	0.0794	0.008	ug/L	0.0794	951.42%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	12.2	0.459	ug/L	0.0542	0.459	ug/L	0.0542	11.82%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	186.4	16.06	ug/L	6.755	16.06	ug/L	6.755	42.07%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	10.1	0.203	ug/L	0.2542	0.203	ug/L	0.2542	125.23%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.8	0.818	ug/L	1.0328	0.818	ug/L	1.0328	126.18%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.0	0.577	ug/L	0.8243	0.577	ug/L	0.8243	142.95%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.4	2.595	ug/L	2.5408	2.595	ug/L	2.5408	97.92%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.8	-0.549	ug/L	1.5112	-0.549	ug/L	1.5112	275.37%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	29.6	2.741	ug/L	0.1540	2.741	ug/L	0.1540	5.62%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	35.0	0.017	ug/L	0.0182	0.017	ug/L	0.0182	107.41%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	28.2	0.227	ug/L	0.0662	0.227	ug/L	0.0662	29.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	22.5	2.409	ug/L	1.2834	2.409	ug/L	1.2834	53.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	7.1	0.047	ug/L	0.0412	0.047	ug/L	0.0412	88.20%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-3.9	-0.084	ug/L	0.1221	-0.084	ug/L	0.1221	144.63%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 8/21/2008 10:04:03 AM
Data Type: Reprocessed on 8/21/2008 2:55:25 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-1506.8	1.011	ug/L	0.0074	1.011	ug/L	0.0074	0.74%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	853825.5	199200	ug/L	1653.5	199200	ug/L	1653.5	0.83%
QC value within limits for Al 308.215 Recovery = 99.62%								
As 188.979	-92.7	-2.334	ug/L	3.0018	-2.334	ug/L	3.0018	128.60%
QC value within limits for As 188.979 Recovery = Not calculated								
B	4298.4	209.3	ug/L	3.88	209.3	ug/L	3.88	1.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	14238.9	-0.001	ug/L	1.2970	-0.001	ug/L	1.2970	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	176.0	0.233	ug/L	0.0405	0.233	ug/L	0.0405	17.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4936211.7	198200	ug/L	471.4	198200	ug/L	471.4	0.24%
QC value within limits for Ca 315.887 Recovery = 99.11%								
Cd 214.440	3058.5	-0.001	ug/L	0.1368	-0.001	ug/L	0.1368	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	446.2	0.438	ug/L	0.1912	0.438	ug/L	0.1912	43.66%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	615.9	-0.360	ug/L	0.4843	-0.360	ug/L	0.4843	134.48%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-651.6	-0.805	ug/L	0.2249	-0.805	ug/L	0.2249	27.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4570123.0	174500	ug/L	390.4	174500	ug/L	390.4	0.22%
QC value within limits for Fe 273.955 Recovery = 87.23%								
K 766.490	669.3	-99.84	ug/L	42.052	-99.84	ug/L	42.052	42.12%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	10276743.1	185300	ug/L	640.6	185300	ug/L	640.6	0.35%
QC value within limits for Mg 285.213 Recovery = 92.64%								
Mn 257.610	1143.3	-1.477	ug/L	0.1497	-1.477	ug/L	0.1497	10.13%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	22.5	0.850	ug/L	0.1671	0.850	ug/L	0.1671	19.65%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	928.5	-158.9	ug/L	6.48	-158.9	ug/L	6.48	4.08%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	351.2	0.766	ug/L	0.5884	0.766	ug/L	0.5884	76.80%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	11.3	3.286	ug/L	1.1905	3.286	ug/L	1.1905	36.23%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	30.1	2.913	ug/L	1.0274	2.913	ug/L	1.0274	35.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.0	0.736	ug/L	0.4119	0.736	ug/L	0.4119	55.93%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-11.3	-3.522	ug/L	1.5879	-3.522	ug/L	1.5879	45.09%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-371.3	-21.09	ug/L	0.834	-21.09	ug/L	0.834	3.95%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3626.4	0.388	ug/L	0.0427	0.388	ug/L	0.0427	10.99%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	395.3	-0.164	ug/L	0.3720	-0.164	ug/L	0.3720	226.51%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-13.3	-1.455	ug/L	0.5289	-1.455	ug/L	0.5289	36.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	213.5	1.408	ug/L	0.1196	1.408	ug/L	0.1196	8.50%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	1059.2	22.91	ug/L	0.392	22.91	ug/L	0.392	1.71%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB 080818SDM I:PB O:SD
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 8/21/2008 10:08:04 AM
Data Type: Reprocessed on 8/21/2008 2:55:26 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 080818SDM I:PB O:SD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	167236.4	962.3	ug/L	5.27	962.3	ug/L	5.27	0.55%
QC value within limits for Ag 338.289 Recovery = 96.23%								
Al 308.215	835710.8	195000	ug/L	2387.1	195000	ug/L	2387.1	1.22%
QC value within limits for Al 308.215 Recovery = 97.51%								
As 188.979	2027.1	473.0	ug/L	3.14	473.0	ug/L	3.14	0.66%
QC value within limits for As 188.979 Recovery = 94.59%								
B	4234.5	206.1	ug/L	1.64	206.1	ug/L	1.64	0.79%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	95109.7	468.4	ug/L	4.75	468.4	ug/L	4.75	1.01%
QC value within limits for Ba 233.527 Recovery = 93.69%								
Be 313.107	614589.1	467.0	ug/L	6.06	467.0	ug/L	6.06	1.30%
QC value within limits for Be 313.107 Recovery = 93.41%								
Ca 315.887	4838911.0	194300	ug/L	646.7	194300	ug/L	646.7	0.33%
QC value within limits for Ca 315.887 Recovery = 97.16%								
Cd 214.440	223021.1	926.7	ug/L	5.60	926.7	ug/L	5.60	0.60%
QC value within limits for Cd 214.440 Recovery = 92.67%								
Co 228.616	32672.5	469.1	ug/L	1.89	469.1	ug/L	1.89	0.40%
QC value within limits for Co 228.616 Recovery = 93.83%								
Cr 267.716	54187.8	461.3	ug/L	2.14	461.3	ug/L	2.14	0.46%
QC value within limits for Cr 267.716 Recovery = 92.27%								
Cu 327.393	90998.6	487.5	ug/L	2.49	487.5	ug/L	2.49	0.51%
QC value within limits for Cu 327.393 Recovery = 97.51%								
Fe 273.955	4530838.0	172900	ug/L	1389.9	172900	ug/L	1389.9	0.80%
QC value within limits for Fe 273.955 Recovery = 86.46%								
K 766.490	660.7	-101.4	ug/L	26.95	-101.4	ug/L	26.95	26.58%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	10127678.1	182600	ug/L	942.0	182600	ug/L	942.0	0.52%
QC value within limits for Mg 285.213 Recovery = 91.30%								
Mn 257.610	85302.3	470.7	ug/L	1.38	470.7	ug/L	1.38	0.29%
QC value within limits for Mn 257.610 Recovery = 94.13%								
Mo 202.031	13153.6	496.0	ug/L	0.83	496.0	ug/L	0.83	0.17%
QC value within limits for Mo 202.031 Recovery = 99.21%								
Na 589.592	968.9	-153.6	ug/L	6.25	-153.6	ug/L	6.25	4.07%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	45392.0	914.5	ug/L	4.76	914.5	ug/L	4.76	0.52%
QC value within limits for Ni 231.604 Recovery = 91.45%								
P 213.617	35.0	10.15	ug/L	0.125	10.15	ug/L	0.125	1.24%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	9659.1	935.8	ug/L	3.18	935.8	ug/L	3.18	0.34%
QC value within limits for Pb 220.353 Recovery = 93.58%								
Sb 206.836	1935.4	481.5	ug/L	4.92	481.5	ug/L	4.92	1.02%
QC value within limits for Sb 206.836 Recovery = 96.29%								
Se 196.026	1480.8	461.8	ug/L	1.76	461.8	ug/L	1.76	0.38%
QC value within limits for Se 196.026 Recovery = 92.36%								
Sn 189.927	-390.5	-23.13	ug/L	2.029	-23.13	ug/L	2.029	8.77%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	3574.5	0.387	ug/L	0.0826	0.387	ug/L	0.0826	21.35%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	362.5	-0.336	ug/L	0.4766	-0.336	ug/L	0.4766	141.84%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4379.5	472.4	ug/L	2.40	472.4	ug/L	2.40	0.51%
QC value within limits for Tl 190.801 Recovery = 94.47%								
V 292.402	70904.0	467.8	ug/L	1.12	467.8	ug/L	1.12	0.24%
QC value within limits for V 292.402 Recovery = 93.55%								
Zn 206.200	46181.9	999.0	ug/L	4.15	999.0	ug/L	4.15	0.42%
QC value within limits for Zn 206.200 Recovery = 99.90%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCV2 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 8/21/2008 10:16:40 AM
Data Type: Reprocessed on 8/21/2008 2:55:27 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66302.6	362.6	ug/L	0.78	362.6	ug/L	0.78	0.22%
QC value within limits for Ag 338.289 Recovery = 96.68%								
Al 308.215	64489.3	15040	ug/L	153.2	15040	ug/L	153.2	1.02%
QC value within limits for Al 308.215 Recovery = 100.27%								
As 188.979	3459.0	786.2	ug/L	4.84	786.2	ug/L	4.84	0.62%
QC value within limits for As 188.979 Recovery = 104.83%								
B	15777.0	768.1	ug/L	9.18	768.1	ug/L	9.18	1.20%
QC value within limits for B Recovery = 102.41%								
Ba 233.527	136167.2	780.0	ug/L	2.51	780.0	ug/L	2.51	0.32%
QC value within limits for Ba 233.527 Recovery = 104.00%								
Be 313.107	1029486.5	784.6	ug/L	6.51	784.6	ug/L	6.51	0.83%
QC value within limits for Be 313.107 Recovery = 104.62%								
Ca 315.887	957533.1	38450	ug/L	314.0	38450	ug/L	314.0	0.82%
QC value within limits for Ca 315.887 Recovery = 102.54%								
Cd 214.440	192269.5	809.8	ug/L	4.20	809.8	ug/L	4.20	0.52%
QC value within limits for Cd 214.440 Recovery = 107.97%								
Co 228.616	54940.9	796.7	ug/L	3.63	796.7	ug/L	3.63	0.46%
QC value within limits for Co 228.616 Recovery = 106.23%								
Cr 267.716	91209.3	784.6	ug/L	2.34	784.6	ug/L	2.34	0.30%
QC value within limits for Cr 267.716 Recovery = 104.62%								
Cu 327.393	142897.2	759.3	ug/L	1.46	759.3	ug/L	1.46	0.19%
QC value within limits for Cu 327.393 Recovery = 101.24%								
Fe 273.955	418213.0	15890	ug/L	65.3	15890	ug/L	65.3	0.41%
QC value within limits for Fe 273.955 Recovery = 105.92%								
K 766.490	54077.9	14980	ug/L	135.7	14980	ug/L	135.7	0.91%
QC value within limits for K 766.490 Recovery = 99.85%								
Mg 285.213	2152442.1	38780	ug/L	274.7	38780	ug/L	274.7	0.71%
QC value within limits for Mg 285.213 Recovery = 103.42%								
Mn 257.610	138448.9	773.5	ug/L	9.35	773.5	ug/L	9.35	1.21%
QC value within limits for Mn 257.610 Recovery = 103.14%								
Mo 202.031	21580.2	813.8	ug/L	1.20	813.8	ug/L	1.20	0.15%
QC value within limits for Mo 202.031 Recovery = 108.51%								
Na 589.592	220705.7	19000	ug/L	186.2	19000	ug/L	186.2	0.98%
QC value within limits for Na 589.592 Recovery = 101.32%								
Ni 231.604	39605.1	801.7	ug/L	5.02	801.7	ug/L	5.02	0.63%
QC value within limits for Ni 231.604 Recovery = 106.89%								
P 213.617	13502.3	3911	ug/L	6.0	3911	ug/L	6.0	0.15%
QC value within limits for P 213.617 Recovery = 104.29%								
Pb 220.353	8343.9	808.4	ug/L	0.36	808.4	ug/L	0.36	0.04%
QC value within limits for Pb 220.353 Recovery = 107.78%								
Sb 206.836	3145.1	782.4	ug/L	7.65	782.4	ug/L	7.65	0.98%
QC value within limits for Sb 206.836 Recovery = 104.32%								
Se 196.026	2539.1	791.9	ug/L	1.29	791.9	ug/L	1.29	0.16%
QC value within limits for Se 196.026 Recovery = 105.58%								
Sn 189.927	8507.7	793.1	ug/L	0.36	793.1	ug/L	0.36	0.05%
QC value within limits for Sn 189.927 Recovery = 105.75%								
Sr 421.552	1570046.3	762.7	ug/L	5.60	762.7	ug/L	5.60	0.73%
QC value within limits for Sr 421.552 Recovery = 101.70%								
Ti 337.279	94452.6	760.8	ug/L	6.56	760.8	ug/L	6.56	0.86%
QC value within limits for Ti 337.279 Recovery = 101.43%								
Tl 190.801	7637.2	831.3	ug/L	2.44	831.3	ug/L	2.44	0.29%
QC value greater than the upper limit for Tl 190.801 Recovery = 110.84%								
V 292.402	117313.9	773.9	ug/L	2.99	773.9	ug/L	2.99	0.39%
QC value within limits for V 292.402 Recovery = 103.19%								
Zn 206.200	37652.4	814.5	ug/L	9.28	814.5	ug/L	9.28	1.14%
QC value within limits for Zn 206.200 Recovery = 108.60%								

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/21/2008 10:23:43 AM
Data Type: Reprocessed on 8/21/2008 2:55:28 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.4	0.221	ug/L	0.0827	0.221	ug/L	0.0827	37.38%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	20.1	4.677	ug/L	5.0078	4.677	ug/L	5.0078	107.08%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.5	1.018	ug/L	2.8074	1.018	ug/L	2.8074	275.70%
QC value within limits for As 188.979 Recovery = Not calculated								
B	155.1	7.551	ug/L	0.1615	7.551	ug/L	0.1615	2.14%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.3	0.053	ug/L	0.1504	0.053	ug/L	0.1504	284.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	16.1	0.013	ug/L	0.0087	0.013	ug/L	0.0087	66.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	14.0	0.556	ug/L	1.3065	0.556	ug/L	1.3065	235.01%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	9.2	0.040	ug/L	0.0401	0.040	ug/L	0.0401	101.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	7.3	0.106	ug/L	0.0625	0.106	ug/L	0.0625	58.81%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	8.4	0.072	ug/L	0.0644	0.072	ug/L	0.0644	89.16%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	99.4	0.530	ug/L	0.0347	0.530	ug/L	0.0347	6.55%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	41.4	1.575	ug/L	0.7995	1.575	ug/L	0.7995	50.76%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	140.9	39.14	ug/L	30.213	39.14	ug/L	30.213	77.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	68.3	1.228	ug/L	0.2859	1.228	ug/L	0.2859	23.27%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.0	0.073	ug/L	0.0040	0.073	ug/L	0.0040	5.51%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.9	0.221	ug/L	0.0801	0.221	ug/L	0.0801	36.26%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	113.5	9.754	ug/L	2.8184	9.754	ug/L	2.8184	28.89%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	9.2	0.185	ug/L	0.2461	0.185	ug/L	0.2461	132.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.5	0.434	ug/L	1.6795	0.434	ug/L	1.6795	386.65%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	1.5	0.142	ug/L	0.3848	0.142	ug/L	0.3848	270.13%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-3.4	-0.839	ug/L	1.4769	-0.839	ug/L	1.4769	175.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-6.5	-2.016	ug/L	1.6304	-2.016	ug/L	1.6304	80.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	26.4	2.447	ug/L	0.6481	2.447	ug/L	0.6481	26.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	44.8	0.022	ug/L	0.0129	0.022	ug/L	0.0129	59.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	31.8	0.256	ug/L	0.1168	0.256	ug/L	0.1168	45.66%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	28.4	3.039	ug/L	0.9979	3.039	ug/L	0.9979	32.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	12.3	0.081	ug/L	0.0406	0.081	ug/L	0.0406	49.92%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-17.7	-0.383	ug/L	0.0983	-0.383	ug/L	0.0983	25.68%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: CCV1 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/21/2008 11:09:34 AM
Data Type: Reprocessed on 8/21/2008 2:55:38 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	88737.3	485.0	ug/L	5.35	485.0	ug/L	5.35	1.10%
QC value within limits for Ag 338.289 Recovery = 97.01%								
Al 308.215	88029.1	20530	ug/L	127.2	20530	ug/L	127.2	0.62%
QC value within limits for Al 308.215 Recovery = 102.66%								
As 188.979	4650.2	1057	ug/L	2.6	1057	ug/L	2.6	0.25%
QC value within limits for As 188.979 Recovery = 105.74%								
B	20851.1	1015	ug/L	10.4	1015	ug/L	10.4	1.03%
QC value within limits for B Recovery = 101.51%								
Ba 233.527	182763.6	1047	ug/L	14.5	1047	ug/L	14.5	1.38%
QC value within limits for Ba 233.527 Recovery = 104.70%								
Be 313.107	1402417.1	1069	ug/L	4.8	1069	ug/L	4.8	0.45%
QC value within limits for Be 313.107 Recovery = 106.89%								
Ca 315.887	1309572.4	52590	ug/L	213.8	52590	ug/L	213.8	0.41%
QC value within limits for Ca 315.887 Recovery = 105.18%								
Cd 214.440	255775.9	1077	ug/L	15.5	1077	ug/L	15.5	1.44%
QC value within limits for Cd 214.440 Recovery = 107.73%								
Co 228.616	73470.0	1065	ug/L	14.8	1065	ug/L	14.8	1.39%
QC value within limits for Co 228.616 Recovery = 106.52%								
Cr 267.716	122264.1	1052	ug/L	14.7	1052	ug/L	14.7	1.40%
QC value within limits for Cr 267.716 Recovery = 105.17%								
Cu 327.393	191581.9	1018	ug/L	10.0	1018	ug/L	10.0	0.98%
QC value within limits for Cu 327.393 Recovery = 101.79%								
Fe 273.955	557941.0	21200	ug/L	307.7	21200	ug/L	307.7	1.45%
QC value within limits for Fe 273.955 Recovery = 105.98%								
K 766.490	73138.7	20260	ug/L	77.0	20260	ug/L	77.0	0.38%
QC value within limits for K 766.490 Recovery = 101.29%								
Mg 285.213	2915817.9	52540	ug/L	200.1	52540	ug/L	200.1	0.38%
QC value within limits for Mg 285.213 Recovery = 105.07%								
Mn 257.610	186318.5	1041	ug/L	7.3	1041	ug/L	7.3	0.70%
QC value within limits for Mn 257.610 Recovery = 104.09%								
Mo 202.031	27704.4	1045	ug/L	14.3	1045	ug/L	14.3	1.37%
QC value within limits for Mo 202.031 Recovery = 104.47%								
Na 589.592	297142.9	25580	ug/L	175.3	25580	ug/L	175.3	0.69%
QC value within limits for Na 589.592 Recovery = 102.30%								
Ni 231.604	52823.4	1069	ug/L	13.6	1069	ug/L	13.6	1.27%
QC value within limits for Ni 231.604 Recovery = 106.92%								
P 213.617	18187.5	5268	ug/L	14.6	5268	ug/L	14.6	0.28%
QC value within limits for P 213.617 Recovery = 105.36%								
Pb 220.353	11115.3	1077	ug/L	2.4	1077	ug/L	2.4	0.23%
QC value within limits for Pb 220.353 Recovery = 107.69%								
Sb 206.836	4156.7	1034	ug/L	15.7	1034	ug/L	15.7	1.52%
QC value within limits for Sb 206.836 Recovery = 103.41%								
Se 196.026	3396.8	1059	ug/L	4.1	1059	ug/L	4.1	0.39%
QC value within limits for Se 196.026 Recovery = 105.93%								
Sn 189.927	11692.2	1090	ug/L	1.4	1090	ug/L	1.4	0.13%
QC value within limits for Sn 189.927 Recovery = 109.00%								
Sr 421.552	2143611.9	1041	ug/L	5.3	1041	ug/L	5.3	0.51%
QC value within limits for Sr 421.552 Recovery = 104.14%								
Ti 337.279	129131.2	1040	ug/L	8.3	1040	ug/L	8.3	0.80%
QC value within limits for Ti 337.279 Recovery = 104.01%								
Tl 190.801	10131.9	1103	ug/L	2.8	1103	ug/L	2.8	0.25%
QC value greater than the upper limit for Tl 190.801 Recovery = 110.34%								
V 292.402	157292.2	1038	ug/L	21.3	1038	ug/L	21.3	2.05%
QC value within limits for V 292.402 Recovery = 103.77%								
Zn 206.200	49739.6	1076	ug/L	28.6	1076	ug/L	28.6	2.66%
QC value within limits for Zn 206.200 Recovery = 107.60%								

QC Failed. Continue with analysis.

Sequence No.: 22
Sample ID: CCB 080818SDM I:PB O:SDM
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/21/2008 11:25:19 AM
Data Type: Reprocessed on 8/21/2008 2:55:41 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 080818SDM I:PB O:SDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	31.3	0.185	ug/L	0.1256	0.185	ug/L	0.1256	67.99%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.5	2.897	ug/L	4.2656	2.897	ug/L	4.2656	147.23%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.3	1.885	ug/L	1.1111	1.885	ug/L	1.1111	58.96%
QC value within limits for As 188.979 Recovery = Not calculated								
B	332.8	16.20	ug/L	0.218	16.20	ug/L	0.218	1.35%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	10.4	0.058	ug/L	0.1019	0.058	ug/L	0.1019	174.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	93.9	0.072	ug/L	0.0229	0.072	ug/L	0.0229	31.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	143.0	5.729	ug/L	0.9679	5.729	ug/L	0.9679	16.89%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	0.3	0.004	ug/L	0.0353	0.004	ug/L	0.0353	857.11%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-4.0	-0.057	ug/L	0.0877	-0.057	ug/L	0.0877	153.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	2.1	0.018	ug/L	0.0588	0.018	ug/L	0.0588	334.30%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-90.1	-0.480	ug/L	0.1052	-0.480	ug/L	0.1052	21.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	74.7	2.857	ug/L	0.1808	2.857	ug/L	0.1808	6.33%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	174.1	48.14	ug/L	23.452	48.14	ug/L	23.452	48.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	245.3	4.387	ug/L	0.6620	4.387	ug/L	0.6620	15.09%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	27.4	0.152	ug/L	0.0381	0.152	ug/L	0.0381	25.01%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	17.9	0.674	ug/L	0.0394	0.674	ug/L	0.0394	5.85%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	3889.5	335.6	ug/L	15.60	335.6	ug/L	15.60	4.65%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated								
Ni 231.604	14.5	0.293	ug/L	0.3032	0.293	ug/L	0.3032	103.48%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.0	1.170	ug/L	0.2069	1.170	ug/L	0.2069	17.69%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.6	0.253	ug/L	0.2784	0.253	ug/L	0.2784	109.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	0.8	0.195	ug/L	2.2501	0.195	ug/L	2.2501	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.1	0.646	ug/L	0.6299	0.646	ug/L	0.6299	97.51%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	3.4	0.316	ug/L	0.6862	0.316	ug/L	0.6862	216.99%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	235.1	0.114	ug/L	0.0191	0.114	ug/L	0.0191	16.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	37.5	0.302	ug/L	0.3016	0.302	ug/L	0.3016	99.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	10.3	1.102	ug/L	0.7438	1.102	ug/L	0.7438	67.49%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	17.9	0.118	ug/L	0.0600	0.118	ug/L	0.0600	50.96%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-9.6	-0.208	ug/L	0.1667	-0.208	ug/L	0.1667	80.17%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

Metals Standards Log Book # 28 Page # 13

8/12/08 AS
6010B.

CCV1 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1 ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
1 ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
1 ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 200 ml 1%HNO3/5%HCl				
CCV2 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.75 ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
0.75 ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
0.75 ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 200 ml 1%HNO3/5%HCl				
HDL 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
1ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
1ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 100 ml 1%HNO3/5%HCl				
6010B LDL				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	6010 LDL	ENVIRONMENTAL EXPRESS	0801708-21406	1/18/2009
Prepared in 100 ml 1%HNO3/5%HCl				
1%HNO3/5%HCL BLK				
AMOUNT	ACID	MANUFACTURER		EXP DATE
20 ML	HNO3	EMD	46269	1/1/2009
100 ML	HCL	BDH	4105031	1/1/2009
Prepared in 2000ml DI H2O				
6010B ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
5 ML	CALCIUM 10PPT	CPI	07L252-21354	7/10/2009
5 ML	MAGNESIUM 10PPT	CPI	07I063-20845	4/19/2009
5 ML	ALUMINIUM 10 PPT	CPI	07C307-19745	10/18/2008
5 ML	IRON 10 PPT	ENVIRONMENTAL EXPRESS	0733137-21386	1/28/2009
Prepared in 250 ml 1%HNO3/5%HCl				
6010B ICSAB				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
5 ML	CALCIUM 10PPT	CPI	07L252-21354	7/10/2009
5 ML	MAGNESIUM 10PPT	CPI	07I063-20845	4/19/2009
5 ML	ALUMINIUM 10 PPT	CPI	07C307-19745	10/18/2008
5 ML	IRON 10 PPT	ENVIRONMENTAL EXPRESS	0733137-21386	1/28/2009
2.5 ML	INT	ENVIRONMENTAL EXPRESS	0720812-20413	8/31/2008
Prepared in 250 ml 1%HNO3/5%HCl				
6010B ICV				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1.0ML	QCS ICV A	CPI	08D168-21845	4/25/2009
1.0ML	QCS ICV B	CPI	08D168-21846	4/25/2009
Prepared in 100 ml 1%HNO3/5%HCl				

8/12/08
SDV

8/12/08
SDV

Hg WORKING STANDARD

1ml X 10ug/ml Hg STOCK STD. (8/4/08RJS)/200ml 1% HNO3 Lot#46269
1ml X 10ug/ml Hg STOCK ICV (8/4/08RJS)/200ml 1% HNO3 Lot#46269
Final concentration is 50 ug/L. Expire.....

Metals Standards Log Book # 28 Page # 17

8/18/08 AS
6010B

CCV1 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1 ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
1 ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
1 ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 200 ml 1%HNO3/5%HCl				
CCV2 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.75 ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
0.75 ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
0.75 ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 200 ml 1%HNO3/5%HCl				
HDL 6010B				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	CCV-A	ENVIRONMENTAL EXPRESS	0806308-21600	3/31/2009
1ML	CCV-B	ENVIRONMENTAL EXPRESS	0806309-21601	3/31/2009
1ML	CCV-C	ENVIRONMENTAL EXPRESS	0806310-21602	3/31/2009
Prepared in 100 ml 1%HNO3/5%HCl				
6010B LDL				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	6010 LDL	ENVIRONMENTAL EXPRESS	0820317-22600	7/23/2009
Prepared in 100 ml 1%HNO3/5%HCl				
1%HNO3/5%HCL BLK				
AMOUNT	ACID	MANUFACTURER		EXP DATE
20 ML	HNO3	EMD	46269	1/1/2009
100 ML	HCL	BDH	4105031	1/1/2009
Prepared in 2000ml DI H2O				
6010B ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
5 ML	CALCIUM 10PPT	CPI	07L252-21354	7/10/2009
5 ML	MAGNESIUM 10PPT	CPI	07I063-20845	4/19/2009
5 ML	ALUMINIUM 10 PPT	CPI	07C307-19745	10/18/2008
5 ML	IRON 10 PPT	ENVIRONMENTAL EXPRESS	0733137-21366	1/28/2009
Prepared in 250 ml 1%HNO3/5%HCl				
6010B ICSAB				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
5 ML	CALCIUM 10PPT	CPI	07L252-21354	7/10/2009
5 ML	MAGNESIUM 10PPT	CPI	07I063-20845	4/19/2009
5 ML	ALUMINIUM 10 PPT	CPI	07C307-19745	10/18/2008
5 ML	IRON 10 PPT	ENVIRONMENTAL EXPRESS	0733137-21366	1/28/2009
2.5 ML	INT	ENVIRONMENTAL EXPRESS	0720812-20413	8/31/2008
Prepared in 250 ml 1%HNO3/5%HCl				
6010B ICV				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1.0ML	QCS ICV A	CPI	08D168-21845	4/25/2009
1.0ML	QCS ICV B	CPI	08D168-21846	4/25/2009
Prepared in 100 ml 1%HNO3/5%HCl				

Sequence No.: 1
Sample ID: HDLX2
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 3/7/2008 11:30:24 AM
Data Type: Reprocessed on 8/18/2008 2:12:49 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: HDLX2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	394775.7	1849	ug/L	15.5	1849	ug/L	15.5	0.84%
QC value within limits for Ag 338.289 Recovery = 92.47%								
Al 308.215	409936.0	79210	ug/L	66.8	79210	ug/L	66.8	0.08%
QC value within limits for Al 308.215 Recovery = 99.01%								
As 188.979	19448.6	3893	ug/L	33.6	3893	ug/L	33.6	0.86%
QC value within limits for As 188.979 Recovery = 97.33%								
B	101661.1	3840	ug/L	13.7	3840	ug/L	13.7	0.36%
QC value within limits for B Recovery = 95.99%								
Ba 233.527	804186.0	3725	ug/L	47.2	3725	ug/L	47.2	1.27%
QC value within limits for Ba 233.527 Recovery = 93.13%								
Be 313.107	6020843.5	3874	ug/L	53.3	3874	ug/L	53.3	1.38%
QC value within limits for Be 313.107 Recovery = 96.84%								
Ca 315.887	6042348.4	192600	ug/L	942.4	192600	ug/L	942.4	0.49%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	785540.7	3660	ug/L	46.6	3660	ug/L	46.6	1.27%
QC value within limits for Cd 214.440 Recovery = 91.50%								
Co 228.616	164357.0	3684	ug/L	46.4	3684	ug/L	46.4	1.26%
QC value within limits for Co 228.616 Recovery = 92.09%								
Cr 267.716	368758.3	3730	ug/L	43.2	3730	ug/L	43.2	1.16%
QC value within limits for Cr 267.716 Recovery = 93.25%								
Cu 327.393	868276.9	3887	ug/L	34.6	3887	ug/L	34.6	0.89%
QC value within limits for Cu 327.393 Recovery = 97.17%								
Fe 273.955	2258155.6	73210	ug/L	885.2	73210	ug/L	885.2	1.21%
QC value within limits for Fe 273.955 Recovery = 91.52%								
K 766.490	364136.3	78920	ug/L	95.2	78920	ug/L	95.2	0.12%
QC value within limits for K 766.490 Recovery = 98.64%								
Mg 285.213	14992230.3	191200	ug/L	1961.7	191200	ug/L	1961.7	1.03%
QC value within limits for Mg 285.213 Recovery = 95.58%								
Mn 257.610	808835.1	3864	ug/L	5.4	3864	ug/L	5.4	0.14%
QC value within limits for Mn 257.610 Recovery = 96.61%								
Mo 202.031	194229.0	3793	ug/L	39.0	3793	ug/L	39.0	1.03%
QC value within limits for Mo 202.031 Recovery = 94.84%								
Na 589.592	1960347.9	97660	ug/L	930.7	97660	ug/L	930.7	0.95%
QC value within limits for Na 589.592 Recovery = 97.66%								
Ni 231.604	231744.9	3664	ug/L	41.5	3664	ug/L	41.5	1.13%
QC value within limits for Ni 231.604 Recovery = 91.60%								
P 213.617	97547.7	19460	ug/L	214.8	19460	ug/L	214.8	1.10%
QC value within limits for P 213.617 Recovery = 97.29%								
Pb 220.353	46717.5	3727	ug/L	36.3	3727	ug/L	36.3	0.97%
QC value within limits for Pb 220.353 Recovery = 93.18%								
Sb 206.836	38116.0	3698	ug/L	35.8	3698	ug/L	35.8	0.97%
QC value within limits for Sb 206.836 Recovery = 92.44%								
Se 196.026	13387.4	3821	ug/L	52.0	3821	ug/L	52.0	1.36%
QC value within limits for Se 196.026 Recovery = 95.53%								
Sn 189.927	58468.3	3825	ug/L	33.0	3825	ug/L	33.0	0.86%
QC value within limits for Sn 189.927 Recovery = 95.63%								
Sr 421.552	9789738.2	3909	ug/L	41.9	3909	ug/L	41.9	1.07%
QC value within limits for Sr 421.552 Recovery = 97.72%								
Ti 337.279	689592.5	3916	ug/L	5.9	3916	ug/L	5.9	0.15%
QC value within limits for Ti 337.279 Recovery = 97.91%								
Tl 190.801	21988.2	3660	ug/L	31.8	3660	ug/L	31.8	0.87%
QC value within limits for Tl 190.801 Recovery = 91.51%								
V 292.402	1210633.9	3817	ug/L	40.8	3817	ug/L	40.8	1.07%
QC value within limits for V 292.402 Recovery = 95.43%								
Zn 206.200	379086.2	3690	ug/L	49.4	3690	ug/L	49.4	1.34%
QC value within limits for Zn 206.200 Recovery = 92.25%								

All analyte(s) passed QC.

Sequence No.: 5
Sample ID: HDLX10
Analyst:
Logged In Analyst (Original) : Chemist
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 3/7/2008 11:45:39 AM
Data Type: Reprocessed on 8/18/2008 2:12:55 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: HDLX10

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	1663739.4	7810	ug/L	74.6	7810	ug/L	74.6	0.96%
QC value less than the lower limit for Ag 338.289 Recovery = 78.10%								
Al 308.215	2001376.7	386700	ug/L	2608.3	386700	ug/L	2608.3	0.67%
QC value within limits for Al 308.215 Recovery = 96.67%								
As 188.979	86212.4	17260	ug/L	88.2	17260	ug/L	88.2	0.51%
QC value less than the lower limit for As 188.979 Recovery = 86.29%								
B	455822.2	17220	ug/L	138.5	17220	ug/L	138.5	0.80%
QC value less than the lower limit for B Recovery = 86.08%								
Ba 233.527	3193807.6	14800	ug/L	73.1	14800	ug/L	73.1	0.49%
QC value less than the lower limit for Ba 233.527 Recovery = 73.98%								
Be 313.107	25267789.6	16260	ug/L	49.0	16260	ug/L	49.0	0.30%
QC value less than the lower limit for Be 313.107 Recovery = 81.28%								
Ca 315.887	26796258.9	854100	ug/L	2152.4	854100	ug/L	2152.4	0.25%
QC value less than the lower limit for Ca 315.887 Recovery = 85.41%								
Cd 214.440	2783625.6	12970	ug/L	149.0	12970	ug/L	149.0	1.15%
QC value less than the lower limit for Cd 214.440 Recovery = 64.85%								
Co 228.616	623488.4	13970	ug/L	136.0	13970	ug/L	136.0	0.97%
QC value less than the lower limit for Co 228.616 Recovery = 69.87%								
Cr 267.716	1504531.2	15220	ug/L	99.1	15220	ug/L	99.1	0.65%
QC value less than the lower limit for Cr 267.716 Recovery = 76.10%								
Cu 327.393	4095612.1	18330	ug/L	129.7	18330	ug/L	129.7	0.71%
QC value within limits for Cu 327.393 Recovery = 91.66%								
Fe 273.955	8421467.2	272800	ug/L	2318.0	272800	ug/L	2318.0	0.85%
QC value less than the lower limit for Fe 273.955 Recovery = 68.21%								
K 766.490	1786927.4	387300	ug/L	2511.8	387300	ug/L	2511.8	0.65%
QC value within limits for K 766.490 Recovery = 96.82%								
Mg 285.213	55913883.4	712900	ug/L	976.3	712900	ug/L	976.3	0.14%
QC value less than the lower limit for Mg 285.213 Recovery = 71.29%								
Mn 257.610	3531278.8	16870	ug/L	86.7	16870	ug/L	86.7	0.51%
QC value less than the lower limit for Mn 257.610 Recovery = 84.37%								
Mo 202.031	769628.1	15030	ug/L	61.6	15030	ug/L	61.6	0.41%
QC value less than the lower limit for Mo 202.031 Recovery = 75.16%								
Na 589.592	9535657.2	475100	ug/L	1698.2	475100	ug/L	1698.2	0.36%
QC value within limits for Na 589.592 Recovery = 95.01%								
Ni 231.604	871032.9	13770	ug/L	78.3	13770	ug/L	78.3	0.57%
QC value less than the lower limit for Ni 231.604 Recovery = 68.85%								
P 213.617	406601.3	81110	ug/L	94.5	81110	ug/L	94.5	0.12%
QC value less than the lower limit for P 213.617 Recovery = 81.11%								
Pb 220.353	177419.9	14160	ug/L	44.4	14160	ug/L	44.4	0.31%
QC value less than the lower limit for Pb 220.353 Recovery = 70.78%								
Sb 206.836	173185.2	16820	ug/L	85.7	16820	ug/L	85.7	0.51%
QC value less than the lower limit for Sb 206.836 Recovery = 84.12%								
Se 196.026	57647.1	16460	ug/L	43.9	16460	ug/L	43.9	0.27%
QC value less than the lower limit for Se 196.026 Recovery = 82.28%								
Sn 189.927	228708.9	14970	ug/L	129.0	14970	ug/L	129.0	0.86%
QC value less than the lower limit for Sn 189.927 Recovery = 74.85%								
Sr 421.552	Saturated3							
Unable to evaluate QC.								
Ti 337.279	3111450.6	17670	ug/L	113.4	17670	ug/L	113.4	0.64%
QC value less than the lower limit for Ti 337.279 Recovery = 88.35%								
Tl 190.801	80792.6	13450	ug/L	82.5	13450	ug/L	82.5	0.61%
QC value less than the lower limit for Tl 190.801 Recovery = 67.25%								
V 292.402	5090571.8	16050	ug/L	147.9	16050	ug/L	147.9	0.92%
QC value less than the lower limit for V 292.402 Recovery = 80.24%								
Zn 206.200	1408672.6	13730	ug/L	119.5	13730	ug/L	119.5	0.87%
QC value less than the lower limit for Zn 206.200 Recovery = 68.63%								

QC Failed. Continue with analysis.

Metals Digestion Worksheet

Method Name 3050B Dig (LOW LEVEL) (MULT IN **Prep Method** M3050LLMI **Set** 080815A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 0811201-21870		
Spiked ID 2	LCSW LOT# 0811202-21871		
Spiked ID 3	PYREX BEAD		
Spiked ID 4			
Spiked By	src	Date:	8/15/08 10:15:00 AM
Witnessed By	jv	Date:	8/15/08 10:15:00 AM

Starting Temp:	93°C
Ending Temp:	95°C
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	yes
End Date/Time	8/15/08 16:50

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	080815A Blk			3	1.00	20	08/15/08 10:15	
2	080815A LCS		1ml	1+2+3	1.00	20	08/15/08 10:15	
3	080815A LCSD		1ml	1+2+3	1.00	20	08/15/08 10:15	
4	AX82321	AX82321S01			0.91	20	08/15/08 10:15	
5	AX82322	AX82322S01			0.96	20	08/15/08 10:15	
6	AX82323	AX82323S01			1.01	20	08/15/08 10:15	
7	AX82324	AX82324S01			0.91	20	08/15/08 10:15	
8	AX82325	AX82325S01			0.97	20	08/15/08 10:15	
9	AX82325 MS	AX82325S01	2ml	1+2	0.94	20	08/15/08 10:15	
10	AX82325 MSD	AX82325S01	2ml	1+2	0.94	20	08/15/08 10:15	
11	AX82326	AX82326S01			1.05	20	08/15/08 10:15	
12	AX82327	AX82327S01			1.07	20	08/15/08 10:15	
13	AX82328	AX82328S01			0.95	20	08/15/08 10:15	
14	AX82329	AX82329S01			1.04	20	08/15/08 10:15	
15	AX82330	AX82330S01			1.07	20	08/15/08 10:15	
16	AX82331	AX82331S01			1.05	20	08/15/08 10:15	
17	AX82332	AX82332S01			0.93	20	08/15/08 10:15	

Solvent and Lot#
1:1 HNO3 5-13-08
HNO3 BDH 1108050-2083
H2O2 EMD ZU70071198-2069
HCL BDH 4105031

Sample COC Transfer	
Sample prep employee Initials	src
Analyst's initials	SDM
Date	8/18/08
Time	08:22
Moved to	Metals

Technician's Initials	
Scanned By	src
Sample Preparation	src
Digestion	src
Bring up to volume	src
Modified	8/15/08 3:44:14 PM

Reviewed By: SDM **Date:** 8/18/08

Metals Digestion Worksheet

Method Name 3010A Digestion (LOW LEVEL) **Prep Method** M3010LL **Set** 080812A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 0811201-21870		
Spiked ID 2	LCSW LOT# 0811202-21871		
Spiked ID 3			
Spiked ID 4			
Spiked By	src	Date:	8/12/08 9:41:00 AM
Witnessed By	jv	Date:	8/12/08 9:41:00 AM

Starting Temp:	81°C
Ending Temp:	96°C
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	YES
End Date/Time	8/12/08 15:38

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	080812A Blk				100	20	08/12/08 9:41	
2	080812A LCS		1mL	1+2	100	20	08/12/08 9:41	
3	080812A LCSD		1mL	1+2	100	20	08/12/08 9:41	
4	AX82333	AX82333W04			100	20	08/12/08 9:41	
5	AX82334	AX82334W04			100	20	08/12/08 9:41	
6	AX82344	AX82344W08			100	20	08/12/08 9:41	
7	AX82344 MS	AX82344W07	1mL	1+2	100	20	08/12/08 9:41	
8	AX82344 MSD	AX82344W07	1mL	1+2	100	20	08/12/08 9:41	
9	AX82345	AX82345W04			100	20	08/12/08 9:41	

Solvent and Lot#
HNO3 BDH 1108050 2084
1:1 HCL 5-13-08

Sample COC Transfer	
Sample prep employee Initials	src
Analyst's initials	SDM
Date	8/12/08
Time	17:00
Moved to	Metals

Technician's Initials	
Scanned By	src
Sample Preparation	src
Digestion	src
Bring up to volume	src
Modified	8/12/08 9:16:36 AM

Reviewed By: SDM **Date:** 8/12/08

APPL, INC.
Analysis Listing PE ICAP
08/21/08

SampleID	Date	Time	BatchID	Dilution
CalBlk 080818SDM I:PB O:S	08/21/08	09:23		1
STD 1 080818SDM I:PB O:SD	08/21/08	09:28		1
STD 2 080818SDM I:PB O:SD	08/21/08	09:33		1
STD 3 080818SDM I:PB O:SD	08/21/08	09:36		1
ICV 080818SDM I:PB O:SDM	08/21/08	09:41		1
ICB 080818SDM I:PB O:SDM	08/21/08	09:44		1
CCV1 080818SDM I:PB O:SD	08/21/08	09:49		1
CCB 080818SDM I:PB O:SDM	08/21/08	09:59		1
ICSA 080818SDM I:PB O:SDM	08/21/08	10:04		1
ICSAB 080818SDM I:PB O:SD	08/21/08	10:08		1
CCV2 080818SDM I:PB O:SD	08/21/08	10:16		1
CCB 080818SDM I:PB O:SDM	08/21/08	10:23		1
AX82327S01-1/5	08/21/08	11:03	080815A-3050BLL	5
CCV1 080818SDM I:PB O:SD	08/21/08	11:09		1
CCB 080818SDM I:PB O:SDM	08/21/08	11:25		1

APPL, INC.
Analysis Listing PE ICAP
08/13/08

SampleID	Date	Time	BatchID	Dilution
CalBlk 080812SDM I:PB O:S	08/13/08	07:58		1
STD 1 080812SDM I:PB O:SD	08/13/08	08:03		1
STD 2 080812SDM I:PB O:SD	08/13/08	08:08		1
STD 3 080812SDM I:PB O:SD	08/13/08	08:12		1
ICV 080812SDM I:PB O:SDM	08/13/08	08:15		1
ICB 080812SDM I:PB O:SDM (	08/13/08	08:22		1
CCV1 080812SDM I:PB O:SD	08/13/08	08:28		1
CCB 080812SDM I:PB O:SDM	08/13/08	08:32		1
ICSA 080812SDM I:PB O:SDM	08/13/08	08:37		1
ICSAB 080812SDM I:PB O:SD	08/13/08	08:45		1
CCV2 080812SDM I:PB O:SD	08/13/08	08:49		1
CCB 080812SDM I:PB O:SDM	08/13/08	08:53		1
CCV1 080812SDM I:PB O:SD	08/13/08	11:34		1
CCB 080812SDM I:PB O:SDM	08/13/08	11:42		1
080812A-3010A-BLK	08/13/08	11:47	080812A-3010ALL	20
080812A-3010A-LCS	08/13/08	11:52	080812A-3010ALL	1
808012A-3010A-LCSD	08/13/08	11:56	080812A-3010ALL	1
AX82333W04	08/13/08	11:59	080812A-3010ALL	20
AX82334W04	08/13/08	12:05	080812A-3010ALL	20
AX82344W08	08/13/08	12:10	080812A-3010ALL	20
AX82344W07-MS	08/13/08	12:17	080812A-3010ALL	20
AX82344W07-MSD	08/13/08	12:24	080812A-3010ALL	20
AX82344W08-1/5	08/13/08	12:30	080812A-3010ALL	100
AX82344W08-A	08/13/08	12:35	080812A-3010ALL	20
CCV2 080812SDM I:PB O:SD	08/13/08	12:41		1
CCB 080812SDM I:PB O:SDM	08/13/08	12:47		1
AX82345W04	08/13/08	12:52	080812A-3010ALL	20
CCV1 080812SDM I:PB O:SD	08/13/08	13:00		1
CCB 080812SDM I:PB O:SDM	08/13/08	13:06		1

EPA METHOD 6850
Perchlorate
LC/MS

APPL, INC.

EPA 6850
PERCHLORATE

Water
Sample & QC Data

Perchlorate

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-02
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82333
QCG: $6850-080812A-125526

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 6850	Perchlorate	0.20 U	0.6	0.20	ug/L	08/12/08	08/29/08

Quant Method:	PER828A.M
Run #:	L828_024.D
Instrument:	AGIL_1100
Sequence:	LQ082808
Dilution Factor:	1
Initials:	MP

Printed: 08/29/08 3:49:01 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_024.D Vial: 24
Acq On : 29 Aug 08 1:52 Operator: MP
Sample : AX82333 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:45 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.87	89	11869002m	5.00000 ppb	0.28

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.60	83	24621	0.00856 ppb	100
3) Perchlorate_85	10.86	85	23638	0.02411 ppb	100

(#) = qualifier out of range (m) = manual integration
L828_024.D PER828A.M Fri Aug 29 08:50:07 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_024.D Vial: 24
Acq On : 29 Aug 08 1:52 Operator: MP
Sample : AX82333 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:45 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.00856 ppb
RT: 10.60 min Scan# 295
Delta R.T. 0.05 min
Lab File: L828_024.D
Acq: 29 Aug 08 1:52

Tgt Ion: 83 Resp: 24621

#3
Perchlorate_85
Concen: 0.02411 ppb
RT: 10.86 min Scan# 317
Delta R.T. 0.26 min
Lab File: L828_024.D
Acq: 29 Aug 08 1:52

Tgt Ion: 85 Resp: 23638

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_024.D Vial: 24
Acq On : 29 Aug 08 1:52 Operator: MP
Sample : AX82333 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_024.D Vial: 24
Acq On : 29 Aug 08 1:52 Operator: MP
Sample : AX82333 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:45 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.87min 5.0000ppb m

response 11869002

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Perchlorate

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-03
Sample Collection Date: 08/07/08

ARF: 56740
APPL ID: AX82334
QCG: $6850-080812A-125526

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 6850	Perchlorate	0.20 U	0.6	0.20	ug/L	08/12/08	08/29/08

Quant Method:	PER828A.M
Run #:	L828_027.D
Instrument:	AGIL_1100
Sequence:	LQ082808
Dilution Factor:	1
Initials:	MP

Printed: 08/29/08 3:49:01 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:47 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.89	89	11710287m	5.00000 ppb	0.30

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.69	83	229712m	0.08099 ppb	100
3) Perchlorate_85	10.93	85	128647m	0.13300 ppb	100

(#) = qualifier out of range (m) = manual integration
L828_027.D PER828A.M Fri Aug 29 08:51:01 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:47 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.08099 ppb m
RT: 10.69 min Scan# 303
Delta R.T. 0.15 min
Lab File: L828_027.D
Acq: 29 Aug 08 2:56

Tgt Ion: 83 Resp: 229712

#3
Perchlorate_85
Concen: 0.13300 ppb m
RT: 10.93 min Scan# 323
Delta R.T. 0.32 min
Lab File: L828_027.D
Acq: 29 Aug 08 2:56

Tgt Ion: 85 Resp: 128647

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:46 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.89min 5.0000ppb m

response 11710287

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.69min 0.0226ppb

response 64229

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.69min 0.0810ppb m

response 229712

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:46 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.78min 0.0503ppb

response 48605

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_027.D Vial: 27
Acq On : 29 Aug 08 2:56 Operator: MP
Sample : AX82334 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.93min 0.1330ppb m

response 128647

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Perchlorate

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-01
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82344
QCG: $6850-080812A-125526

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 6850	Perchlorate	0.20 U	0.6	0.20	ug/L	08/12/08	08/29/08

Quant Method:	PER828A.M
Run #:	L828_036.D
Instrument:	AGIL_1100
Sequence:	LQ082808
Dilution Factor:	1
Initials:	MP

Printed: 08/29/08 5:18:27 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_036.D Vial: 36
Acq On : 29 Aug 08 6:08 Operator: MP
Sample : AX82344 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 11:11 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.98	89	12803067m	5.00000 ppb	0.38

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	0.00	83		N.D. d	
3) Perchlorate_85	10.63	85	29263	0.02767 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_036.D Vial: 36
Acq On : 29 Aug 08 6:08 Operator: MP
Sample : AX82344 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 11:11 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.00 ppb
Expected RT: 10.54 min

Lab File: L828_036.D
Acq: 29 Aug 08 6:08

Tgt Ion: 83

#3
Perchlorate_85
Concen: 0.02767 ppb
RT: 10.63 min Scan# 298
Delta R.T. 0.02 min
Lab File: L828_036.D
Acq: 29 Aug 08 6:08

Tgt Ion: 85 Resp: 29263

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_036.D Vial: 36
Acq On : 29 Aug 08 6:08 Operator: MP
Sample : AX82344 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_036.D Vial: 36
Acq On : 29 Aug 08 6:08 Operator: MP
Sample : AX82344 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 9:05 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.98min 5.0000ppb m

response 12803067

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Perchlorate

Parsons Engineering Science, Inc.
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Tammy Chang
Project: 744653.84115 HAMMOND B.G.R.-LA,MMRP
Sample ID: HBGR-GW-04
Sample Collection Date: 08/06/08

ARF: 56740
APPL ID: AX82345
QCG: $6850-080812A-125526

Method	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
EPA 6850	Perchlorate	0.20 U	0.6	0.20	ug/L	08/12/08	08/29/08

Quant Method:	PER828A.M
Run #:	L828_038.D
Instrument:	AGIL_1100
Sequence:	LQ082808
Dilution Factor:	1
Initials:	MP

Printed: 08/29/08 3:49:01 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_038.D Vial: 38
Acq On : 29 Aug 08 6:51 Operator: MP
Sample : AX82345 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 9:06 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	11.04	89	11998614m	5.00000 ppb	0.44

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.65	83	21617	0.00744 ppb	100
3) Perchlorate_85	10.72	85	14201	0.01433 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_038.D Vial: 38
Acq On : 29 Aug 08 6:51 Operator: MP
Sample : AX82345 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 9:06 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.00744 ppb
RT: 10.65 min Scan# 300
Delta R.T. 0.11 min
Lab File: L828_038.D
Acq: 29 Aug 08 6:51

Tgt Ion: 83 Resp: 21617

#3
Perchlorate_85
Concen: 0.01433 ppb
RT: 10.72 min Scan# 306
Delta R.T. 0.12 min
Lab File: L828_038.D
Acq: 29 Aug 08 6:51

Tgt Ion: 85 Resp: 14201

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_038.D Vial: 38
Acq On : 29 Aug 08 6:51 Operator: MP
Sample : AX82345 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_038.D Vial: 38
Acq On : 29 Aug 08 6:51 Operator: MP
Sample : AX82345 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 9:06 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

11.04min 5.0000ppb m

response 11998614

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 56740
Matrix: WATER
Blank ID: 080812A-BLK

SDG No: 56740
Date Analyzed: 8/29/2008
Instrument: AGIL_1100
Time Analyzed: 0131

APPL ID.	Client Sample No.	File ID.	Date Analyzed
080812A-LCS	Lab Control Spike	L828_020.D	8/29/2008 0026
080812A-BLK	Blank	L828_023.D	8/29/2008 0131
AX82333	HBGR-GW-02	L828_024.D	8/29/2008 0152
AX82334	HBGR-GW-03	L828_027.D	8/29/2008 0256
080812A-MS	Matrix Spike	L828_028.D	8/29/2008 0317
080812A-MSD	Matrix SpikeD	L828_030.D	8/29/2008 0400
AX82344	HBGR-GW-01	L828_036.D	8/29/2008 0608
AX82345	HBGR-GW-04	L828_038.D	8/29/2008 0651

Comments: Batch: $6850-080812A

Method Blank
Perchlorate

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Blank Name/QCG: **080812W-82344 - 125526**
Batch ID: $6850-080812A

Sample Type	Analyte	Result	RL	MDL	Units	Extraction Date	Analysis Date
BLANK	Perchlorate	0.20 U	0.6	0.20	ug/L	08/12/08	08/29/08

Quant Method: PER828A.M
Run #: L828_023.D
Instrument: AGIL_1100
Sequence: LQ082808
Initials: MP

GC SC-Blank-REG MDLs
Printed: 08/29/08 3:49:07 PM

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_023.D Vial: 23
Acq On : 29 Aug 08 1:31 Operator: MP
Sample : 080812WBLKA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:45 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.87	89	11757489m	5.00000 ppb	0.28

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.79	83	18735	0.00658 ppb	100
3) Perchlorate_85	10.72	85	26274	0.02705 ppb	100

(#) = qualifier out of range (m) = manual integration
L828_023.D PER828A.M Fri Aug 29 08:45:10 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_023.D Vial: 23
Acq On : 29 Aug 08 1:31 Operator: MP
Sample : 080812WBLKA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:45 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_023.D Vial: 23
Acq On : 29 Aug 08 1:31 Operator: MP
Sample : 080812WBLKA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:45 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

③ 8-29-08 8/29/08

(1) Perchlorate_IS (I)

10.87min 5.0000ppb m

response 11757489

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_023.D Vial: 23
Acq On : 29 Aug 08 1:31 Operator: MP
Sample : 080812WBLKA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Laboratory Control Spike Recovery
Perchlorate

APPL ID: **080812W-82344 LCS - 125526**
Batch ID: $6850-080812A

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
Perchlorate	1.0	0.847	84.7 #	85-115

= Recovery is outside QC limits.

Comments:

Primary	SPK
Quant Method :	PER828A.M
Extraction Date :	08/12/08
Analysis Date :	08/29/08
Instrument :	AGIL_1100
Run :	L828_020.D
Initials :	MP

Printed: 08/29/08 5:15:43 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:44 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.72	89	10202820m	5.00000 ppb	0.13

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.73	83	2093983	0.84737 ppb	100
3) Perchlorate_85	10.81	85	706968m	0.83889 ppb	100

Algorithm chk

$$\frac{2093983\,(5.0)(1.05)}{(10202820)(0.0127)\,(100)} = 0.848$$

(#) = qualifier out of range (m) = manual integration
L828_020.D PER828A.M Fri Aug 29 08:44:09 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:44 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.74min 5.0000ppb

response 10501635

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.72min 5.0000ppb m

response 10202820

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:44 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.81min 0.8389ppb m

response 706968

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_020.D Vial: 20
Acq On : 29 Aug 08 00:26 Operator: MP
Sample : 080812WLCSA_DUP-1 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.82min 0.4336ppb

response 365411

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Interferrence Check Sample

Perchlorate

APPL ID: 080815W_ICSW 1.05 DF 08/15/087
Batch ID: $6850-080812A

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Level ug/L	Spk Result ug/L	SPK% Recovery	Recovery Limits
Perchlorate	0.600	0.452	75.3%	70-130

Comments:

Quant Method:	PER828A.M
Extraction Date:	8/12/2008
Analysis Date:	8/29/2008
Instrument:	AGIL_1100
Run:	L828_021.D
Initials:	MP

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 11:53 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Perchlorate_IS	10.81	89	10855642m	5.00000	ppb	0.22

System Monitoring Compounds

Target Compounds						Qvalue
2) Perchlorate_83	10.80	83	1187316	0.45157	ppb	100
3) Perchlorate_85	10.89	85	448135m	0.49978	ppb	0

Algorithm check

$$\frac{1187316 \times (5.0)}{10855642\ 0.012748\ (100)} \times 1.05263 = 0.45156$$

M

(#) = qualifier out of range (m) = manual integration
L828_021.D PER828A.M Fri Aug 29 11:54:03 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 11:53 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.82min 5.0000ppb

response 11077347

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 11:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

DW 8.29.08 8-29-08

(1) Perchlorate_IS (I)

10.81min 5.0000ppb m

response 10855642

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 11:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.61min 0.0000ppb

response 0

Ion	Exp%	Act%
85.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_021.D Vial: 21
Acq On : 29 Aug 08 00:48 Operator: MP
Sample : 080812WICSA 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 11:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

DH 8-29-08
BR 8-29-08

(3) Perchlorate_85 (TM)

10.89min 0.4998ppb m

response 448135

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Matrix Spike Recoveries

Perchlorate

APPL ID: **080812W-82344 MS - 125526**
Batch ID: $6850-080812A
Sample ID: AX82344
Client ID: HBGR-GW-01

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
Perchlorate	1.0	ND	0.762	0.784	76.2	78.4	75-125	2.8	20

Comments:

Primary	SPK	DUP
Quant Method :	PER828A.M	PER828A.M
Extraction Date :	08/12/08	08/12/08
Analysis Date :	08/29/08	08/29/08
Instrument :	AGIL_1100	AGIL_1100
Run :	L828_028.D	L828_030.D
Initials :	MP	

Printed: 08/29/08 5:15:50 PM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:52 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.88	89	11766940m	5.00000 ppb	0.29

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.81	83	2170898m	0.76172 ppb	0
3) Perchlorate_85	10.88	85	803372m	0.82657 ppb	0

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:52 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.76172 ppb m
RT: 10.81 min Scan# 313
Delta R.T. 0.27 min
Lab File: L828_028.D
Acq: 29 Aug 08 3:17

Tgt Ion: 83 Resp: 2170898

#3
Perchlorate_85
Concen: 0.82657 ppb m
RT: 10.88 min Scan# 319
Delta R.T. 0.28 min
Lab File: L828_028.D
Acq: 29 Aug 08 3:17

Tgt Ion: 85 Resp: 803372

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:51 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.88min 5.0000ppb m

response 11766940

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:51 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.54min 0.0000ppb

response 0

Ion	Exp%	Act%
83.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:52 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.81min 0.7617ppb m

response 2170898

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:52 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.61min 0.0000ppb

response 0

Ion	Exp%	Act%
85.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_028.D Vial: 28
Acq On : 29 Aug 08 3:17 Operator: MP
Sample : AX82344-MS 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:52 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.88min 0.8266ppb m

response 803372

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:54 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.89	89	11007724m	5.00000 ppb	0.30

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.84	83	2089828m	0.78385 ppb	0
3) Perchlorate_85	10.87	85	740704m	0.81465 ppb	0

(#) = qualifier out of range (m) = manual integration
L828_030.D PER828A.M Fri Aug 29 08:54:19 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05

Quant Time: Aug 29 8:54 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

#2
Perchlorate_83
Concen: 0.78385 ppb m
RT: 10.84 min Scan# 316
Delta R.T. 0.30 min
Lab File: L828_030.D
Acq: 29 Aug 08 4:00

Tgt Ion: 83 Resp: 2089828

#3
Perchlorate_85
Concen: 0.81465 ppb m
RT: 10.87 min Scan# 318
Delta R.T. 0.26 min
Lab File: L828_030.D
Acq: 29 Aug 08 4:00

Tgt Ion: 85 Resp: 740704

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.89min 5.0000ppb m

response 11007724

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.54min 0.0000ppb

response 0

Ion	Exp%	Act%
83.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.84min 0.7838ppb m

response 2089828

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:53 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.61min 0.0000ppb

response 0

Ion	Exp%	Act%
85.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_030.D Vial: 30
Acq On : 29 Aug 08 4:00 Operator: MP
Sample : AX82344-MSD 1.05 DF 08/12/08 Inst : Instrumen
Misc : Multiplr: 1.05
Quant Time: Aug 29 8:54 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.87min 0.8147ppb m

response 740704

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Perchlorate LC/MS Ratio Report

acceptable ratio is between 2.3 and 3.8 (DoD Perchlorate Handbook, 2006)

Data File Path: C:\AGIL1100\HPCHEM\DATA\080828\
Instrument Name: AGILENT 1100 HPLC
Method File: PER828A.M
Operator: MP

Date Acquired: 8/28/2008 19:06 Vial Number: 5
Sample Name: L828_005.D Data File Name: PERCHLORATE 0.40 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.59	740237	2.5782
2)	Perchlorate_85	10.56	287109	

Date Acquired: 8/28/2008 19:27 Vial Number: 6
Sample Name: L828_006.D Data File Name: PERCHLORATE 1.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.59	1935400	2.7563
2)	Perchlorate_85	10.56	702170	

Date Acquired: 8/28/2008 19:49 Vial Number: 7
Sample Name: L828_007.D Data File Name: PERCHLORATE 2.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.59	4322610	2.8336
2)	Perchlorate_85	10.56	1525490	

Date Acquired: 8/28/2008 20:10 Vial Number: 8
Sample Name: L828_008.D Data File Name: PERCHLORATE 5.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.59	12398200	3.2355
2)	Perchlorate_85	10.56	3831920	

Date Acquired: 8/28/2008 20:31 Vial Number: 9
Sample Name: L828_009.D Data File Name: PERCHLORATE 10.0 ppb 07/17/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.59	25903200	3.2167
2)	Perchlorate_85	10.56	8052830	

Date Acquired: 8/28/2008 22:18 Vial Number: 14
Sample Name: L828_014.D Data File Name: PER_SS_2 2.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	5081160	2.9109
2)	Perchlorate_85	10.61	1745590	

Date Acquired: 8/28/2008 23:01 Vial Number: 16
Sample Name: L828_016.D Data File Name: PER_CCV_1 0.40 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	856324	2.4522
2)	Perchlorate_85	10.61	349201	

Date Acquired: 8/28/2008 23:22 Vial Number: 17
Sample Name: L828_017.D Data File Name: PER_CCV_1 2.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	4623670	3.1506
2)	Perchlorate_85	10.61	1467530	

Date Acquired: 8/29/2008 0:26 Vial Number: 20
Sample Name: L828_020.D Data File Name: 080812WLCSA-1 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	2093980	2.9619
2)	Perchlorate_85	10.61	706968	

Date Acquired: 8/29/2008 0:48 Vial Number: 21
Sample Name: L828_021.D Data File Name: 080812WICSA 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	1187320	2.6495
2)	Perchlorate_85	10.61	448135	

Date Acquired: 8/29/2008 1:31 Vial Number: 23
Sample Name: L828_023.D Data File Name: 080812WBLKA 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	18735	0.7130
2)	Perchlorate_85	10.61	26274	

Date Acquired: 8/29/2008 1:52 Vial Number: 24
Sample Name: L828_024.D Data File Name: AX82333 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	24621	1.0416
2)	Perchlorate_85	10.61	23638	

Date Acquired: 8/29/2008 2:56 Vial Number: 27
Sample Name: L828_027.D Data File Name: AX82334 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	229712	1.7856
2)	Perchlorate_85	10.61	128647	

Date Acquired: 8/29/2008 3:17 Vial Number: 28
Sample Name: L828_028.D Data File Name: AX82344-MS 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	2170900	2.7022
2)	Perchlorate_85	10.61	803372	

Date Acquired: 8/29/2008 4:00 Vial Number: 30
Sample Name: L828_030.D Data File Name: AX82344-MSD 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	2089830	2.8214
2)	Perchlorate_85	10.61	740704	

Date Acquired: 8/29/2008 5:04 Vial Number: 33
Sample Name: L828_033.D Data File Name: PER_CCV_2 0.40 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	764360	2.3812
2)	Perchlorate_85	10.61	320994	

Date Acquired: 8/29/2008 5:25 Vial Number: 34
Sample Name: L828_034.D Data File Name: PER_CCV_2 2.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	4626730	3.0744
2)	Perchlorate_85	10.61	1504940	

Date Acquired: 8/29/2008 6:08 Vial Number: 36
Sample Name: L828_036.D Data File Name: AX82344 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	0	0.0000
2)	Perchlorate_85	10.61	29263	

Date Acquired: 8/29/2008 6:51 Vial Number: 38
Sample Name: L828_038.D Data File Name: AX82345 1.05 DF 08/12/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	21617	1.5222
2)	Perchlorate_85	10.61	14201	

Date Acquired: 8/29/2008 7:55 Vial Number: 41
Sample Name: L828_041.D Data File Name: PER_CCV_2 0.40 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	936246	2.8182
2)	Perchlorate_85	10.61	332214	

Date Acquired: 8/29/2008 8:16 Vial Number: 42
Sample Name: L828_042.D Data File Name: PER_CCV_2 2.0 ppb 08/25/08

#	Name	Ret Time	Target Response	Ratio
1)	Perchlorate_83	10.54	4556730	3.0839
2)	Perchlorate_85	10.61	1477600	

Date Acquired: Vial Number:
Sample Name: Data File Name:

#	Name	Ret Time	Target Response	Ratio
1)				
2)				

8A

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.

Contract: _____

Lab Code: _____

SDG No.: _____

Lab File ID (Standard): L828_005 - 009.D

Date Analyzed: 08/28/08

Instrument ID: AGIL_1100

Time Analyzed: 19:06 - 20:31

		Perchlorate_IS							
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD**	8642574		10.59									
	UPPER LIMIT	17285148		11.09									
	LOWER LIMIT	4321287		10.09									
	SAMPLE												
	NO.												
01	PERCHLORATE 0.40 ppb 08/25/08	8665970		10.59									
02	PERCHLORATE 1.0 ppb 08/25/08	8429560		10.59									
03	PERCHLORATE 2.0 ppb 08/25/08	8598190		10.59									
04	PERCHLORATE 5.0 ppb 08/25/08	9113070		10.60									
05	PERCHLORATE 10.0 ppb 07/17/08	8406080		10.59									
06	PER_SS_2 2.0 ppb 08/25/08	9342010		10.72									
07	PER_CCV_1 0.40 ppb 08/25/08	10507700		10.77									
08	PER_CCV_1 2.0 ppb 08/25/08	10009000		10.76									
10	080812WLCSA-1 1.05 DF 08/12/08	10202800		10.72									
11	080812WICSA 1.05 DF 08/12/08	10855600		10.81									
12	080812WBLKA 1.05 DF 08/12/08	11757500		10.87									
13	AX82333 1.05 DF 08/12/08	11869000		10.87									
14	AX82334 1.05 DF 08/12/08	11710300		10.89									
15	AX82344-MS 1.05 DF 08/12/08	11766900		10.88									
16	AX82344-MSD 1.05 DF 08/12/08	11007700		10.89									
17	PER_CCV_2 0.40 ppb 08/25/08	9881740		10.73									
18	PER_CCV_2 2.0 ppb 08/25/08	10382500		10.77									
19	AX82344 1.05 DF 08/12/08	12803100		10.98									
20	AX82345 1.05 DF 08/12/08	11998600		11.04									
21	PER_CCV_2 0.40 ppb 08/25/08	11196300		10.95									
22	PER_CCV_2 2.0 ppb 08/25/08	10318900		10.84									

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.
** 12 Hour Standard generated as the average of IS Resonses of the Calibration Curve

EPA METHOD 6850
Perchlorate
LC/MS

Calibration Data

APPL, INC.

EPA 6850
Perchlorate

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 56740
Case No: Initial Cal. Date: 08/28/08_A
Matrix: WATER Instrument: AGIL_1100 Initials: MP

L828_005.D L828_006.D L828_007.D L828_008.D L828_009.D

		Compound	4	5	6	7	8	Avg	%RSD				
1	I	Perchlorate_IS	ISTD										
2	TM	Perchlorate_83	0.0107	0.0115	0.0126	0.0136	0.0154	0.0127	14.5	TM			
3	TM	Perchlorate_85	0.00414	0.00417	0.00444	0.00421	0.00479	0.00435	6.3	TM			
4													
5													
6													
7													
8													
9													
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33													
34													
35													

DATA FILE ID: 080828.inj

1* PER IS 0.005 ug/ml 08/25/08
2* PERCHLORATE 0.00005 ug/ml 08/25/08
3* PERCHLORATE 0.0001 ug/ml 08/25/08
4* PERCHLORATE 0.0002 ug/ml 08/25/08
5* PERCHLORATE 0.0004 ug/ml 08/25/08
6* PERCHLORATE 0.001 ug/ml 08/25/08
7* PERCHLORATE 0.002 ug/ml 08/25/08
8* PERCHLORATE 0.005 ug/ml 08/25/08
9* PERCHLORATE 0.010 ug/ml 07/17/08
10* PER_IS 0.005 ug/ml 08/25/08
11* PER_SS_1 0.0004 ug/ml 08/25/08
12* PER_SS_2 0.0004 ug/ml 08/25/08
13* PER_SS_1 0.002 ug/ml 08/25/08
14* PER_SS_2 0.002 ug/ml 08/25/08
15* PER_IS 0.005 ug/ml 08/25/08
16* PER_CCV_1 0.0004 ug/ml 08/25/08
17* PER_CCV_1 0.002 ug/ml 08/25/08
18* PER_IS 0.005 ug/ml 08/25/08
19* 080812WLCSA-1 1050 DF 08/12/08
20* 080812WLCSA_DUP-1 1050 DF 08/12/08
21* 080812WICSA 1050 DF 08/12/08
22* PER IS 0.005 ug/ml 08/25/08
23* 080812WBLKA 1050 DF 08/12/08
24* AX82333 1050 DF 08/12/08
25* AX82333 1050 DF 08/12/08
26* AX82334 1050 DF 08/12/08
27* AX82334 1050 DF 08/12/08
28* AX82344-MS 1050 DF 08/12/08
29* AX82344-MS 1050 DF 08/12/08
30* AX82344-MSD 1050 DF 08/12/08
31* AX82344-MSD 1050 DF 08/12/08
32* PER IS 0.005 ug/ml 08/25/08
33* PER_CCV_2 0.0004 ug/ml 08/25/08
34* PER_CCV_2 0.002 ug/ml 08/25/08
35* PER_IS 0.005 ug/ml 08/25/08
36* AX82344 1050 DF 08/12/08
37* AX82344 1050 DF 08/12/08
38* AX82345 1050 DF 08/12/08
39* AX82345 1050 DF 08/12/08
40* PER IS 0.005 ug/ml 08/25/08
41* PER_CCV_2 0.0004 ug/ml 08/25/08
42* PER_CCV_2 0.002 ug/ml 08/25/08

DATA FILE ID: 080828.inj

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:45 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.59	89	8665967m	5.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.62	83	740237m	0.36873 ppb	100
3) Perchlorate_85	10.54	85	287109m	0.38724 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:45 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.60min 5.0000ppb

response 10177932

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:44 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

① 8-25-08 8/29/08

(1) Perchlorate_IS (I)

10.59min 5.0000ppb m

response 8665967

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:44 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.63min 0.2102ppb

response 421937

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:44 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.62min 0.3687ppb m

response 740237

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:44 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.55min 0.3850ppb

response 285418

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_005.D Vial: 5
Acq On : 28 Aug 08 19:06 Operator: MP
Sample : PERCHLORATE 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:45 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.54min 0.3872ppb m

response 287109

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:46 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.59	89	8429563m	5.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.54	83	1935399	0.99111 ppb	100
3) Perchlorate_85	10.61	85	702170m	0.97362 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:46 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 5.0000ppb

response 9032124

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:45 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 5.0000ppb m

response 8429563

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:45 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.60min 1.0265ppb

response 740301

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_006.D Vial: 6
Acq On : 28 Aug 08 19:27 Operator: MP
Sample : PERCHLORATE 1.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:46 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.61min 0.9736ppb m

response 702170

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:47 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.59	89	8598187m	5.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.59	83	4322615m	2.17018 ppb	100
3) Perchlorate_85	10.56	85	1525495m	2.07375 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:47 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 5.0000ppb

response 9379737

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 5.0000ppb m

response 8598187

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.60min 2.2697ppb

response 4520924

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.59min 2.1702ppb m

response 4322615

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.56min 2.2672ppb

response 1667808

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_007.D Vial: 7
Acq On : 28 Aug 08 19:49 Operator: MP
Sample : PERCHLORATE 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:47 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.56min 2.0738ppb m

response 1525495

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_008.D Vial: 8
Acq On : 28 Aug 08 20:10 Operator: MP
Sample : PERCHLORATE 5.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:48 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.60	89	9113072	5.00000 ppb	0.02

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.59	83	12398183	5.87285 ppb	100
3) Perchlorate_85	10.58	85	3831918m	4.91478 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_008.D Vial: 8
Acq On : 28 Aug 08 20:10 Operator: MP
Sample : PERCHLORATE 5.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:48 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_008.D Vial: 8
Acq On : 28 Aug 08 20:10 Operator: MP
Sample : PERCHLORATE 5.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.59min 5.1314ppb

response 4000777

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_008.D Vial: 8
Acq On : 28 Aug 08 20:10 Operator: MP
Sample : PERCHLORATE 5.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:48 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.58min 4.9148ppb m

response 3831918

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:49 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.59	89	8406085m	5.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.60	83	25903193	13.30194 ppb	100
3) Perchlorate_85	10.62	85	8052827m	11.19715 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 7:49 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:43 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.60min 5.0000ppb

response 8662158

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:49 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 5.0000ppb m

response 8406085

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:49 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.62min 11.4129ppb

response 8207959

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_009.D Vial: 9
Acq On : 28 Aug 08 20:31 Operator: MP
Sample : PERCHLORATE 10.0 ppb 07/17/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 7:49 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 07:43:25 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.62min 11.1971ppb m

response 8052827

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/28/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_014.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Perchlorate_IS	ISTD			I	
2	TM	Perchlorate_83	0.0127	0.0136	6.7	TM	
3	TM	Perchlorate_85	0.0043	0.0047	7.5	TM	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			7.1		

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:18 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.72	89	9342008m	5.00000 ppb	0.13

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.69	83	5081156	2.13336 ppb	100
3) Perchlorate_85	10.65	85	1745590m	2.14908 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:18 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.72min 5.0000ppb

response 10318469

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.72min 5.0000ppb m

response 9342008

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.66min 2.2345ppb

response 1814995

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_014.D Vial: 14
Acq On : 28 Aug 08 22:18 Operator: MP
Sample : PER_SS_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:18 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.65min 2.1491ppb m

response 1745590

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7
MDL Verification

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/28/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_016.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Perchlorate_IS	ISTD			I	
2	TM	Perchlorate_83	0.0127	0.0102	20	TM	
3	TM	Perchlorate_85	0.0043	0.0042	4.4	TM	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			12.2		

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:21 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.77	89	10507697	5.00000 ppb	0.18

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.76	83	856324m	0.31965 ppb	100
3) Perchlorate_85	10.69	85	349201m	0.38222 ppb	100

(#) = qualifier out of range (m) = manual integration
L828_016.D PER828A.M Fri Aug 29 08:21:38 2008

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:21 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.77min 0.3003ppb

response 804550

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:21 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.76min 0.3196ppb m

response 856324

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:21 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.71min 0.3703ppb

response 338297

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_016.D Vial: 16
Acq On : 28 Aug 08 23:01 Operator: MP
Sample : PER_CCV_1 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:21 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.69min 0.3822ppb m

response 349201

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/28/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_017.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	Perchlorate_IS	ISTD			I		
2	TM	Perchlorate_83	0.0127	0.0115	9.4	TM		
3	TM	Perchlorate_85	0.0043	0.0037	16	TM		#
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
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32								
33								
34								
35								
36								
37								
38								
39								
40								
		Average			12.7			

Qualitative ion only.

Quantitation Report (Not Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_017.D Vial: 17
Acq On : 28 Aug 08 23:22 Operator: MP
Sample : PER_CCV_1 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:27 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.76	89	10008994	5.00000 ppb	0.16

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.70	83	4623674	1.81192 ppb	100
3) Perchlorate_85	10.81	85	1467532	1.68635 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_017.D Vial: 17
Acq On : 28 Aug 08 23:22 Operator: MP
Sample : PER_CCV_1 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:27 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

EPA 6850
Perchlorate

Form 7
MDL Verification

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/29/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_033.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Perchlorate_IS	ISTD			I	
2	TM	Perchlorate_83	0.0127	0.0097	24	TM	
3	TM	Perchlorate_85	0.0043	0.0041	6.6	TM	
4							
5							
6							
7							
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10							
11							
12							
13							
14							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			15.3		

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_033.D Vial: 33
Acq On : 29 Aug 08 5:04 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:55 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.73	89	9881740	5.00000 ppb	0.13

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.63	83	764360	0.30339 ppb	100
3) Perchlorate_85	10.72	85	320994m	0.37361 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_033.D Vial: 33
Acq On : 29 Aug 08 5:04 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 8:55 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_033.D Vial: 33
Acq On : 29 Aug 08 5:04 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.73min 0.2910ppb

response 249999

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_033.D Vial: 33
Acq On : 29 Aug 08 5:04 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:55 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.72min 0.3736ppb m

response 320994

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/29/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_034.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	Perchlorate_IS	ISTD			I		
2	TM	Perchlorate_83	0.0127	0.0111	13	TM		
3	TM	Perchlorate_85	0.0043	0.0036	17	TM		#
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
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22								
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24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
		Average			15.0			

Qualitative Ion only. 22

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 9:02 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.77	89	10382451	5.00000 ppb	0.18

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.76	83	4626732m	1.74790 ppb	100
3) Perchlorate_85	10.70	85	1504944m	1.66713 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 9:02 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 8:12 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.76min 1.8154ppb

response 4805507

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 9:02 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.76min 1.7479ppb m

response 4626732

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 9:02 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.81min 0.8828ppb

response 796954

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_034.D Vial: 34
Acq On : 29 Aug 08 5:25 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 9:02 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.70min 1.6671ppb m

response 1504944

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7
MDL Verification

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/29/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_041.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Perchlorate_IS	ISTD			I	
2	TM	Perchlorate_83	0.0127	0.0105	18	TM	
3	TM	Perchlorate_85	0.0043	0.0037	15	TM	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			16.5		

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 11:17 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Perchlorate_IS	10.95	89	11196330m	5.00000 ppb	0.36

System Monitoring Compounds

Target Compounds					Qvalue
2) Perchlorate_83	10.93	83	936246m	0.32799 ppb	0
3) Perchlorate_85	10.88	85	332214m	0.34127 ppb	0

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 11:17 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:16 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.59min 0.0000ppb

response 0

Ion	Exp%	Act%
89.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.95min 5.0000ppb m

response 11196330

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.54min 0.0000ppb

response 0

Ion	Exp%	Act%
83.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.93min 0.3280ppb m

response 936246

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.61min 0.0000ppb

response 0

Ion	Exp%	Act%
85.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_041.D Vial: 41
Acq On : 29 Aug 08 7:55 Operator: MP
Sample : PER_CCV_2 0.40 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:17 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.88min 0.3413ppb m

response 332214

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA 6850
Perchlorate

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: WATER

SDG No: 56740
Date Analyzed: 8/29/2008
Instrument: AGIL_1100
Initial Cal. Date: 08/28/08_A
Data File: L828_042.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	Perchlorate_IS	ISTD			I		
2	TM	Perchlorate_83	0.0127	0.0110	13	TM		
3	TM	Perchlorate_85	0.0043	0.0036	18	TM		#
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
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28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
		Average			15.5			

Qualitative Ion only. R

Quantitation Report (QT Reviewed)

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 11:22 2008 Quant Results File: PER828A.RES

Quant Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration
DataAcq Meth : PER_N6.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Perchlorate_IS	10.84	89	10318932m	5.00000	ppb	0.25

System Monitoring Compounds

Target Compounds						Qvalue
2) Perchlorate_83	10.90	83	4556730	1.73205	ppb	0
3) Perchlorate_85	10.83	85	1477599m	1.64692	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00

Quant Time: Aug 29 11:22 2008 Quant Results File: PER828A.RES

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Initial Calibration

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:20 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

(1) Perchlorate_IS (I)

10.85min 5.0000ppb

response 10822102

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:21 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Multiple Level Calibration

ED 8.29.08
8/29/08

(1) Perchlorate_IS (I)

10.84min 5.0000ppb m

response 10318932

Ion	Exp%	Act%
89.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:20 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.54min 0.0000ppb

response 0

Ion	Exp%	Act%
83.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:22 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(2) Perchlorate_83 (TM)

10.90min 1.7321ppb

response 4556730

Ion	Exp%	Act%
83.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:21 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.84min 1.7860ppb

response 1602384

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\AGIL1100\HPCHEM\DATA\080828\L828_042.D Vial: 42
Acq On : 29 Aug 08 8:16 Operator: MP
Sample : PER_CCV_2 2.0 ppb 08/25/08 Inst : Instrumen
Misc : Multiplr: 1.00
Quant Time: Aug 29 11:22 2008 Quant Results File: temp.res

Method : C:\AGIL1100\HPCHEM\DATA\080828\PER828A.M (Chemstation Integrator)
Title : EPA Method 6850 - Perchlorate
Last Update : Fri Aug 29 08:08:04 2008
Response via : Single Level Calibration

(3) Perchlorate_85 (TM)

10.83min 1.6469ppb m

response 1477599

Ion	Exp%	Act%
85.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

EPA METHOD 6850
Perchlorate
LC/MS

Raw Data

APPL, INC.

LC/MS STANDARD PREP LOG# 90 PAGE# 50

	STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
	8330_06/27_MixB_CAL_							
1	8330_06/27_C MixB_CALINT2	1.0ppm	7/13/08	20.0µL	2.0mL	0.01ppm	25 : 25 : 50	
2				50.0µL		0.025ppm	ACN : MeOH : DI	7/
3				100µL		0.1ppm	CW275 CW340 H_2O	
4	8330_06/27_MixB_STK	100ppm	6/27/08	20.0µL		1.0ppm		
5				50.0µL		2.5ppm		
6				100µL		5.0ppm		
	8330_05/15_SS_B_PETN							
	8330_05/15_SS_B_STK	25ppm	5/15/08	100µL	1.0mL	2.5ppm	25 : 25 : 50	
	PETN_05/15_SS	125ppm				12.5ppm	ACN : MeOH : DI CW275 CW340 H_2O	7/17/0
	8330_05/15_SS_A							
	8330_05/15_SS_A_STK	25ppm	5/15/08	100µL	1.0mL	2.5ppm	25 : 25 : 50 ACN MeOH DI CW275 CW340 H_2O	7/17/
	8330_06/27_MixA_PETN_MRLCHK1							
	8330_06/27_MixA_CALINT2	1.0ppm	7/13/08	25.0µL	1.0mL	0.025ppm	25 : 25 : 50 ACN : MeOH : DI	
	PETN_06/27_CALINT	25ppm	6/27/08	50.0µL		0.125ppm	CW275 CW340 H_2O	7/17/08
	8330_06/27_MixB_MRLCHK2							
	8330_06/27_MixB_CALINT2	1.0ppm	7/13/08	25.0µL	1.0mL	0.025ppm	25 : 25 : 50 ACN : MeOH : DI CW275 CW340 H_2O	7/17/08

DI_H20_/_0.2% HAC 07-17-08:
TO 1.0 LITER OF LABORATORY SOURCE DI_H20 4203 W. Swift Ave Fresno 07-15-08 THAT WAS PREVIOUSLY RUN THRU 0.2 MICRON FILTER 2.0 ML OF MALLINCKRODT GLACIAL ACETIC ACID LOT A46005 WAS ADDED AND MIXED THOROUGHLY

07-17-08

8/15/08

LC/MS STANDARD PREP LOG# 90 PAGE# 51

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

PER_IS 0.005 µg/ml 07-17-08 :
COMBINED 10.0 ML OF LABORATORY SOURCE DI.H20 4203 W. Swift Ave. Fresno, CA 07-15-08 WITH 10.0 ML BURDICK + JACKSON ACETONITRILE LOT CV183. REMOVED 1.0 ML. THEN DELIVERED 1.0 ML OF 025I $^{18}O_4$ 100 µg/L LOT 1009324-19700 (PERCHLORATE $^{18}O_4$) 07-17-08

NOTE : REGARDING EXPIRATION DATES AND STANDARD DOCUMENTATION / PLEASE REFER TO PAGE #99 OF LC/MS STANDARD PREP LOG # 89 THAT ~~EPT~~ 06-20-08 EXPLAINS / DEFENDS THE USE OF 025I PERCHLORATE $^{18}O_4$ 100 µg/L LOT 1009324-19700 REC 03-29-07

PERCHLORATE 100 µg/ml 07-17-08 : EXP 01-17-09
ADDED 0.900 ML LABORATORY SOURCE DI.H20 4203 W. Swift Ave. Fresno CA 07-15-08 TO 0.900 ML BURDICK + JACKSON ACETONITRILE LOT CV183. REMOVED 0.150 ML. ADDED 0.050 ML 025I PERCHLORATE $^{18}O_4$ 100 µg/L LOT 1009324-19700. THEN ADDED 0.100 ML ENVIRO_EXP PERCHLORATE 1000 µg/ml LOT 0734409-214407 EXP 01-09-09

PERCHLORATE 10 µg/ml 07-17-08 : EXP 01-17-09
PERCHLORATE 100 µg/ml 07-17-08 EXP 01-17-09
TOOK 0.100 ML AND ADDED TO 0.900 ML PER-IS @ 0.005 µg/ml 07-17-08

LC/MS STANDARD PREP LOG# 90 PAGE# 52

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

PERCHLORATE 1 µg/ml 07-17-08 : EXP 01-17-09 JL
PERCHLORATE 10 µg/ml 07-17-08 TOOK 07-17-08
0.100 ML AND ADDED TO 0.900 ML
PER-IS @ 0.005 µg/ml 07-17-08

PERCHLORATE 0.010 µg/ml JL 07-17-08 07-17-08 : EXP 01-17-09
TOOK 10.0 ML OF 50-50 LABORATORY
SOURCE DI-H2O 4203 W. Swift Ave
07-15-08 / BURDICK & JACKSON ACETONITRILE
LOT CV183 REMOVED 0.500 ML. ADDED
0.500 ML 025I PERCHLORATE $^{18}O_4$
100 µg/ml LOT 1009324-19700. REMOVED
0.100 ML. THEN DELIVERED 0.100 ML
OF PERCHLORATE 1 µg/ml 07-17-08
EXP 01-17-09.

PERCHLORATE 0.005 µg/ml 07-17-08 : EXP 01-17-09
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK
0.500 ML AND ADDED TO 0.500 ML
PER-IS @ 0.005 µg/ml 07-17-08

PERCHLORATE 0.002 µg/ml 07-17-08 : EXP - 01-17-09
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK
0.200 ML AND ADDED TO 0.800 ML
PER-IS @ 0.005 µg/ml 07-17-08

PERCHLORATE 0.001 µg/ml 07-17-08 : EXP 01-17-09
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK
0.100 ML AND ADDED TO 0.900 ML
PER-IS @ 0.005 µg/ml 07-17-08

8-15-08

LC/MS STANDARD PREP LOG# 90 PAGE# 108

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE/ INITIALS
Cob spike 1 DF							
8321 Mix-29-8	400	5-7-08	0.250	50	2ng/l	MeOH CW945	8-26-08
8321 Surr 2.0 ng/ml							
Fluoride - 1025		2-28-08	0.385	200	2.0	MeOH/CW945	8-26-08
8141 Surr	1000	8-5-08	0.40	1	1	1	1

NOTE: THE FOLLOWING DOCUMENTATION WAS PERFORMED AS DATED: JS 08-26-08 08-25-08 36

PER_CCV_1 0.0004 µg/ml 08-25-08:
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK 0.040 ML AND ADDED TO ~~0.~~ PER_IS 0.005 µg/ml 08-25-08

PER_CCV_1 0.002 µg/ml 08-25-08:
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK 0.200 ML AND ADDED TO 0.800 ML PER_IS 0.005 µg/ml 08-25-08

PER_CCV_2 0.0004 µg/ml 08-25-08:
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK 0.040 ML AND ADDED TO 0.960 ML PER_IS 0.005 µg/ml 08-25-08

PER_CCV_2 0.002 µg/ml 08-25-08:
PERCHLORATE 0.010 µg/ml 07-17-08 TOOK 0.200 ML AND ADDED TO 0.800 ML PER_IS 0.005 µg/ml 08-25-08

LC/MS STANDARD PREP LOG# 90 PAGE# 109

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

NOTE: THE FOLLOWING DOCUMENTATION WAS PERFORMED AS DATED ~~JH~~ 08-26-08

PER_SS 100µg/ml 08-25-08: JH

LABORATORY SOURCE DI_H2O 4203 W. Swift Ave Fresno CA 07-14-08 TOOK 0.500 ML BURDICK + JACKSON ACETONITRILE LOT CW275 TOOK 0.500 ML COMBINED THE ABOVE IN AN INJECTION VIAL - ~~THEN JH~~ THEN REMOVED 0.150 ML ADDED 0.050 ML 025I PERCHLORATE $^{18}O_4$ 100µg/~~ml~~L LOT 1009324-19700 JH 08-25-08 08-25-08

PER_SS 10µg/ml 08-25-08:

PER_SS 100µg/ml 08-25-08 TOOK 0.100 ML AND ADDED TO 0.900 ML PER_IS 0.005µg/ml 08-25-08

PER_SS 1 µg/ml 08-25-08:

PER_SS 10 µg/ml 08-25-08 TOOK 0.100ML AND ADDED TO 0.900 ML PER_IS 0.005µg/ml 08-25-08

PER_SS 0.010 µg/ml 08-25-08

LABORATORY SOURCE DI_H2O 4203 W. Swift Ave Fresno CA 07-14-08 TOOK ~~0.500 ML~~ ~~JH~~ 5.000 ML BURDICK + JACKSON ACETONITRILE LOT CW275 TOOK ~~0.5~~ ~~JH~~ 5.000 ML COMBINED THE ABOVE IN AN 7 SCINTILLATION VIAL - REMOVED 0.500 ML ADDED 0.500 ML 025I PERCHLORATE $^{18}O_4$ 100µg/L LOT 1009324-19700 REMOVED 0.100 ML. FINALLY ADDED 0.100 ML PER_SS 1µg/ml 08-25-08

LC/MS STANDARD PREP LOG# 90 PAGE# 110

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

NOTE: THE FOLLOWING DOCUMENTATION WAS PERFORMED AS DATED: 08-26-08

PER_SS_1 0.0004 µg/ml 08-25-08: 3f
PER_SS 0.010 µg/ml 08-25-08 TOOK 08-25-08
0.040 ML AND ADDED TO 0.960 ML
PER_IS 0.005 µg/ml 08-25-08

PER_SS_1 0.002 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK
0.200 ML AND ADDED TO 0.800 ML
PER_IS 0.005 µg/ml 08-25-08

PER_SS_2 0.0004 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK
0.040 ML AND ADDED TO 0.960
ML PER_IS 0.005 µg/ml 08-25-08:

PER_SS_2 0.002 µg/ml 08-25-08:
PER_SS 0.010 µg/ml 08-25-08 TOOK
0.200 ML AND ADDED TO 0.800 ML
PER_IS 0.005 µg/ml 08-25-08

8330_08/13_MixA_PETN-MRLCHK_1 2 8/26/08

8330_08/13_MixA_PETN_CALINT 10/5.0ppm 8/23/08 25.0µL 1.0mL 0.025ppm/0.125ppm 25:25:50 ACN:MeOH:DI CW426:CW630:H_2O 8/26/08

8330_08/13_MixB_07/30_3,5-DNA-MRLCHK_1 2 8/26/08

8330_08/13_MixB_07/30_3,5-DNA_CALINT 10ppm 8/23/08 25.0µL 1.0mL 0.025ppm 25:25:50 ACN:MeOH:DI CW426:CW630:H_2O 8/26/08

8330_08/13_MixA_PETN-CCV_

6 8330_08/13_MixA_STK 100ppm 8/13/08 25.0µL 1.0mL 2.5ppm 25:25:50 ACN:MeOH:DI CW426:CW630:H_2O 8/26/08
PETN_08/13_STK
7 8330_08/13_MixA_STK 25.0µL 2.5ppm
PETN_08/13_STK 125µL 12.5ppm

_HPL6850

Organic Extraction Worksheet

Method	EPA 6850 HPLC Perchlorate Extraction	Extraction Set	080812A	Extraction Method	HPL6850	Units	mL

Spiked ID 1	Perchlorate Spike Mix 100ppb 01/31/08		Surrogate ID 1		
Spiked ID 2	Mix Anions 25,000ppm 1/30/08		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. End Time:		
Spiked ID 8			**GC Requires Extract By:**	**08/14/08 0:00**	

pH1			W Bath Temp	°C
pH2				
pH3				

Spiked By: KY **Date** 8/12/2008 **Witnessed By:** SD **Date** 8/12/2008

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	080812A Blk				NA	NA	5ML	5ML	NA	08/12/08 14:35	
2	080812A LCS-1		0.050	1	NA	NA	5ML	5ML	NA	08/12/08 14:35	
3	080812A LCSD-1		0.050	1	NA	NA	5ML	5ML	NA	08/12/08 14:35	
4	080812A ICS		0.030/0.125	1/2	NA	NA	5ML	5ML	NA	08/12/08 14:35	
5	AX82333	AX82333W01			NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL
6	AX82334	AX82334W01			NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL
7	AX82344 MS-1	AX82344W02	0.050	1	NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL
8	AX82344 MSD-1	AX82344W02	0.050	1	NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL
9	AX82344	AX82344W01			NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL
10	AX82345	AX82345W01			NA	NA	5ML	5ML	NA	08/12/08 14:35	56740 -- PL 125mL

KY 08/18/08

Solvent and Lot#
DI Water

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	BA
Date	8/12/08
Time	15:00
Refrigerator	----------

	Technician's Initials
Scanned By	KY
Sample Preparation	KY
Extraction	KY
Concentration	----------

Modified	8/12/2008 1:01:59 PM

Reviewed By: KY **Date** 8/18/08

8/12/2008 3:10:44 PM Ext_ID 18482

Injection Log

Directory: G:\HPCHEM\DATA\080828\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	L828_005.D	1	PERCHLORATE 0.40 ppb 08/25/08		28 Aug 08 19:06
2	6	L828_006.D	1	PERCHLORATE 1.0 ppb 08/25/08		28 Aug 08 19:27
3	7	L828_007.D	1	PERCHLORATE 2.0 ppb 08/25/08		28 Aug 08 19:49
4	8	L828_008.D	1	PERCHLORATE 5.0 ppb 08/25/08		28 Aug 08 20:10
5	9	L828_009.D	1	PERCHLORATE 10.0 ppb 07/17/08		28 Aug 08 20:31
6	14	L828_014.D	1	PER_SS_2 2.0 ppb 08/25/08		28 Aug 08 22:18
7	16	L828_016.D	1	PER_CCV_1 0.40 ppb 08/25/08		28 Aug 08 23:01
8	17	L828_017.D	1	PER_CCV_1 2.0 ppb 08/25/08		28 Aug 08 23:22
9	20	L828_020.D	1.05263	080812WLCSA-1 1.05 DF 08/12/08		29 Aug 08 00:26
10	23	L828_023.D	1.05263	080812WBLKA 1.05 DF 08/12/08		29 Aug 08 1:31
11	24	L828_024.D	1.05263	AX82333 1.05 DF 08/12/08		29 Aug 08 1:52
12	27	L828_027.D	1.05263	AX82334 1.05 DF 08/12/08		29 Aug 08 2:56
13	28	L828_028.D	1.05263	AX82344-MS 1.05 DF 08/12/08		29 Aug 08 3:17
14	30	L828_030.D	1.05263	AX82344-MSD 1.05 DF 08/12/08		29 Aug 08 4:00
15	33	L828_033.D	1	PER_CCV_2 0.40 ppb 08/25/08		29 Aug 08 5:04
16	34	L828_034.D	1	PER_CCV_2 2.0 ppb 08/25/08		29 Aug 08 5:25
17	36	L828_036.D	1.05263	AX82344 1.05 DF 08/12/08		29 Aug 08 6:08
18	37	L828_037.D	1.05263	AX82344 1.05 DF 08/12/08		29 Aug 08 6:30
19	41	L828_041.D	1	PER_CCV_2 0.40 ppb 08/25/08		29 Aug 08 7:55
20	42	L828_042.D	1	PER_CCV_2 2.0 ppb 08/25/08		29 Aug 08 8:16