



# MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
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  
Jul 01 2008  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 242866  
Project: CLO4  
PO#: Susan Crowle

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 31 page[s].



## MWH Laboratories

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750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: 626 366 1100  
Fax: 626 388 1101  
1 800 566 LABS (1 800 566 5227)

July 2, 2008

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

Subject: Case Narrative report 242866

Enclosed is MWH Laboratories Report 242866

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on June 3, 2008 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.

Blank spike recoveries were high for several compounds on the VOA list, however all results for those compounds were ND and therefore data are acceptable per NELAC.

The low level TDS blank spike was recovered slightly low, however the higher level spike was within acceptance limits. TDS values are consistent with historical data.

Note that ion chromatography tests with holding times greater than 72 hours do not have actual analysis times shown on the hardcopy. Instead they either have 00:00 or the time of injection of the first sample in the batch.

Sincerely,

Andrew Eaton, PhD  
Project Manager



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

242866

MW/LABS USE ONLY:

750 Royal Oaks Ave, Suite 100, Monrovia, CA. 91016

(626) 386-1100 (600) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: SAS

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE:  FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

UIC permit - Water Supply Profile 1

KERRMCGEE-MP

Sampler Michele Brown

Michele Brown  
Susan Crowley (702) 651-2234

Kerr-McGee Chemical LLC  
PO Box 55  
Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SEE BOTTLE ORDER

SAMPLER COMMENTS

MATRIX \*  
GRAB  
COMP

IDENTIFIER, STATE ID#

LOCATION

DATE

RSW

Stabilized Water

6/2/2008

10:00

X

X

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chlor(amin)ated Finished Water  
FW = Other Finished Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

Reported by Weight:  
SO = Soil  
SL = Sludge

CWW = Chlorinated Waste Water  
WW = Other Waste Water  
SW = Storm Water

SIGNATURE

PRINT NAME

COMPANY/TITLE

TIME

RELINQUISHED BY: Michele Brown  
RECEIVED BY: for safety JOE SANACEZ  
RELINQUISHED BY: MW  
RECEIVED BY:

Veolia Water NA for Kerr-McGee Chemical LLC

6/2/2008

1200pm

**Bottle Order for Ironox, LLC- Henderson Standing**

MWH Laboratories, a Division of MWH Americas, Inc.  
 750 Royal Oaks Avenue Suite 100  
 Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

Client Code KERRMCGEE-MP  
 Project Code CLO4  
 PO# / Job#  
 Blanket PO

M Monthly  
 Week 1

Andrew Eaton, Your MWH Project Manager  
 (626) 386-1125 Direct Phone/Voice Mail

SO# 42584 12996 RS  
 Created by MWH  
 Order Date 05/12/08  
 Date Needed / Client

Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

Send Report to  
 Ironox, LLC- Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

Billing Address  
 Ironox, LLC  
 Attn: Accounts Payable  
 P.O. BOX 268859  
 Oklahoma City, OK 73126-8859

ATTN: Susan Crowley  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

ATTN: Susan Crowley  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

Quote# MWH

of Samples Tests Bottles-Qty for each sample, type & preservative if any UN# Important Comments

of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
3	@VOAPP	3 40ml amber glass vials+ 4 drops HCL(36%)	UN 1789	Monthly standing order - sampleID= Stabilized Water
1	CLO4	1 125ml poly /no preservative	UN 1824	
1	WCN	1 250 ml poly +1 ml NaOH (25%)	UN 2031	
4	GEN MIN, METALS, B	4: 2 500ml poly +1 125ml poly no pres& 1 250ml acid rinsed+1 ml HNO3		
(profile consists of: voapp, pb-ms, mg, mn-ms, clo4, ni-ms,ph, k, se-ms, wcn, ag-ms, na, so4, tl-ms alk tds, zn al-ms, sb-ms, ba-ms, be-ms B, cd-ms, ca, cl, cr-ms cu-ms, f, fe             )				
Please sample the second FULL week of Each month (e.g. wk of 5/12) except in January 2003 (wk of 1/20)				

Prepared By

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.

SHIPPER'S NUMBER: 143161

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 tariff if this is a motor carrier 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 <b>Federal Express</b>		Date <b>06/02/08</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization <b>S. CROWLEY</b>	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER <b>TRONOX LLC</b>	
NWAR		CUSTOMER PO OR REQ'N NO.	CODE NO. <b>WCN IS</b>
SHIPPED FROM <b>Henderson, NV</b>		<b>1321.10400</b> If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	<b>Ice Chest with water samples</b>		<b>1 COOLER</b>
	<b>Stabilized Water.</b>		
	<b>One Ice chest @21 lbs</b>		
	<b>Not Regulated</b>		
TRUCK SHIPMENTS			Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. <b>TRONOX LLC</b>
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO    PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
		<b>0</b>	
<b>1</b>	TOTAL GROSS WEIGHT <b>21</b>	TOTAL TARE WEIGHT <b>0</b>	<b>21</b>
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per			FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.
"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"			
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.			
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859 Oklahoma City, OK 73126-8859	PER <b>Lemma Hunde</b>	AGENT	PER

From: Origin ID: LASA (702)651-2230  
TRONOX LLC  
TRONOX LLC  
8000 LAKE MEAD PARKWAY  
SHIPPING DEPARTMENT  
HENDERSON, NV 89015



CLS128797/2124

Ship Date: 02JUN08  
ActWgt: 21 LB  
System#: 2274147/INET8010  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref# MSO #143161 -21 Lbs  
Invoice #  
PO #  
Dept #

SHIP TO: 6265686400 **BILL SENDER**

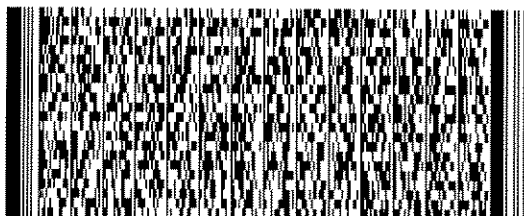
**ATTN: SAMPLE RECEIVING  
MONTGOMERY WATSON LABS  
750 ROYAL OAKS DR # 100**

**MONROVIA, CA 910163629**

**TUE - 03JUN A2**

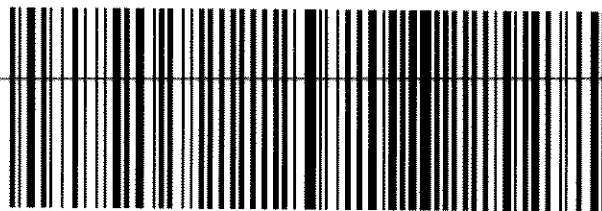
**PRIORITY OVERNIGHT**

TRK# 7905 1823 9101  
0201



**QZ WHPA**

**91016  
CA-US  
BUR**



**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 Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of 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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**MWH Laboratories**  
 750 Royal Oaks Drive, Monrovia, CA 91016  
 PHONE: 626-386-1100/FAX: 626-386-1101

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#: 242866  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **06/03/08**. 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 Scheduled	Matrix	Sample Date		
2806030741	STABILIZED WATER		Water	02-jun-2008 10:00:00		
	@VOAPP	AG-MS	AL-MS	ALK	ANION1	AS-MS
	B	BA-MS	BALANCE	BE-MS	CA	CATION1
	CD-MS	CL	CLO4	CO3	CR-MS	CU-MS
	EC	F	FE	HCO3	HG	K
	MG	MN-MS	NA	NI-MS	NO3	OH
	P	PB-MS	PH	SB-MS	SE-MS	SO4
	T	TDS	TL-MS	WCN	ZN	

Test Acronym Description

Test Acronym	Description
@VOAPP	Volatile Organics HSL
AG-MS	Silver, Total, ICAP/MS
AL-MS	Aluminum, Total, ICAP/MS
ALK	Alkalinity in CaCO3 units
ANION1	Anion Sum - Calculated
AS-MS	Arsenic, Total, ICAP/MS
B	Boron, Total, ICAP
BA-MS	Barium, Total, ICAP/MS
BALANCE	Ionic Balance - Calculated
BE-MS	Beryllium, Total, ICAP/MS
CA	Calcium, Total, ICAP
CATION1	Cation Sum - Calculated
CD-MS	Cadmium, Total, ICAP/MS
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CU-MS	Copper, Total, ICAP/MS
EC	Specific Conductance
F	Fluoride
FE	Iron, Total, ICAP

Tronox LLC - Henderson  
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 Henderson, NV 89009  
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 Phone: 702-651-2234

Customer Code: KERRMCGEE-MP  
 PO#: Susan Crowley PO  
 Group#: 242866  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
HCO3	Bicarb. Alkalinity as HCO3, calc
HG	Mercury
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
MN-MS	Manganese, Total, ICAP/MS
NA	Sodium, Total, ICAP
NI-MS	Nickel, Total, ICAP/MS
NO3	Nitrate as Nitrogen by IC
OH	Hydroxide as OH, Calculated
P	Metals sample pH
PB-MS	Lead, Total, ICAP/MS
PH	PH (H3-past HT, not compliant)
SB-MS	Antimony, Total, ICAP/MS
SE-MS	Selenium, Total, ICAP/MS
SO4	Sulfate
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)
TL-MS	Thallium, Total, ICAP/MS
WCN	Weak Acid Dissociable Cyanide
ZN	Zinc, Total, ICAP





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Tel: 626 386 1100  
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1 800 566 LABS (1 800 566 5227)

Report  
Comments  
#242866

## 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: 

(QC Ref#: 2806030741)

**Test: Methyl Chloride (ML/EPA 624)**

L3 - The associated blank spike recovery was above method acceptance limits.

**Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)**

L2 - The associated blank spike recovery was below lab acceptance limits.

**Test: Vinyl Chloride (VC) (ML/EPA 624)**

L3 - The associated blank spike recovery was above method acceptance limits.

**Test: Vinyl Acetate (ML/EPA 624)**

L3 - The associated blank spike recovery was above method acceptance limits.



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1 800 566 LASS (1 800 566 5227)

Laboratory  
Hits Report  
#242866

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

Samples Received  
03-jun-2008 17:33:52

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2806030741	STABILIZED WATER				
06/04/08		Chloroform (Trichloromethane)	0.6		ug/l	0.5
06/05/08		Alkalinity in CaCO3 units	142		mg/l	2.0
06/09/08		Anion Sum - Calculated	11.		meq/l	0.0010
06/17/08		Arsenic, Total, ICAP/MS	2.6	10	ug/l	1.0
06/17/08		Barium, Total, ICAP/MS	150	2000	ug/l	2.0
06/09/08		Bicarb.Alkalinity as HCO3,calc	173.		mg/l	2.0
06/04/08		Boron, Total, ICAP	0.15		mg/l	0.050
06/04/08		Calcium, Total, ICAP	80		mg/l	1.0
06/09/08		Cation Sum - Calculated	10.		meq/l	0.0010
06/03/08		Chloride	87	250	mg/l	5.0
06/05/08		Fluoride	0.26	4	mg/l	0.050
06/04/08		Iron, Total, ICAP	0.41	0.3	mg/l	0.020
06/04/08		Magnesium, Total, ICAP	29		mg/l	0.10
06/17/08		Manganese, Total, ICAP/MS	3.4	50	ug/l	2.0
06/03/08		Nitrate as Nitrogen by IC	0.66	10	mg/l	0.50
06/03/08		PH (H3=past HT, not compliant)	7.8	6.5-8.5	Units	0.010
06/04/08		Potassium, Total, ICAP	5		mg/l	1.0
06/04/08		Sodium, Total, ICAP	89		mg/l	1.0
06/04/08		Specific Conductance	1060		umho/cm	2.0
06/03/08		Sulfate	250	250	mg/l	2.5
06/04/08		Total Dissolved Solid (TDS)	632	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#242866

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

Samples Received  
06/03/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>STABILIZED WATER (2806030741)                      Sampled on 06/02/08 10:00</b>								
	06/17/08 13:41	432766	( ML/EPA 200.8 )	Silver, Total, ICAP/MS	ND	ug/l	0.50	1
	06/17/08 13:41	432778	( ML/EPA 200.8 )	Aluminum, Total, ICAP/MS	ND	ug/l	20	1
	06/05/08 00:00	430687	( SM 2320B )	Alkalinity in CaCO3 units	142	mg/l	2.0	1
	06/09/08 08:50		( ML/SM1030E )	Anion Sum - Calculated	11.	meq/l	0.0010	1
	06/17/08 13:41	432756	( ML/EPA 200.8 )	Arsenic, Total, ICAP/MS	2.6	ug/l	1.0	1
	06/04/08 21:35	430655	( ML/EPA 200.7 )	Boron, Total, ICAP	0.15	mg/l	0.050	1
	06/17/08 13:41	432775	( ML/EPA 200.8 )	Barium, Total, ICAP/MS	150	ug/l	2.0	1
	06/17/08 13:41	432746	( ML/EPA 200.8 )	Beryllium, Total, ICAP/MS	ND	ug/l	1.0	1
	06/04/08 21:35	430657	( ML/EPA 200.7 )	Calcium, Total, ICAP	80	mg/l	1.0	1
	06/09/08 08:35		( SM 1030E )	Cation Sum - Calculated	10.	meq/l	0.0010	1
	06/17/08 13:41	432769	( ML/EPA 200.8 )	Cadmium, Total, ICAP/MS	ND	ug/l	0.50	1
	06/03/08 20:05	430216	( ML/EPA 300.0 )	Chloride	87	mg/l	5.0	5
	06/18/08 08:19	433079	( EPA 314 )	Perchlorate	ND	ug/l	4.0	1
	06/09/08 08:23		( SM 2330B )	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
	06/17/08 13:41	432737	( ML/EPA 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	1.0	1
	06/17/08 13:41	432750	( ML/EPA 200.8 )	Copper, Total, ICAP/MS	ND	ug/l	2.0	1
	06/04/08 12:22	430357	( SM 2510B )	Specific Conductance	1060	umho/cm	2.0	1
	06/05/08 07:36	430676	( SM 4500F-C )	Fluoride	0.26	mg/l	0.050	1
	06/04/08 21:35	430661	( ML/EPA 200.7 )	Iron, Total, ICAP	0.41	mg/l	0.020	1
	06/09/08 08:20		( SM 2330B )	Bicarb.Alkalinity as HCO3,calc	173.	mg/l	2.0	1
	06/05/08 17:51	430846	( EPA 245.1 )	Mercury	ND	ug/l	0.20	1
	06/04/08 21:35	430646	( ML/EPA 200.7 )	Potassium, Total, ICAP	5	mg/l	1.0	1
	06/04/08 21:35	430649	( ML/EPA 200.7 )	Magnesium, Total, ICAP	29	mg/l	0.10	1
	06/17/08 13:41	432740	( ML/EPA 200.8 )	Manganese, Total, ICAP/MS	3.4	ug/l	2.0	1
	06/04/08 21:35	430653	( ML/EPA 200.7 )	Sodium, Total, ICAP	89	mg/l	1.0	1
	06/17/08 13:41	432747	( ML/EPA 200.8 )	Nickel, Total, ICAP/MS	ND	ug/l	5.0	1
	06/03/08 20:05	430222	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	0.66	mg/l	0.50	5
	06/11/08 08:11		( SM 2330B )	Hydroxide as OH, Calculated	ND	mg/l	2.0	1
	06/17/08 13:41	432782	( ML/EPA 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	0.50	1
	06/03/08 00:00	430202	( SM 4500-HB )	PH (H3=past HT, not compliant)	7.8	Units	0.010	1
	06/17/08 13:41	432772	( ML/EPA 200.8 )	Antimony, Total, ICAP/MS	ND	ug/l	1.0	1
	06/17/08 13:41	432760	( ML/EPA 200.8 )	Selenium, Total, ICAP/MS	ND	ug/l	5.0	1



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Laboratory  
 Data Report  
 #242866

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	06/03/08 20:05	430211	( ML/EPA 300.0 )	Sulfate	250	mg/l	2.5	5
06/03/08	06/04/08 12:00	430804	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	632 (L2)	mg/l	10	1
	06/17/08 13:41	432779	( ML/EPA 200.8 )	Thallium, Total, ICAP/MS	ND	ug/l	1.0	1
06/06/08	06/06/08 00:00	430837	( SM 4500CN-I )	Weak Acid Dissociable Cyanide	ND	mg/l	0.0050	1
	06/04/08 00:00	431597	( EPA/ML 200.7 )	Zinc, Total, ICAP	ND	mg/l	0.020	1
<b>Volatile Organics HSL</b>								
	06/04/08 14:53	430493	( EPA 624 )	1,1,2-Trichloroethane (1,1,2-T	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	1,1-Dichloroethylene (1,1DCE)	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	1,1-Dichloroethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	1,2-Dichloroethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	1,2-Dichloropropane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	2-Butanone (MEK)	ND	ug/l	10	1
	06/04/08 14:53	430493	( EPA 624 )	2-Hexanone	ND	ug/l	10	1
	06/04/08 14:53	430493	( EPA 624 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	10	1
	06/04/08 14:53	430493	( EPA 624 )	Acetone	ND	ug/l	10	1
	06/04/08 14:53	430493	( EPA 624 )	Acrolein (Screen)	ND	ug/l	50	1
	06/04/08 14:53	430493	( EPA 624 )	Acrylonitrile (Screen)	ND	ug/l	50	1
	06/04/08 14:53	430493	( EPA 624 )	Benzene	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	cis-1,2-Dichloroethene	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Chlorobenzene	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	cis-1,3-Dichloropropene	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Bromoform	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Chloroform (Trichloromethane)	0.6	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Chloroethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Carbon disulfide	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Carbon Tetrachloride	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Dibromochloromethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Dichlorobromomethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Ethyl benzene	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Dichlorodifluoromethane	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Methyl Bromide	ND	ug/l	0.5	1
	06/04/08 14:53	430493	( EPA 624 )	Methyl Chloride	ND (L3)	ug/l	0.5	1



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Laboratory  
Data Report  
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Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
06/04/08	14:53	430493	( EPA 624	) Methylene Chloride	ND	ug/l	3.0	1
06/04/08	14:53	430493	( EPA 624	) m,p-Xylenes	ND	ug/l	1.0	1
06/04/08	14:53	430493	( EPA 624	) o-Xylene	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Tetrachloroethylene (PCE)	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Styrene	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) trans-1,2-Dichloroethene	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) 1,1,1-Trichloroethane	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Trichloroethylene (TCE)	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Trichlorofluoromethane	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) trans-1,3-Dichloropropene	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Tetrahydrofuran	ND	ug/l	10	1
06/04/08	14:53	430493	( EPA 624	) Toluene	ND	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Vinyl Chloride (VC)	ND(L3)	ug/l	0.5	1
06/04/08	14:53	430493	( EPA 624	) Vinyl Acetate	ND(L3)	ug/l	10	1



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 QC Summary  
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Tronox LLC - Henderson

QC Ref #0	- Metals Turbidity	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: jrf
2806030741	STABILIZED WATER	Analyzed by: jrf
QC Ref #430202	- PH (H3=past HT, not compliant)	Analysis Date: 06/03/2008
2806030741	STABILIZED WATER	Analyzed by: sar
QC Ref #430211	- Sulfate	Analysis Date: 06/03/2008
2806030741	STABILIZED WATER	Analyzed by: sxk
QC Ref #430216	- Chloride	Analysis Date: 06/03/2008
2806030741	STABILIZED WATER	Analyzed by: sxk
QC Ref #430222	- Nitrate as Nitrogen by IC	Analysis Date: 06/03/2008
2806030741	STABILIZED WATER	Analyzed by: sxk
QC Ref #430357	- Specific Conductance	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: sar
QC Ref #430493	- Volatile Organics HSL	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: mad
QC Ref #430646	- Potassium, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk



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QC Ref #430649	- Magnesium, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk
QC Ref #430653	- Sodium, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk
QC Ref #430655	- Boron, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk
QC Ref #430657	- Calcium, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk
QC Ref #430661	- Iron, Total, ICAP	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: csk
QC Ref #430676	- Fluoride	Analysis Date: 06/05/2008
2806030741	STABILIZED WATER	Analyzed by: yvette
QC Ref #430687	- Alkalinity in CaCO3 units	Analysis Date: 06/05/2008
2806030741	STABILIZED WATER	Analyzed by: anh
QC Ref #430804	- Total Dissolved Solid (TDS)	Analysis Date: 06/04/2008
2806030741	STABILIZED WATER	Analyzed by: axa



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Tronox LLC - Henderson  
(continued)

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QC Ref #430837 - Weak Acid Dissociable Cyanide Analysis Date: 06/06/2008

2806030741 STABILIZED WATER Analyzed by: lupe

QC Ref #430846 - Mercury Analysis Date: 06/05/2008

2806030741 STABILIZED WATER Analyzed by: azs

~~QC Ref #431597 - Zinc, Total, ICAP Analysis Date: 06/04/2008~~

~~2806030741 STABILIZED WATER Analyzed by: csk~~

QC Ref #432737 - Chromium, Total, ICAP/MS Analysis Date: 06/17/2008

2806030741 STABILIZED WATER Analyzed by: dtn

QC Ref #432740 - Manganese, Total, ICAP/MS Analysis Date: 06/17/2008

2806030741 STABILIZED WATER Analyzed by: dtn

QC Ref #432746 - Beryllium, Total, ICAP/MS Analysis Date: 06/17/2008

2806030741 STABILIZED WATER Analyzed by: dtn

QC Ref #432747 - Nickel, Total, ICAP/MS Analysis Date: 06/17/2008

2806030741 STABILIZED WATER Analyzed by: dtn

QC Ref #432750 - Copper, Total, ICAP/MS Analysis Date: 06/17/2008

2806030741 STABILIZED WATER Analyzed by: dtn





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Tronox LLC - Henderson  
(continued)

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QC Ref #432756	- Arsenic, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
QC Ref #432760	- Selenium, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
<del>QC Ref #432766</del>	<del>- Silver, Total, ICAP/MS</del>	<del>Analysis Date: 06/17/2008</del>
<del>2806030741</del>	<del>STABILIZED WATER</del>	<del>Analyzed by: dtn</del>
QC Ref #432769	- Cadmium, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
QC Ref #432772	- Antimony, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
QC Ref #432775	- Barium, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
QC Ref #432778	- Aluminum, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn
QC Ref #432779	- Thallium, Total, ICAP/MS	Analysis Date: 06/17/2008
2806030741	STABILIZED WATER	Analyzed by: dtn



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Tronox LLC - Henderson  
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QC Ref #432782 - Lead, Total, ICAP/MS

Analysis Date: 06/17/2008

2806030741

STABILIZED WATER

Analyzed by: dtn

QC Ref #433079 - Perchlorate

Analysis Date: 06/18/2008

2806030741

STABILIZED WATER

Analyzed by: raja

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QC Ref #430202 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06030546	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	7.21	7.23	UNIT		( 0-20 )	0.3

QC Ref #430211 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06030713	MGL		( 0-0 )	
LCS1	Sulfate	50	51.0	MGL	102.0	( 90-110 )	
LCS2	Sulfate	50	51.1	MGL	102.2	( 90-110 )	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.25	0.263	MGL	105.2	( 50-150 )	
MS	Sulfate	25	25.0	MGL	100.0	( 83-115 )	
MSD	Sulfate	25	25.0	MGL	100.0	( 83-115 )	
RPD_LCS	Sulfate	102.000	102.200	MGL	0.2	( 0-20 )	
RPD_MS	Sulfate	100.000	100.000	MGL	0.0	( 0-20 )	

QC Ref #430216 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06030713	MGL		( 0-0 )	
LCS1	Chloride	25	25.2	MGL	100.8	( 90-110 )	
LCS2	Chloride	25	25.3	MGL	101.2	( 90-110 )	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.434	MGL	86.8	( 50-150 )	
MS	Chloride	12.5	12.5	MGL	100.0	( 74-126 )	
MSD	Chloride	12.5	12.4	MGL	99.2	( 74-126 )	
RPD_LCS	Chloride	100.800	101.200	MGL	0.4	( 0-20 )	
RPD_MS	Chloride	100.000	99.200	MGL	0.8	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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Tronox LLC - Henderson  
(continued)

## QC Ref #430222 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06030713	MGL		( 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	2.48	MGL	99.2	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0514	MGL	102.8	( 50-150 )	
MS	Nitrate as Nitrogen by IC	1.25	1.23	MGL	98.4	( 80-112 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 80-112 )	
RPD_LCS	Nitrate as Nitrogen by IC	99.600	99.200	MGL	0.4	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	98.400	97.600	MGL	0.8	( 0-20 )	

## QC Ref #430357 Specific Conductance

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	1060	1070	UMHO		( 0-20 )	0.9
DUP2	Specific Conductance	12400	12400	UMHO		( 0-20 )	0.0
LCS1	Specific Conductance	1000	996	UMHO	99.6	( 90-110 )	
LCS2	Specific Conductance	1000	1000	UMHO	100.0	( 90-110 )	
MBLK	Specific Conductance	ND	<2.0	UMHO			
MRL_CHK	Specific Conductance	2.00	2.21	UMHO	110.5	( 50-150 )	

## QC Ref #430493 Volatile Organics HSL

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,2-Trichloroethane (1,1,2-T)	20	19.8	UGL	99.0	( 82-117 )	
LCS2	1,1,2-Trichloroethane (1,1,2-T)	20	19.2	UGL	96.0	( 82-117 )	
MBLK	1,1,2-Trichloroethane (1,1,2-T)	ND	<0.5	UGL			
MS	1,1,2-Trichloroethane (1,1,2-T)	10	10.9	UGL	109.0	( 82-130 )	
RPD_LCS	1,1,2-Trichloroethane (1,1,2-T)	99.000	96.000	UGL	3.1	( 0-20 )	
LCS1	1,1-Dichloroethylene (1,1DCE)	20	20.7	UGL	103.5	( 81-129 )	

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LCS2	1,1-Dichloroethylene (1,1DCE)	20	20.1	UGL	100.5	( 81-129 )
MBLK	1,1-Dichloroethylene (1,1DCE)	ND	<0.5	UGL		
MS	1,1-Dichloroethylene (1,1DCE)	10	12.9	UGL	129.0	( 82-140 )
RPD_LCS	1,1-Dichloroethylene (1,1DCE)	103.500	100.500	UGL	2.9	( 0-20 )
LCS1	1,1-Dichloroethane	20	19.7	UGL	98.5	( 85-120 )
LCS2	1,1-Dichloroethane	20	19.3	UGL	96.5	( 85-120 )
MBLK	1,1-Dichloroethane	ND	<0.5	UGL		
MS	1,1-Dichloroethane	10	11.2	UGL	112.0	( 84-133 )
RPD_LCS	1,1-Dichloroethane	98.500	96.500	UGL	2.1	( 0-20 )
LCS1	o-Dichlorobenzene (1,2-DCB)	20	19.4	UGL	97.0	( 88-118 )
LCS2	o-Dichlorobenzene (1,2-DCB)	20	20.1	UGL	100.5	( 88-118 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND	<0.5	UGL		
MS	o-Dichlorobenzene (1,2-DCB)	10	11.0	UGL	110.0	( 85-119 )
RPD_LCS	o-Dichlorobenzene (1,2-DCB)	97.000	100.500	UGL	3.5	( 0-20 )
LCS1	1,2-Dichloroethane	20	19.2	UGL	96.0	( 86-123 )
LCS2	1,2-Dichloroethane	20	19.2	UGL	96.0	( 86-123 )
MBLK	1,2-Dichloroethane	ND	<0.5	UGL		
MS	1,2-Dichloroethane	10	10.6	UGL	106.0	( 81-133 )
RPD_LCS	1,2-Dichloroethane	96.000	96.000	UGL	0.0	( 0-20 )
LCS1	1,2-Dichloropropane	20	19.9	UGL	99.5	( 84-112 )
LCS2	1,2-Dichloropropane	20	19.8	UGL	99.0	( 84-112 )
MBLK	1,2-Dichloropropane	ND	<0.5	UGL		
MS	1,2-Dichloropropane	10	11.2	UGL	112.0	( 83-123 )
RPD_LCS	1,2-Dichloropropane	99.500	99.000	UGL	0.5	( 0-20 )
LCS1	m-Dichlorobenzene (1,3-DCB)	20	20.2	UGL	101.0	( 81-139 )
LCS2	m-Dichlorobenzene (1,3-DCB)	20	19.2	UGL	96.0	( 81-139 )
MBLK	m-Dichlorobenzene (1,3-DCB)	ND	<0.5	UGL		
MS	m-Dichlorobenzene (1,3-DCB)	10	11.2	UGL	112.0	( 82-136 )
RPD_LCS	m-Dichlorobenzene (1,3-DCB)	101.000	96.000	UGL	5.1	( 0-20 )
LCS1	p-Dichlorobenzene (1,4-DCB)	20	20.6	UGL	103.0	( 83-140 )
LCS2	p-Dichlorobenzene (1,4-DCB)	20	19.9	UGL	99.5	( 83-140 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND	<0.5	UGL		
MS	p-Dichlorobenzene (1,4-DCB)	10	11.3	UGL	113.0	( 80-135 )
RPD_LCS	p-Dichlorobenzene (1,4-DCB)	103.000	99.500	UGL	3.5	( 0-20 )
LCS1	2-Butanone (MEK)	200	197	UGL	98.5	( 71-120 )
LCS2	2-Butanone (MEK)	200	196	UGL	98.0	( 71-120 )

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## Tronox LLC - Henderson (continued)

MBLK	2-Butanone (MEK)	ND	<10	UGL		
MS	2-Butanone (MEK)	100	92.6	UGL	92.6	( 53-126 )
RPD_LCS	2-Butanone (MEK)	98.500	98.000	UGL	0.5	( 0-20 )
LCS1	2-Hexanone	200	201	UGL	100.5	( 75-115 )
LCS2	2-Hexanone	200	202	UGL	101.0	( 75-115 )
MBLK	2-Hexanone	ND	<10	UGL		
MS	2-Hexanone	100	97.2	UGL	97.2	( 58-139 )
RPD_LCS	2-Hexanone	100.500	101.000	UGL	0.5	( 0-20 )
LCS1	4-Methyl-2-Pentanone (MIBK)	200	209	UGL	104.5	( 76-118 )
LCS2	4-Methyl-2-Pentanone (MIBK)	200	211	UGL	105.5	( 76-118 )
MBLK	4-Methyl-2-Pentanone (MIBK)	ND	<10	UGL		
MS	4-Methyl-2-Pentanone (MIBK)	100	105	UGL	105.0	( 64-142 )
RPD_LCS	4-Methyl-2-Pentanone (MIBK)	104.500	105.500	UGL	1.0	( 0-20 )
MS	Spiked sample	Lab # 28	05220361	NONE		( 0-0 )
LCS1	Acetone	200	161	UGL	80.5	( 61-125 )
LCS2	Acetone	200	171	UGL	85.5	( 61-125 )
MBLK	Acetone	ND	<10	UGL		
MS	Acetone	100	59.5	UGL	59.5	( 17-132 )
RPD_LCS	Acetone	80.500	85.500	UGL	6.0	( 0-20 )
LCS1	Benzene	20	20.2	UGL	101.0	( 89-119 )
LCS2	Benzene	20	19.2	UGL	96.0	( 89-119 )
MBLK	Benzene	ND	<0.5	UGL		
MS	Benzene	10	11.2	UGL	112.0	( 85-131 )
RPD_LCS	Benzene	101.000	96.000	UGL	5.1	( 0-20 )
LCS1	cis-1,2-Dichloroethene	20	18.8	UGL	94.0	( 85-117 )
LCS2	cis-1,2-Dichloroethene	20	18.4	UGL	92.0	( 85-117 )
MBLK	cis-1,2-Dichloroethene	ND	<0.5	UGL		
MS	cis-1,2-Dichloroethene	10	10.7	UGL	107.0	( 85-132 )
RPD_LCS	cis-1,2-Dichloroethene	94.000	92.000	UGL	2.2	( 0-20 )
LCS1	Chlorobenzene	20	19.2	UGL	96.0	( 88-118 )
LCS2	Chlorobenzene	20	18.8	UGL	94.0	( 88-118 )
MBLK	Chlorobenzene	ND	<0.5	UGL		
MS	Chlorobenzene	10	10.4	UGL	104.0	( 87-126 )
RPD_LCS	Chlorobenzene	96.000	94.000	UGL	2.1	( 0-20 )
LCS1	cis-1,3-Dichloropropene	20	19.8	UGL	99.0	( 75-109 )
LCS2	cis-1,3-Dichloropropene	20	19.7	UGL	98.5	( 75-109 )

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Tronox LLC - Henderson  
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MBLK	cis-1,3-Dichloropropene	ND	<0.5	UGL		
MS	cis-1,3-Dichloropropene	10	9.73	UGL	97.3	( 50-133 )
RPD_LCS	cis-1,3-Dichloropropene	99.000	98.500	UGL	0.5	( 0-20 )
LCS1	Bromoform	20	19.6	UGL	98.0	( 75-129 )
LCS2	Bromoform	20	19.6	UGL	98.0	( 75-129 )
MBLK	Bromoform	ND	<0.5	UGL		
MS	Bromoform	10	10.1	UGL	101.0	( 68-131 )
RPD_LCS	Bromoform	98.000	98.000	UGL	0.0	( 0-20 )
LCS1	Chloroform (Trichloromethane)	20	19.8	UGL	99.0	( 85-121 )
LCS2	Chloroform (Trichloromethane)	20	18.8	UGL	94.0	( 85-121 )
MBLK	Chloroform (Trichloromethane)	ND	<0.5	UGL		
MS	Chloroform (Trichloromethane)	10	11.0	UGL	110.0	( 81-140 )
RPD_LCS	Chloroform (Trichloromethane)	99.000	94.000	UGL	5.2	( 0-20 )
LCS1	Chloroethane	20	21.8	UGL	109.0	( 76-127 )
LCS2	Chloroethane	20	24.0	UGL	120.0	( 76-127 )
MBLK	Chloroethane	ND	<0.5	UGL		
MS	Chloroethane	10	ND	UGL		( 58-159 )
RPD_LCS	Chloroethane	109.000	120.000	UGL	9.6	( 0-20 )
LCS1	Carbon disulfide	20	21.0	UGL	105.0	( 73-129 )
LCS2	Carbon disulfide	20	20.4	UGL	102.0	( 73-129 )
MBLK	Carbon disulfide	ND	<0.5	UGL		
MS	Carbon disulfide	10	13.4	UGL	134.0	( 80-138 )
RPD_LCS	Carbon disulfide	105.000	102.000	UGL	2.9	( 0-20 )
LCS1	Carbon Tetrachloride	20	19.4	UGL	97.0	( 79-124 )
LCS2	Carbon Tetrachloride	20	19.0	UGL	95.0	( 79-124 )
MBLK	Carbon Tetrachloride	ND	<0.5	UGL		
MS	Carbon Tetrachloride	10	9.59	UGL	95.9	( 77-145 )
RPD_LCS	Carbon Tetrachloride	97.000	95.000	UGL	2.1	( 0-20 )
LCS1	Dibromochloromethane	20	18.9	UGL	94.5	( 79-118 )
LCS2	Dibromochloromethane	20	18.3	UGL	91.5	( 79-118 )
MBLK	Dibromochloromethane	ND	<0.5	UGL		
MS	Dibromochloromethane	10	10.1	UGL	101.0	( 78-133 )
RPD_LCS	Dibromochloromethane	94.500	91.500	UGL	3.2	( 0-20 )
LCS1	Dichlorobromomethane	20	18.7	UGL	93.5	( 80-115 )
LCS2	Dichlorobromomethane	20	18.0	UGL	90.0	( 80-115 )
MBLK	Dichlorobromomethane	ND	<0.5	UGL		

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MS	Dichlorobromomethane	10	10.1	UGL	101.0	( 81-132 )
RPD_LCS	Dichlorobromomethane	93.500	90.000	UGL	3.8	( 0-20 )
LCS1	Ethyl benzene	20	20.5	UGL	102.5	( 83-115 )
LCS2	Ethyl benzene	20	19.6	UGL	98.0	( 83-115 )
MBLK	Ethyl benzene	ND	<0.5	UGL		
MS	Ethyl benzene	10	11.2	UGL	112.0	( 85-128 )
RPD_LCS	Ethyl benzene	102.500	98.000	UGL	4.5	( 0-20 )
LCS1	Dichlorodifluoromethane	20	22.0	UGL	110.0	( 63-131 )
LCS2	Dichlorodifluoromethane	20	21.6	UGL	108.0	( 63-131 )
MBLK	Dichlorodifluoromethane	ND	<0.5	UGL		
MS	Dichlorodifluoromethane	10	11.2	UGL	112.0	( 74-151 )
RPD_LCS	Dichlorodifluoromethane	110.000	108.000	UGL	1.8	( 0-20 )
LCS1	Methyl Bromide	20	23.5	UGL	117.5	( 58-145 )
LCS2	Methyl Bromide	20	23.4	UGL	117.0	( 58-145 )
MBLK	Methyl Bromide	ND	<0.5	UGL		
MS	Methyl Bromide	10	11.2	UGL	112.0	( 48-158 )
RPD_LCS	Methyl Bromide	117.500	117.000	UGL	0.4	( 0-20 )
LCS1	Methyl Chloride	20	27.4	UGL	<u>137.0</u>	( 76-126 )
LCS2	Methyl Chloride	20	25.8	UGL	<u>129.0</u>	( 76-126 )
MBLK	Methyl Chloride	ND	<0.5	UGL		
MS	Methyl Chloride	10	379	UGL	<u>3790.0</u>	( 68-141 )
RPD_LCS	Methyl Chloride	137.000	129.000	UGL	6.0	( 0-20 )
LCS1	Methylene Chloride	20	18.4	UGL	92.0	( 83-123 )
LCS2	Methylene Chloride	20	18.1	UGL	90.5	( 83-123 )
MBLK	Methylene Chloride	ND	<3.0	UGL		
MS	Methylene Chloride	10	10.9	UGL	109.0	( 83-134 )
RPD_LCS	Methylene Chloride	92.000	90.500	UGL	1.6	( 0-20 )
LCS1	m,p-Xylenes	40	39.8	UGL	99.5	( 89-120 )
LCS2	m,p-Xylenes	40	38.4	UGL	96.0	( 89-120 )
MBLK	m,p-Xylenes	ND	<1.0	UGL		
MS	m,p-Xylenes	20	21.8	UGL	109.0	( 85-139 )
RPD_LCS	m,p-Xylenes	99.500	96.000	UGL	3.6	( 0-20 )
LCS1	o-Xylene	20	19.6	UGL	98.0	( 84-111 )
LCS2	o-Xylene	20	19.3	UGL	96.5	( 84-111 )
MBLK	o-Xylene	ND	<0.5	UGL		
MS	o-Xylene	10	10.6	UGL	106.0	( 50-150 )

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RPD_LCS	<u>o-Xylene</u>	98.000	96.500	UGL	1.5	( 0-20 )
LCS1	1,1,2,2-Tetrachloroethane	20	21.3	UGL	106.5	( 83-131 )
LCS2	1,1,2,2-Tetrachloroethane	20	20.8	UGL	104.0	( 83-131 )
MBLK	1,1,2,2-Tetrachloroethane	ND	<0.5	UGL		
MS	1,1,2,2-Tetrachloroethane	10	10.8	UGL	108.0	( 83-127 )
RPD_LCS	1,1,2,2-Tetrachloroethane	106.500	104.000	UGL	2.4	( 0-20 )
LCS1	Tetrachloroethylene (PCE)	20	20.6	UGL	103.0	( 81-132 )
LCS2	Tetrachloroethylene (PCE)	20	19.6	UGL	98.0	( 81-132 )
MBLK	Tetrachloroethylene (PCE)	ND	<0.5	UGL		
MS	Tetrachloroethylene (PCE)	10	11.6	UGL	116.0	( 83-143 )
RPD_LCS	Tetrachloroethylene (PCE)	103.000	98.000	UGL	5.0	( 0-20 )
LCS1	Styrene	20	19.9	UGL	99.5	( 83-115 )
LCS2	Styrene	20	19.4	UGL	97.0	( 83-115 )
MBLK	Styrene	ND	<0.5	UGL		
MS	Styrene	10	10.5	UGL	105.0	( 56-140 )
RPD_LCS	Styrene	99.500	97.000	UGL	2.5	( 0-20 )
LCS1	1,2-dichloroethane-d4	100	95	%R	95.0	( 70-130 )
LCS2	1,2-dichloroethane-d4	100	98	%R	98.0	( 70-130 )
MBLK	1,2-dichloroethane-d4	100	96	%R	96.0	
MS	1,2-dichloroethane-d4	100	98	%R	98.0	( 70-130 )
RPD_LCS	1,2-dichloroethane-d4	95.000	98.000	%R	3.1	( 0-20 )
LCS1	Toluene-d8	100	102	%R	102.0	( 70-130 )
LCS2	Toluene-d8	100	102	%R	102.0	( 70-130 )
MBLK	Toluene-d8	100	90	%R	90.0	
MS	Toluene-d8	100	102	%R	102.0	( 70-130 )
RPD_LCS	Toluene-d8	102.000	102.000	%R	0.0	( 0-20 )
LCS1	4-Bromofluorobenzene	100	103	%R	103.0	( 70-130 )
LCS2	4-Bromofluorobenzene	100	97	%R	97.0	( 70-130 )
MBLK	4-Bromofluorobenzene	100	101	%R	101.0	
MS	4-Bromofluorobenzene	100	100	%R	100.0	( 70-130 )
RPD_LCS	4-Bromofluorobenzene	103.000	97.000	%R	6.0	( 0-20 )
LCS1	trans-1,2-Dichloroethene	20	20.1	UGL	100.5	( 84-126 )
LCS2	trans-1,2-Dichloroethene	20	19.5	UGL	97.5	( 84-126 )
MBLK	trans-1,2-Dichloroethene	ND	<0.5	UGL		
MS	trans-1,2-Dichloroethene	10	11.0	UGL	110.0	( 82-136 )
RPD_LCS	trans-1,2-Dichloroethene	100.500	97.500	UGL	3.0	( 0-20 )

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LCS1	1,1,1-Trichloroethane	20	19.4	UGL	97.0	( 82-121 )
LCS2	1,1,1-Trichloroethane	20	19.0	UGL	95.0	( 82-121 )
MBLK	1,1,1-Trichloroethane	ND	<0.5	UGL		
MS	1,1,1-Trichloroethane	10	11.1	UGL	111.0	( 84-137 )
RPD_LCS	1,1,1-Trichloroethane	97.000	95.000	UGL	2.1	( 0-20 )
LCS1	Trichloroethylene (TCE)	20	17.8	UGL	89.0	( 86-120 )
LCS2	Trichloroethylene (TCE)	20	17.4	UGL	87.0	( 86-120 )
MBLK	Trichloroethylene (TCE)	ND	<0.5	UGL		
MS	Trichloroethylene (TCE)	10	10.3	UGL	103.0	( 86-130 )
RPD_LCS	Trichloroethylene (TCE)	89.000	87.000	UGL	2.3	( 0-20 )
LCS1	Trichlorofluoromethane	20	24.5	UGL	122.5	( 76-133 )
LCS2	Trichlorofluoromethane	20	25.6	UGL	128.0	( 76-133 )
MBLK	Trichlorofluoromethane	ND	<0.5	UGL		
MS	Trichlorofluoromethane	10	11.1	UGL	111.0	( 75-153 )
RPD_LCS	Trichlorofluoromethane	122.500	128.000	UGL	4.4	( 0-20 )
LCS1	trans-1,3-Dichloropropene	20	18.7	UGL	93.5	( 71-114 )
LCS2	trans-1,3-Dichloropropene	20	18.6	UGL	93.0	( 71-114 )
MBLK	trans-1,3-Dichloropropene	ND	<0.5	UGL		
MS	trans-1,3-Dichloropropene	10	8.99	UGL	89.9	( 45-141 )
RPD_LCS	trans-1,3-Dichloropropene	93.500	93.000	UGL	0.5	( 0-20 )
LCS1	Tetrahydrofuran	200	196	UGL	98.0	( 79-121 )
LCS2	Tetrahydrofuran	200	202	UGL	101.0	( 79-121 )
MBLK	Tetrahydrofuran	ND	<10	UGL		
MS	Tetrahydrofuran	100	100	UGL	100.0	( 66-134 )
RPD_LCS	Tetrahydrofuran	98.000	101.000	UGL	3.0	( 0-20 )
LCS1	Toluene	20	19.9	UGL	99.5	( 88-118 )
LCS2	Toluene	20	19.0	UGL	95.0	( 88-118 )
MBLK	Toluene	ND	<0.5	UGL		
MS	Toluene	10	10.9	UGL	109.0	( 87-128 )
RPD_LCS	Toluene	99.500	95.000	UGL	4.6	( 0-20 )
LCS1	Vinyl Chloride (VC)	20	27.9	UGL	<u>139.5</u>	( 72-125 )
LCS2	Vinyl Chloride (VC)	20	27.4	UGL	<u>137.0</u>	( 72-125 )
MBLK	Vinyl Chloride (VC)	ND	<0.5	UGL		
MS	Vinyl Chloride (VC)	10	13.6	UGL	136.0	( 79-137 )
RPD_LCS	Vinyl Chloride (VC)	139.500	137.000	UGL	1.8	( 0-20 )
LCS1	Vinyl Acetate	100	131	UGL	<u>131.0</u>	( 61-125 )

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LCS2	Vinyl Acetate	100	129	UGL	<u>129.0</u>	( 61-125 )
MBLK	Vinyl Acetate	ND	<10	UGL		
MS	Vinyl Acetate	50	63.7	UGL	127.4	( 40-142 )
RPD_LCS	Vinyl Acetate	131.000	129.000	UGL	1.5	( 0-20 )

## QC Ref #430646 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Total, ICAP	20	17.9	MGL	89.5	( 85-115 )	
LCS2	Potassium, Total, ICAP	20	18.2	MGL	91.0	( 85-115 )	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	0.997	MGL	99.7	( 50-150 )	
MS	Potassium, Total, ICAP	20	18.9	MGL	94.5	( 70-130 )	
MS2	Potassium, Total, ICAP	20	19.2	MGL	96.0	( 70-130 )	
MSD	Potassium, Total, ICAP	20	19.3	MGL	96.5	( 70-130 )	
MSD2	Potassium, Total, ICAP	20	19.0	MGL	95.0	( 70-130 )	
RPD_LCS	Potassium, Total, ICAP	89.500	91.000	MGL	1.7	( 0-20 )	
RPD_MS	Potassium, Total, ICAP	94.500	96.500	MGL	2.1	( 0-20 )	

## QC Ref #430649 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Total, ICAP	20	18.9	MGL	94.5	( 85-115 )	
LCS2	Magnesium, Total, ICAP	20	19.3	MGL	96.5	( 85-115 )	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.105	MGL	105.0	( 50-150 )	
MS	Magnesium, Total, ICAP	20	19.6	MGL	98.0	( 70-130 )	
MS2	Magnesium, Total, ICAP	20	19.9	MGL	99.5	( 70-130 )	
MSD	Magnesium, Total, ICAP	20	20.0	MGL	100.0	( 70-130 )	
MSD2	Magnesium, Total, ICAP	20	19.6	MGL	98.0	( 70-130 )	
RPD_LCS	Magnesium, Total, ICAP	94.500	96.500	MGL	2.1	( 0-20 )	
RPD_MS	Magnesium, Total, ICAP	98.000	100.000	MGL	2.0	( 0-20 )	

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## QC Ref #430653

## Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	43.6	MGL	87.2	( 85-115 )	
LCS2	Sodium, Total, ICAP	50	44.4	MGL	88.8	( 85-115 )	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	0.927	MGL	92.7	( 50-150 )	
MS	Sodium, Total, ICAP	50	44.1	MGL	88.2	( 70-130 )	
MS2	Sodium, Total, ICAP	50	45.1	MGL	90.2	( 70-130 )	
MSD	Sodium, Total, ICAP	50	44.3	MGL	88.6	( 70-130 )	
MSD2	Sodium, Total, ICAP	50	43.2	MGL	86.4	( 70-130 )	
RPD_LCS	Sodium, Total, ICAP	87.200	88.800	MGL	1.8	( 0-20 )	
RPD_MS	Sodium, Total, ICAP	88.200	88.600	MGL	0.5	( 0-20 )	

## QC Ref #430655

## Boron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Boron, Total, ICAP	0.5	0.445	MGL	89.0	( 85-115 )	
LCS2	Boron, Total, ICAP	0.5	0.455	MGL	91.0	( 85-115 )	
MBLK	Boron, Total, ICAP	ND	<0.050	MGL			
MRL_CHK	Boron, Total, ICAP	0.050	0.0481	MGL	96.2	( 50-150 )	
MS	Boron, Total, ICAP	0.5	0.458	MGL	91.6	( 70-130 )	
MS2	Boron, Total, ICAP	0.5	0.459	MGL	91.8	( 70-130 )	
MSD	Boron, Total, ICAP	0.5	0.474	MGL	94.8	( 70-130 )	
MSD2	Boron, Total, ICAP	0.5	0.463	MGL	92.6	( 70-130 )	
RPD_LCS	Boron, Total, ICAP	89.000	91.000	MGL	2.2	( 0-20 )	
RPD_MS	Boron, Total, ICAP	91.600	94.800	MGL	3.4	( 0-20 )	

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QC Ref #430657                      Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Total, ICAP	50	46.7	MGL	93.4	( 85-115 )	
LCS2	Calcium, Total, ICAP	50	48.0	MGL	96.0	( 85-115 )	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.01	MGL	101.0	( 50-150 )	
MS	Calcium, Total, ICAP	50	48.4	MGL	96.8	( 70-130 )	
MS2	Calcium, Total, ICAP	50	50.2	MGL	100.4	( 70-130 )	
MSD	Calcium, Total, ICAP	50	48.3	MGL	96.6	( 70-130 )	
MSD2	Calcium, Total, ICAP	50	48.3	MGL	96.6	( 70-130 )	
RPD_LCS	Calcium, Total, ICAP	93.400	96.000	MGL	2.7	( 0-20 )	
RPD_MS	Calcium, Total, ICAP	96.800	96.600	MGL	0.2	( 0-20 )	

QC Ref #430661                      Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.72	MGL	94.4	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.81	MGL	96.2	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0223	MGL	111.5	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.82	MGL	96.4	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	4.80	MGL	96.0	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.95	MGL	99.0	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	4.83	MGL	96.6	( 70-130 )	
RPD_LCS	Iron, Total, ICAP	94.400	96.200	MGL	1.9	( 0-20 )	
RPD_MS	Iron, Total, ICAP	96.400	99.000	MGL	2.7	( 0-20 )	

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QC Ref #430676      Fluoride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	06040279	MGL		( 0-0 )	
CCC3	Fluoride	10.0	9.96	MGL	99.6	( 81-116 )	
CCCH	Fluoride	10.0	10.3	MGL	103.0	( 81-116 )	
CCCL	Fluoride	0.5	0.502	MGL	100.4	( 81-116 )	
CCCM	Fluoride	0.5	0.492	MGL	98.4	( 81-116 )	
CCCS	Fluoride	0.05	0.039	MGL	78.0	( 50-150 )	
LCS1	Fluoride	1.00	0.985	MGL	98.5	( 81-116 )	
LCS2	Fluoride	1.00	1.00	MGL	100.0	( 81-116 )	
MBLK	Fluoride	ND	<0.050	MGL			
MRL_CHK	Fluoride	0.05	0.039	MGL	78.0	( 50-150 )	
MS	Fluoride	1.00	1.02	MGL	102.0	( 73-124 )	
MS2	Fluoride	1.00	1.03	MGL	103.0	( 73-124 )	
MSD	Fluoride	1.00	1.04	MGL	104.0	( 73-124 )	
MSD2	Fluoride	1.00	1.03	MGL	103.0	( 73-124 )	
RPD_LCS	Fluoride	98.500	100.000	MGL	1.5	( 0-20 )	
RPD_MS	Fluoride	102.000	104.000	MGL	1.9	( 0-20 )	

QC Ref #430687      Alkalinity in CaCO3 units

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	05290189	MGL		( 0-0 )	
LCS1	Alkalinity in CaCO3 units	100	103	MGL	103.0	( 90-110 )	
LCS2	Alkalinity in CaCO3 units	100	103	MGL	103.0	( 90-110 )	
MBLK	Alkalinity in CaCO3 units	ND	<2.0	MGL			
MRL_CHK	Alkalinity in CaCO3 units	2.00	1.62	MGL	81.0	( 50-150 )	
MS	Alkalinity in CaCO3 units	100	112	MGL	112.0	( 80-120 )	
MS2	Alkalinity in CaCO3 units	100	100	MGL	100.0	( 80-120 )	
MSD	Alkalinity in CaCO3 units	100	102	MGL	102.0	( 80-120 )	
MSD2	Alkalinity in CaCO3 units	100	98	MGL	98.0	( 80-120 )	
RPD_LCS	Alkalinity in CaCO3 units	103.000	103.000	MGL	0.0	( 0-10 )	

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RPD\_MS Alkalinity in CaCO3 units 112.000 102.000 MGL 9.3 ( 0-20 )

**QC Ref #430804 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05090124	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	11800	11800	MGL		( 0-10 )	0.0
LCS1	Total Dissolved Solid (TDS)	175	134	MGL	<u>76.6</u>	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	656	MGL	93.7	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	9	MGL	<u>90.0</u>	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	76.571	93.714	MGL	<u>20.1</u>	( 0-20 )	

**QC Ref #430837 Weak Acid Dissociable Cyanide**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05290189	MGL		( 0-0 )	
LCS1	Weak Acid Dissociable Cyanide	0.1	0.100	MGL	100.0	( 90-110 )	
LCS2	Weak Acid Dissociable Cyanide	0.1	0.100	MGL	100.0	( 90-110 )	
MBLK	Weak Acid Dissociable Cyanide	ND	<0.0050	MGL			
MS	Weak Acid Dissociable Cyanide	0.1	0.107	MGL	107.0	( 85-115 )	
MSD	Weak Acid Dissociable Cyanide	0.1	0.106	MGL	106.0	( 85-115 )	

**QC Ref #430846 Mercury**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	05280253	UGL		( 0-0 )	
LCS1	Mercury	1.50	1.49	UGL	99.3	( 85-115 )	
LCS2	Mercury	1.50	1.34	UGL	89.3	( 85-115 )	
MBLK	Mercury	ND	<0.20	UGL			
MRL_CHK	Mercury	0.200	0.204	UGL	102.0	( 50-150 )	
MS	Mercury	1.50	1.53	UGL	102.0	( 70-130 )	
MSD	Mercury	1.50	1.48	UGL	98.7	( 70-130 )	

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RPD_LCS	Mercury	99.333	89.333	UGL	10.6	( 0-20 )
RPD_MS	Mercury	102.000	98.667	UGL	3.3	( 0-20 )

## QC Ref #431597 Zinc, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06030669	MGL		( 0-0 )	
LCS1	Zinc, Total, ICAP	1.00	0.963	MGL	96.3	( 85-115 )	
LCS2	Zinc, Total, ICAP	1.00	0.982	MGL	98.2	( 85-115 )	
MBLK	Zinc, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Zinc, Total, ICAP	0.020	0.0197	MGL	98.5	( 50-150 )	
MS	Zinc, Total, ICAP	1.00	1.00	MGL	100.0	( 70-130 )	
MSD	Zinc, Total, ICAP	1.00	1.03	MGL	103.0	( 70-130 )	

## QC Ref #432737 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Chromium, Total, ICAP/MS	100	99.3	UGL	99.3	( 85-115 )	
LCS2	Chromium, Total, ICAP/MS	100	98.7	UGL	98.7	( 85-115 )	
MBLK	Chromium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Chromium, Total, ICAP/MS	1.000	0.983	UGL	98.3	( 50-150 )	
MS	Chromium, Total, ICAP/MS	100	97.7	UGL	97.7	( 70-130 )	
MS2	Chromium, Total, ICAP/MS	100	102	UGL	102.0	( 70-130 )	
MSD	Chromium, Total, ICAP/MS	100	103	UGL	103.0	( 70-130 )	
MSD2	Chromium, Total, ICAP/MS	100	102	UGL	102.0	( 70-130 )	
RPD_LCS	Chromium, Total, ICAP/MS	99.300	98.700	UGL	0.6	( 0-20 )	
RPD_MS	Chromium, Total, ICAP/MS	97.700	103.000	UGL	5.3	( 0-20 )	

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## QC Ref #432740 Manganese, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Manganese, Total, ICAP/MS	50	47.8	UGL	95.6	( 85-115 )	
LCS2	Manganese, Total, ICAP/MS	50	47.6	UGL	95.2	( 85-115 )	
MBLK	Manganese, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Manganese, Total, ICAP/MS	2.000	1.86	UGL	93.0	( 50-150 )	
MS	Manganese, Total, ICAP/MS	50	46.5	UGL	93.0	( 70-130 )	
MS2	Manganese, Total, ICAP/MS	50	48.5	UGL	97.0	( 70-130 )	
MSD	Manganese, Total, ICAP/MS	50	49.7	UGL	99.4	( 70-130 )	
MSD2	Manganese, Total, ICAP/MS	50	48.6	UGL	97.2	( 70-130 )	
RPD_LCS	Manganese, Total, ICAP/MS	95.600	95.200	UGL	0.4	( 0-20 )	
RPD_MS	Manganese, Total, ICAP/MS	93.000	99.400	UGL	6.7	( 0-20 )	

## QC Ref #432746 Beryllium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Beryllium, Total, ICAP/MS	5.00	5.03	UGL	100.6	( 85-115 )	
LCS2	Beryllium, Total, ICAP/MS	5.00	4.99	UGL	99.8	( 85-115 )	
MBLK	Beryllium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Beryllium, Total, ICAP/MS	1.000	0.919	UGL	91.9	( 50-150 )	
MS	Beryllium, Total, ICAP/MS	5.00	5.06	UGL	101.2	( 70-130 )	
MS2	Beryllium, Total, ICAP/MS	5.00	5.31	UGL	106.2	( 70-130 )	
MSD	Beryllium, Total, ICAP/MS	5.00	5.27	UGL	105.4	( 70-130 )	
MSD2	Beryllium, Total, ICAP/MS	5.00	5.35	UGL	107.0	( 70-130 )	
RPD_LCS	Beryllium, Total, ICAP/MS	100.600	99.800	UGL	0.8	( 0-20 )	
RPD_MS	Beryllium, Total, ICAP/MS	101.200	105.400	UGL	4.1	( 0-20 )	

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**QC Ref #432747          Nickel, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Nickel, Total, ICAP/MS	50	46.8	UGL	93.6	( 85-115 )	
LCS2	Nickel, Total, ICAP/MS	50	46.3	UGL	92.6	( 85-115 )	
MBLK	Nickel, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Nickel, Total, ICAP/MS	5.000	4.65	UGL	93.0	( 50-150 )	
MS	Nickel, Total, ICAP/MS	50	44.3	UGL	88.6	( 70-130 )	
MS2	Nickel, Total, ICAP/MS	50	45.8	UGL	91.6	( 70-130 )	
MSD	Nickel, Total, ICAP/MS	50	46.2	UGL	92.4	( 70-130 )	
MSD2	Nickel, Total, ICAP/MS	50	45.9	UGL	91.8	( 70-130 )	
RPD_LCS	Nickel, Total, ICAP/MS	93.600	92.600	UGL	1.1	( 0-20 )	
RPD_MS	Nickel, Total, ICAP/MS	88.600	92.400	UGL	4.2	( 0-20 )	

**QC Ref #432750          Copper, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Copper, Total, ICAP/MS	100	94.9	UGL	94.9	( 85-115 )	
LCS2	Copper, Total, ICAP/MS	100	94.7	UGL	94.7	( 85-115 )	
MBLK	Copper, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Copper, Total, ICAP/MS	2.000	1.86	UGL	93.0	( 50-150 )	
MS	Copper, Total, ICAP/MS	100	88.5	UGL	88.5	( 70-130 )	
MS2	Copper, Total, ICAP/MS	100	93.2	UGL	93.2	( 70-130 )	
MSD	Copper, Total, ICAP/MS	100	92.4	UGL	92.4	( 70-130 )	
MSD2	Copper, Total, ICAP/MS	100	93.3	UGL	93.3	( 70-130 )	
RPD_LCS	Copper, Total, ICAP/MS	94.900	94.700	UGL	0.2	( 0-20 )	
RPD_MS	Copper, Total, ICAP/MS	88.500	92.400	UGL	4.3	( 0-20 )	

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QC Ref #432756                      Arsenic, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Arsenic, Total, ICAP/MS	20	20.0	UGL	100.0	( 85-115 )	
LCS2	Arsenic, Total, ICAP/MS	20	20.0	UGL	100.0	( 85-115 )	
MBLK	Arsenic, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Arsenic, Total, ICAP/MS	1.000	0.979	UGL	97.9	( 50-150 )	
MS	Arsenic, Total, ICAP/MS	20	20.9	UGL	104.5	( 70-130 )	
MS2	Arsenic, Total, ICAP/MS	20	22.0	UGL	110.0	( 70-130 )	
MSD	Arsenic, Total, ICAP/MS	20	22.0	UGL	110.0	( 70-130 )	
MSD2	Arsenic, Total, ICAP/MS	20	21.9	UGL	109.5	( 70-130 )	
RPD_LCS	Arsenic, Total, ICAP/MS	100.000	100.000	UGL	0.0	( 0-20 )	
RPD_MS	Arsenic, Total, ICAP/MS	104.500	110.000	UGL	5.1	( 0-20 )	

QC Ref #432760                      Selenium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Selenium, Total, ICAP/MS	20	20.0	UGL	100.0	( 85-115 )	
LCS2	Selenium, Total, ICAP/MS	20	19.7	UGL	98.5	( 85-115 )	
MBLK	Selenium, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Selenium, Total, ICAP/MS	5.000	4.83	UGL	96.6	( 50-150 )	
MS	Selenium, Total, ICAP/MS	20	21.4	UGL	107.0	( 70-130 )	
MS2	Selenium, Total, ICAP/MS	20	23.1	UGL	115.5	( 70-130 )	
MSD	Selenium, Total, ICAP/MS	20	22.5	UGL	112.5	( 70-130 )	
MSD2	Selenium, Total, ICAP/MS	20	22.9	UGL	114.5	( 70-130 )	
RPD_LCS	Selenium, Total, ICAP/MS	100.000	98.500	UGL	1.5	( 0-20 )	
RPD_MS	Selenium, Total, ICAP/MS	107.000	112.500	UGL	5.0	( 0-20 )	

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QC Ref #432766 Silver, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Silver, Total, ICAP/MS	50	51.0	UGL	102.0	( 85-115 )	
LCS2	Silver, Total, ICAP/MS	50	50.4	UGL	100.8	( 85-115 )	
MBLK	Silver, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Silver, Total, ICAP/MS	0.500	0.457	UGL	91.4	( 50-150 )	
MS	Silver, Total, ICAP/MS	50	40.6	UGL	81.2	( 70-130 )	
MS2	Silver, Total, ICAP/MS	50	49.2	UGL	98.4	( 70-130 )	
MSD	Silver, Total, ICAP/MS	50	43.5	UGL	87.0	( 70-130 )	
MSD2	Silver, Total, ICAP/MS	50	48.2	UGL	96.4	( 70-130 )	
RPD_LCS	Silver, Total, ICAP/MS	102.000	100.800	UGL	1.2	( 0-20 )	
RPD_MS	Silver, Total, ICAP/MS	81.200	87.000	UGL	6.9	( 0-20 )	

QC Ref #432769 Cadmium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Cadmium, Total, ICAP/MS	20	18.8	UGL	94.0	( 85-115 )	
LCS2	Cadmium, Total, ICAP/MS	20	18.9	UGL	94.5	( 85-115 )	
MBLK	Cadmium, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Cadmium, Total, ICAP/MS	0.500	0.458	UGL	91.6	( 50-150 )	
MS	Cadmium, Total, ICAP/MS	20	17.7	UGL	88.5	( 70-130 )	
MS2	Cadmium, Total, ICAP/MS	20	19.2	UGL	96.0	( 70-130 )	
MSD	Cadmium, Total, ICAP/MS	20	18.6	UGL	93.0	( 70-130 )	
MSD2	Cadmium, Total, ICAP/MS	20	19.0	UGL	95.0	( 70-130 )	
RPD_LCS	Cadmium, Total, ICAP/MS	94.000	94.500	UGL	0.5	( 0-20 )	
RPD_MS	Cadmium, Total, ICAP/MS	88.500	93.000	UGL	5.0	( 0-20 )	

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QC Ref #432772                      Antimony, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Antimony, Total, ICAP/MS	50	47.7	UGL	95.4	( 85-115 )	
LCS2	Antimony, Total, ICAP/MS	50	47.8	UGL	95.6	( 85-115 )	
MBLK	Antimony, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Antimony, Total, ICAP/MS	1.000	1.11	UGL	111.0	( 50-150 )	
MS	Antimony, Total, ICAP/MS	50	46.2	UGL	92.4	( 70-130 )	
MS2	Antimony, Total, ICAP/MS	50	49.6	UGL	99.2	( 70-130 )	
MSD	Antimony, Total, ICAP/MS	50	48.7	UGL	97.4	( 70-130 )	
MSD2	Antimony, Total, ICAP/MS	50	49.3	UGL	98.6	( 70-130 )	
RPD_LCS	Antimony, Total, ICAP/MS	95.400	95.600	UGL	0.2	( 0-20 )	
RPD_MS	Antimony, Total, ICAP/MS	92.400	97.400	UGL	5.3	( 0-20 )	

QC Ref #432775                      Barium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Barium, Total, ICAP/MS	100	93.4	UGL	93.4	( 85-115 )	
LCS2	Barium, Total, ICAP/MS	100	93.3	UGL	93.3	( 85-115 )	
MBLK	Barium, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Barium, Total, ICAP/MS	2.000	1.87	UGL	93.5	( 50-150 )	
MS	Barium, Total, ICAP/MS	100	87.8	UGL	87.8	( 70-130 )	
MS2	Barium, Total, ICAP/MS	100	95.4	UGL	95.4	( 70-130 )	
MSD	Barium, Total, ICAP/MS	100	92.9	UGL	92.9	( 70-130 )	
MSD2	Barium, Total, ICAP/MS	100	94.9	UGL	94.9	( 70-130 )	
RPD_LCS	Barium, Total, ICAP/MS	93.400	93.300	UGL	0.1	( 0-20 )	
RPD_MS	Barium, Total, ICAP/MS	87.800	92.900	UGL	5.6	( 0-20 )	

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Laboratory  
QC Report  
#242866

Tronox LLC - Henderson  
(continued)

QC Ref #432778 Aluminum, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Aluminum, Total, ICAP/MS	200	200	UGL	100.0	( 85-115 )	
LCS2	Aluminum, Total, ICAP/MS	200	200	UGL	100.0	( 85-115 )	
MBLK	Aluminum, Total, ICAP/MS	ND	<20	UGL			
MRL_CHK	Aluminum, Total, ICAP/MS	25.000	19.7	UGL	78.8	( 50-150 )	
MS	Aluminum, Total, ICAP/MS	200	207	UGL	103.5	( 70-130 )	
MS2	Aluminum, Total, ICAP/MS	200	212	UGL	106.0	( 70-130 )	
MSD	Aluminum, Total, ICAP/MS	200	220	UGL	110.0	( 70-130 )	
MSD2	Aluminum, Total, ICAP/MS	200	212	UGL	106.0	( 70-130 )	
RPD_LCS	Aluminum, Total, ICAP/MS	100.000	100.000	UGL	0.0	( 0-20 )	
RPD_MS	Aluminum, Total, ICAP/MS	103.500	110.000	UGL	6.1	( 0-20 )	

QC Ref #432779 Thallium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Thallium, Total, ICAP/MS	20.0	20.6	UGL	103.0	( 85-115 )	
LCS2	Thallium, Total, ICAP/MS	20.0	20.5	UGL	102.5	( 85-115 )	
MBLK	Thallium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Thallium, Total, ICAP/MS	1.000	0.935	UGL	93.5	( 50-150 )	
MS	Thallium, Total, ICAP/MS	20.0	19.2	UGL	96.0	( 70-130 )	
MS2	Thallium, Total, ICAP/MS	20.0	20.8	UGL	104.0	( 70-130 )	
MSD	Thallium, Total, ICAP/MS	20.0	20.1	UGL	100.5	( 70-130 )	
MSD2	Thallium, Total, ICAP/MS	20.0	20.9	UGL	104.5	( 70-130 )	
RPD_LCS	Thallium, Total, ICAP/MS	103.000	102.500	UGL	0.5	( 0-20 )	
RPD_MS	Thallium, Total, ICAP/MS	96.000	100.500	UGL	4.6	( 0-20 )	

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Laboratory  
QC Report  
#242866

Tronox LLC - Henderson  
(continued)

QC Ref #432782                      Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	06040707	UGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 28	06040729	UGL		( 0-0 )	
LCS1	Lead, Total, ICAP/MS	20	19.1	UGL	95.5	( 85-115 )	
LCS2	Lead, Total, ICAP/MS	20	19.0	UGL	95.0	( 85-115 )	
MBLK	Lead, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Lead, Total, ICAP/MS	0.500	0.462	UGL	92.4	( 50-150 )	
MS	Lead, Total, ICAP/MS	20	17.7	UGL	88.5	( 70-130 )	
MS2	Lead, Total, ICAP/MS	20	19.1	UGL	95.5	( 70-130 )	
MSD	Lead, Total, ICAP/MS	20	18.7	UGL	93.5	( 70-130 )	
MSD2	Lead, Total, ICAP/MS	20	19.1	UGL	95.5	( 70-130 )	
RPD_LCS	Lead, Total, ICAP/MS	95.500	95.000	UGL	0.5	( 0-20 )	
RPD_MS	Lead, Total, ICAP/MS	88.500	93.500	UGL	5.5	( 0-20 )	

QC Ref #433079                      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	06040395	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.4	UGL	93.6	( 85-115 )	
LCS2	Perchlorate	25.0	22.4	UGL	89.6	( 85-115 )	
LCS3	Perchlorate	4	3.85	UGL	96.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.2	UGL	92.8	( 80-120 )	
MSD	Perchlorate	25.0	23.7	UGL	94.8	( 80-120 )	
RPD_LCS	Perchlorate	93.600	89.600	UGL	4.4	( 0-15 )	
RPD_MS	Perchlorate	92.800	94.800	UGL	1.0	( 0-15 )	

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are advisory only, unless otherwise specified in the method.