



# 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)

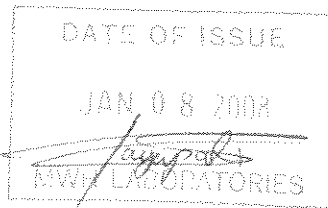
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton  
Project Manager



Report#: 224653  
Project: CL04  
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].



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January 8, 2008

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

Subject: Case Narrative report 224653

Enclosed is MWH Laboratories Report 224653

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on December 11, 2007 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.

For Weak Acid Dissociable Cyanide, the standard check was recovered above the internal limit. Per NELAC, ND data are acceptable under these conditions.

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

*2016/3*

MWLBS USE ONLY:

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016  
(626) 386-1100 (800) 566-5227

LOG IN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: \_\_\_\_\_

SAMPLE TEMP, RECEIPT AT LAB: 2°

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#

KERRMCGEE-MP UIC permit - Water Supply Profile 1

Sampler: *Wendy Prescott* Wendy Prescott  
Susan Crowley / (702) 651-2234

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

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

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

(check for yes)

SEE BOTTLE ORDER

SAMPLER COMMENTS

*DOB 12/10/07*

\* MATRIX TYPES:

Reported by Volume:  
CFW = Chlor(am)inated Finished Water  
FW = Other Finished Water

RGW = Raw Ground Water  
RSW = Raw Surface Water

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

Reported by Weight:

SO = Soil  
SL = Sludge

SIGNATURE

PRINT NAME

RELINQUISHED BY: *Wendy Prescott*  
RECEIVED BY: *Joe Savent*  
RELINQUISHED BY:  
RECEIVED BY:

Wendy Prescott

*JOE SAVENT*

COMPANY/TITLE

Veolia Water NA for Kerr-McGee Chemical LLC

*MLA*

TIME

1200pm

DATE

12/10/2007

*10:00*

*12-11-07*



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: 142884

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>12/10/07</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 TRONOX LLC	
N/AR		CUSTOMER PO OR REQ'N NO.	CODE NO. WCN IS <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
	Ice Chest with water samples Stabilized Water. Not Regulated		1 COOLER
			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>
			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.
TRUCK SHIPMENTS			
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
1	TOTAL GROSS WEIGHT 19	TOTAL TARE WEIGHT 0	19
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.
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>Judi Durkin</b>	AGENT	PER

SCANNED

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



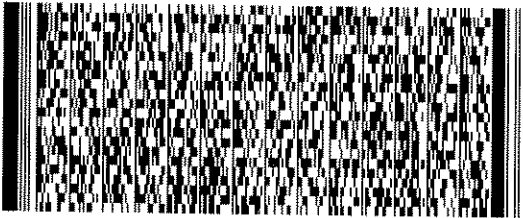
Ship Date: 10DEC07  
ActWgt: 19 LB  
System#: 2274147/INET7091  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # MSO #142884 - 19.0 lbs.  
Invoice #  
PO #  
Dept #

SHIP TO: (626)568-6400 **BILL SENDER**  
**ATTN: SAMPLE RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS DR # 100**  
  
**MONROVIA, CA 910163629**

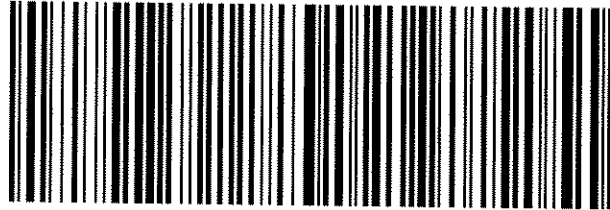


TRK# 7918 1332 5740  
0201

**TUE - 11DEC A2**  
**PRIORITY OVERNIGHT**

**QZ-WHPA**

**BUR**  
**CA-US**  
**91016**



Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page 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.

**Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.**

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.

SCANNED

**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#: 224653  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **12/11/07**. 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
2712110505	STABILIZED WATER		Water	10-dec-2007 10:00:00
		@VOAPP	AG-MS	AL-MS
		B	BA-MS	BALANCE
		CD-MS	CL	CLO4
		EC	F	FE
		MG	MN-MS	NA
		P	PB-MS	PH
		T	TDS	TL-MS
				AL-MS
				BE-MS
				CO3
				HCO3
				NI-MS
				SB-MS
				WCN
				ANION1
				AS-MS
				CA
				CR-MS
				CU-MS
				HG
				K
				NO3
				OH
				SE-MS
				SO4
				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  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

Customer Code: KERRMCGEE-MP  
 PO#: Susan Crowley PO  
 Group#: 224653  
 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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Report  
Comments  
#224653

## 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: 

## Group Comments

(CN/WCN/CNAMEN) The distilled 0.02ppm Low Check for this batch did not meet acceptance criteria of 90-110%. The Low Check recovery was 114%. Data acceptable since all reported samples are ND.



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Laboratory  
Hits Report  
#224653

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

Samples Received  
11-dec-2007 15:57:51

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2712110505	STABILIZED WATER				
12/21/07		Chloroform (Trichloromethane)	1.6		ug/l	0.5
12/21/07		Dibromochloromethane	1.8		ug/l	0.5
12/21/07		Dichlorobromomethane	2.1		ug/l	0.5
12/14/07		Alkalinity in CaCO3 units	134		mg/l	2.0
12/17/07		Anion Sum - Calculated	11		meq/l	0.0050
01/03/08		Arsenic, Total, ICAP/MS	3.2	10	ug/l	1.0
01/03/08		Barium, Total, ICAP/MS	150	2000	ug/l	2.0
12/17/07		Bicarb.Alkalinity as HCO3,calc	160		mg/l	2.0
12/18/07		Boron, Total, ICAP	0.15		mg/l	0.050
12/15/07		Calcium, Total, ICAP	82		mg/l	1.0
12/18/07		Cation Sum - Calculated	12		meq/l	0.0010
12/11/07		Chloride	100	250	mg/l	5.0
12/12/07		Fluoride	0.30	4	mg/l	0.050
12/18/07		Iron, Total, ICAP	0.031	0.3	mg/l	0.020
12/15/07		Magnesium, Total, ICAP	32		mg/l	0.10
12/11/07		Nitrate as Nitrogen by IC	0.80	10	mg/l	0.50
12/12/07		PH (H3=past HT, not compliant)	8.1	6.5-8.5	Units	0.010
12/12/07		Perchlorate	7.8		ug/l	4.0
12/15/07		Potassium, Total, ICAP	6.0		mg/l	1.0
12/15/07		Sodium, Total, ICAP	110		mg/l	1.0
12/12/07		Specific Conductance	1070		umho/cm	2.0
12/11/07		Sulfate	270	250	mg/l	2.5
12/16/07		Total Dissolved Solid (TDS)	620	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#224653

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

Samples Received  
12/11/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>STABILIZED WATER (2712110505)                      Sampled on 12/10/07 10:00</b>								
	01/03/08 14:34	404682	( ML/EPA 200.8 )	Silver, Total, ICAP/MS	ND	ug/l	0.50	1
	01/03/08 14:34	404677	( ML/EPA 200.8 )	Aluminum, Total, ICAP/MS	ND	ug/l	20	1
	12/14/07 00:00	402348	( SM 2320B/310.1)	Alkalinity in CaCO3 units	134	mg/l	2.0	1
	12/17/07 15:50	402545	( ML/SML1030E )	Anion Sum - Calculated	11	meq/l	0.0050	5
	01/03/08 14:34	404665	( ML/EPA 200.8 )	Arsenic, Total, ICAP/MS	3.2	ug/l	1.0	1
	12/18/07 20:12	403086	( ML/EPA 200.7 )	Boron, Total, ICAP	0.15	mg/l	0.050	1
	01/03/08 14:34	404664	( ML/EPA 200.8 )	Barium, Total, ICAP/MS	150	ug/l	2.0	1
	01/03/08 14:34	404644	( ML/EPA 200.8 )	Beryllium, Total, ICAP/MS	ND	ug/l	1.0	1
	12/15/07 04:44	402558	( ML/EPA 200.7 )	Calcium, Total, ICAP	82	mg/l	1.0	1
	12/18/07 12:11	402672	( SM 1030E )	Cation Sum - Calculated	12	meq/l	0.0010	1
	01/03/08 14:34	404661	( ML/EPA 200.8 )	Cadmium, Total, ICAP/MS	ND	ug/l	0.50	1
	12/11/07 13:19	401703	( ML/EPA 300.0 )	Chloride	100	mg/l	5.0	5
	12/12/07 00:03	401688	( EPA 314 )	Perchlorate	7.8	ug/l	4.0	1
	12/17/07 15:50	402545	( SM 2330B )	Carbonate as CO3, Calculated	ND	mg/l	2.0	1
	01/03/08 14:34	404660	( ML/EPA 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	1.0	1
	01/03/08 14:34	404634	( ML/EPA 200.8 )	Copper, Total, ICAP/MS	ND	ug/l	2.0	1
	12/12/07 17:26	401913	( SM 2510B )	Specific Conductance	1070	umho/cm	2.0	1
	12/12/07 00:00	401860	( SM 4500F-C )	Fluoride	0.30	mg/l	0.050	1
	12/18/07 20:12	403093	( ML/EPA 200.7 )	Iron, Total, ICAP	0.031	mg/l	0.020	1
	12/17/07 15:50	402545	( SM 2330B )	Bicarb.Alkalinity as HCO3,calc	160	mg/l	2.0	1
	12/18/07 11:31	402836	( EPA 245.1 )	Mercury	ND	ug/l	0.20	1
	12/15/07 00:00	402901	( ML/EPA 200.7 )	Potassium, Total, ICAP	6.0	mg/l	1.0	1
	12/15/07 04:44	402587	( ML/EPA 200.7 )	Magnesium, Total, ICAP	32	mg/l	0.10	1
	01/03/08 14:34	404626	( ML/EPA 200.8 )	Manganese, Total, ICAP/MS	ND	ug/l	2.0	1
	12/15/07 04:44	402594	( ML/EPA 200.7 )	Sodium, Total, ICAP	110	mg/l	1.0	1
	01/03/08 14:34	404625	( ML/EPA 200.8 )	Nickel, Total, ICAP/MS	ND	ug/l	5.0	1
	12/11/07 13:19	401706	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	0.80	mg/l	0.50	5
	12/17/07 15:50	402545	( SM 2330B )	Hydroxide as OH, Calculated	ND	mg/l	2.0	1
	01/03/08 14:34	404624	( ML/EPA 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	0.50	1
	12/12/07 00:00	401859	( SM 4500-HB )	PH (H3=past HT, not compliant)	8.1	Units	0.010	1
	01/03/08 14:34	404623	( ML/EPA 200.8 )	Antimony, Total, ICAP/MS	ND	ug/l	1.0	1
	01/03/08 14:34	404620	( ML/EPA 200.8 )	Selenium, Total, ICAP/MS	ND	ug/l	5.0	1



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## Laboratory Data Report #224653

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	12/11/07 13:19	401708	( ML/EPA 300.0 )	Sulfate	270	mg/l	2.5	5
12/16/07	12/16/07 16:00	403835	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	620	mg/l	10	1
	01/03/08 14:34	404619	( ML/EPA 200.8 )	Thallium, Total, ICAP/MS	ND	ug/l	1.0	1
12/19/07	12/20/07 00:00	403326	( SM 4500CN-I )	Weak Acid Dissociable Cyanide	ND	mg/l	0.0050	1
	12/15/07 04:44	402601	( EPA/ML 200.7 )	Zinc, Total, ICAP	ND	mg/l	0.020	1
<b>Volatile Organics HSL</b>								
	12/21/07 15:42	403554	( EPA 624 )	1,1,2-Trichloroethane (1,1,2-T	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	1,1-Dichloroethylene (1,1DCE)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	1,1-Dichloroethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	1,2-Dichloroethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	1,2-Dichloropropane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	2-Butanone (MEK)	ND	ug/l	10	1
	12/21/07 15:42	403554	( EPA 624 )	2-Hexanone	ND	ug/l	10	1
	12/21/07 15:42	403554	( EPA 624 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	10	1
	12/21/07 15:42	403554	( EPA 624 )	Acetone	ND	ug/l	10	1
	12/21/07 15:42	403554	( EPA 624 )	Acrolein (Screen)	ND	ug/l	50	1
	12/21/07 15:42	403554	( EPA 624 )	Acrylonitrile (Screen)	ND	ug/l	50	1
	12/21/07 15:42	403554	( EPA 624 )	Benzene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	cis-1,2-Dichloroethene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Chlorobenzene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	cis-1,3-Dichloropropene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Bromoform	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Chloroform (Trichloromethane)	1.6	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Chloroethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Carbon disulfide	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Carbon Tetrachloride	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Dibromochloromethane	1.8	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Dichlorobromomethane	2.1	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Ethyl benzene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Dichlorodifluoromethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Methyl Bromide	ND	ug/l	0.5	1
	12/21/07 15:42	403554	( EPA 624 )	Methyl Chloride	ND	ug/l	0.5	1



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Laboratory  
Data Report  
#224653

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	12/21/07 15:42	403554	{ EPA 624	} Methylene Chloride	ND	ug/l	3.0	1
	12/21/07 15:42	403554	{ EPA 624	} m,p-Xylenes	ND	ug/l	1.0	1
	12/21/07 15:42	403554	{ EPA 624	} o-Xylene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} 1,1,2,2-Tetrachloroethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Tetrachloroethylene (PCE)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Styrene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} trans-1,2-Dichloroethene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} 1,1,1-Trichloroethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Trichloroethylene (TCE)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Trichlorofluoromethane	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} trans-1,3-Dichloropropene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Tetrahydrofuran	ND	ug/l	10	1
	12/21/07 15:42	403554	{ EPA 624	} Toluene	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Vinyl Chloride (VC)	ND	ug/l	0.5	1
	12/21/07 15:42	403554	{ EPA 624	} Vinyl Acetate	ND	ug/l	10	1
			{ EPA 624	} 1,2-Dichloroethane-d4 (70-130)	119	% Rec		
			{ EPA 624	} Toluene-d8 (70-130)	91	% Rec		
			{ EPA 624	} 4-Bromofluorobenzene (70-130)	94	% Rec		



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Tronox LLC - Henderson

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QC Ref #0	- Metals Turbidity	Analysis Date: 12/12/2007
2712110505	STABILIZED WATER	Analyzed by: jrf
2712110505	STABILIZED WATER	Analyzed by: jrf
QC Ref #401688	- Perchlorate	Analysis Date: 12/12/2007
2712110505	STABILIZED WATER	Analyzed by: clv
QC Ref #401703	- Chloride	Analysis Date: 12/11/2007
2712110505	STABILIZED WATER	Analyzed by: jkz
QC Ref #401706	- Nitrate as Nitrogen by IC	Analysis Date: 12/11/2007
2712110505	STABILIZED WATER	Analyzed by: jkz
QC Ref #401708	- Sulfate	Analysis Date: 12/11/2007
2712110505	STABILIZED WATER	Analyzed by: jkz
QC Ref #401859	- PH (H3=past HT, not compliant)	Analysis Date: 12/12/2007
2712110505	STABILIZED WATER	Analyzed by: yvette
QC Ref #401860	- Fluoride	Analysis Date: 12/12/2007
2712110505	STABILIZED WATER	Analyzed by: yvette
QC Ref #401913	- Specific Conductance	Analysis Date: 12/12/2007
2712110505	STABILIZED WATER	Analyzed by: sar



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QC Ref #402348	- Alkalinity in CaCO3 units	Analysis Date: 12/14/2007
2712110505	STABILIZED WATER	Analyzed by: anh
QC Ref #402545	- Anion Sum - Calculated	Analysis Date: 12/17/2007
2712110505	STABILIZED WATER	Analyzed by: dwr
2712110505	STABILIZED WATER	Analyzed by: dwr
2712110505	STABILIZED WATER	Analyzed by: dwr
2712110505	STABILIZED WATER	Analyzed by: dwr
QC Ref #402558	- Calcium, Total, ICAP	Analysis Date: 12/15/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #402587	- Magnesium, Total, ICAP	Analysis Date: 12/15/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #402594	- Sodium, Total, ICAP	Analysis Date: 12/15/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #402601	- Zinc, Total, ICAP	Analysis Date: 12/15/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #402672	- Cation Sum - Calculated	Analysis Date: 12/18/2007
2712110505	STABILIZED WATER	Analyzed by: dwr
2712110505	STABILIZED WATER	Analyzed by: dwr



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Tronox LLC - Henderson  
(continued)

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QC Ref #402836 - Mercury		Analysis Date: 12/18/2007
2712110505	STABILIZED WATER	Analyzed by: nina
QC Ref #402901 - Potassium, Total, ICAP		Analysis Date: 12/15/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #403086 - Boron, Total, ICAP		Analysis Date: 12/18/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #403093 - Iron, Total, ICAP		Analysis Date: 12/18/2007
2712110505	STABILIZED WATER	Analyzed by: wbh
QC Ref #403326 - Weak Acid Dissociable Cyanide		Analysis Date: 12/20/2007
2712110505	STABILIZED WATER	Analyzed by: lupe
QC Ref #403554 - Volatile Organics HSL		Analysis Date: 12/21/2007
2712110505	STABILIZED WATER	Analyzed by: mad
QC Ref #403835 - Total Dissolved Solid (TDS)		Analysis Date: 12/16/2007
2712110505	STABILIZED WATER	Analyzed by: axa
QC Ref #404619 - Thallium, Total, ICAP/MS		Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh





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Tronox LLC - Henderson  
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QC Ref #404620	- Selenium, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404623	- Antimony, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404624	- Lead, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404625	- Nickel, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404626	- Manganese, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404634	- Copper, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404644	- Beryllium, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh
QC Ref #404660	- Chromium, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505	STABILIZED WATER	Analyzed by: dyh



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Tronox LLC - Henderson  
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QC Ref #404661 - Cadmium, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505 STABILIZED WATER	Analyzed by: dyh
QC Ref #404664 - Barium, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505 STABILIZED WATER	Analyzed by: dyh
QC Ref #404665 - Arsenic, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505 STABILIZED WATER	Analyzed by: dyh
QC Ref #404677 - Aluminum, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505 STABILIZED WATER	Analyzed by: dyh
QC Ref #404682 - Silver, Total, ICAP/MS	Analysis Date: 01/03/2008
2712110505 STABILIZED WATER	Analyzed by: dyh



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Tronox LLC - Henderson

QC Ref #401688

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	12110410	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.1	UGL	100.4	( 85-115 )	
LCS2	Perchlorate	25.0	24.4	UGL	97.6	( 85-115 )	
LCS3	Perchlorate	4	3.96	UGL	99.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.5	UGL	90.0	( 80-120 )	
MSD	Perchlorate	25.0	22.7	UGL	90.8	( 80-120 )	
RPD_LCS	Perchlorate	100.400	97.600	UGL	2.8	( 0-15 )	
RPD_MS	Perchlorate	90.000	90.800	UGL	1.0	( 0-15 )	

QC Ref #401703

Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110458	MGL		( 0-0 )	
AASPKSMP	Spiked sample	Lab # 27	12110498	MGL		( 0-0 )	
LCS1	Chloride	25	26.6	MGL	106.4	( 90-110 )	
LCS2	Chloride	25	25.9	MGL	103.6	( 90-110 )	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.423	MGL	84.6	( 50-150 )	
MS	Chloride	12.5	13.2	MGL	105.6	( 74-126 )	
MSD	Chloride	12.5	13.2	MGL	105.6	( 74-126 )	
RPD_LCS	Chloride	106.400	103.600	MGL	2.7	( 0-20 )	
RPD_MS	Chloride	105.600	105.600	MGL	0.0	( 0-20 )	

QC Ref #401706

Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110458	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.52	MGL	100.8	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.46	MGL	98.4	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			

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## Tronox LLC - Henderson (continued)

MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0466	MGL	93.2	( 50-150 )
MS	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 80-112 )
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 80-112 )
RPD_LCS	Nitrate as Nitrogen by IC	100.800	98.400	MGL	2.4	( 0-20 )
RPD_MS	Nitrate as Nitrogen by IC	97.600	97.600	MGL	0.0	( 0-20 )

### QC Ref #401708 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110458	MGL		( 0-0 )	
LCS1	Sulfate	50	53.1	MGL	106.2	( 90-110 )	
LCS2	Sulfate	50	51.8	MGL	103.6	( 90-110 )	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	1.00	0.932	MGL	93.2	( 50-150 )	
MS	Sulfate	25	25.9	MGL	103.6	( 83-115 )	
MSD	Sulfate	25	25.9	MGL	103.6	( 83-115 )	
RPD_LCS	Sulfate	106.200	103.600	MGL	2.5	( 0-20 )	
RPD_MS	Sulfate	103.600	103.600	MGL	0.0	( 0-20 )	

### QC Ref #401859 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110226	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	7.42	7.46	UNIT		( 0-20 )	0.5

### QC Ref #401860 Fluoride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	12070194	MGL		( 0-0 )	
CCC3	Fluoride	10.0	10.1	MGL	101.0	( 81-116 )	
CCCH	Fluoride	10.0	10.3	MGL	103.0	( 81-116 )	
CCCL	Fluoride	0.5	0.50	MGL	100.0	( 81-116 )	
CCCM	Fluoride	0.5	0.52	MGL	104.0	( 81-116 )	

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**Tronox LLC - Henderson  
(continued)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
CCCS	Fluoride	0.05	0.045	MGL	90.0	( 50-150 )	
LCS1	Fluoride	1.00	1.00	MGL	100.0	( 81-116 )	
LCS2	Fluoride	1.00	1.03	MGL	103.0	( 81-116 )	
MBLK	Fluoride	ND	<0.050	MGL			
MRL_CHK	Fluoride	0.05	0.032	MGL	64.0	( 50-150 )	
MS	Fluoride	1.00	0.969	MGL	96.9	( 73-124 )	
MS2	Fluoride	1.00	0.990	MGL	99.0	( 73-124 )	
MSD	Fluoride	1.00	0.979	MGL	97.9	( 73-124 )	
MSD2	Fluoride	1.00	1.00	MGL	100.0	( 73-124 )	
RPD_LCS	Fluoride	100.000	103.000	MGL	3.0	( 0-20 )	
RPD_MS	Fluoride	96.900	97.900	MGL	1.0	( 0-20 )	

**QC Ref #401913                      Specific Conductance**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	617	616	UMHO		( 0-20 )	0.2
DUP2	Specific Conductance	2290	2290	UMHO		( 0-20 )	0.0
LCS1	Specific Conductance	1000	988	UMHO	98.8	( 90-110 )	
LCS2	Specific Conductance	1000	991	UMHO	99.1	( 90-110 )	
MBLK	Specific Conductance	ND	<2.0	UMHO			
MRL_CHK	Specific Conductance	2.00	2.00	UMHO	100.0	( 50-150 )	

**QC Ref #402348                      Alkalinity in CaCO3 units**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	12110589	MGL		( 0-0 )	
LCS1	Alkalinity in CaCO3 units	100	101	MGL	101.0	( 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	1.10	MGL	55.0	( 50-150 )	
MS	Alkalinity in CaCO3 units	100	77.0	MGL	<u>77.0</u>	( 80-120 )	
MS2	Alkalinity in CaCO3 units	100	75.0	MGL	<u>75.0</u>	( 80-120 )	
MSD	Alkalinity in CaCO3 units	100	73.0	MGL	<u>73.0</u>	( 80-120 )	
MSD2	Alkalinity in CaCO3 units	100	71.0	MGL	<u>71.0</u>	( 80-120 )	

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RPD_LCS	Alkalinity in CaCO3 units	101.000	103.000	MGL	2.0	( 0-10 )
RPD_MS	Alkalinity in CaCO3 units	77.000	73.000	MGL	5.3	( 0-20 )

## QC Ref #402558 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Total, ICAP	50	52.3	MGL	104.6	( 85-115 )	
LCS2	Calcium, Total, ICAP	50	55.1	MGL	110.2	( 85-115 )	
MBLK	Calcium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Calcium, Total, ICAP	1.000	1.06	MGL	106.0	( 50-150 )	
MS	Calcium, Total, ICAP	50	52.8	MGL	105.6	( 70-130 )	
MS2	Calcium, Total, ICAP	50	49.3	MGL	98.6	( 70-130 )	
MSD	Calcium, Total, ICAP	50	49.5	MGL	99.0	( 70-130 )	
MSD2	Calcium, Total, ICAP	50	49.2	MGL	98.4	( 70-130 )	
RPD_LCS	Calcium, Total, ICAP	104.600	110.200	MGL	5.2	( 0-20 )	
RPD_MS	Calcium, Total, ICAP	105.600	99.000	MGL	6.5	( 0-20 )	

## QC Ref #402587 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Total, ICAP	20	21.1	MGL	105.5	( 85-115 )	
LCS2	Magnesium, Total, ICAP	20	22.3	MGL	111.5	( 85-115 )	
MBLK	Magnesium, Total, ICAP	ND	<0.10	MGL			
MRL_CHK	Magnesium, Total, ICAP	0.100	0.110	MGL	110.0	( 50-150 )	
MS	Magnesium, Total, ICAP	20	21.7	MGL	108.5	( 70-130 )	
MS2	Magnesium, Total, ICAP	20	20.7	MGL	103.5	( 70-130 )	
MSD	Magnesium, Total, ICAP	20	20.7	MGL	103.5	( 70-130 )	
MSD2	Magnesium, Total, ICAP	20	20.5	MGL	102.5	( 70-130 )	
RPD_LCS	Magnesium, Total, ICAP	105.500	111.500	MGL	5.5	( 0-20 )	
RPD_MS	Magnesium, Total, ICAP	108.500	103.500	MGL	4.7	( 0-20 )	

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Tronox LLC - Henderson  
 (continued)

**QC Ref #402594                      Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Total, ICAP	50	51.5	MGL	103.0	( 85-115 )	
LCS2	Sodium, Total, ICAP	50	54.1	MGL	108.2	( 85-115 )	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	1.03	MGL	103.0	( 50-150 )	
MS	Sodium, Total, ICAP	50	54.8	MGL	109.6	( 70-130 )	
MS2	Sodium, Total, ICAP	50	52.8	MGL	105.6	( 70-130 )	
MSD	Sodium, Total, ICAP	50	53.2	MGL	106.4	( 70-130 )	
MSD2	Sodium, Total, ICAP	50	52.7	MGL	105.4	( 70-130 )	
RPD_LCS	Sodium, Total, ICAP	103.000	108.200	MGL	4.9	( 0-20 )	
RPD_MS	Sodium, Total, ICAP	109.600	106.400	MGL	3.0	( 0-20 )	

**QC Ref #402601                      Zinc, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Zinc, Total, ICAP	1.00	0.863	MGL	86.3	( 85-115 )	
LCS2	Zinc, Total, ICAP	1.00	1.06	MGL	106.0	( 85-115 )	
MBLK	Zinc, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Zinc, Total, ICAP	0.020	0.014	MGL	70.0	( 50-150 )	
MS	Zinc, Total, ICAP	1.00	1.11	MGL	111.0	( 70-130 )	
MSD	Zinc, Total, ICAP	1.00	1.08	MGL	108.0	( 70-130 )	

**QC Ref #402836                      Mercury**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	12100131	UGL		( 0-0 )	
LCS1	Mercury	1.50	1.51	UGL	100.7	( 85-115 )	
LCS2	Mercury	1.50	1.55	UGL	103.3	( 85-115 )	
MBLK	Mercury	ND	<0.20	UGL			
MRL_CHK	Mercury	0.200	0.200	UGL	100.0	( 50-150 )	

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Tronox LLC - Henderson  
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MS	Mercury	1.50	1.56	UGL	104.0	( 70-130 )
MSD	Mercury	1.50	1.54	UGL	102.7	( 70-130 )
RPD_LCS	Mercury	100.667	103.333	UGL	2.6	( 0-20 )
RPD_MS	Mercury	104.000	102.667	UGL	1.3	( 0-20 )

## QC Ref #402901 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110781	MGL		( 0-0 )	
LCS1	Potassium, Total, ICAP	20	21.2	MGL	106.0	( 85-115 )	
LCS2	Potassium, Total, ICAP	20	22.4	MGL	112.0	( 85-115 )	
MBLK	Potassium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Potassium, Total, ICAP	1.000	1.05	MGL	105.0	( 50-150 )	
MS	Potassium, Total, ICAP	20	22.9	MGL	114.5	( 70-130 )	
MS2	Potassium, Total, ICAP	20	22.3	MGL	111.5	( 70-130 )	
MSD	Potassium, Total, ICAP	20	22.4	MGL	112.0	( 70-130 )	
MSD2	Potassium, Total, ICAP	20	22.2	MGL	111.0	( 70-130 )	
RPD_LCS	Potassium, Total, ICAP	106.000	112.000	MGL	5.5	( 0-20 )	
RPD_MS	Potassium, Total, ICAP	114.500	112.000	MGL	2.2	( 0-20 )	

## QC Ref #403086 Boron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Boron, Total, ICAP	0.5	0.491	MGL	98.2	( 85-115 )	
LCS2	Boron, Total, ICAP	0.5	0.491	MGL	98.2	( 85-115 )	
MBLK	Boron, Total, ICAP	ND	<0.050	MGL			
MRL_CHK	Boron, Total, ICAP	0.050	0.0603	MGL	120.6	( 50-150 )	
MS	Boron, Total, ICAP	0.5	0.482	MGL	96.4	( 70-130 )	
MS2	Boron, Total, ICAP	0.5	0.533	MGL	106.6	( 70-130 )	
MSD	Boron, Total, ICAP	0.5	0.474	MGL	94.8	( 70-130 )	
MSD2	Boron, Total, ICAP	0.5	0.522	MGL	104.4	( 70-130 )	
RPD_LCS	Boron, Total, ICAP	98.200	98.200	MGL	0.0	( 0-20 )	
RPD_MS	Boron, Total, ICAP	96.400	94.800	MGL	1.7	( 0-20 )	

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QC Ref #403093                      Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.15	MGL	103.0	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	5.09	MGL	101.8	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0229	MGL	114.5	( 50-150 )	
MS	Iron, Total, ICAP	5.0	5.04	MGL	100.8	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	5.16	MGL	103.2	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.91	MGL	98.2	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	5.24	MGL	104.8	( 70-130 )	
RPD_LCS	Iron, Total, ICAP	103.000	101.800	MGL	1.2	( 0-20 )	
RPD_MS	Iron, Total, ICAP	100.800	98.200	MGL	2.6	( 0-20 )	

QC Ref #403326                      Weak Acid Dissociable Cyanide

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12100131	MGL		( 0-0 )	
LCS1	Weak Acid Dissociable Cyanide	0.10	0.099	MGL	99.0	( 90-110 )	
LCS2	Weak Acid Dissociable Cyanide	0.10	0.099	MGL	99.0	( 90-110 )	
MBLK	Weak Acid Dissociable Cyanide	ND	<0.0050	MGL			
MS	Weak Acid Dissociable Cyanide	0.10	0.112	MGL	112.0	( 85-115 )	
MSD	Weak Acid Dissociable Cyanide	0.10	0.112	MGL	112.0	( 85-115 )	

QC Ref #403554                      Volatile Organics HSL

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,2-Trichloroethane (1,1,2-T	5.0	4.78	UGL	95.6	( 82-117 )	
LCS2	1,1,2-Trichloroethane (1,1,2-T	5.0	4.78	UGL	95.6	( 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	10.7	UGL	107.0	( 82-130 )	
RPD_LCS	1,1,2-Trichloroethane (1,1,2-T	95.600	95.600	UGL	0.0	( 0-20 )	

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LCS1	1,1-Dichloroethylene (1,1DCE)	5.0	5.16	UGL	103.2	( 81-129 )
LCS2	1,1-Dichloroethylene (1,1DCE)	5.0	4.65	UGL	93.0	( 81-129 )
MBLK	1,1-Dichloroethylene (1,1DCE)	ND	<0.5	UGL		
MS	1,1-Dichloroethylene (1,1DCE)	10	10.8	UGL	108.0	( 82-140 )
RPD_LCS	1,1-Dichloroethylene (1,1DCE)	103.200	93.000	UGL	10.4	( 0-20 )
LCS1	1,1-Dichloroethane	5.0	4.75	UGL	95.0	( 85-120 )
LCS2	1,1-Dichloroethane	5.0	4.52	UGL	90.4	( 85-120 )
MBLK	1,1-Dichloroethane	ND	<0.5	UGL		
MS	1,1-Dichloroethane	10	11.1	UGL	111.0	( 84-133 )
RPD_LCS	1,1-Dichloroethane	95.000	90.400	UGL	5.0	( 0-20 )
LCS1	o-Dichlorobenzene (1,2-DCB)	5.0	4.56	UGL	91.2	( 88-118 )
LCS2	o-Dichlorobenzene (1,2-DCB)	5.0	4.74	UGL	94.8	( 88-118 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND	<0.5	UGL		
MS	o-Dichlorobenzene (1,2-DCB)	10	10.7	UGL	107.0	( 85-119 )
RPD_LCS	o-Dichlorobenzene (1,2-DCB)	91.200	94.800	UGL	3.9	( 0-20 )
LCS1	1,2-Dichloroethane	5.0	5.17	UGL	103.4	( 86-123 )
LCS2	1,2-Dichloroethane	5.0	5.05	UGL	101.0	( 86-123 )
MBLK	1,2-Dichloroethane	ND	<0.5	UGL		
MS	1,2-Dichloroethane	10	10.9	UGL	109.0	( 81-133 )
RPD_LCS	1,2-Dichloroethane	103.400	101.000	UGL	2.3	( 0-20 )
LCS1	1,2-Dichloropropane	5.0	4.96	UGL	99.2	( 84-112 )
LCS2	1,2-Dichloropropane	5.0	4.92	UGL	98.4	( 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	99.200	98.400	UGL	0.8	( 0-20 )
LCS1	m-Dichlorobenzene (1,3-DCB)	5.0	4.81	UGL	96.2	( 81-139 )
LCS2	m-Dichlorobenzene (1,3-DCB)	5.0	4.69	UGL	93.8	( 81-139 )
MBLK	m-Dichlorobenzene (1,3-DCB)	ND	<0.5	UGL		
MS	m-Dichlorobenzene (1,3-DCB)	10	11.0	UGL	110.0	( 82-136 )
RPD_LCS	m-Dichlorobenzene (1,3-DCB)	96.200	93.800	UGL	2.5	( 0-20 )
LCS1	p-Dichlorobenzene (1,4-DCB)	5.0	4.91	UGL	98.2	( 83-140 )
LCS2	p-Dichlorobenzene (1,4-DCB)	5.0	4.73	UGL	94.6	( 83-140 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND	<0.5	UGL		
MS	p-Dichlorobenzene (1,4-DCB)	10	10.8	UGL	108.0	( 80-135 )
RPD_LCS	p-Dichlorobenzene (1,4-DCB)	98.200	94.600	UGL	3.7	( 0-20 )
LCS1	2-Butanone (MEK)	50	43.2	UGL	86.4	( 71-120 )

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LCS2	2-Butanone (MEK)	50	44.0	UGL	88.0	( 71-120 )
MBLK	2-Butanone (MEK)	ND	<10	UGL		
MS	2-Butanone (MEK)	100	105	UGL	105.0	( 53-126 )
RPD_LCS	2-Butanone (MEK)	86.400	88.000	UGL	1.8	( 0-20 )
LCS1	2-Hexanone	50	47.7	UGL	95.4	( 75-115 )
LCS2	2-Hexanone	50	46.7	UGL	93.4	( 75-115 )
MBLK	2-Hexanone	ND	<10	UGL		
MS	2-Hexanone	100	113	UGL	113.0	( 58-139 )
RPD_LCS	2-Hexanone	95.400	93.400	UGL	2.1	( 0-20 )
LCS1	4-Methyl-2-Pentanone (MIBK)	50	47.9	UGL	95.8	( 76-118 )
LCS2	4-Methyl-2-Pentanone (MIBK)	50	48.3	UGL	96.6	( 76-118 )
MBLK	4-Methyl-2-Pentanone (MIBK)	ND	<10	UGL		
MS	4-Methyl-2-Pentanone (MIBK)	100	118	UGL	118.0	( 64-142 )
RPD_LCS	4-Methyl-2-Pentanone (MIBK)	95.800	96.600	UGL	0.8	( 0-20 )
MS	Spiked sample	Lab # 27	12180206	NONE		( 0-0 )
LCS1	Acetone	50	45.1	UGL	90.2	( 61-125 )
LCS2	Acetone	50	43.6	UGL	87.2	( 61-125 )
MBLK	Acetone	ND	<10	UGL		
MS	Acetone	100	97.9	UGL	97.9	( 17-132 )
RPD_LCS	Acetone	90.200	87.200	UGL	3.4	( 0-20 )
LCS1	Benzene	5.0	4.93	UGL	98.6	( 89-119 )
LCS2	Benzene	5.0	4.70	UGL	94.0	( 89-119 )
MBLK	Benzene	ND	<0.5	UGL		
MS	Benzene	10	10.8	UGL	108.0	( 85-131 )
RPD_LCS	Benzene	98.600	94.000	UGL	4.8	( 0-20 )
LCS1	cis-1,2-Dichloroethene	5.0	4.79	UGL	95.8	( 85-117 )
LCS2	cis-1,2-Dichloroethene	5.0	4.38	UGL	87.6	( 85-117 )
MBLK	cis-1,2-Dichloroethene	ND	<0.5	UGL		
MS	cis-1,2-Dichloroethene	10	10.6	UGL	106.0	( 85-132 )
RPD_LCS	cis-1,2-Dichloroethene	95.800	87.600	UGL	8.9	( 0-20 )
LCS1	Chlorobenzene	5.0	4.64	UGL	92.8	( 88-118 )
LCS2	Chlorobenzene	5.0	4.52	UGL	90.4	( 88-118 )
MBLK	Chlorobenzene	ND	<0.5	UGL		
MS	Chlorobenzene	10	10.9	UGL	109.0	( 87-126 )
RPD_LCS	Chlorobenzene	92.800	90.400	UGL	2.6	( 0-20 )
LCS1	cis-1,3-Dichloropropene	5.0	4.54	UGL	90.8	( 75-109 )

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Tronox LLC - Henderson  
 (continued)

LCS2	cis-1,3-Dichloropropene	5.0	4.67	UGL	93.4	( 75-109 )
MBLK	cis-1,3-Dichloropropene	ND	<0.5	UGL		
MS	cis-1,3-Dichloropropene	10	9.65	UGL	96.5	( 50-133 )
RPD_LCS	cis-1,3-Dichloropropene	90.800	93.400	UGL	2.8	( 0-20 )
LCS1	Bromoform	5.0	4.46	UGL	89.2	( 75-129 )
LCS2	Bromoform	5.0	4.48	UGL	89.6	( 75-129 )
MBLK	Bromoform	ND	<0.5	UGL		
MS	Bromoform	10	9.69	UGL	96.9	( 68-131 )
RPD_LCS	Bromoform	89.200	89.600	UGL	0.4	( 0-20 )
LCS1	Chloroform (Trichloromethane)	5.0	4.80	UGL	96.0	( 85-121 )
LCS2	Chloroform (Trichloromethane)	5.0	4.77	UGL	95.4	( 85-121 )
MBLK	Chloroform (Trichloromethane)	ND	<0.5	UGL		
MS	Chloroform (Trichloromethane)	10	10.8	UGL	108.0	( 81-140 )
RPD_LCS	Chloroform (Trichloromethane)	96.000	95.400	UGL	0.6	( 0-20 )
LCS1	Chloroethane	5.0	5.35	UGL	107.0	( 76-127 )
LCS2	Chloroethane	5.0	5.22	UGL	104.4	( 76-127 )
MBLK	Chloroethane	ND	<0.5	UGL		
MS	Chloroethane	10	10.6	UGL	106.0	( 58-159 )
RPD_LCS	Chloroethane	107.000	104.400	UGL	2.5	( 0-20 )
LCS1	Carbon disulfide	5.0	4.64	UGL	92.8	( 73-129 )
LCS2	Carbon disulfide	5.0	4.59	UGL	91.8	( 73-129 )
MBLK	Carbon disulfide	ND	<0.5	UGL		
MS	Carbon disulfide	10	10.1	UGL	101.0	( 80-138 )
RPD_LCS	Carbon disulfide	92.800	91.800	UGL	1.1	( 0-20 )
LCS1	Carbon Tetrachloride	5.0	4.81	UGL	96.2	( 79-124 )
LCS2	Carbon Tetrachloride	5.0	4.51	UGL	90.2	( 79-124 )
MBLK	Carbon Tetrachloride	ND	<0.5	UGL		
MS	Carbon Tetrachloride	10	11.6	UGL	116.0	( 77-145 )
RPD_LCS	Carbon Tetrachloride	96.200	90.200	UGL	6.4	( 0-20 )
LCS1	Dibromochloromethane	5.0	4.64	UGL	92.8	( 79-118 )
LCS2	Dibromochloromethane	5.0	4.64	UGL	92.8	( 79-118 )
MBLK	Dibromochloromethane	ND	<0.5	UGL		
MS	Dibromochloromethane	10	10.9	UGL	109.0	( 78-133 )
RPD_LCS	Dibromochloromethane	92.800	92.800	UGL	0.0	( 0-20 )
LCS1	Dichlorobromomethane	5.0	4.84	UGL	96.8	( 80-115 )
LCS2	Dichlorobromomethane	5.0	4.86	UGL	97.2	( 80-115 )

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**Tronox LLC - Henderson  
(continued)**

MBLK	Dichlorobromomethane	ND	<0.5	UGL		
MS	Dichlorobromomethane	10	11.0	UGL	110.0	( 81-132 )
RPD_LCS	Dichlorobromomethane	96.800	97.200	UGL	0.4	( 0-20 )
LCS1	Ethyl benzene	5.0	4.49	UGL	89.8	( 83-115 )
LCS2	Ethyl benzene	5.0	4.47	UGL	89.4	( 83-115 )
MBLK	Ethyl benzene	ND	<0.5	UGL		
MS	Ethyl benzene	10	11.4	UGL	114.0	( 85-128 )
RPD_LCS	Ethyl benzene	89.800	89.400	UGL	0.4	( 0-20 )
LCS1	Dichlorodifluoromethane	5.0	5.94	UGL	118.8	( 63-131 )
LCS2	Dichlorodifluoromethane	5.0	6.18	UGL	123.6	( 63-131 )
MBLK	Dichlorodifluoromethane	ND	<0.5	UGL		
MS	Dichlorodifluoromethane	10	7.40	UGL	74.0	( 74-151 )
RPD_LCS	Dichlorodifluoromethane	118.800	123.600	UGL	4.0	( 0-20 )
LCS1	Methyl Bromide	5.0	6.58	UGL	131.6	( 58-145 )
LCS2	Methyl Bromide	5.0	6.63	UGL	132.6	( 58-145 )
MBLK	Methyl Bromide	ND	<0.5	UGL		
MS	Methyl Bromide	10	10.1	UGL	101.0	( 48-158 )
RPD_LCS	Methyl Bromide	131.600	132.600	UGL	0.8	( 0-20 )
LCS1	Methyl Chloride	5.0	6.00	UGL	120.0	( 76-126 )
LCS2	Methyl Chloride	5.0	6.00	UGL	120.0	( 76-126 )
MBLK	Methyl Chloride	ND	<0.5	UGL		
MS	Methyl Chloride	10	9.07	UGL	90.7	( 68-141 )
RPD_LCS	Methyl Chloride	120.000	120.000	UGL	0.0	( 0-20 )
LCS1	Methylene Chloride	5.0	5.24	UGL	104.8	( 83-123 )
LCS2	Methylene Chloride	5.0	4.88	UGL	97.6	( 83-123 )
MBLK	Methylene Chloride	ND	<3.0	UGL		
MS	Methylene Chloride	10	10.8	UGL	108.0	( 83-134 )
RPD_LCS	Methylene Chloride	104.800	97.600	UGL	7.1	( 0-20 )
LCS1	m,p-Xylenes	10	9.15	UGL	91.5	( 89-120 )
LCS2	m,p-Xylenes	10	9.05	UGL	90.5	( 89-120 )
MBLK	m,p-Xylenes	ND	<1.0	UGL		
MS	m,p-Xylenes	20	23.2	UGL	116.0	( 85-139 )
RPD_LCS	m,p-Xylenes	91.500	90.500	UGL	1.1	( 0-20 )
LCS1	o-Xylene	5.0	4.54	UGL	90.8	( 84-111 )
LCS2	o-Xylene	5.0	4.30	UGL	86.0	( 84-111 )
MBLK	o-Xylene	ND	<0.5	UGL		

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MS	<u>o-Xylene</u>	10	11.4	UGL	114.0	( 50-150 )
RPD_LCS	<u>o-Xylene</u>	90.800	86.000	UGL	5.4	( 0-20 )
LCS1	1,1,2,2-Tetrachloroethane	5.0	5.06	UGL	101.2	( 83-131 )
LCS2	1,1,2,2-Tetrachloroethane	5.0	5.04	UGL	100.8	( 83-131 )
MBLK	1,1,2,2-Tetrachloroethane	ND	<0.5	UGL		
MS	1,1,2,2-Tetrachloroethane	10	11.3	UGL	113.0	( 83-127 )
RPD_LCS	1,1,2,2-Tetrachloroethane	101.200	100.800	UGL	0.4	( 0-20 )
LCS1	Tetrachloroethylene (PCE)	5.0	4.97	UGL	99.4	( 81-132 )
LCS2	Tetrachloroethylene (PCE)	5.0	4.62	UGL	92.4	( 81-132 )
MBLK	Tetrachloroethylene (PCE)	ND	<0.5	UGL		
MS	Tetrachloroethylene (PCE)	10	11.8	UGL	118.0	( 83-143 )
RPD_LCS	Tetrachloroethylene (PCE)	99.400	92.400	UGL	7.3	( 0-20 )
LCS1	Styrene	5.0	4.47	UGL	89.4	( 83-115 )
LCS2	Styrene	5.0	4.28	UGL	85.6	( 83-115 )
MBLK	Styrene	ND	<0.5	UGL		
MS	Styrene	10	11.6	UGL	116.0	( 56-140 )
RPD_LCS	Styrene	89.400	85.600	UGL	4.3	( 0-20 )
LCS1	1,2-dichloroethane-d4	100	101	%R	101.0	( 70-130 )
LCS2	1,2-dichloroethane-d4	100	95	%R	95.0	( 70-130 )
MBLK	1,2-dichloroethane-d4	100	111	%R	111.0	
MS	1,2-dichloroethane-d4	100	103	%R	103.0	( 70-130 )
RPD_LCS	1,2-dichloroethane-d4	101.000	95.000	%R	6.1	( 0-20 )
LCS1	Toluene-d8	100	102	%R	102.0	( 70-130 )
LCS2	Toluene-d8	100	103	%R	103.0	( 70-130 )
MBLK	Toluene-d8	100	94	%R	94.0	
MS	Toluene-d8	100	109	%R	109.0	( 70-130 )
RPD_LCS	Toluene-d8	102.000	103.000	%R	1.0	( 0-20 )
LCS1	4-Bromofluorobenzene	100	101	%R	101.0	( 70-130 )
LCS2	4-Bromofluorobenzene	100	98	%R	98.0	( 70-130 )
MBLK	4-Bromofluorobenzene	100	96	%R	96.0	
MS	4-Bromofluorobenzene	100	97	%R	97.0	( 70-130 )
RPD_LCS	4-Bromofluorobenzene	101.000	98.000	%R	3.0	( 0-20 )
LCS1	trans-1,2-Dichloroethene	5.0	5.24	UGL	104.8	( 84-126 )
LCS2	trans-1,2-Dichloroethene	5.0	4.52	UGL	90.4	( 84-126 )
MBLK	trans-1,2-Dichloroethene	ND	<0.5	UGL		
MS	trans-1,2-Dichloroethene	10	10.6	UGL	106.0	( 82-136 )

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RPD_LCS	trans-1,2-Dichloroethene	104.800	90.400	UGL	14.8	( 0-20 )
LCS1	1,1,1-Trichloroethane	5.0	4.93	UGL	98.6	( 82-121 )
LCS2	1,1,1-Trichloroethane	5.0	4.62	UGL	92.4	( 82-121 )
MBLK	1,1,1-Trichloroethane	ND	<0.5	UGL		
MS	1,1,1-Trichloroethane	10	11.7	UGL	117.0	( 84-137 )
RPD_LCS	1,1,1-Trichloroethane	98.600	92.400	UGL	6.5	( 0-20 )
LCS1	Trichloroethylene (TCE)	5.0	4.53	UGL	90.6	( 86-120 )
LCS2	Trichloroethylene (TCE)	5.0	4.87	UGL	97.4	( 86-120 )
MBLK	Trichloroethylene (TCE)	ND	<0.5	UGL		
MS	Trichloroethylene (TCE)	10	10.4	UGL	104.0	( 86-130 )
RPD_LCS	Trichloroethylene (TCE)	90.600	97.400	UGL	7.2	( 0-20 )
LCS1	Trichlorofluoromethane	5.0	5.66	UGL	113.2	( 76-133 )
LCS2	Trichlorofluoromethane	5.0	5.52	UGL	110.4	( 76-133 )
MBLK	Trichlorofluoromethane	ND	<0.5	UGL		
MS	Trichlorofluoromethane	10	12.2	UGL	122.0	( 75-153 )
RPD_LCS	Trichlorofluoromethane	113.200	110.400	UGL	2.5	( 0-20 )
LCS1	trans-1,3-Dichloropropene	5.0	4.49	UGL	89.8	( 71-114 )
LCS2	trans-1,3-Dichloropropene	5.0	4.57	UGL	91.4	( 71-114 )
MBLK	trans-1,3-Dichloropropene	ND	<0.5	UGL		
MS	trans-1,3-Dichloropropene	10	10.3	UGL	103.0	( 45-141 )
RPD_LCS	trans-1,3-Dichloropropene	89.800	91.400	UGL	1.8	( 0-20 )
LCS1	Tetrahydrofuran	50	46.0	UGL	92.0	( 79-121 )
LCS2	Tetrahydrofuran	50	44.9	UGL	89.8	( 79-121 )
MBLK	Tetrahydrofuran	ND	<10	UGL		
MS	Tetrahydrofuran	100	99.0	UGL	99.0	( 66-134 )
RPD_LCS	Tetrahydrofuran	92.000	89.800	UGL	2.4	( 0-20 )
LCS1	Toluene	5.0	4.50	UGL	90.0	( 88-118 )
LCS2	Toluene	5.0	4.50	UGL	90.0	( 88-118 )
MBLK	Toluene	ND	<0.5	UGL		
MS	Toluene	10	10.6	UGL	106.0	( 87-128 )
RPD_LCS	Toluene	90.000	90.000	UGL	0.0	( 0-20 )
LCS1	Vinyl Chloride (VC)	5.0	5.22	UGL	104.4	( 72-125 )
LCS2	Vinyl Chloride (VC)	5.0	5.11	UGL	102.2	( 72-125 )
MBLK	Vinyl Chloride (VC)	ND	<0.5	UGL		
MS	Vinyl Chloride (VC)	10	9.11	UGL	91.1	( 79-137 )
RPD_LCS	Vinyl Chloride (VC)	104.400	102.200	UGL	2.1	( 0-20 )

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LCS1	Vinyl Acetate	25	24.5	UGL	98.0	( 61-125 )
LCS2	Vinyl Acetate	25	24.3	UGL	97.2	( 61-125 )
MBLK	Vinyl Acetate	ND	<10	UGL		
MS	Vinyl Acetate	50	55.8	UGL	111.6	( 40-142 )
RPD_LCS	Vinyl Acetate	98.000	97.200	UGL	0.8	( 0-20 )

**QC Ref #403835 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12110288	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	2576	2684	MGL		( 0-10 )	4.1
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	682	MGL	97.4	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	13	MGL	130.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	97.143	97.429	MGL	0.3	( 0-20 )	

**QC Ref #404619 Thallium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Thallium, Total, ICAP/MS	20.0	20.2	UGL	101.0	( 85-115 )	
LCS2	Thallium, Total, ICAP/MS	20.0	20.4	UGL	102.0	( 85-115 )	
MBLK	Thallium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Thallium, Total, ICAP/MS	1.000	1.09	UGL	109.0	( 50-150 )	
MS	Thallium, Total, ICAP/MS	20.0	19.8	UGL	99.0	( 70-130 )	
MS2	Thallium, Total, ICAP/MS	20.0	21.7	UGL	108.5	( 70-130 )	
MSD	Thallium, Total, ICAP/MS	20.0	21.0	UGL	105.0	( 70-130 )	
MSD2	Thallium, Total, ICAP/MS	20.0	21.7	UGL	108.5	( 70-130 )	
RPD_LCS	Thallium, Total, ICAP/MS	101.000	102.000	UGL	1.0	( 0-20 )	
RPD_MS	Thallium, Total, ICAP/MS	99.000	105.000	UGL	5.9	( 0-20 )	

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QC Ref #404620                      Selenium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Selenium, Total, ICAP/MS	20	19.3	UGL	96.5	( 85-115 )	
LCS2	Selenium, Total, ICAP/MS	20	19.6	UGL	98.0	( 85-115 )	
MBLK	Selenium, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Selenium, Total, ICAP/MS	5.000	5.08	UGL	101.6	( 50-150 )	
MS	Selenium, Total, ICAP/MS	20	22.7	UGL	113.5	( 70-130 )	
MS2	Selenium, Total, ICAP/MS	20	23.9	UGL	119.5	( 70-130 )	
MSD	Selenium, Total, ICAP/MS	20	23.7	UGL	118.5	( 70-130 )	
MSD2	Selenium, Total, ICAP/MS	20	23.7	UGL	118.5	( 70-130 )	
RPD_LCS	Selenium, Total, ICAP/MS	96.500	98.000	UGL	1.5	( 0-20 )	
RPD_MS	Selenium, Total, ICAP/MS	113.500	118.500	UGL	4.3	( 0-20 )	

QC Ref #404623                      Antimony, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Antimony, Total, ICAP/MS	50	50.4	UGL	100.8	( 85-115 )	
LCS2	Antimony, Total, ICAP/MS	50	50.2	UGL	100.4	( 85-115 )	
MBLK	Antimony, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Antimony, Total, ICAP/MS	1.000	1.05	UGL	105.0	( 50-150 )	
MS	Antimony, Total, ICAP/MS	50	50.5	UGL	101.0	( 70-130 )	
MS2	Antimony, Total, ICAP/MS	50	55.2	UGL	110.4	( 70-130 )	
MSD	Antimony, Total, ICAP/MS	50	52.5	UGL	105.0	( 70-130 )	
MSD2	Antimony, Total, ICAP/MS	50	55.2	UGL	110.4	( 70-130 )	
RPD_LCS	Antimony, Total, ICAP/MS	100.800	100.400	UGL	0.4	( 0-20 )	
RPD_MS	Antimony, Total, ICAP/MS	101.000	105.000	UGL	3.9	( 0-20 )	

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QC Ref #404624      Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	12190436	UGL	0.0	( 0-0 )	
LCS1	Lead, Total, ICAP/MS	20	20.2	UGL	101.0	( 85-115 )	
LCS2	Lead, Total, ICAP/MS	20	20.2	UGL	101.0	( 85-115 )	
MBLK	Lead, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Lead, Total, ICAP/MS	0.500	0.505	UGL	101.0	( 50-150 )	
MS	Lead, Total, ICAP/MS	20	19.7	UGL	98.5	( 70-130 )	
MS2	Lead, Total, ICAP/MS	20	21.7	UGL	108.5	( 70-130 )	
MSD	Lead, Total, ICAP/MS	20	20.8	UGL	104.0	( 70-130 )	
MSD2	Lead, Total, ICAP/MS	20	21.7	UGL	108.5	( 70-130 )	
RPD_LCS	Lead, Total, ICAP/MS	101.000	101.000	UGL	0.0	( 0-20 )	
RPD_MS	Lead, Total, ICAP/MS	98.500	104.000	UGL	5.4	( 0-20 )	

QC Ref #404625      Nickel, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Nickel, Total, ICAP/MS	50	49.5	UGL	99.0	( 85-115 )	
LCS2	Nickel, Total, ICAP/MS	50	49.6	UGL	99.2	( 85-115 )	
MBLK	Nickel, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Nickel, Total, ICAP/MS	5.000	5.29	UGL	105.8	( 50-150 )	
MS	Nickel, Total, ICAP/MS	50	47.5	UGL	95.0	( 70-130 )	
MS2	Nickel, Total, ICAP/MS	50	53.2	UGL	106.4	( 70-130 )	
MSD	Nickel, Total, ICAP/MS	50	49.4	UGL	98.8	( 70-130 )	
MSD2	Nickel, Total, ICAP/MS	50	52.6	UGL	105.2	( 70-130 )	
RPD_LCS	Nickel, Total, ICAP/MS	99.000	99.200	UGL	0.2	( 0-20 )	
RPD_MS	Nickel, Total, ICAP/MS	95.000	98.800	UGL	3.9	( 0-20 )	

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QC Ref #404626                      Manganese, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Manganese, Total, ICAP/MS	50	48.5	UGL	97.0	( 85-115 )	
LCS2	Manganese, Total, ICAP/MS	50	49.2	UGL	98.4	( 85-115 )	
MBLK	Manganese, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Manganese, Total, ICAP/MS	2.000	2.05	UGL	102.5	( 50-150 )	
MS	Manganese, Total, ICAP/MS	50	47.0	UGL	94.0	( 70-130 )	
MS2	Manganese, Total, ICAP/MS	50	52.6	UGL	105.2	( 70-130 )	
MSD	Manganese, Total, ICAP/MS	50	49.9	UGL	99.8	( 70-130 )	
MSD2	Manganese, Total, ICAP/MS	50	52.4	UGL	104.8	( 70-130 )	
RPD_LCS	Manganese, Total, ICAP/MS	97.000	98.400	UGL	1.4	( 0-20 )	
RPD_MS	Manganese, Total, ICAP/MS	94.000	99.800	UGL	6.0	( 0-20 )	

QC Ref #404634                      Copper, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Copper, Total, ICAP/MS	100	99.4	UGL	99.4	( 85-115 )	
LCS2	Copper, Total, ICAP/MS	100	99.7	UGL	99.7	( 85-115 )	
MBLK	Copper, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Copper, Total, ICAP/MS	2.000	2.12	UGL	106.0	( 50-150 )	
MS	Copper, Total, ICAP/MS	100	96.2	UGL	96.2	( 70-130 )	
MS2	Copper, Total, ICAP/MS	100	107	UGL	107.0	( 70-130 )	
MSD	Copper, Total, ICAP/MS	100	100	UGL	100.0	( 70-130 )	
MSD2	Copper, Total, ICAP/MS	100	107	UGL	107.0	( 70-130 )	
RPD_LCS	Copper, Total, ICAP/MS	99.400	99.700	UGL	0.3	( 0-20 )	
RPD_MS	Copper, Total, ICAP/MS	96.200	100.000	UGL	3.9	( 0-20 )	

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**QC Ref #404644                      Beryllium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Beryllium, Total, ICAP/MS	5.00	5.14	UGL	102.8	( 85-115 )	
LCS2	Beryllium, Total, ICAP/MS	5.00	4.93	UGL	98.6	( 85-115 )	
MBLK	Beryllium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Beryllium, Total, ICAP/MS	1.000	1.11	UGL	111.0	( 50-150 )	
MS	Beryllium, Total, ICAP/MS	5.00	5.14	UGL	102.8	( 70-130 )	
MS2	Beryllium, Total, ICAP/MS	5.00	5.67	UGL	113.4	( 70-130 )	
MSD	Beryllium, Total, ICAP/MS	5.00	5.11	UGL	102.2	( 70-130 )	
MSD2	Beryllium, Total, ICAP/MS	5.00	5.59	UGL	111.8	( 70-130 )	
RPD_LCS	Beryllium, Total, ICAP/MS	102.800	98.600	UGL	4.2	( 0-20 )	
RPD_MS	Beryllium, Total, ICAP/MS	102.800	102.200	UGL	0.6	( 0-20 )	

**QC Ref #404660                      Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	98.3	UGL	98.3	( 85-115 )	
LCS2	Chromium, Total, ICAP/MS	100	98.9	UGL	98.9	( 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	93.9	UGL	93.9	( 70-130 )	
MS2	Chromium, Total, ICAP/MS	100	107	UGL	107.0	( 70-130 )	
MSD	Chromium, Total, ICAP/MS	100	99.5	UGL	99.5	( 70-130 )	
MSD2	Chromium, Total, ICAP/MS	100	106	UGL	106.0	( 70-130 )	
RPD_LCS	Chromium, Total, ICAP/MS	98.300	98.900	UGL	0.6	( 0-20 )	
RPD_MS	Chromium, Total, ICAP/MS	93.900	99.500	UGL	5.8	( 0-20 )	

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QC Ref #404661      Cadmium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Cadmium, Total, ICAP/MS	20	20.3	UGL	101.5	( 85-115 )	
LCS2	Cadmium, Total, ICAP/MS	20	20.5	UGL	102.5	( 85-115 )	
MBLK	Cadmium, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Cadmium, Total, ICAP/MS	0.500	0.540	UGL	108.0	( 50-150 )	
MS	Cadmium, Total, ICAP/MS	20	20.4	UGL	102.0	( 70-130 )	
MS2	Cadmium, Total, ICAP/MS	20	22.7	UGL	113.5	( 70-130 )	
MSD	Cadmium, Total, ICAP/MS	20	21.5	UGL	107.5	( 70-130 )	
MSD2	Cadmium, Total, ICAP/MS	20	22.5	UGL	112.5	( 70-130 )	
RPD_LCS	Cadmium, Total, ICAP/MS	101.500	102.500	UGL	1.0	( 0-20 )	
RPD_MS	Cadmium, Total, ICAP/MS	102.000	107.500	UGL	5.3	( 0-20 )	

QC Ref #404664      Barium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Barium, Total, ICAP/MS	100	98.7	UGL	98.7	( 85-115 )	
LCS2	Barium, Total, ICAP/MS	100	98.4	UGL	98.4	( 85-115 )	
MBLK	Barium, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Barium, Total, ICAP/MS	2.000	2.09	UGL	104.5	( 50-150 )	
MS	Barium, Total, ICAP/MS	100	95.2	UGL	95.2	( 70-130 )	
MS2	Barium, Total, ICAP/MS	100	103	UGL	103.0	( 70-130 )	
MSD	Barium, Total, ICAP/MS	100	97.8	UGL	97.8	( 70-130 )	
MSD2	Barium, Total, ICAP/MS	100	105	UGL	105.0	( 70-130 )	
RPD_LCS	Barium, Total, ICAP/MS	98.700	98.400	UGL	0.3	( 0-20 )	
RPD_MS	Barium, Total, ICAP/MS	95.200	97.800	UGL	2.7	( 0-20 )	

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QC Ref #404665                      Arsenic, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, ICAP/MS	20	19.7	UGL	98.5	( 85-115 )	
LCS2	Arsenic, Total, ICAP/MS	20	19.8	UGL	99.0	( 85-115 )	
MBLK	Arsenic, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Arsenic, Total, ICAP/MS	1.000	1.05	UGL	105.0	( 50-150 )	
MS	Arsenic, Total, ICAP/MS	20	21.0	UGL	105.0	( 70-130 )	
MS2	Arsenic, Total, ICAP/MS	20	22.2	UGL	111.0	( 70-130 )	
MSD	Arsenic, Total, ICAP/MS	20	22.1	UGL	110.5	( 70-130 )	
MSD2	Arsenic, Total, ICAP/MS	20	22.1	UGL	110.5	( 70-130 )	
RPD_LCS	Arsenic, Total, ICAP/MS	98.500	99.000	UGL	0.5	( 0-20 )	
RPD_MS	Arsenic, Total, ICAP/MS	105.000	110.500	UGL	5.1	( 0-20 )	

QC Ref #404677                      Aluminum, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Aluminum, Total, ICAP/MS	200	203	UGL	101.5	( 85-115 )	
LCS2	Aluminum, Total, ICAP/MS	200	201	UGL	100.5	( 85-115 )	
MBLK	Aluminum, Total, ICAP/MS	ND	<20	UGL			
MRL_CHK	Aluminum, Total, ICAP/MS	25.000	21.1	UGL	84.4	( 50-150 )	
MS	Aluminum, Total, ICAP/MS	200	190	UGL	95.0	( 70-130 )	
MS2	Aluminum, Total, ICAP/MS	200	211	UGL	105.5	( 70-130 )	
MSD	Aluminum, Total, ICAP/MS	200	192	UGL	96.0	( 70-130 )	
MSD2	Aluminum, Total, ICAP/MS	200	216	UGL	108.0	( 70-130 )	
RPD_LCS	Aluminum, Total, ICAP/MS	101.500	100.500	UGL	1.0	( 0-20 )	
RPD_MS	Aluminum, Total, ICAP/MS	95.000	96.000	UGL	1.0	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson  
(continued)

QC Ref #404682                      Silver, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Silver, Total, ICAP/MS	50	51.7	UGL	103.4	( 85-115 )	
LCS2	Silver, Total, ICAP/MS	50	51.7	UGL	103.4	( 85-115 )	
MBLK	Silver, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Silver, Total, ICAP/MS	0.500	0.630	UGL	126.0	( 50-150 )	
MS	Silver, Total, ICAP/MS	50	49.7	UGL	99.4	( 70-130 )	
MS2	Silver, Total, ICAP/MS	50	53.5	UGL	107.0	( 70-130 )	
MSD	Silver, Total, ICAP/MS	50	52.5	UGL	105.0	( 70-130 )	
MSD2	Silver, Total, ICAP/MS	50	53.6	UGL	107.2	( 70-130 )	
RPD_LCS	Silver, Total, ICAP/MS	103.400	103.400	UGL	0.0	( 0-20 )	
RPD_MS	Silver, Total, ICAP/MS	99.400	105.000	UGL	5.5	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
are advisory only, unless otherwise specified in the method.