



# 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  
Jun 16 2008  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager

Report#240016R replaces the original Report.



Report#: 240016R  
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 15 page[s].



## MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91010-3620  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

June 9, 2008

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

Subject: Case Narrative report 240016

Enclosed is MWH Laboratories Report 240016

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 07, 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:

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

Samples for hex chrome( EB-1, M-37) were received after the RCRA 24 hour holding time and are reported with an H3 flag.

Report revised to remove duplicate QC.

Sincerely,

Andrew Eaton, PhD  
Project Manager



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

750 Royal Oaks Ave, Suite 100, Menlo Park, CA 94025  
 (626) 386-1100 (800) 566-5227

240016

SAMPLES CHECKED/LOGGED IN BY: MLD

SAMPLE TEMP, RECEIPT AT LAB: 20

BLUE ICE:  FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#  
 Quarry Groundwater Sampling  
 Schedule B

SAMPLER  
 Michele Brown

Tronex LLC - Henderson Plant  
 PO Box 55  
 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER Comments
							CR 6010	PH 9040	TDS	ClO <sub>2</sub>	CRM 7196	ClO <sub>3</sub> 9056	NO <sub>3</sub> 9056	See Bottle Order			
7:59	5-6-08		M-131	RGW	X		X	X	X	X	X						2 Bottles
8:14	5-6-08		M-57A	RGW	X		X	X	X	X	X						2 Bottles
8:29	5-6-08		M-79	RGW	X		X	X	X	X	X						2 Bottles
8:47	5-6-08		M-69	RGW	X		X	X	X	X	X						2 Bottles
9:02	5-6-08		M-135	RGW	X		X	X	X	X	X						2 Bottles
5:48	5-6-08		PC-130	RGW	X		X	X	X	X	X						2 Bottles
8:31	5-6-08		EB-1	RGW	X		X	X	X	X	X						4 Bottles
-	5-6-08		M-98	RGW	X		X	X	X	X	X						3 Bottles
10:45	5-6-08		M-99	RGW	X		X	X	X	X	X						3 Bottles
11:40	5-6-08		M-25	RGW	X		X	X	X	X	X						0 Bottles
12:00	5-6-08		M-37	RGW	X		X	X	X	X	X						2 Bottles
5-6-08			MD-3	RGW	X		X	X	X	X	X						4 Bottles
																	5 Bottles
																	2 Bottles

Reported by Weight:  
 SO = Soil  
 SL = Sludge

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

RGW = Raw Ground Water  
 RSW = Raw Surface Water

Reported by Volume:  
 CFW = Chlorinated Finished Water  
 FW = Other Finished Water

SIGNATURE

RECEIVED BY: Michele Brown  
 RECEIVED BY: [Signature]  
 RECEIVED BY: [Signature]

PRINT NAME

Michele Brown

COMPANY/TITLE

Veolia Water NA for Tronex LLC - Henderson Plant

DATE

5-6-08

TIME

12:00PM

SCANNED



THIS MEMORANDUM is an acknowledgment 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: 143095

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>05/06/08</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>	
N/AR		CODE NO. WCN IS <b>1321.10400</b>	
CUSTOMER PO OR REQ'N NO.		1321.10400	
SHIPPED FROM <b>Henderson, NV</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 Monitoring Wells quarterly  One ice chest @ 50 Lbs One ice chest @ 60 Lbs One ice chest @ 60 Lbs One ice chest @ 70 Lbs  Not Regulated		1 COOLER
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		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.	
PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		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.	
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
1	TOTAL GROSS WEIGHT 240	0 TOTAL TARE WEIGHT	240
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 _____			
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

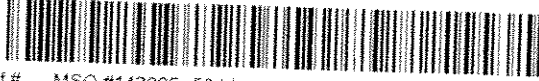
SCANNED

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



Ship Date: 06MAY08  
ActWgt: 50 LB  
System#: 2274147/INET8011  
Account#: S \*\*\*\*\*

Delivery Address Bar Code

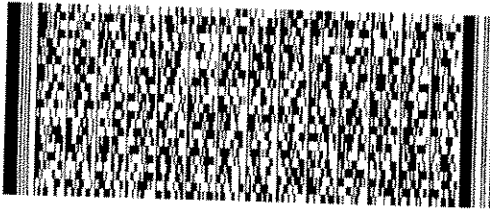


Ref # MSO #143095 -50 Lbs  
Invoice #  
PO #  
Dept #

SHIP TO: 6265686400 **BILL SENDER**  
**ATTN: SAMPLE RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS DR # 100**  
  
**MONROVIA, CA 910163629**

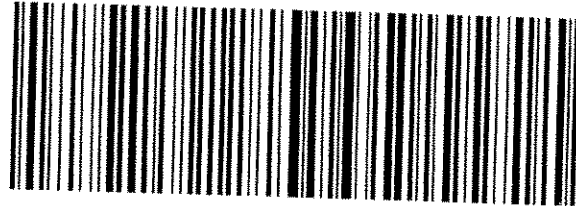
TRK# 7926 9543 2849  
0201

WED - 07MAY A2  
PRIORITY OVERNIGHT



**QZ WHPA**

91016  
CA-US  
BUR



Shipping Label: Your shipment is complete

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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#: 240016  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 05/07/08. 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
2805080191	M-131	CLO4 CR6010	Water P	06-may-2008 07:59:00 T TDS
2805080192	M-57A	CLO4 CR6010	Water P	06-may-2008 08:14:00 T TDS
2805080193	M-79	CLO4 CR6010	Water P	06-may-2008 08:29:00 T TDS
2805080194	M-69	CLO4 CR6010	Water P	06-may-2008 08:47:00 T TDS
2805080195	M-135	CLO4 CR6010	Water P	06-may-2008 09:02:00 T TDS
2805080196	PC-130	CLO4 CR6010	Water P	06-may-2008 05:28:00 T TDS
2805080197	EB-1	CLO39056 CLO4 T TDS	Water CR6010	06-may-2008 08:31:00 PH9040 T
2805080199	M-99	CLO4 CR6010	Water CRVI7196 P	06-may-2008 10:45:00 PH9040 T
2805080200	M-25	CLO4 CR6010	Water P	06-may-2008 11:40:00 T TDS
2805080201	M-37	CLO39056 CLO4 T TDS	Water CR6010	06-may-2008 12:00:00 PH9040 P
2805080202	MD-3	CLO4 CR6010	Water P	06-may-2008 00:00:00 PH9040 T TDS

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate
CR6010	Chromium, 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#: 240016  
Project#: CLO4  
Proj Mgr: Andrew Eaton  
Phone: (626) 386-1125

Test Acronym Description

Test Acronym	Description
CRVI7196	Hexavalent chromium (Cr VI)
NO39056	Nitrate as Nitrogen by IC
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)





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Report  
Comments  
#240016

**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**

Report revised to correct QC for PH9040.

(QC Ref#: 2805080197)

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196)

H3 - Sample was received and analyzed past holding time.  
Data not acceptable for regulatory compliance.

(QC Ref#: 2805080201)

Test: Hexavalent chromium (Cr VI) (ML/EPA 7196)

H3 - Sample was received and analyzed past holding time.  
Data not acceptable for regulatory compliance.



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Laboratory  
Hits Report  
#240016

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

Samples Received  
07-may-2008 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2805080191</b>	<b>M-131</b>				
05/18/08		Chromium, Total, ICAP	0.081		mg/l	0.020
05/15/08		Metals digestion performed.	Y		Yes/No	
05/07/08		PH (H3=past HT, not compliant)	7.9		Units	0.0010
05/10/08		Perchlorate	62900		ug/l	10000
05/08/08		Total Dissolved Solid (TDS)	3100	500	mg/l	10
	<b>2805080192</b>	<b>M-57A</b>				
05/18/08		Chromium, Total, ICAP	0.076		mg/l	0.020
05/15/08		Metals digestion performed.	Y		Yes/No	
05/07/08		PH (H3=past HT, not compliant)	7.8		Units	0.0010
05/10/08		Perchlorate	27200		ug/l	4000
05/08/08		Total Dissolved Solid (TDS)	3160	500	mg/l	10
	<b>2805080193</b>	<b>M-79</b>				
05/18/08		Chromium, Total, ICAP	0.42		mg/l	0.020
05/15/08		Metals digestion performed.	Y		Yes/No	
05/07/08		PH (H3=past HT, not compliant)	7.9		Units	0.0010
05/13/08		Perchlorate	79700		ug/l	10000
05/08/08		Total Dissolved Solid (TDS)	1640	500	mg/l	10
	<b>2805080194</b>	<b>M-69</b>				
05/18/08		Chromium, Total, ICAP	0.081		mg/l	0.020
05/15/08		Metals digestion performed.	Y		Yes/No	
05/07/08		PH (H3=past HT, not compliant)	7.7		Units	0.0010
05/10/08		Perchlorate	420000		ug/l	40000
05/08/08		Total Dissolved Solid (TDS)	4040	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Hits Report  
#240016

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

Samples Received  
07-may-2008 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2805080195	M-135				
	2805080195	M-135				
05/18/08	Chromium, Total, ICAP		0.085		mg/l	0.020
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	PH (H3=past HT, not compliant)		7.8		Units	0.0010
05/10/08	Perchlorate		42100		ug/l	10000
05/08/08	Total Dissolved Solid (TDS)		3430	500	mg/l	10
	2805080196	PC-130				
05/09/08	Chlorate by IC		646000		ug/l	50000
05/18/08	Chromium, Total, ICAP		0.77		mg/l	0.020
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	Nitrate as Nitrogen by IC		110		mg/l	5.0
05/07/08	PH (H3=past HT, not compliant)		7.7		Units	0.0010
05/10/08	Perchlorate		453000		ug/l	40000
05/08/08	Total Dissolved Solid (TDS)		6700	500	mg/l	10
	2805080197	EB-1				
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	PH (H3=past HT, not compliant)		6.4		Units	0.0010
05/10/08	Perchlorate		79		ug/l	4.0
05/08/08	Total Dissolved Solid (TDS)		2730	500	mg/l	10
	2805080199	M-99				
05/18/08	Chromium, Total, ICAP		0.27		mg/l	0.020
05/15/08	Metals digestion performed.		Y		Yes/No	

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Laboratory  
 Hits Report  
 #240016

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

Samples Received  
 07-may-2008 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2805080199	M-99				
05/07/08	PH (H3=past HT, not compliant)		7.6		Units	0.0010
05/10/08	Perchlorate		217000		ug/l	100000
05/08/08	Total Dissolved Solid (TDS)		3570	500	mg/l	10
	2805080200	M-25				
05/09/08	Chlorate by IC		3490000		ug/l	50000
05/18/08	Chromium, Total, ICAP		13		mg/l	0.050
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	Nitrate as Nitrogen by IC		64		mg/l	5.0
05/07/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010
05/10/08	Perchlorate		413000		ug/l	40000
05/08/08	Total Dissolved Solid (TDS)		9000	500	mg/l	10
	2805080201	M-37				
05/10/08	Chlorate by IC		19200		ug/l	500
05/18/08	Chromium, Total, ICAP		0.032		mg/l	0.020
05/07/08	Hexavalent chromium (Cr VI)		0.034		mg/l	0.0050
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	Nitrate as Nitrogen by IC		119		mg/l	2.5
05/07/08	PH (H3=past HT, not compliant)		7.2		Units	0.0010
05/10/08	Perchlorate		2200000		ug/l	200000
05/08/08	Total Dissolved Solid (TDS)		4930	500	mg/l	10
	2805080202	MD-3				
05/18/08	Chromium, Total, ICAP		0.081		mg/l	0.020
05/15/08	Metals digestion performed.		Y		Yes/No	
05/07/08	PH (H3=past HT, not compliant)		7.5		Units	0.0010

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#240016

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

Samples Received  
07-may-2008 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2805080202	MD-3				
05/10/08	Perchlorate		415000		ug/l	100000
05/08/08	Total Dissolved Solid (TDS)		4020	500	mg/l	10

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Laboratory  
Data Report  
#240016

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

Samples Received  
05/07/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-131 (2805080191)</b>				<b>Sampled on 05/06/08 07:59</b>				
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	62900	ug/l	10000	2500
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.081	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3100	mg/l	10	1
<b>M-57A (2805080192)</b>				<b>Sampled on 05/06/08 08:14</b>				
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	27200	ug/l	4000	1000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.076	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3160	mg/l	10	1
<b>M-79 (2805080193)</b>				<b>Sampled on 05/06/08 08:29</b>				
	05/13/08 21:37	427266	( EPA 314 )	Perchlorate	79700	ug/l	10000	2500
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.42	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	1640	mg/l	10	1
<b>M-69 (2805080194)</b>				<b>Sampled on 05/06/08 08:47</b>				
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	420000	ug/l	40000	10000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.081	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4040	mg/l	10	1

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-135 (2805080195)</b>					<b>Sampled on 05/06/08 09:02</b>			
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	42100	ug/l	10000	2500
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.085	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3430	mg/l	10	1
<b>PC-130 (2805080196)</b>					<b>Sampled on 05/06/08 05:28</b>			
	05/09/08 22:15	426010	( ML/EPA 9056 )	Chlorate by IC	646000	ug/l	50000	5000
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	453000	ug/l	40000	10000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.77	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 15:21	426312	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	110	mg/l	5.0	50
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/08/08	05/08/08 08:20	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	6700	mg/l	10	1
<b>EB-1 (2805080197)</b>					<b>Sampled on 05/06/08 08:31</b>			
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	79	ug/l	4.0	1
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	05/07/08 20:22	426005	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	ND(H3)	mg/l	0.0050	1
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425726	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	6.4	Units	0.0010	1
05/08/08	05/08/08 08:20	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	2730	mg/l	10	1
<b>M-99 (2805080199)</b>					<b>Sampled on 05/06/08 10:45</b>			
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	217000	ug/l	100000	25000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.27	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425739	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3570	mg/l	10	1



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Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-25 (2805080200)</b>		<b>Sampled on 05/06/08 11:40</b>						
	05/09/08 22:15	426010	( ML/EPA 9056 )	Chlorate by IC	3490000	ug/l	50000	5000
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	413000	ug/l	40000	10000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	13	mg/l	0.050	5
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 15:34	426312	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	64	mg/l	5.0	50
	05/07/08 00:00	425739	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	9000	mg/l	10	1
<b>M-37 (2805080201)</b>		<b>Sampled on 05/06/08 12:00</b>						
	05/10/08 16:34	426031	( ML/EPA 9056 )	Chlorate by IC	19200	ug/l	500	50
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	2200000	ug/l	200000	50000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.032	mg/l	0.020	2
	05/07/08 20:22	426005	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	0.034(H3)	mg/l	0.0050	1
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 15:48	426312	( ML/EPA 9056 )	Nitrate as Nitrogen by IC	119	mg/l	2.5	25
	05/07/08 00:00	425739	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.2	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4930	mg/l	10	1
<b>MD-3 (2805080202)</b>		<b>Sampled on 05/06/08 00:00</b>						
	05/10/08 06:15	426018	( EPA 314 )	Perchlorate	415000	ug/l	100000	25000
05/15/08	05/18/08 00:00	427408	( ML/EPA 6010B )	Chromium, Total, ICAP	0.081	mg/l	0.020	2
	05/15/08 14:54		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	05/07/08 00:00	425739	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/08/08	05/08/08 08:00	427546	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	4020	mg/l	10	1





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Tronox LLC - Henderson

QC Ref #0

- Metals Turbidity

Analysis Date: 05/12/2008

2805080191	M-131	Analyzed by: jrf
2805080191	M-131	Analyzed by: jrf
2805080192	M-57A	Analyzed by: jrf
2805080192	M-57A	Analyzed by: jrf
2805080193	M-79	Analyzed by: jrf
2805080193	M-79	Analyzed by: jrf
2805080194	M-69	Analyzed by: jrf
2805080194	M-69	Analyzed by: jrf
2805080195	M-135	Analyzed by: jrf
2805080195	M-135	Analyzed by: jrf
2805080196	PC-130	Analyzed by: jrf
2805080196	PC-130	Analyzed by: jrf
2805080197	EB-1	Analyzed by: jrf
2805080197	EB-1	Analyzed by: jrf
2805080199	M-99	Analyzed by: jrf
2805080199	M-99	Analyzed by: jrf
2805080200	M-25	Analyzed by: jrf
2805080200	M-25	Analyzed by: jrf
2805080201	M-37	Analyzed by: jrf
2805080201	M-37	Analyzed by: jrf
2805080202	MD-3	Analyzed by: jrf
2805080202	MD-3	Analyzed by: jrf

QC Ref #425726 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2008

2805080191	M-131	Analyzed by: sar
2805080192	M-57A	Analyzed by: sar
2805080193	M-79	Analyzed by: sar
2805080194	M-69	Analyzed by: sar
2805080195	M-135	Analyzed by: sar
2805080196	PC-130	Analyzed by: sar
2805080197	EB-1	Analyzed by: sar

QC Ref #425739 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2008

2805080199	M-99	Analyzed by: sar
2805080200	M-25	Analyzed by: sar
2805080201	M-37	Analyzed by: sar
2805080202	MD-3	Analyzed by: sar



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Tronox LLC - Henderson  
(continued)

QC Ref #426005 - Hexavalent chromium (Cr VI) Analysis Date: 05/07/2008

2805080197 EB-1  
2805080201 M-37

Analyzed by: azs  
Analyzed by: azs

QC Ref #426010 - Chlorate by IC

Analysis Date: 05/09/2008

2805080196 PC-130  
2805080200 M-25

Analyzed by: clv  
Analyzed by: clv

QC Ref #426018 - Perchlorate

Analysis Date: 05/10/2008

2805080191 M-131  
2805080192 M-57A  
2805080194 M-69  
2805080195 M-135  
2805080196 PC-130  
2805080197 EB-1  
2805080199 M-99  
2805080200 M-25  
2805080201 M-37  
2805080202 MD-3

Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv  
Analyzed by: clv

QC Ref #426031 - Chlorate by IC

Analysis Date: 05/10/2008

2805080201 M-37

Analyzed by: clv

QC Ref #426312 - Nitrate as Nitrogen by IC

Analysis Date: 05/07/2008

2805080196 PC-130  
2805080200 M-25  
2805080201 M-37

Analyzed by: tlh  
Analyzed by: tlh  
Analyzed by: tlh



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#240016

Tronox LLC - Henderson  
(continued)

### QC Ref #427266 - Perchlorate

2805080193 M-79

Analysis Date: 05/13/2008

Analyzed by: clv

### QC Ref #427408 - Chromium, Total, ICAP

2805080191 M-131  
2805080192 M-57A  
2805080193 M-79  
2805080194 M-69  
2805080195 M-135  
2805080196 PC-130  
2805080197 EB-1  
2805080199 M-99  
2805080200 M-25  
2805080201 M-37  
2805080202 MD-3

Analysis Date: 05/18/2008

Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk

### QC Ref #427546 - Total Dissolved Solid (TDS)

2805080191 M-131  
2805080192 M-57A  
2805080193 M-79  
2805080194 M-69  
2805080195 M-135  
2805080196 PC-130  
2805080197 EB-1  
2805080199 M-99  
2805080200 M-25  
2805080201 M-37  
2805080202 MD-3

Analysis Date: 05/08/2008

Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa  
Analyzed by: axa



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QC Ref #425726 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.67	7.68	UNIT		( 0-20 )	0.1

QC Ref #425739 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.16	7.12	UNIT		( 0-20 )	0.6

QC Ref #426005 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05080197	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.053	MGL	106.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	( 85-115 )	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.005	MGL	100.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	0.05	0.054	MGL	108.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	0.05	0.055	MGL	110.0	( 70-130 )	

QC Ref #426010 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05080147	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	205	UGL	102.5	( 90-110 )	
LCS2	Chlorate by IC	200	212	UGL	106.0	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	7.72	UGL	77.2	( 50-150 )	
MS	Chlorate by IC	100	85.9	UGL	85.9	( 75-125 )	
MSD	Chlorate by IC	100	96.0	UGL	96.0	( 75-125 )	
RPD_LCS	Chlorate by IC	102.500	106.000	UGL	3.4	( 0-20 )	
RPD_MS	Chlorate by IC	85.900	96.000	UGL	11.1	( 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  
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Tronox LLC - Henderson  
 (continued)

**QC Ref #426018**
**Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	05070747	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.7	UGL	102.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.8	UGL	99.2	( 85-115 )	
LCS3	Perchlorate	4	4.09	UGL	102.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.3	UGL	89.2	( 80-120 )	
MSD	Perchlorate	25.0	21.1	UGL	84.4	( 80-120 )	
RPD_LCS	Perchlorate	102.800	99.200	UGL	3.6	( 0-15 )	
RPD_MS	Perchlorate	89.200	84.400	UGL	0.9	( 0-15 )	

**QC Ref #426031**
**Chlorate by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05090348	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	202	UGL	101.0	( 90-110 )	
LCS2	Chlorate by IC	200	203	UGL	101.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	9.45	UGL	94.5	( 50-150 )	
MS	Chlorate by IC	100	103	UGL	103.0	( 75-125 )	
MSD	Chlorate by IC	100	95.6	UGL	95.6	( 75-125 )	
RPD_LCS	Chlorate by IC	101.000	101.500	UGL	0.5	( 0-20 )	
RPD_MS	Chlorate by IC	103.000	95.600	UGL	7.5	( 0-20 )	

**QC Ref #426312**
**Nitrate as Nitrogen by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05060276	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.55	MGL	102.0	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	( 90-110 )	

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 (continued)

MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL		
MRL_CHK	Nitrate as Nitrogen by IC	0.0500	0.051	MGL	102.0	( 50-150 )
MS	Nitrate as Nitrogen by IC	1.25	1.34	MGL	107.2	( 80-112 )
MSD	Nitrate as Nitrogen by IC	1.25	0.841	MGL	<u>67.3</u>	( 80-112 )
RPD_LCS	Nitrate as Nitrogen by IC	102.000	98.000	MGL	4.0	( 0-20 )
RPD_MS	Nitrate as Nitrogen by IC	107.200	67.280	MGL	<u>45.8</u>	( 0-20 )

**QC Ref #427266 Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	05100106	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	27.0	UGL	108.0	( 85-115 )	
LCS2	Perchlorate	25.0	27.3	UGL	109.2	( 85-115 )	
LCS3	Perchlorate	4	3.47	UGL	86.8	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.1	UGL	100.4	( 80-120 )	
MSD	Perchlorate	25.0	26.4	UGL	105.6	( 80-120 )	
RPD_LCS	Perchlorate	108.000	109.200	UGL	1.1	( 0-15 )	
RPD_MS	Perchlorate	100.400	105.600	UGL	1.1	( 0-15 )	

**QC Ref #427408 Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05080195	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.990	MGL	99.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0118	MGL	118.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.975	MGL	97.5	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.980	MGL	98.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.950	MGL	95.0	( 70-130 )	

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QC Ref #427546

Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	05070678	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	8350	8100	MGL		( 0-10 )	3.0
LCS1	Total Dissolved Solid (TDS)	175	164	MGL	93.7	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	672	MGL	96.0	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	93.714	96.000	MGL	2.4	( 0-20 )	

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are advisory only, unless otherwise specified in the method.