SDMS DOCID# 1121206

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

October 12, 2004

CH2M Hill
Attention: Dan Jablonski
1325 J Street
Sacramento CA 95814-2922

Dear Dan,

This package contains samples in our Service ID 04-4516 and your project is Omega Chemical. Enclosed please find:

(1) Original Analytical Report.
(2) Original Chain of Custody.
(3) One diskettes containing EDD deliverable.
(4) Original and one copy of Level D Data Package Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
CH2M Hill.
Attention: Dan Jablonski
1325 J Street
Sacramento CA 95814-2922
Tel: (916)557-7646 Fax: (916)557-5307

Service ID #: 801-044516
Collected by: Dan J.
Collected on: 09/15/04

Received: 09/15/04
Extracted: N/A
Tested: 09/15/04
Reported: 09/16/04

Sample Description: Water from Whittier, CA.
Project Description: Omega Chemical. OU2.

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result OC2-MW8A-W-0-71 04-04516-1	OC2-MW8B-W-5-69 04-04516-2
Dilution Factor				1	1
CHROMIUM (VI)	218.6	μg/L	1	152	10.2

Component Analyzed	Method	Unit	PQL	Analysis Result OC2-MW8C-W-0-70 04-04516-3	OC2-MW8D-W-0-72 04-04516-4	OC2-MW9B-W-0-67 04-04516-5
Dilution Factor				1	1	1
CHROMIUM (VI)	218.6	μg/L	1	1.8	2.0	6.0

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level D Data Package Deliverables

General Information

Project: Omega Chemical

APCL Service ID: 04-4516

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Case Narrative

Project: Omega Chemical/Whittier, CA.

For U.S. Army Corps of Engineers

APCL Service No: 04-4516

1. Sample Identification

The sample identifications are listed in the following table:

U.S. Army Corps of Engineers Sample ID	APCL Sample ID
OC2-MW9B-W-0-67	04-04516-5
OC2-MW8B-W-5-69	04-04516-2
OC2-MW8C-W-0-70	04-04516-3
OC2-MW8A-W-0-71	04-04516-1
OC2-MW8D-W-0-72	04-04516-4

2. Analytical Methodology

Samples are analyzed by EPA methods
218.6 (Chromium (VI)),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Applied P & Ch Laboratory

APCL

13760 Magnolia Ave. Chino CA 91710
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Chain of Custody

Please Print in pen Page 1 of 1

Client: CH2M HILL Contact: Dan Jablonski Tel #: 949 307 4364 Fax #:

Address: 3 Hutton Centre Dr. Ste 200 City: Santa Ana State: CA Zip code: 92707

Bill to: ACOE

Project Name/Code Omega Chemical OU-2 Job # P.O. #

Project Address Whittier, CA APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: Dan Jablonski

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr+6											Remarks
	OC2-MW9B-W-0-67	9/15/04	0845	GW	None	1	X											
	OC2-MW8B-W-5-69	↓	0945	↓	↓	2	X											LAB QC
	OC2-MW8C-W-0-70	↓	1040	↓	↓	1	X											
	OC2-MW8A-W-0-71	↓	1130	↓	↓	1	X											
	OC2-MW8D-W-0-72	↓	1230	↓	↓	1	X											

4516

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☒ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐ Cold (_____ °C).

Relinquished by Dan Jablonski Date/Time 9/15/04 / 1340 Received by Maria C. Reynoso Date/Time 9/15/04 / 1340

Relinquished by Maria C. Reynoso Date/Time 9/15/04 / 1430 Received by [illegible] Date/Time 9/15/04 / 1430

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Applied P & CH Laboratories
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Sample Receiving Checklist

APCL ServiceID: 4516 **Client Name/Project:** Omega Chem / USACE

1. Sample Arrival

Date/Time Received 9/15/04 1430 Date/Time Opened 9/15/04 1430 By (name): Jason

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☒ APCL Empl: MR

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☒ Client has Copy? ☒ Signed, dated? By: _____

☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received _____

☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☒ #Samples OK? _____

☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.4 _____ _____ _____ _____ _____

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☒ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr

☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP

☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☒ plastic ☐ glass ☐ Tube: brass/SS ☐ Tedlar Bag

☒ Quantity OK? ☐ Leaking? ☐ Anomaly?

☒ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☒ Unique ID? ☒ Date/Time ☐ Preserved?

7. Turn Around Time

☒ RUSH TAT: _____ ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☒ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____

☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: _____ Printed: 15 Sep 2004 7:12 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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Sample Login: Check List

04-04516 (1451_ 337) (5577646_ 337)

09/15/04

Part 1: General Information

☐ Company Information	Name:	*U.S. Army Corps of Engineers*
	Address:	*1325 J Street ,Sacramento ,CA 95814-2922*
☐ Project Information	Project Description:	*Omega Chemical*
		OU-2
	Project #:	
☐ Billing Information	P.O. #:	
	Bill Address:	*1325 J Street ,Sacramento ,CA 95814-2922*
	Lab Project ID:	
	Client Database #:	*1*
☐ Receiving Information	Who Received Sample?	*Jason Nario*
	Receiving Date/Time:	*09/15/04 1430*
	COC No.	
☐ Shipping Information	Shipping Company	*APCL pick up*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*3.4 °C*
☐ Container Information	Container Provider:	*Client*
☐ Sampling Information	Sampling Person:	*DJ*
	Sampling Company:	*Client*
☐ Turn-Around-Time Option:		*Rush 5 working day(s)*
☐ QC Option:		*Army Corps. E.*
☐ Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days
1	OC2-MW9B-W-0-67	CR6	04-04516-5	W	P		125	1	G	091504	N	0	7
2	OC2-MW8B-W-5-69	CR6	04-04516-2	W	P		125	2	G	091504	N	0	7
3	OC2-MW8C-W-0-70	CR6	04-04516-3	W	P		125	1	G	091504	N	0	7
4	OC2-MW8A-W-0-71	CR6	04-04516-1	W	P		125	1	G	091504	N	0	7
5	OC2-MW8D-W-0-72	CR6	04-04516-4	W	P		125	1	G	091504	N	0	7

Part 3: Analysis Information

Test Items: ☐ *218.6/7199* Chromium (VI)

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	CHROMIUM
1	OC2-MW9B-W-0-67	CR6	04-04516-5	W	X
2	OC2-MW8B-W-5-69	CR6	04-04516-2	W	X
3	OC2-MW8C-W-0-70	CR6	04-04516-3	W	X
4	OC2-MW8A-W-0-71	CR6	04-04516-1	W	X
5	OC2-MW8D-W-0-72	CR6	04-04516-4	W	X

☐ Client"s Requirement: **MS/MSD:**

Login By JASON M. NARIO

Check By

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method 218.6

Client Name:	U.S. Army Corps of Engineers	Project No:		Anal. Method	218.6
Project ID:	Omega Chemical	Service ID:	044516	Collected by:	DJ

Component Name: Chromium (VI)
CAS No: 1333-82-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-4516-1	OC2-MW8A-W-0-71	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	152	
04-4516-2	OC2-MW8B-W-5-69	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	10.2	
04-4516-3	OC2-MW8C-W-0-70	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	1.8	
04-4516-4	OC2-MW8D-W-0-72	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	2.0	
04-4516-5	OC2-MW9B-W-0-67	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	6.0	
04W3935MB01	LABQC	Water	09/15/04	09/15/04	09/15/04	04W3935	μg/L	1	<0.097	U

Not Detected is shown as MDL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

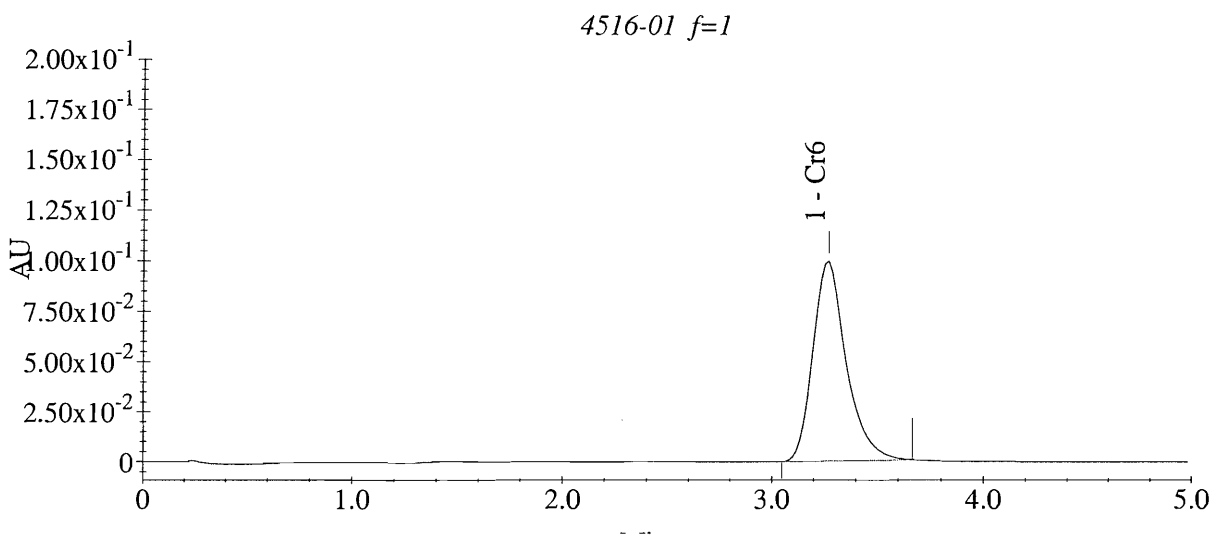
APCL Cr 6 Sample Analysis Report

Sample Name : 4516-01 f=1
Data File Name : C:\DATA\04W3935L\4516-01_005.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:32:38 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.27	151.98	1088175	99026



APCL Cr 6 Sample Analysis Report

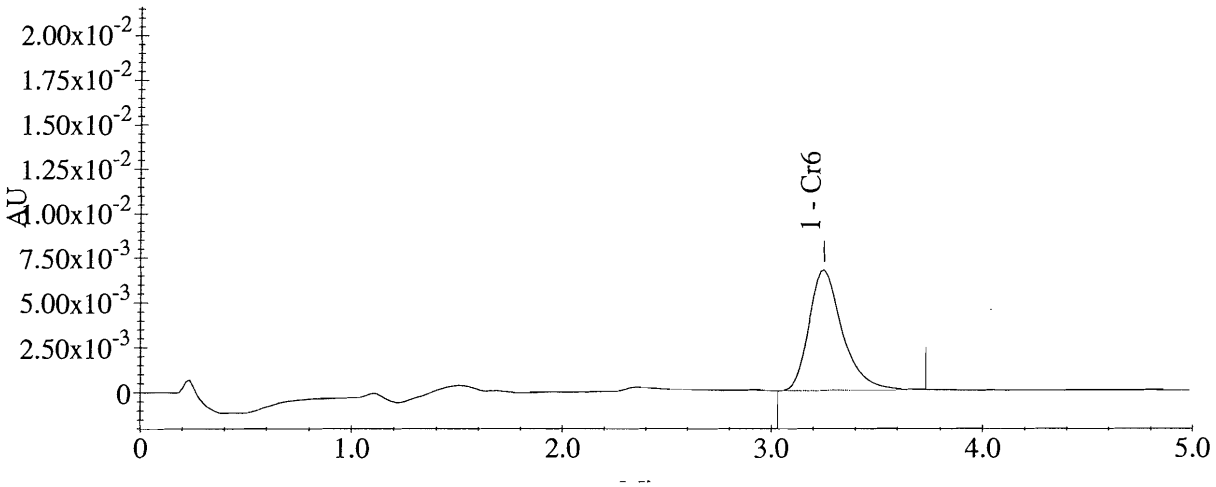
Sample Name : 4516-02 f=1
Data File Name : C:\DATA\04W3935L\4516-02_006.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:39:51 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.25	10.24	73351	6688

4516-02 f=1



APCL Cr 6 Sample Analysis Report

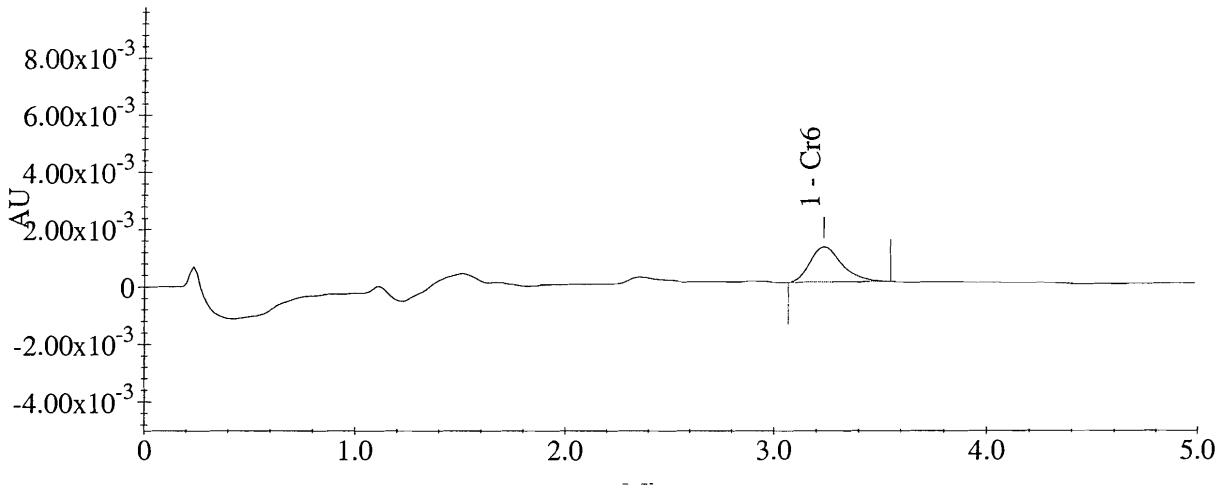
Sample Name : 4516-03 f=1
Data File Name : C:\DATA\04W3935L\4516-03_007.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:47:05 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.23	1.80	12919	1242

4516-03 f=1



APCL Cr 6 Sample Analysis Report

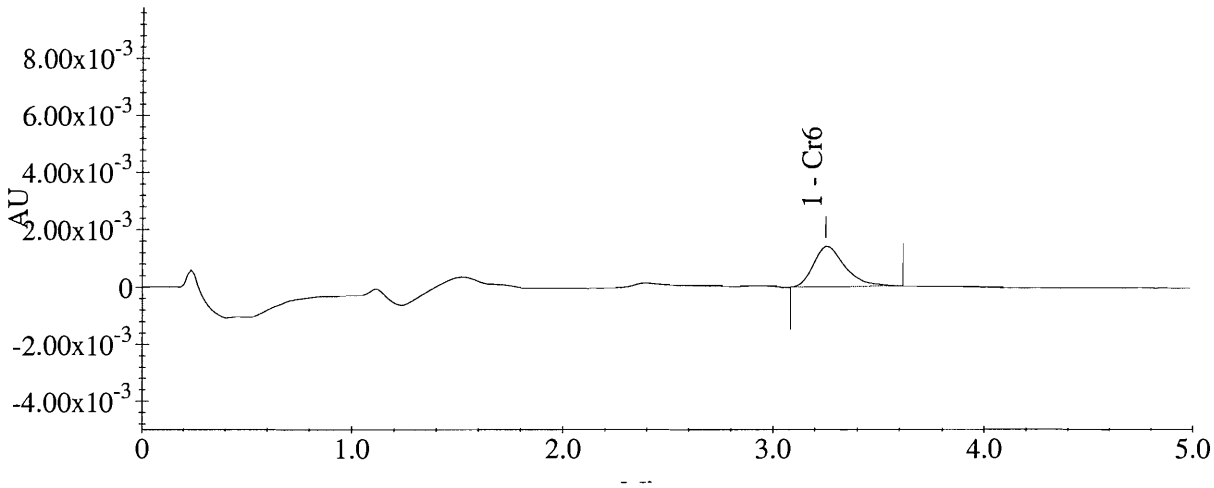
Sample Name : 4516-04 f=1
Data File Name : C:\DATA\04W3935L\4516-04_008.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:54:20 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.25	2.02	14499	1402

4516-04 f=1



APCL Cr 6 Sample Analysis Report

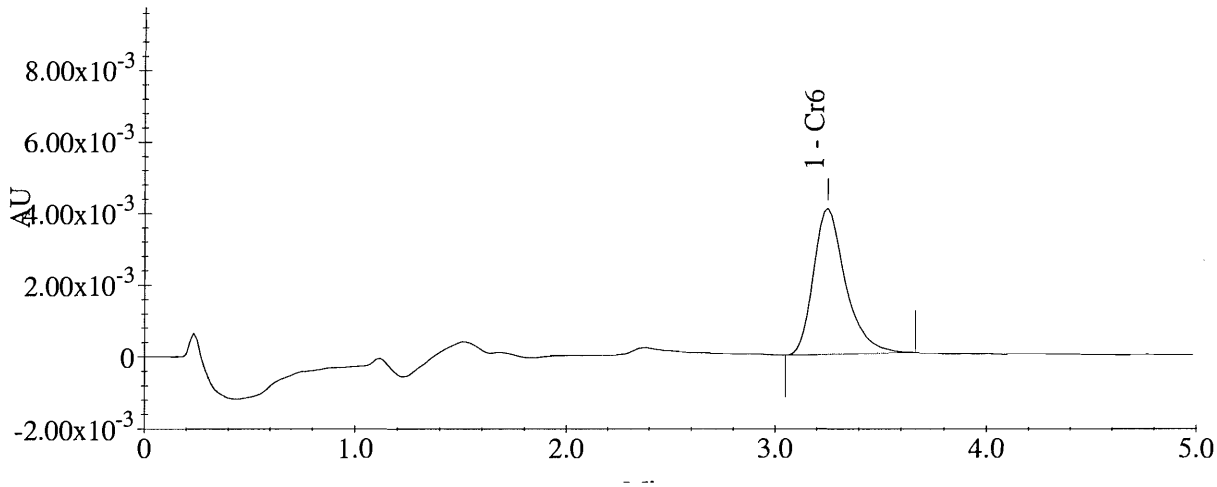
Sample Name : 4516-05 f=1
Data File Name : C:\DATA\04W3935L\4516-05_009.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 4:01:29 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.25	6.00	42957	4070

4516-05 f=1



APCL Cr 6 Sample Analysis Report

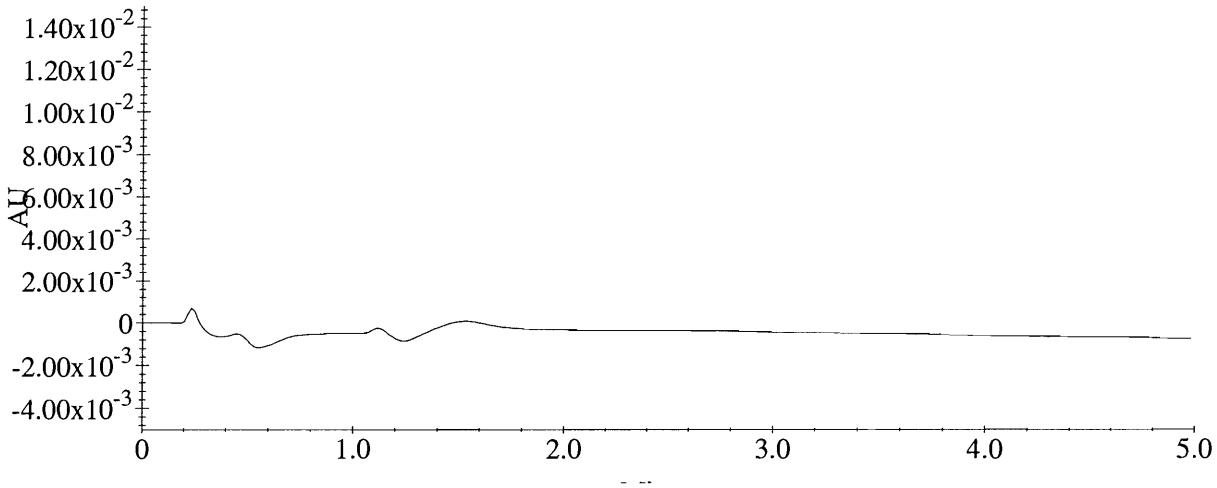
Sample Name : mb
Data File Name : C:\DATA\04W3935L\W3935L L01_002.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:10:57 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height

mb



FORM-3

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 218.6

Client Name:	U.S. Army Corps of Engineers	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	044516
Project ID:	Omega Chemical	Project No:		Sample Matrix:	Water
		Batch No:	04W3935		
LCS Filename:	-	Date Analyzed:	091504	Time Analyzed:	15:18
LCSD Filename:	-	Date Analyzed:	091504	Time Analyzed:	15:25

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CHROMIUM (VI)	μg/L	100	0	100	100	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	μg/L	100	99.6	100	0	25	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

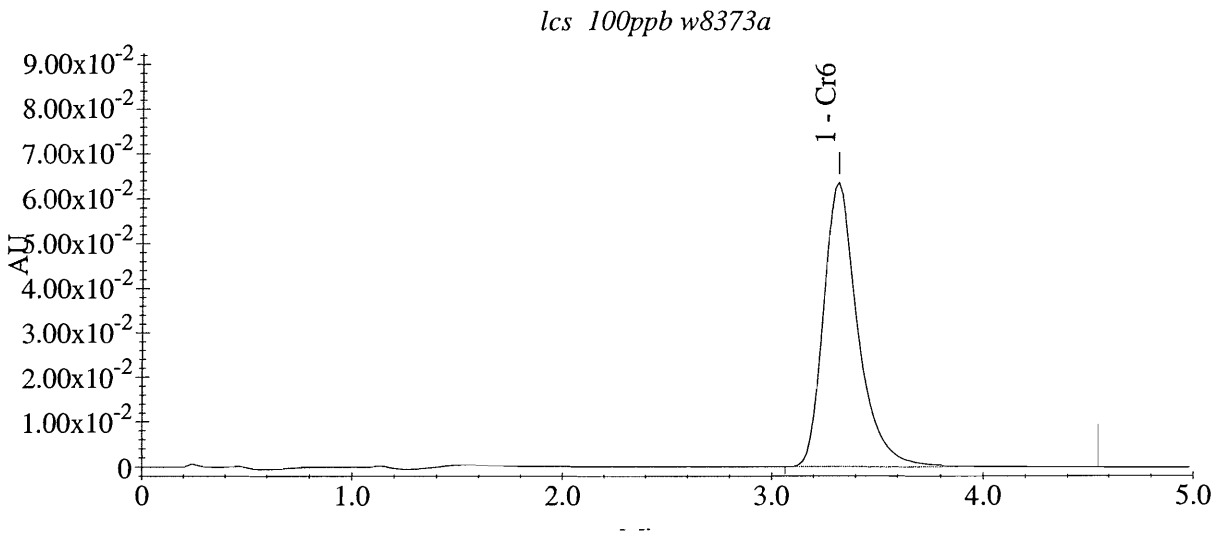
APCL Cr 6 Sample Analysis Report

Sample Name : lcs 100ppb w8373a
Data File Name : C:\DATA\04W3935L\W3935L L01_003.DXD
Dilution Factor : 1.00

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:18:11 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.32	100.00	716050	63205



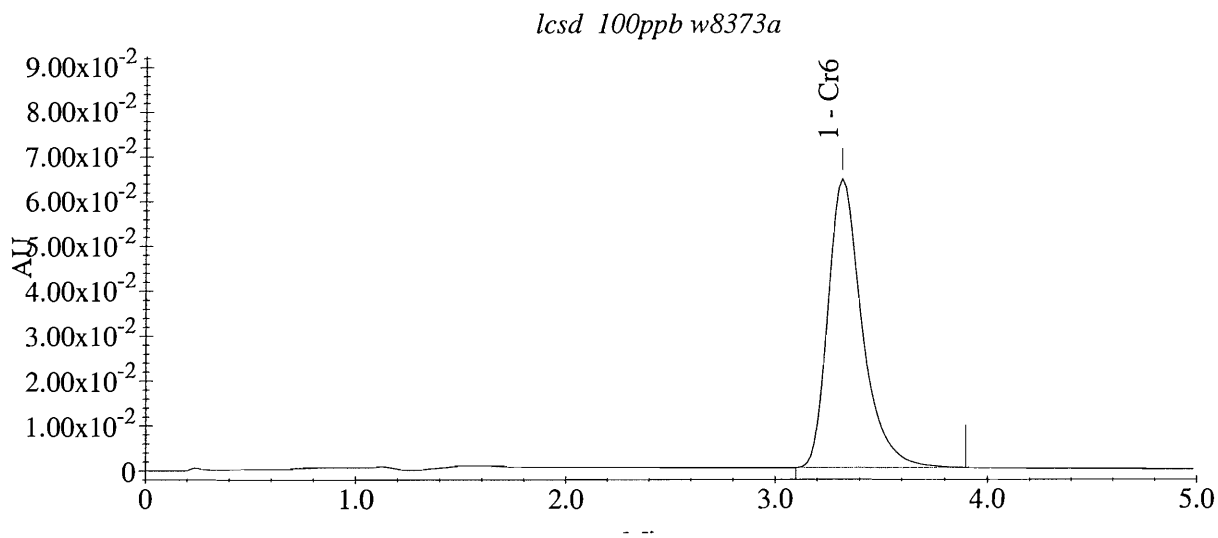
APCL Cr 6 Sample Analysis Report

Sample Name : lcsd 100ppb w8373a
Data File Name : C:\DATA\04W3935L\W3935L J01_004.DXD
Dilution Factor : 1.00

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 3:25:25 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.32	99.64	713410	64151



FORM-3

Applied P & CH Laboratories

Matrix Spike/Matrix Spike Duplicate Recovery for Method 218.6

Client Name:	U.S. Army Corps of Engineers	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	044516
Project ID:	Omega Chemical	Project No:		Sample Matrix:	Water
		Batch No:	04W3935		
MS Filename:	-	Date Analyzed:	091504	Time Analyzed:	16:08
MSD Filename:	-	Date Analyzed:	091504	Time Analyzed:	16:15
MS Sample No:	**OC2-MW8B-W-5-69**	Sample Lab ID:	04-4516-2		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
CHROMIUM (VI)	μg/L	250	10.2	287.7	111	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CHROMIUM (VI)	μg/L	250	250	96	14	25	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

APCL Cr 6 Sample Analysis Report

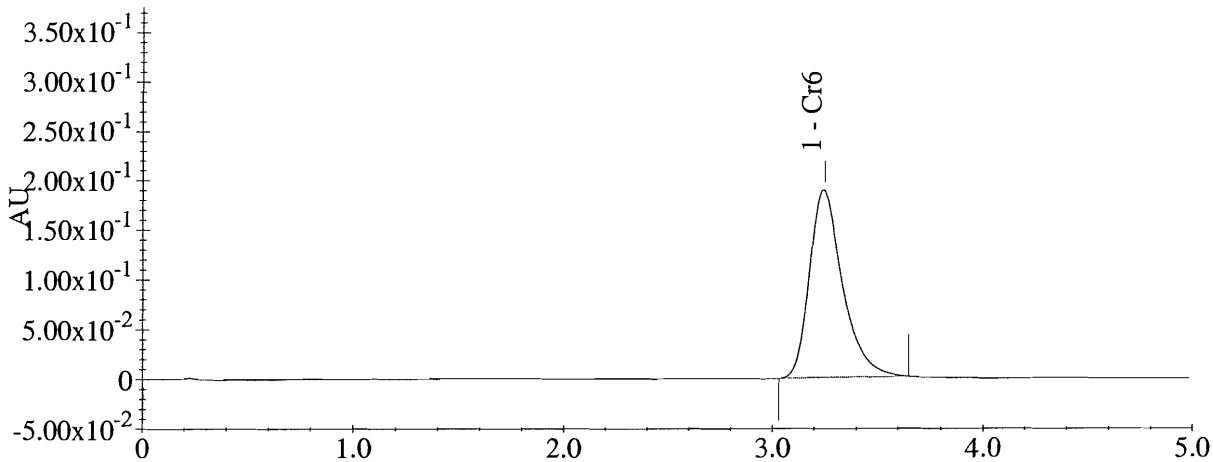
Sample Name : 4516-02 ms 250ppb f=1 w8803b
Data File Name : C:\DATA\04W3935L\W3935L M01_010.DXD
Dilution Factor : 1.00

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 4:08:43 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.25	288.02	2062311	187615

4516-02 ms 250ppb f=1 w8803b



Rec 111.11%

APCL Cr 6 Sample Analysis Report

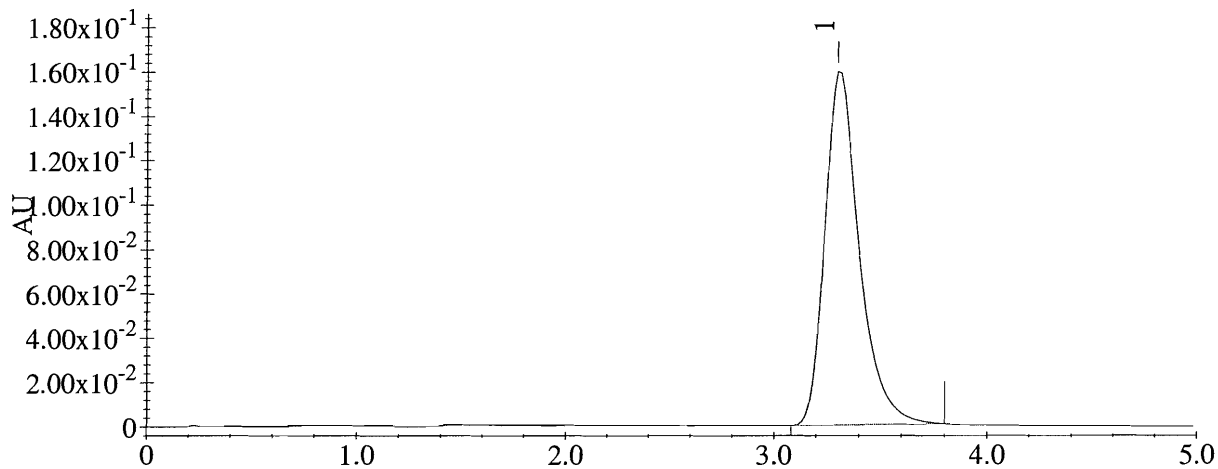
Sample Name : 4516-02 msd 250ppb f=1 w8803b
Data File Name : C:\DATA\04W3935L\W3935L N01_011.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 4:15:57 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.30	249.15	1783979	159523

4516-02 msd 250ppb f=1 w8803b



Rec 95.56%

FORM-7

Applied P & CH Laboratories

CCV Recovery for Wet Analysis

Client Name:	U.S. Army Corps of Engineers	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	044516
Project ID:	Omega Chemical	Project No.:			

#	Component Name	Method	Batch No.	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	Test Date
1	Chromium (VI)	218.6	04W3935	μg/L	250	255	102	2	√	90-110	09/15/2004
	Chromium (VI)	218.6	04W3935	μg/L	250	253	101	1	√	90-110	09/15/2004

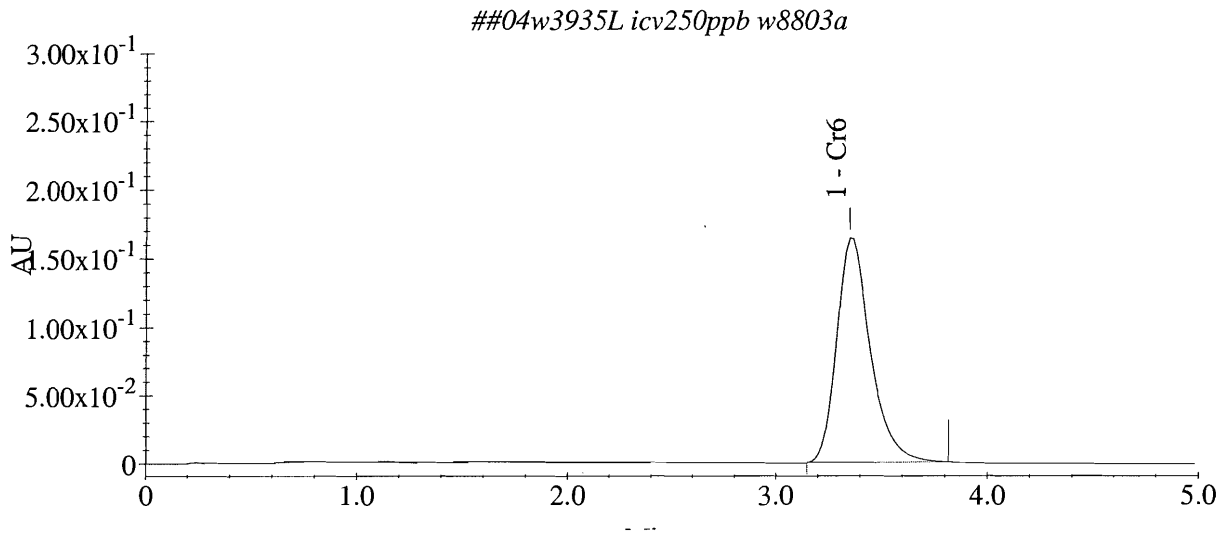
APCL Cr 6 Sample Analysis Report

Sample Name : ##04w3935L icv250ppb w8803a
Data File Name : C:\DATA\04W3935L\W3935L Q01_001.DXD
Dilution Factor : 1.00

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 2:54:16 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.35	254.65	1823344	164020



APCL Cr 6 Sample Analysis Report

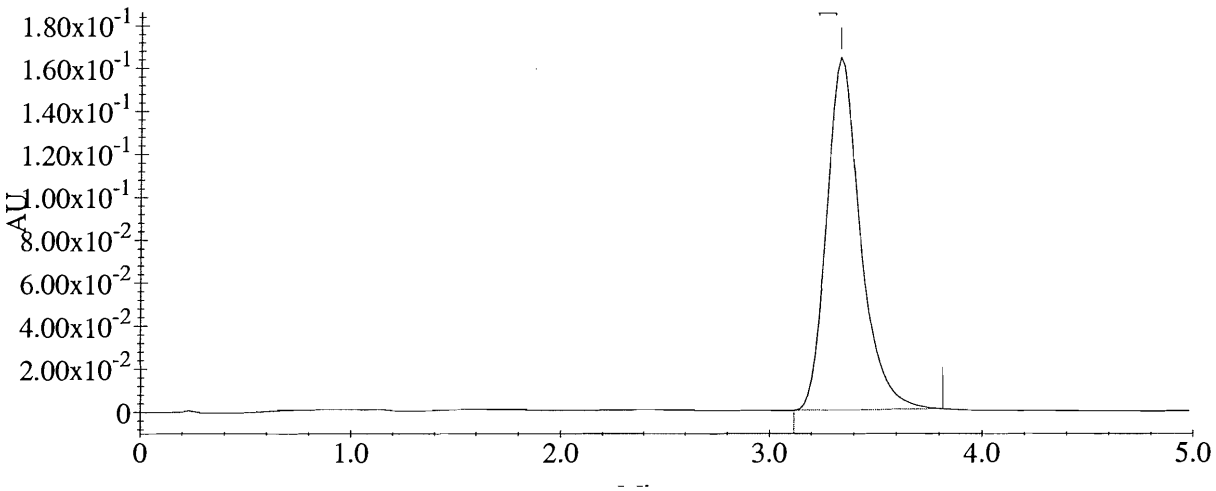
Sample Name : ccv 250ppb w8373a
Data File Name : C:\DATA\04W3935L\W3935L Q02_012.DXD
Dilution Factor : 1.00

Method File Name : C:\peaknet\method\e2186-027.met
Date Time Collected : 09/15/2004 4:23:11 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
1	Cr6	3.33	253.06	1811938	164150

ccv 250ppb w8373a



ine	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight
l	##04w3935L icv250ppb w8803a	Sample		e2186-027.met	c:\data\04w3935l\w3935l q01	1	1	1
2	mb	Sample		e2186-027.met	c:\data\04w3935l\w3935l l01	1	1	1
3	lcs 100ppb w8373a	Sample		e2186-027.met	c:\data\04w3935l\w3935l l01	1	1	1
4	lcsd 100ppb w8373a	Sample		e2186-027.met	c:\data\04w3935l\w3935l j01	1	1	1
5	4516-01 f=1	Sample		e2186-027.met	c:\data\04w3935l\4516-01	1	1	1
6	4516-02 f=1	Sample		e2186-027.met	c:\data\04w3935l\4516-02	1	1	1
7	4516-03 f=1	Sample		e2186-027.met	c:\data\04w3935l\4516-03	1	1	1
8	4516-04 f=1	Sample		e2186-027.met	c:\data\04w3935l\4516-04	1	1	1
9	4516-05 f=1	Sample		e2186-027.met	c:\data\04w3935l\4516-05	1	1	1
0	4516-02 ms 250ppb f=1 w8803b	Sample		e2186-027.met	c:\data\04w3935l\w3935l m01	1	1	1
1	4516-02 msd 250ppb f=1 w8803b	Sample		e2186-027.met	c:\data\04w3935l\w3935l n01	1	1	1
2	ccv 250ppb w8373a	Sample		e2186-027.met	c:\data\04w3935l\w3935l q02	1	1	1
3	ccb	Sample		e2186-027.met	c:\data\04w3935l\w3935l ccb	1	1	1

Analyst W. W

Date 09/15/04

Instrument IC-L

W8373 1000PPM CR6 STD

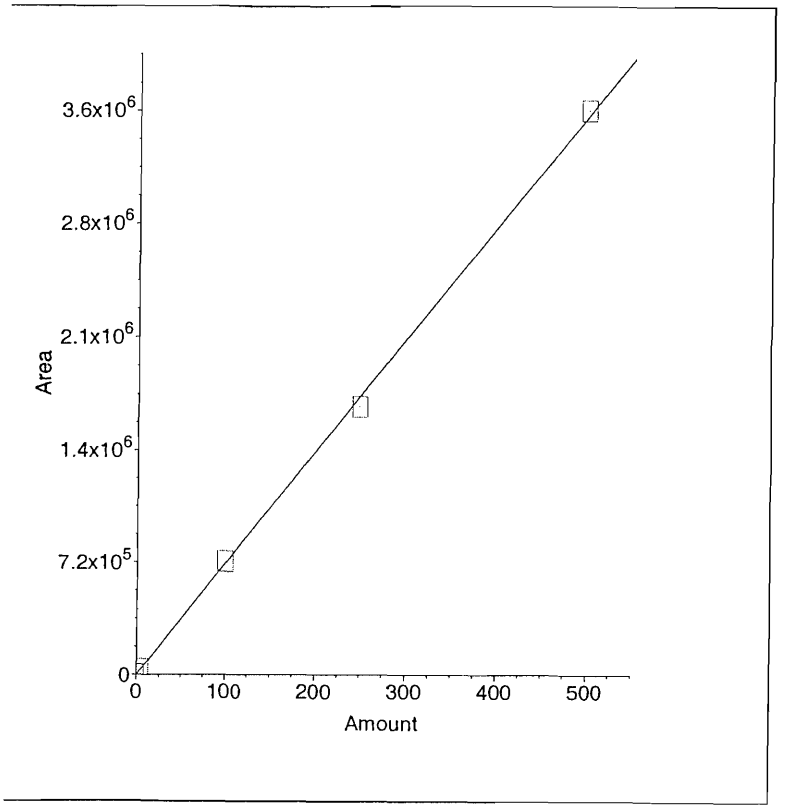
W8803 1000PPM CR6 STD

W8803A 1000PPM X 0.025ML/100ML = 0.250PPM WORKING STD DAILY DILUTE

W8373A 1000PPM X 0.025ML/250ML = 0.100PPM WORKING STD DAILY DILUTE

W8803B 1000PPM X 0.025ML/100ML = 0.250PPM WORKING STD DAILY DILUTE

.. Component:Cr6
Standard:External Fit Type:Linear
Origin:Force Calibration:Area
r^2=0.999361
Amt=0.0001397*Resp+0



Calibration: 6 points, 0, 0.2, 5.0, 100, 250, 500 ppb

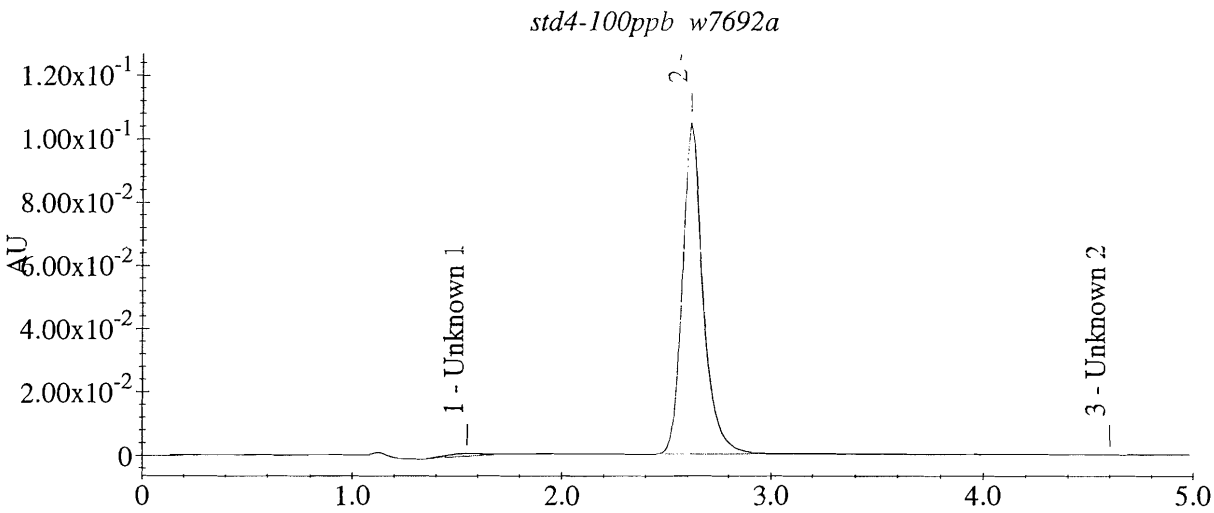
APCL Cr6 Sample Analysis Report

Sample Name : std4-100ppb w7692a
Data File Name : C:\data\03W5367L\std-004_004.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 12:01:03 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	Cr6	2.62	120.55	730202	104749



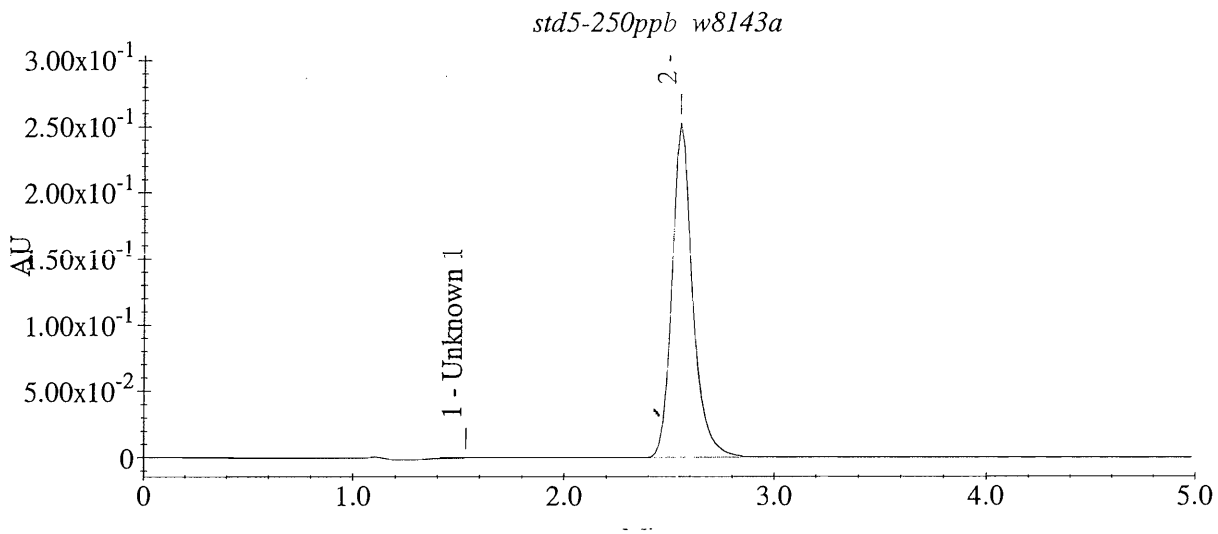
APCL Cr6 Sample Analysis Report

Sample Name : std5-250ppb w8143a
Data File Name : C:\data\03W5367L\std-005_005.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 12:08:18 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	Cr6	2.55	284.22	1721619	252349



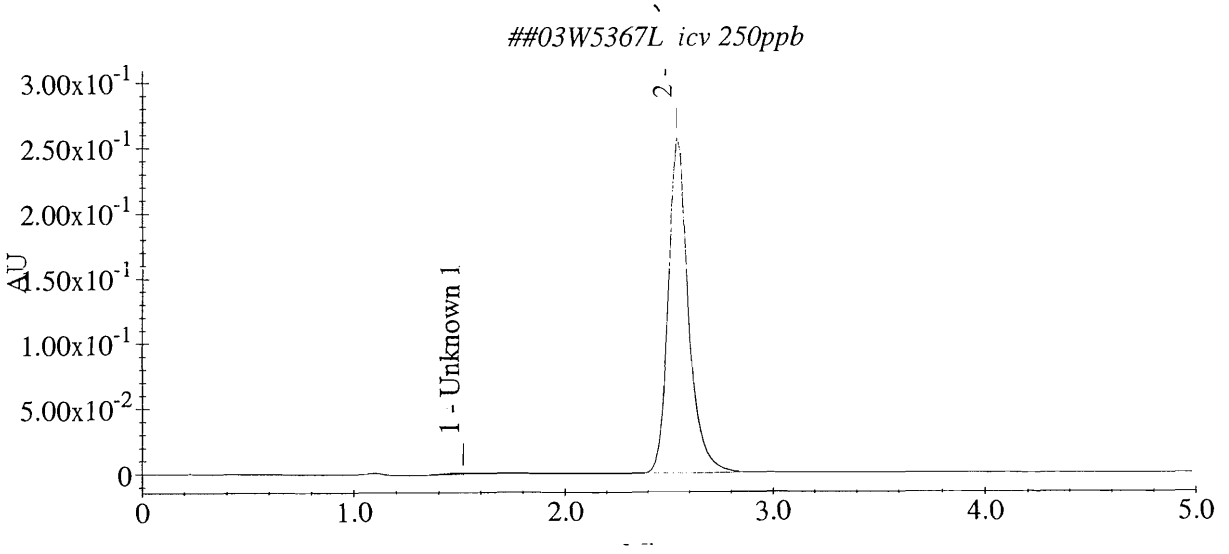
APCL Cr6 Sample Analysis Report

Sample Name : ##03W5367L icv 250ppb
Data File Name : C:\data\03W5367L\icv_007.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 1:30:44 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	Cr6	2.53	243.09	1740600	257024



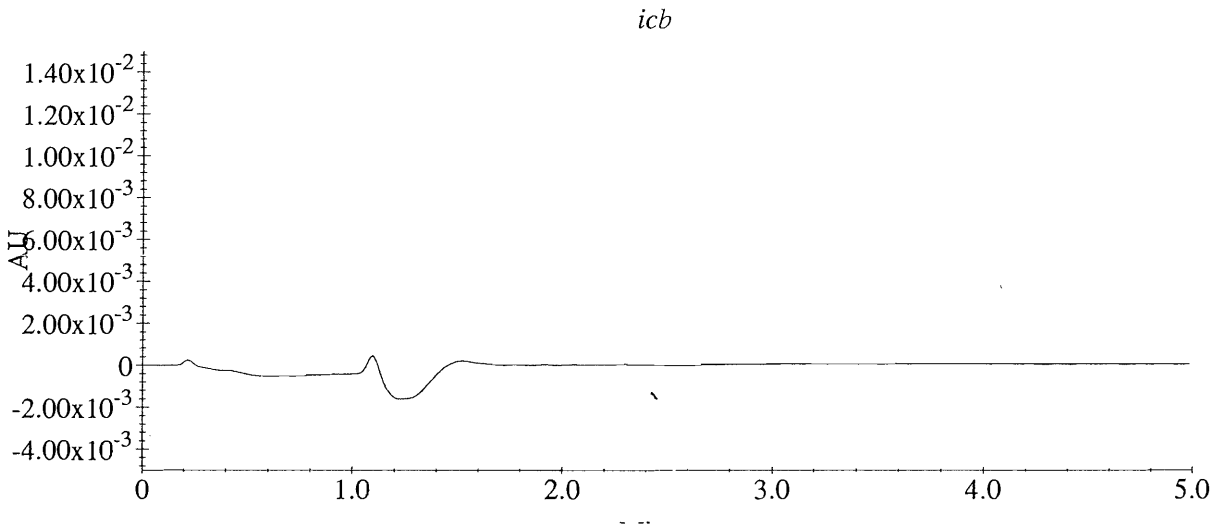
APCL Cr6 Sample Analysis Report

Sample Name : icb
Data File Name : C:\DATA\03W5367L\ICB_008.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 1:37:59 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



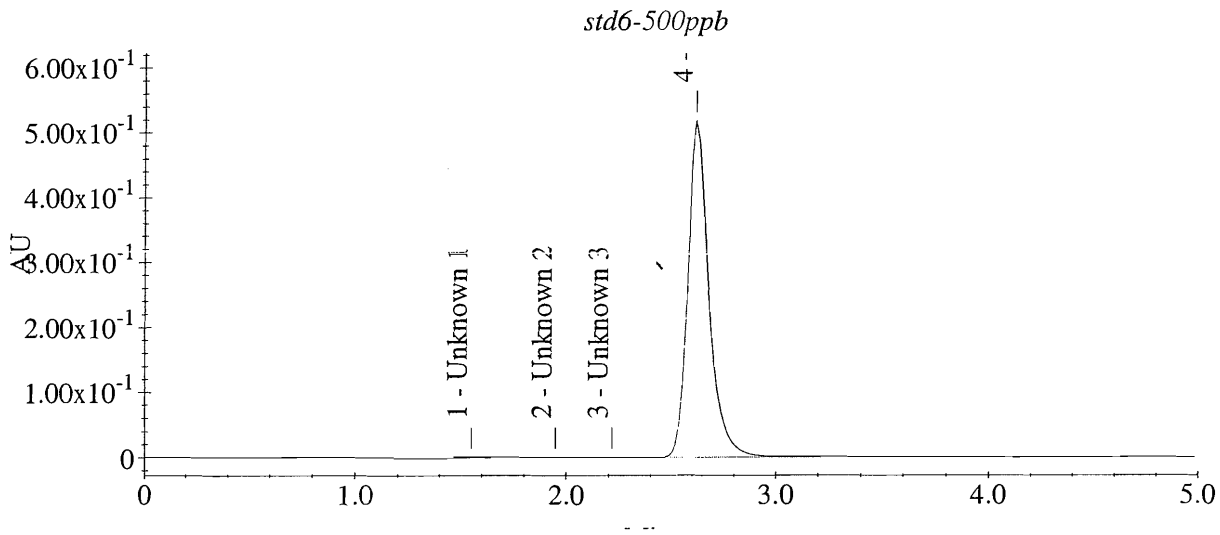
APCL Cr6 Sample Analysis Report

Sample Name : std6-500ppb
Data File Name : C:\data\03W5367L\std-006_006.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 12:15:32 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
4	Cr6	2.62	595.96	3609877	517051



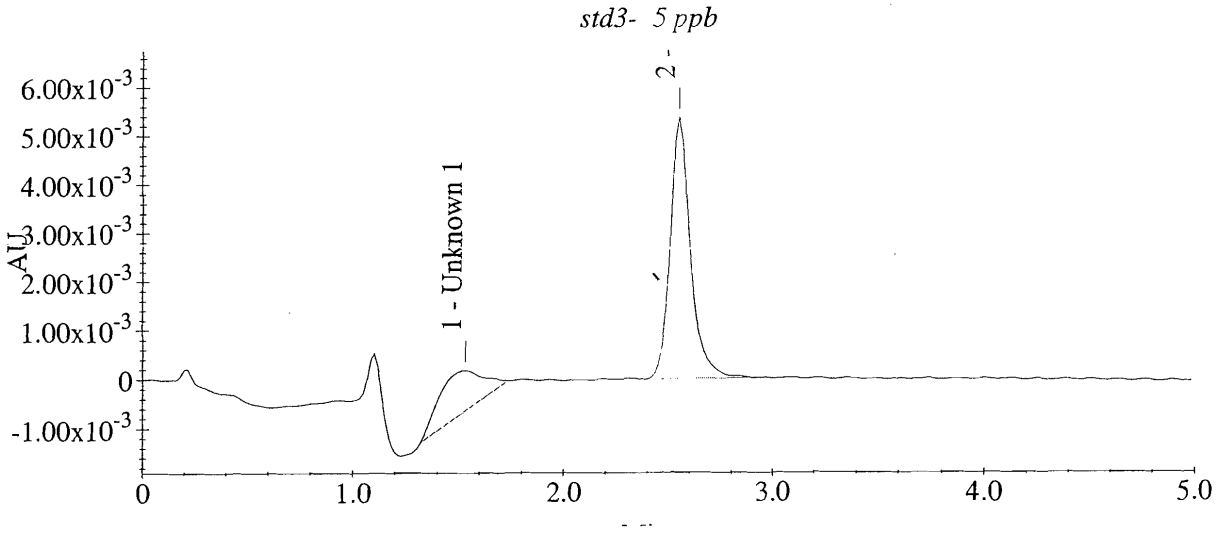
APCL Cr6 Sample Analysis Report

Sample Name : std3- 5 ppb
Data File Name : C:\data\03W5367L\std-003_003.DXD

Method File Name : c:\peaknet\method\e2186-027.met
Date Time Collected : 12/08/2003 11:43:10 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
2	Cr6	2.55	5.91	35775	5363



APCL Cr6 Sample Analysis Report

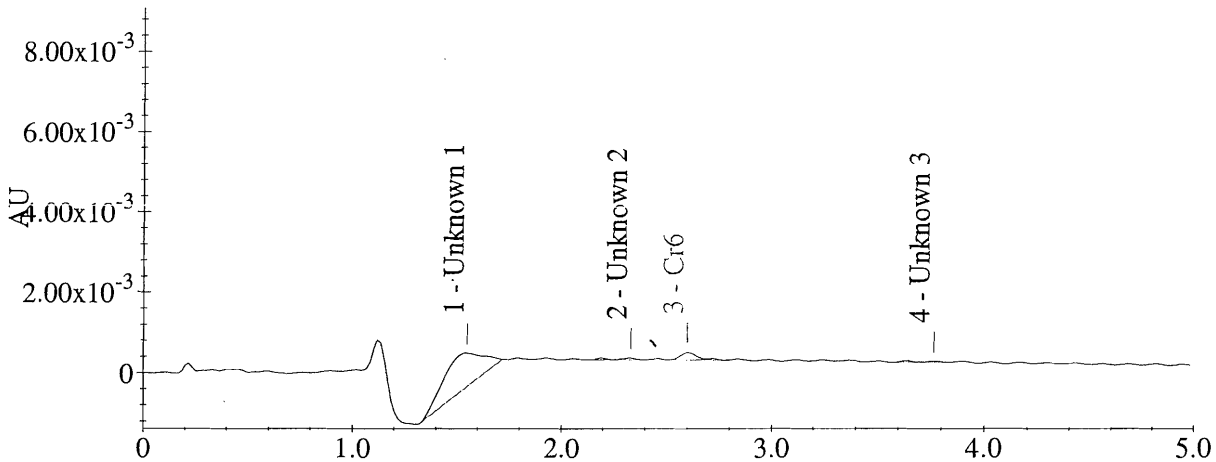
Sample Name : std2-0.2 ppb
Data File Name : C:\DATA\03W5367L\STD-002_002.DXD

Method File Name : C:\PeakNet\method\E2186-027.met
Date Time Collected : 12/08/2003 11:35:55 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height
3	Cr6	2.60	0.08	1100	189

std2-0.2 ppb



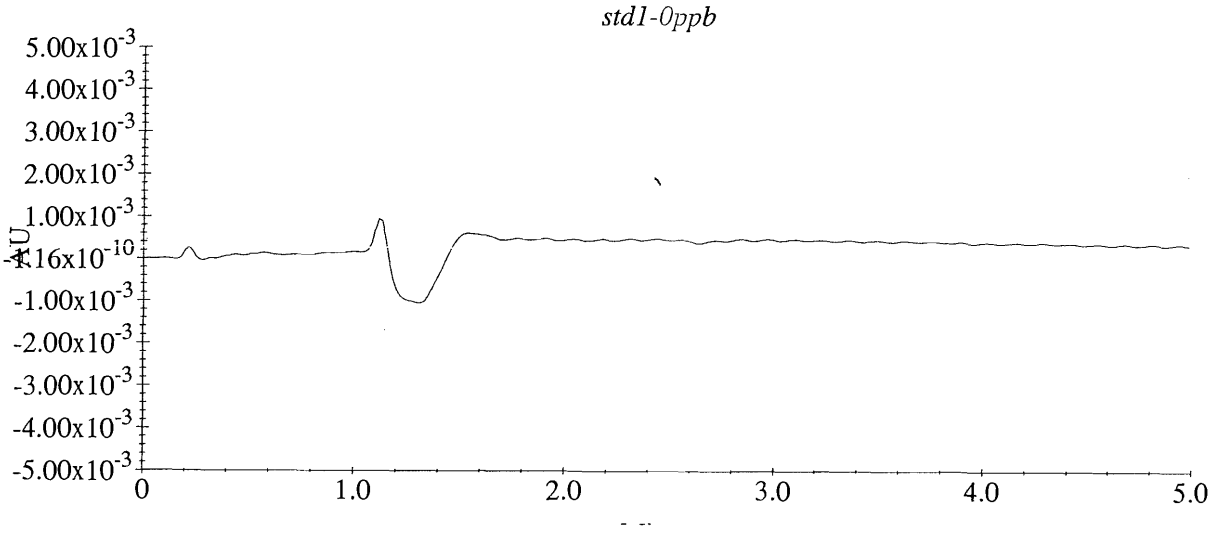
APCL Cr6 Sample Analysis Report

Sample Name : std1-0ppb
Data File Name : C:\DATA\03W5367L\STD-001_001.DXD

Method File Name : C:\PeakNet\method\E2186-027.met
Date Time Collected : 12/08/2003 11:28:38 AM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information - All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



ıe	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Weight
	std1-0ppb	Sample		e2186-027.met	c:\data\03w5367l\std-001	1	1	1
	std2-0.2 ppb w7692a-1	Sample		e2186-027.met	c:\data\03w5367l\std-002	1	1	1
	std3-5.0 ppb w7692a-2	Sample		e2186-027.met	c:\data\03w5367l\std-003	1	1	1
	std4-100ppb w7692a	Sample		e2186-027.met	c:\data\03w5367l\std-004	1	1	1
	std5-250ppb w8143a	Sample		e2186-027.met	c:\data\03w5367l\std-005	1	1	1
	std6-500ppb w8143b	Sample		e2186-027.met	c:\data\03w5367l\std-006	1	1	1
	##03W5367L icv 250ppb w7692b	Sample		e2186-027.met	c:\data\03w5367l\icv	1	1	1
	icb	Sample		e2186-027.met	c:\data\03w5367l\icb	1	1	1
	0.2ppb	Sample		e2186-027.met	c:\data\03w5367l\0.2ppb	1	1	1
	0.2ppb	Sample		e2186-027.met	c:\data\03w5367l\0.2ppb	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-w-0.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-w	1	1	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	0.2ppb	Sample		e2186-027.met	c:\data\03w5367l\0.2ppb	1	1	1
	mdl-s-2.5ppb	Sample		e2186-027.met	c:\data\03w5367l\mdl-s	1	5	1
	ccv2 250ppb	Sample		e2186-027.met	c:\data\03w5367l\q02	1	1	1

W 7692 1000 ppm Cpt STD

W 8143 1000 ppm Cpt STD

W7692a 1000ppm X 0.025 ml/250 ml = 0.100 ppm

W 8143a 1000 ppm X 0.025 ml/100 ml = 0.250 ppm

W7692b 1000 ppm X 0.025 ml/100 ml = 0.250 ppm

W8143b 1000 ppm X 0.5 ml/1000 ml = 0.500 ppm

W7692a-1 0.100 ppm X 0.4 ml/200 ml = 0.0002 ppm

W7692a-2 0.100 ppm X 10.0 ml/200 ml = 0.005 ppm

working STD daily diluted.

Analyst W. W

Date 12/8/03

Instrument IC-C

331

Line	Int. Std.	Comment
1	1	
2	1	
3	1	
4	1	
5	1	
6	1	
7	1	
8	1	
9	1	
10	1	
11	1	
12	1	
13	1	
14	1	
15	1	
16	1	
17	1	
18	1	
19	1	
20	1	
21	1	
22	1	
23	1	
24	1	
25	1	
26	1	
27	1	
28	1	
29	1	

Default Method Path: C:\PEAKNET\METHOD
Default Data Path: C:\DATA\03W2295L
Comment: