

750 Royal Oaks Drive Suite 100 Monrovia, California 91016-3629 Tol: 626 669 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Tronox LLC - Henderson PO Box 55

Henderson, NV 89009

Attention: Susan Crowley Fax: (405) 302-4607

DATE OF ISSUE Jun 08 2009 MWH LABORATORIES

andrew Eaton

ADE Andy Eaton Project Manager

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Report#: 270390 Project: CLO4 PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory.

Laboratory certifies that the test results meet all NELAC requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 16 page[s].



June 8, 2009

Ms. Susan Crowley Tronox PO Box 55 Henderson, NV 89009

Subject: Case Narrative report 270390

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 06, 2009 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative: For the MWH Laboratories data the following issues were observed:

Hexavalent chromium was received past hold time.

pH was initially analyzed on the day of receipt, but was reconfirmed with reanalysis due to incomplete QC on the first day of analysis.

One sample for chlorate was analyzed in a separate batch.

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Note that for ion chromatography analyses such as perchlorate, the exact analysis time is not typically shown on the report. Either a 00:00 is shown or the time of injection of the first sample in the batch.

Sincerely,

andrew Eaton

Andrew Eaton, PhD **Project Manager**

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Monrovia, CA 91016

 750 Royal Oaks Drive
 TEL
 626-3865-1100

 Suite 100
 FAX
 626-386-1101
 www.mwhlabs.com

	TNOM	GOMERY WAT	MONTGOMERY WATSON LABORATORIES	CH	NN	CHAIN OF CUSTODY RECORD	C C	ST(Ó	к К	СШ Ц	Ö	ð				7	27039
750 Royal Oaks	II Oaks Ave,	750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016 נפיסט ספפ 1100 – נפתה 5227	CA 91016 LOGIN COMMENTS:							SAM SAM	PLE TE	CHECI EMP, F	(ED/LOG	SAMPLES CHECKED/LOGGED IN BY: SAMPLE TEMP, RECEIPT AT L <u>A</u> B:	ı ۲	35.	B	
000 (070)	0011-	1777-000 (000)								BLU	BLUE ICE:		FROZEN	PARI	PARTIALLY FROZEN		THAWED	
TO BE COM	TO BE COMPLETED BY SAMPLER:	AMPLER:				F	REFE	R TO A				ORDI	ER FOR	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES	S		(check for yes)	or yes)
COMPANY /	COMPANY / PROJECT NAME	IJ	PROJECT JOB # / P.O.# Quarterly Groundwater Sampling										5			lames deed	e line)	
KERRMCGEE-MP	GEE-MP		Schedule B			1	ł	ŀ	ANALY	SESR			rk an 'X' I	all tests		ANALYSES REQUIRED (mark an X in all tests required for each sample mus		
Sampler Mich Susan Crowlev	Brown	r (702) 651-2234	Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009	on Plant 3			<u> </u>						er		_			SAMPLER
TIME	ATE	LOCATION	IDENTIFIER, STATE ID#	* XIATAM	BAAD	COMP	CR 6010	0400 Hq	CFO t LDS	9617 IVAD	CFO3 9026	9906 EON	See Bottle Ord					
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	5			RGW	×		×	× ×	×				_			_		Bottles
* MATRI	* MATRIX TYPES:	Repo	Reported by Volume:			DOW - Dow Ground Mater	- M	ntar	ĺ	Ŵ	v = Chl	- ninati	Cww = Chlorinated Waste Water	Water		Repor SO = S	<u>Reported by Weight:</u> so = Soil	<u>sight:</u>
		CFW -	CFW = Chlor(am)inated Finished Water FW = Other Finished Water		RSW=	KGW = Raw Ground Water RSW = Raw Surface Water	rface W	ater		WM SM		 Control Master Cother Waster Storm Water 	WW = Other Waste Water SW = Storm Water			SL = Sludge	Indge	
		SIGNATURE	URE		۵.	PRINT NAME						COM	COMPANY/ITTLE				DATE	TIME

PAGE 1 of 1

270390

RELINQUISHED BY:

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C-O-C# smc052002

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12:00PM

Veolia Water NA for Tronox LLC - Henderson Plant

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5.6-09

AMM

JOE Sanchez Michele Brown

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RELINQUISHED BY RECEIVED BY:

SIGNATURE) L õ

AMA. Ì

Page 1 of 47781	arterly Period	K 1		Billing Address	Tronox LLC PO Box 3049	Livonia. MI 48150		Quote#	ADE	UN# Important Comments	UN 2031 QUARTERLY SAMPLING -	BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING	TAKES 3-4 DAYS	second quarter only				- — of 7-14-C6	Note - client never received	original snipment, as best they can tell. Please resend this one.						1	Prepared By
Order for <u>Tronox LLC-</u> <u>Henderson</u>		Project Code CLC4 Week 1 PO# / Job# Blanket PO	rn this Paper with your samples		Tronox LLC Henderson Plant PO Box 55.	Henderson. NV 89009			PHONE: /UZ-931ZA34	FAX: Arrent Arrent FAX: Arrent Arrent FAX:	cid rinsed + 1ml HNO3 (18%)	500 ml poly /no preservative	cid rinsed/ no preservative SHORT HOLDING TIME!!!!!		1 125ml poly/ no preservative SHORT HCLDING TIME!!!!!	60 mL 5% EDA sol'n		· ·				4	i				Oty of Coolers Tracking Number
MWH Laboratories, a Division of MWH Americas, Inc. Bottle Order	750 Royal Oaks Avenue Suite 100 Standing Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124	Your MWL Project Manager	5973 RS Sampler: Please Return this	0 Ship Sample Kits to	Tronox LLC-Veolia Water Gate 1	8000 West Lake Mead Drive Henderson, NV 89015			РНОИЕ: 7.02-651-2234		1 250ml poly acid rinsed		 1 125ml poly acid rinsed/		 1 125ml poly/ n		•		•		•		• •			•	Date Shipped Carrier Qtv
MWH Laborator	T50 Royal Oaks Monrovia CA 910	Andrew Eaton (626) 386-1125	SO# 47781 26973	Created by ADE	Order Date 04/23/09	Date Needed by Client	04/30/09	Date Samples	to Arrive at MWL	# of Samples Tests	101 CR6010			1 L	 22 NO39056	 22 CLO39056	۰ _ ا	ı 1_	ı L	ı 	, .I.	:	; ;	، 1	۰ ــــــــــــــــــــــــــــــــــــ	ı I	Antinofoda Statue

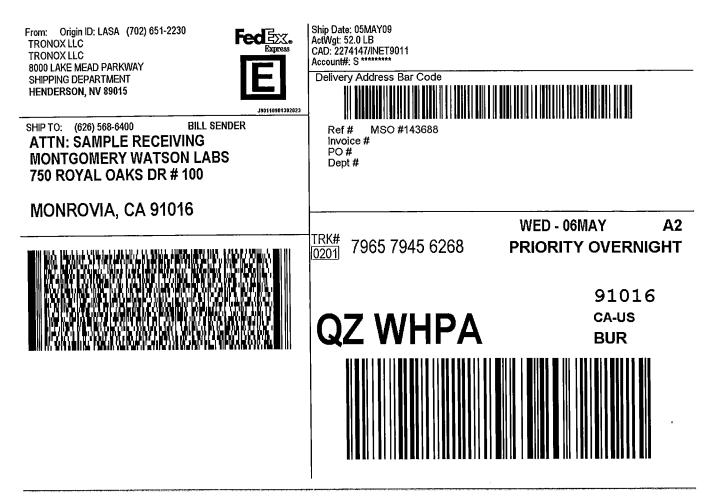
THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

From: TRONOX LLC the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tarier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, Including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER				Da			FROM NO. STATION: STATE
Federal Express				5/5	5/09		Henderson, NV 89015
MWH LABORATORIES							Authorization M. Skromyda
750 Royal Oaks Avenu							FULL NAME OF SHIPPER TRONOX LLC
Monrovia, CA 91016-	629						CODE NO, WCN IS
Phone: 626-568-6400							
FREIGHT CHARGES							1321.10181
N/AR	CUSTOMER PO OR RE	Q'N NO.			PPED FF	^{ком} son, NV	law requires that the Bill of Lading shall state
					<u> </u>	• • • • • • • • • • • • • • • • • • •	whether it is Carrier's or Shippers weight.
NO. D	SCRIPTION AND CLASSIFICA		5	TOCK NO	0.]	3 Coolers	Y
Ice chest with v	ater samples						Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to
	·						be delivered to the Consignee without
Monitoring Wel	s quarterly						recourse on the Consignor, the Consignor shall sign the following statement:
							The Carrier shall not make delivery of this
One ice chest (shipment without payment of freight and all other lawful charges.
One ice chest (One ice chest (TRONOX LLC
	y 12 103						
							The description and weight indicated on this Bill of Lading are correct. Subject to
Not Regulated							verification by the Governing Weighing and
							Inspection Bureau according to Agreement.
TRUCK SHIPMENTS			I	I			FOR CHEMICAL EMERGENCY-SPILL, LEAK,
PLACARDS OFFERED YES	PLACARDS AC	сертер 🗌 Ү	′ES				FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC – DAY OR NIGHT
			10				800-424-9300
NUMBER OF PACKAGES	GROSS WEIGHT	TARE	WEIGHT		NET	WEIGHT	483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE
			0				CONTINENTAL US.
	TOTAL GROSS WEIGHT	TARE	OTAL WEIGHT			152	
	152		0				"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate
NOTE: Where the rate is dependent on value	shippers are required to state s	specifically in writing	the agreed or declared	value of t	the prop	erty. The agreed o	
declared value of the property is hereby spec			per				
THIS IS TO CERTIFY THAT THE ABOVE-NA TRANSPORTATION ACCORDING TO THE					RKED AN	ND LABELED AND	ARE IN PROPER CONDITION FOR
TRONOX LLC	PER		AGENT				PER
Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, Ok 73126-8859	Carron V	Villiams					
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After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tronox LLC - Henderson PO Box 55 Henderson, NV 89009 Attn: Susan Crowley Phone: 702-651-2234

Customer Code: KERRMCGEE-MP PO#: Susan Crowley PO Group#: 270390 Project#: CLO4 Proj Mgr: Andrew Eaton Phone: (626) 386-1125

The following samples were received from you on **05/06/09**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Sci	heduled	Matrix		Sample	Date
2905060238	I-AA			Water	5110.0.4.0		2009 06:50:00
2905060239	M-131	CLO4	CR6010	P Water	PH9040 PH9040	05-may-	TDS 2009 07:00:00 TDS
2905060240	M-57A	CLO4	CR6010	Water	PH9040 PH9040	05-may-	2009 07:11:00 TDS
2905060241	M-79	CLO4	CR6010	Water	PH9040 PH9040	05-may-	2009 07:28:00 TDS
2905060242	M-69	CLO4	CR6010	Water P	РН9040	05-may-	2009 07:40:00 TDS
2905060243	M-135	CLO4	CR6010	Water P	PH9040 PH9040	05-may-	2009 07:51:00 TDS
2905060244	M-25	CLO4	CR6010	Water CR6010		05-may-	2009 08:52:00 PH9040
		T	TDS		N039030		
2905060245		CLO4	99999	Water P	PH9040	T	
2905060246	M-37	CLO39056	CLO4	Water CR6010 TDS	CRVI7196		2009 10:42:00 56 P
2905060247	MD-4			Water			2009 00:00:00
2905060248	EB-1	CLO4		P Water		05-may-	TDS 2009 10:45:00
		CLO4 TDS	CR6010	CRVI7196	Ъ	PH9040) <u>1</u> .

Test Acronym Description

Test Acronym	Description
CL039056	Chlorate by IC
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)

Tronox LLC - H PO Box 55 Henderson, NV Attn: Susan Cr Phone: 702-651	Cus 89009 owley	PO#: Group#: Project#: Proj Mgr:	
	Test Acron	ym Descript	ion
Test Acronym	Description		
NO39056 P PH9040 T TDS	Nitrate as Nitrogen Metals sample pH PH (H3=past HT, not Metals Turbidity Total Dissolved Sol	compliant)	

.



Report Comments #270390

750 Royal Oaks Drive Suite 100 Monrovla, California 91016-3629 Tol: 626 668 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Client Specific Comments

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Signature:

andrew Eaton

Group Comments

(PH) Past HT reanalysis confirmed the original data.

(QC Ref#: 2905060246)

Test: Chlorate by IC (ML/EPA 9056)

(CLO39056) Due to misinjection eleven samples were analyzed in the last half of the batch. Sample was not reported and will be reanalyzed.

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196) H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2905060248)

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196) H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.



750 Royal Oaks Drive Suite 100 Monrovla, California 91016-3629 Tol: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Tronox LLC - Henderson Susan Crowley PO Box 55 Henderson , NV 89009 Laboratory Hits Report #270390

Samples Received 06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060238	I-AA				
05/25/09 05/18/09 05/06/09 05/21/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) ed Solid (TDS)	0.081 Y 7.7 114000 3490	500	mg/l Yes/No Units ug/l mg/l	0.020 0.0010 8000 10
	2905060239	M-131				
05/25/09 05/18/09 05/06/09 05/21/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) ed Solid (TDS)	0.082 Y 7.7 60900 3280	500	mg/l Yes/No Units ug/l mg/l	0.020 0.001 4000 10
	2905060240	M-57A				
05/25/09 05/18/09 05/06/09 05/21/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) red Solid (TDS)	0.075 Y 7.7 26200 3260	500	mg/l Yes/No Units ug/l mg/l	0.010 0.001 2000 10
	2905060241	M-79				
05/25/09 05/18/09 05/06/09 05/23/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant; red Solid (TDS)	0.12 Y 7.8 30600 1800	500	mg/l Yes/No Units ug/l mg/l	0.010 0.001 2000 10

SUMMARY OF POSITIVE DATA ONLY.



750 Royal Oaks Drive Suite 100 Monrovia, California 91016-3629 Tol: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Tronox LLC - Henderson Susan Crowley PO Box 55 Henderson , NV 89009 Laboratory Hits Report #270390

Samples Received 06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060242	M-69				
	2905060242	M-69				
05/25/09 05/18/09 05/06/09 05/23/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) ed Solid (TDS)	0.079 Y 7.6 371000 4160	500	mg/l Yes/No Units ug/l mg/l	0.020 0.0010 20000 10
	2905060243	M-135				
05/25/09 05/18/09 05/06/09 05/23/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) red Solid (TDS)	0.083 Y 7.7 43300 3440	500	mg/l Yes/No Units ug/l mg/l	0.010 0.001 2000 10
	2905060244	M-25				
05/23/09 05/25/09 05/06/09 05/23/09 05/12/09	Perchlorate		3370000 12 7.4 444000 9360	500	ug/l mg/l Units ug/l mg/l	10000 0.10 0.001 20000 10
	2905060245	M-99				
06/08/09 06/04/09 05/06/09		al, ICAP ion performed. T, not compliant)	0.43 Y 7.6		mg/l Yes/No Units	0.020 0.001

SUMMARY OF POSITIVE DATA ONLY.



750 Royal Oaks Drive Suite 100 Monrovla, California 91016-3629 Toi: 826 568 6400 Fax: 626 568 6324 1 800 586 LABS (1 800 566 5227)

Tronox LLC - Henderson Susan Crowley PO Box 55 Henderson , NV 89009 Laboratory Hits Report #270390

Samples Received 06-may-2009 21:52:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905060245	M-99				
05/23/09 05/12/09	Perchlorate Total Dissolv	ed Solid (TDS)	405000 4650	500	ug/l mg/l	20000 10
	2905060246	M-37				
05/15/09 06/07/09 05/06/09 06/04/09 05/06/09 05/06/09 05/23/09 05/12/09	Metals digest Nitrate as Ni PH (H3=past H Perchlorate	al, ICAP romium (Cr VI) ion performed.	16700 0.025 0.006 Y 130 7.3 169000 4360	0 500	ug/l mg/l Yes/No mg/l Units ug/l mg/l	1000 0.020 0.0050 5.0 0.0010 200000 10
	2905060247	MD-4				
06/07/09 06/04/09 05/06/09 05/28/09 05/12/09	PH (H3=past H Perchlorate	al, ICAP ion performed. T, not compliant) ed Solid (TDS)	0.076 Y 7.8 25200 3200	500	mg/l Yes/No Units ug/l mg/l	0.020 0.0010 2000 10
	2905060248	EB-1				
05/18/09 05/06/09 05/23/09	Metals digest PH (H3=past H Perchlorate	ion performed. T, not compliant)	Y 6.3 159		Yes/No Units ug/l	0.0010 8.0

SUMMARY OF POSITIVE DATA ONLY.



750 Royal Oaks Drive Suite 100 Monrovia, California 91016-3629 Tol: 626 568 6400 Fax: 626 568 6324 1 800 586 LABS (1 800 566 5227)

Tronox LLC - Henderson Susan Crowley PO Box 55 Henderson , NV 89009

Laboratory Data Report #270390

Samples Received 05/06/09

repared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilutio
E-AA	(290506023	8)	Sampled	on 05/05/09 06:50				
	05/21/09 00:00	485621	(EPA 314) Perchlorate	114000	ug/l	8000	2000
5/15/09	05/25/09 00:00	486389	(ML/EPA 6010B) Chromium, Total, ICAP	0.081	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	¥	Yes/No	0	1
	05/06/09 18:47	483779	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
5/12/09	05/12/09 19:30	484871	(E160.1/SM2540C) Total Dissolved Solid (TDS)	3490	mg/l	10	1
4-131	(29050602	39)	Sampled	on 05/05/09 07:00				
	05/21/09 00:00	485621	(EPA 314) Perchlorate	60900	ug/l	4000	1000
5/15/09	05/25/09 00:00	486389	(ML/EPA 6010B) Chromium, Total, ICAP	0.082	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
5/12/09	05/12/09 19:30	484871	(E160.1/SM2540C) Total Dissolved Solid (TDS)	3280	mg/l	10	1
M-57A	(29050602	40)	Sampled	on 05/05/09 07:11				
•	05/21/09 00:00		(EPA 314) Perchlorate	26200	ug/l	2000	500
5/15/09	05/25/09 00:00	486388	(ML/EPA 6010B) Chromium, Total, ICAP	0.075	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
5/12/09	05/12/09 19:30	484871	(E160.1/SM2540C) Total Dissolved Solid (TDS)	3260	mg/l	10	1
4-79	(290506024	1)	Sampled	on 05/05/09 07:28				
	05/23/09 00:00	485929	(EPA 314) Perchlorate	30600	ug/l	2000	500
5/15/09	05/25/09 00:00	486388	(ML/EPA 6010B) Chromium, Total, ICAP	0.12	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	¥	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
5/12/09	05/12/09 19:30	484871	(E160.1/SM2540C) Total Dissolved Solid (TDS)	1800	mg/l	10	1



Laboratory Data Report #270390

750 Royal Oaks Drive Suite 100 Morrovla, California 91016-3629 Tol: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Tronox LLC - Henderson (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilutio
M-69	(290506024)	2)	Sampled	on 05/05/09 07:40				
	05/23/09 00:00	485932	(EPA 314) Perchlorate	371000	ug/l	20000	5000
5/15/09	05/25/09 00:00	486389	(ML/EPA 6010B) Chromium, Total, ICAP	0.079	mg/l	0.020	2
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
5/12/09	05/12/09 19:30	484871	(E160.1/SM25400	C) Total Dissolved Solid (TDS)	4160	mg/l	10	1
M-135	(290506024	43)	Sampled	l on 05/05/09 07:51				
	05/23/09 00:00	485932	(EPA 314) Perchlorate	43300	ug/l	2000	500
5/15/09	05/25/09 00:00	486388	(ML/EPA 6010B) Chromium, Total, ICAP	0.083	mg/l	0.010	1
	05/18/09 15:56		(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
5/12/09	05/12/09 21:30	484870	(E160.1/SM25400	C) Total Dissolved Solid (TDS)	3440	mg/l	10	1
M-25	(290506024	4)	Sampled	on 05/05/09 08:52				
	05/23/09 00:00	485939	(ML/EPA 9056) Chlorate by IC	3370000	ug/l	100000	10000
	05/23/09 00:00	485932	(EPA 314) Perchlorate	444000	ug/l	20000	5000
5/15/09	05/25/09 00:00	486389	(ML/EPA 6010B) Chromium, Total, ICAP	12	mg/l	0.10	10
	05/06/09 10:35	483778	(ML/EPA 9056) Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
5/12/09	05/12/09 21:30	484870	(E160.1/SM2540	C) Total Dissolved Solid (TDS)	9360	mg/l	10	1
<u>1-99</u>	(290506024	5)	Sampled	on 05/05/09 08:03				
	05/23/09 00:00	485932	(EPA 314) Perchlorate	405000	ug/l	20000	5000
06/01/09	06/08/09 00:00	487106	(ML/EPA 6010B) Chromium, Total, ICAP	0.43	mg/l	0.020	2
	06/04/09 00:00		(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34	483780	(ML/EPA 9040B) PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
5/12/09	05/12/09 21:30	484870	(E160.1/SM2540	C) Total Dissolved Solid (TDS)	4650	mg/l	10	1



Laboratory Data Report #270390

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Tronox LLC - Henderson (continued)

repared	Analyzed QC F	Ref# Method	Analyte	Result	Units	MRL	Dilution
M-37	(2905060246)	Sampled	on 05/05/09 10:42				
	05/15/09 03:08 4851	169 (ML/EPA 9056) Chlorate by IC	16700	ug/l	1000	100
	05/23/09 00:00 4859	932 (EPA 314) Perchlorate	1690000	ug/l	200000	50000
6/01/09	06/07/09 00:00 4871	102 (ML/EPA 6010B) Chromium, Total, ICAP	0.025	mg/l	0.020	2
	05/06/09 18:19 4840	012 (ML/EPA 7196) Hexavalent chromium (Cr VI)	0.006 (H3)	mg/l	0.0050	1
	06/04/09 00:00	(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 18:49 4837	778 (ML/EPA 9056) Nitrate as Nitrogen by IC	130	mg/l	5.0	50
	05/06/09 19:34 4837	780 (ML/EPA 9040B) PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
5/12/09	05/12/09 21:30 4848	870 (E160.1/SM2540	C) Total Dissolved Solid (TDS)	4360	mg/l	10	1
4D-4	(2905060247)	Sampled	on 05/05/09 00:00				
	05/28/09 07:30 4863	373 (EPA 314) Perchlorate	25200	ug/l	2000	500
6/01/09	06/07/09 00:00 4871	102 (ML/EPA 6010B) Chromium, Total, ICAP	0.076	mg/l	0.020	2
	06/04/09 00:00	(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34 4837	780 (ML/EPA 9040B) PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/12/09	05/12/09 21:30 4848	870 (E160.1/SM254(C) Total Dissolved Solid (TDS)	3200	mg/l	10	1
EB-1	(2905060248)	Sampled	on 05/05/09 10:45				
	05/23/09 00:00 4859	932 (EPA 314) Perchlorate	159	ug/l	8.0	2
5/15/09	05/25/09 00:00 4863	389 (ML/EPA 6010B) Chromium, Total, ICAP	ND	mg/l	0.020	2
	05/06/09 18:19 4840	012 (ML/EPA 7196) Hexavalent chromium (Cr VI)	ND (H3)	mg/l	0.0050	1
	05/18/09 15:56	(EPA 200 Prep) Metals digestion performed.	Y	Yes/No	0	1
	05/06/09 19:34 483	780 (ML/EPA 9040B) PH (H3=past HT, not compliant)	6.3	Units	0.0010	1
5/12/09	05/12/09 21:30 4840	870 (E160.1/SM2540	C) Total Dissolved Solid (TDS)	ND	mg/l	10	1

Laboratory QC Summary #270390



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Tronox LLC - Henderson

QC	Ref	#4837	78	- Nit	rate as :	Nitro	ogen	by IC	Ana	lysis	Date:	05/06/2009	· ·
				0244 0246		M-25 M-37							
QC	Ref	#4837	79	- PH	(H3=past	HT,	not	complia	ant)Ana	lysis	Date:	05/06/2009)
		29	0506	0238		I-AA	Ą						
QC	Ref	#4837	80	- PH	(H3=past	HT,	not	complia	ant)Ana	lysis	Date:	05/06/2009	9
		29 29 29 29 29 29 29 29	0506 0506 0506 0506 0506 0506 0506	0239 0240 0241 0242 0243 0244 0245 0246 0246 0247 0248		M-13 M-57 M-79 M-69 M-13 M-29 M-37 MD-4 EB-1	7A 9 35 5 9 7 4						
QC	Ref	#4840	12	- Hez	cavalent	chror	nium	(Cr VI)) Ana	lysis	Date:	05/06/2009	Ð

2905060246	M-37
2905060248	EB-1

QC Ref #484870 - Total Dissolved Solid (TDS) Analysis Date: 05/12/2009

2905060243	M-135
2905060244	M-25
2905060245	M-99
2905060246	M-37
2905060247	MD-4
2905060248	EB-1

Laboratory QC Summary #270390



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Tronox LLC - Henderson (continued)

QC Ref #484871 - Total Disso]	lved Solid (TDS)	Analysis Date:	05/12/2009
2905060240 2905060241	I-AA M-131 M-57A M-79 M-69	·	
QC Ref #485169 - Chlorate by	IC	Analysis Date:	05/15/2009
2905060246	M-37		
QC Ref #485621 - Perchlorate		Analysis Date:	05/21/2009
2905060239	I-AA M-131 M-57A		
QC Ref #485929 - Perchlorate		Analysis Date:	05/23/2009
2905060241	M-79		
QC Ref #485932 - Perchlorate		Analysis Date:	05/23/2009
2905060243 2905060244 2905060245	M-69 M-135 M-25 M-99 M-37 EB-1		
QC Ref #485939 - Chlorate by	IC	Analysis Date:	05/23/2009

Laboratory QC Summary #270390



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Tronox LLC - Henderson (continued)

QC Ref #486373 - Perchlorat	e	Analysis Date:	05/28/2009
2905060247	MD-4		
QC Ref #486388 - Chromium,	Total, ICAP	Analysis Date:	05/25/2009
	M-57A M-79 M-135		
QC Ref #486389 - Chromium,	Total, ICAP	Analysis Date:	05/25/2009
2905060242	I-AA M-131 M-69 M-25 EB-1		
QC Ref #487102 - Chromium, 2905060246 2905060247	Total, ICAP M-37 MD-4	Analysis Date:	06/07/2009
QC Ref #487106 - Chromium, 2905060245	Total, ICAP M-99	Analysis Date:	06/08/2009



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Tronox LLC - Henderson

QC Ref #483778 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	20090505022	4MGL		(0-0)
LCS1	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	(90-110)
LCS2	Nitrate as Nitrogen by IC	2.5	2.43	MGL	97.2	(90-110)
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL		
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.050	MGL	100.0	(50-150)
MS	Nitrate as Nitrogen by IC	1.25	1.25	MGL	100.0	(87-121)
MSD	Nitrate as Nitrogen by IC	1.25	1.27	MGL	101.6	(87-121)
RPD_LCS	Nitrate as Nitrogen by IC	99.600	97.200	MGL	2.4	(0-20)
RPD_MS	Nitrate as Nitrogen by IC	100.000	101.600	MGL	1.6	(0-20)

QC Ref #483779 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.73	7.71	UNIT		(0-20)	0.3

QC Ref #483780

PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	6.34	6.19	UNIT		(0-20)	2.4

QC Ref #484012

Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060248	MGL		(0-0)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.056	MGL	112.0	(85-115)
LCS2	Hexavalent chromium (Cr VI)	0.050	0.057	MGL	114.0	(85-115)
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL		
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)
MS	Hexavalent chromium (Cr VI)	0.05	0.057	MGL	114.0	(70-130)
MSD	Hexavalent chromium (Cr VI)	0.05	0.058	MGL	116.0	(70-130)



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Tronox LLC - Henderson (continued)

QC Ref #484870 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060243	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	3470	3440	MGL		(0-10)	0.9
LCS1	Total Dissolved Solid (TDS)	175	164	MGL	93.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	680	MGL	97.1	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	8	MGL	80.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	93.714	97.143	MGL	3.6	(0-20)	

QC Ref #484871

Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060169	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	590	576	MGL		(0-10)	2.4
LCS1	Total Dissolved Solid (TDS)	175	182	MGL	104.0	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	690	MGL	98.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	104.000	98.571	MGL	5.4	(0-20)	

QC Ref #485169

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%))
AASPKSMP	Spiked sample	Lab # 29	05130001	UGL		(0-0)	
LCS1	Chlorate by IC	200	199	UGL	99.5	(90-110)	
LCS2	Chlorate by IC	200	199	UGL	99.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.0	UGL	100.0	(50-150)	
MS	Chlorate by IC	100	101	UGL	101.0	(75-125)	
MSD	Chlorate by IC	100	101	UGL	101.0	(75-125)	



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Tronox LLC - Henderson (continued)

RPD_LCS	Chlorate by IC	99.500	99.500	UGL	0.0	(0-20)
RPD_MS	Chlorate by IC	101.000	101.000	UGL	0.0	(0-20)

Perchlorate

QC Ref #485621

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RP	D (%)
MS	Spiked sample	Lab # 29	05120486	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS2	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	
LCS3	Perchlorate	4	4.40	UGL	110.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
MSD	Perchlorate	25.0	26.3	UGL	105.2	(80-120)	
RPD_LCS	Perchlorate	95.200	96.000	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	98.800	105.200	UGL	1.1	(0-15)	

QC Ref #485929

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
MS	Spiked sample	Lab # 29	05180006	UGL		(0-0)
LCS1	Perchlorate	25.0	24.7	UGL	98.8	(85-115)
LCS2	Perchlorate	25.0	25.2	ŲGL	100.8	(85-115)
LCS3	Perchlorate	4.0	4.10	UGL	102.5	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
мз	Perchlorate	25.0	23.6	UGL	94.4	(80-120)
MSD	Perchlorate	25.0	23.0	UGL	92.0	(80-120)
RPD_LCS	Perchlorate	98.800	100.800	UGL	2.0	(0-15)
RPD_MS	Perchlorate	94.400	92.000	UGL	1.0	(0-15)



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Tronox LLC - Henderson (continued)

QC Ref #485932 F

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
MS	Spiked sample	Lab # 29	05130453	UGL		(0-0)
LCS1	Perchlorate	25.0	22.4	UGL	89.6	(85-115)
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)
LCS3	Perchlorate	4.0	3.86	UGL	96.5	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	22.4	UGL	89.6	(80-120)
MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)
RPD_LCS	Perchlorate	89.600	96.800	UGL	7.7	(0-15)
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	(0-15)

QC Ref #485939

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210040	UGL		(0-0)	
LCS1	Chlorate by IC	200	201	UGL	100.5	(90-110)	
LCS2	Chlorate by IC	200	201	UGL	100.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.99	UGL	89.9	(50-150)	
MS	Chlorate by IC	100	102	UGL	102.0	(75-125)	
MSD	Chlorate by IC	100	102	UGL	102.0	(75-125)	
RPD_LCS	Chlorate by IC	100.500	100.500	UGL	0.0	(0-20)	
RPD_MS	Chlorate by IC	102.000	102.000	UGL	0.0	(0-20)	

QC Ref #486373

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05120284	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	



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Tronox LLC - Henderson (continued)

LCS3	Perchlorate	4	4.45	UGL	111.2	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)
MSD	Perchlorate	25.0	25.3	UGL	101.2	(80-120)
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	(0-15)
RPD_MS	Perchlorate	101.600	101.200	UGL	1.0	(0-15)

QC Ref #486388

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05050089	MGL		(0-0)
LCS1	Chromium, Total, ICAP	1.00	0.920	MGL	92.0	(85-115)
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)
MS	Chromium, Total, ICAP	1.00	0.947	MGL	94.7	(70-130)
MS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(70-130)
MSD	Chromium, Total, ICAP	1.00	0.973	mgl	97.3	(70-130)
MSD2	Chromium, Total, ICAP	1.00	0.963	MGL	96.3	(70-130)

QC Ref #486389

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060194	MGL		(0-0)
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)
LCS2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(85-115)
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)
MS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)
MSD	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(70-130)
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)



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Tronox LLC - Henderson (continued)

QC Ref #487102 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060129	MGL		(0-0)
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(85-115)
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	(50-150)
MS	Chromium, Total, ICAP	1.00	0.911	MGL	91.1	(70-130)
MS2	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	(70-130)
MSD	Chromium, Total, ICAP	1.00	0.921	MGL	92.1	(70-130)
MSD2	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	(70-130)

QC Ref #487106 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%) RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110095	MGL		(0-0)
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(85-115)
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)
MS	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(70-130)
MSD	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	(70-130)
MSD2	Chromium, Total, ICAP	1.00	0.991	MGL	99.1	(70-130)