



MWH Laboratories

A Division of MWH Americas, Inc.

750 Foyal 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 10 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 270442

Project: CLO4

PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory.
Laboratory certifies that the test results meet all NELAC requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 9 page[s].



MWH

BUILDING A BETTER WORLD

June 11, 2009

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

Subject: Case Narrative report 270442

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 07, 2009 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

TDS – (2905070110 I-I, 2905070112 I-V) – Initial analysis within holding time. Reanalysis was past holding time.

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

Sincerely,

Andrew Eaton, PhD
Project Manager

270442

CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES



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

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MWD/ks

SAMPLE TEMP, RECEIPT AT LAB: 3

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER: **KERRMCGEE-MP**

COMPANY / PROJECT NAME: **Tronox LLC - Henderson Plant**

PROJECT JOB # / P.O.#: **Quaterly Groundwater Sampling Schedule B**

Sampler: **Michele Brown**
Susan Crowley (702) 651-2234
Tronox LLC - Henderson Plant
PO Box 55
Henderson, NV 89009

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	CR 6010	PH 9040	TDS	CLO4	CRVI 7196	CLO3 9056	NO3 9056	See Bottle Order	SAMPLER Comments
923	5/6/09		I-K	RGW	X		X	X	X	X					Bottles
942	5/6/09		I-J	RGW	X		X	X	X	X					Bottles
949	5/6/09		I-I	RGW	X		X	X	X	X					Bottles
946	5/6/09		I-Z	RGW	X		X	X	X	X					Bottles
951	5/6/09		I-V	RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles
				RGW	X		X	X	X	X					Bottles

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

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

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

Reported by Weight:
SO = Soil
SL = Sludge

RGW = Raw Ground Water
RSW = Raw Surface Water
CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	5-6-09	12:00PM
RECEIVED BY:		M. Desulesa	MW-LA	5-7-9	1103
RECEIVED BY:					
RECEIVED BY:					



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

Bottle Order for Ironox LLC- Henderson Standing

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

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

Period

SO# 47781 28973 RS

Sampler: Please Return this Paper with your samples

Created by ADE

Order Date 04/23/09

Date Needed by Client 04/30/09

Date Samples to Arrive at MWL 04/30/09

SHIP TO SEPARATION

0 Ship Sample Kits to

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

Send Report to

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

Billing Address

Ironox LLC
 P.O. Box 3049
 Livonia, MI 48150

ATTN: Susan Crowley
 PHONE: 702-651-2234

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

Quote#

ADE

of Samples Tests

Bottles-Qty for each sample, type & preservative if any

UN#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
101	CR6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS
101	CLO4, TDS, PH9040	1 500 ml poly/no preservative		second quarter only
15	CRV17196	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!		NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
22	NO39056	1 125ml poly/ no preservative SHORT HOLDING TIME!!!!		TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06
22	CLO39056	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Note - client never received original shipment, as best they can tell. Please resend this one.

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



J50110901302023

Ship Date: 06MAY09
Act/Wgt: 22.0 LB
CAD: 2274147/NET9011
Account#: S *****

Delivery Address Bar Code



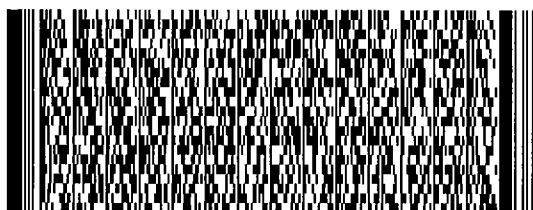
Ref # MSO #143691
Invoice #
PO #
Dept #

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

MONROVIA, CA 91016

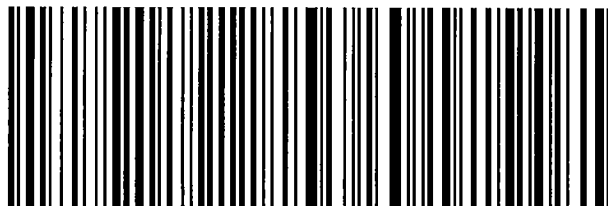
THU - 07MAY A2
PRIORITY OVERNIGHT

TRK# 7975 7187 4333
0201



QZ WHPA

91016
CA-US
BUR



After printing this label:

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

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.

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: 143691

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 Federal Express		Date 5/6/09	FROM NO. STATION: STATE Henderson, NV 89015
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization M. Skromyda	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10181	
N/AR		CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Ice chest with water samples Monitoring Wells quarterly One ice chest @ 18 lbs One ice chest @ 22 lbs One ice chest @ 66 lbs Not Regulated		3 Coolers
TRUCK SHIPMENTS PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 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
3	TOTAL GROSS WEIGHT 106	TOTAL TARE WEIGHT 0	106
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		"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"	
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.			
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859	PER Carron Williams	AGENT	PER

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#: 270442
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **05/07/09**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2905070108	I-K	CLO4 CR6010	Water P PH9040	06-may-2009 09:23:00 TDS
2905070109	I-J	CLO4 CR6010	Water P PH9040	06-may-2009 09:42:00 TDS
2905070110	I-I	CLO4 CR6010	Water P PH9040	06-may-2009 09:49:00 TDS
2905070111	I-Z	CLO4 CR6010	Water P PH9040	06-may-2009 09:46:00 TDS
2905070112	I-V	CLO4 CR6010	Water P PH9040	06-may-2009 09:51:00 TDS

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
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
#270442

Client Specific Comments

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

Signature: _____

(QC Ref#: 2905070110)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)
original result was 12900mg/L.

HA - Initial analysis within holding time. Reanalysis was past holding time.

(QC Ref#: 2905070112)

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)
original result was 15000mg/L on 5/13/09.

HA - Initial analysis within holding time. Reanalysis was past holding time.



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Laboratory
 Hits Report
 #270442

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

Samples Received
 07-may-2009 20:38:54

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070108	I-K				
05/25/09	Chromium, Total, ICAP		1.4		mg/l	0.020
05/07/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
06/03/09	Perchlorate		110000		ug/l	8000
05/13/09	Total Dissolved Solid (TDS)		5960	500	mg/l	10
	2905070109	I-J				
05/25/09	Chromium, Total, ICAP		3.2		mg/l	0.10
05/07/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
05/28/09	Perchlorate		277000		ug/l	20000
05/13/09	Total Dissolved Solid (TDS)		6570	500	mg/l	10
	2905070110	I-I				
05/25/09	Chromium, Total, ICAP		20		mg/l	0.20
05/07/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/03/09	Perchlorate		1030000		ug/l	80000
05/22/09	Total Dissolved Solid (TDS)		11400	500	mg/l	10
	2905070111	I-Z				
05/25/09	Chromium, Total, ICAP		11		mg/l	0.20
05/07/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
05/28/09	Perchlorate		519000		ug/l	40000
05/13/09	Total Dissolved Solid (TDS)		8480	500	mg/l	10
	2905070112	I-V				
05/25/09	Chromium, Total, ICAP		21		mg/l	0.10
05/18/09	Metals digestion performed.		Y		Yes/No	



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Laboratory
 Hits Report
 #270442

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

Samples Received
 07-may-2009 20:38:54

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905070112	I-V				
05/07/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/03/09	Perchlorate		1870000		ug/l	200000
05/22/09	Total Dissolved Solid (TDS)		13500	500	mg/l	10



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Laboratory
Data Report
#270442

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

Samples Received
05/07/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
I-K (2905070108) Sampled on 05/06/09 09:23								
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	110000	ug/l	8000	2000
05/15/09	05/25/09 00:00	486388	(ML/EPA 6010B)	Chromium, Total, ICAP	1.4	mg/l	0.020	2
	05/07/09 14:20	484019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/13/09	05/13/09 20:00	484868	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5960	mg/l	10	1
I-J (2905070109) Sampled on 05/06/09 09:42								
	05/28/09 07:30	486373	(EPA 314)	Perchlorate	277000	ug/l	20000	5000
05/19/09	05/25/09 00:00	486390	(ML/EPA 6010B)	Chromium, Total, ICAP	3.2	mg/l	0.10	10
	05/07/09 14:20	484019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/13/09	05/13/09 20:05	484868	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6570	mg/l	10	1
I-I (2905070110) Sampled on 05/06/09 09:49								
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	1030000	ug/l	80000	20000
05/19/09	05/25/09 00:00	486390	(ML/EPA 6010B)	Chromium, Total, ICAP	20	mg/l	0.20	20
	05/07/09 14:20	484019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	11400 (HA)	mg/l	10	1
I-Z (2905070111) Sampled on 05/06/09 09:46								
	05/28/09 07:30	486373	(EPA 314)	Perchlorate	519000	ug/l	40000	10000
05/25/09	05/25/09 00:00	486391	(ML/EPA 6010B)	Chromium, Total, ICAP	11	mg/l	0.20	20
	05/07/09 14:20	484019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/13/09	05/13/09 20:05	484868	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8480	mg/l	10	1
I-V (2905070112) Sampled on 05/06/09 09:51								
	06/03/09 10:17	486887	(EPA 314)	Perchlorate	1870000	ug/l	200000	50000
05/15/09	05/25/09 00:00	486388	(ML/EPA 6010B)	Chromium, Total, ICAP	21	mg/l	0.10	10
	05/18/09 15:56		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	05/07/09 14:20	484019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/22/09	05/22/09 12:50	485923	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	13500 (HA)	mg/l	10	1



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Laboratory
QC Summary
#270442

Tronox LLC - Henderson

QC Ref #484019 - PH (H3=past HT, not compliant) Analysis Date: 05/07/2009

2905070108	I-K	Analyzed by: sar
2905070109	I-J	Analyzed by: sar
2905070110	I-I	Analyzed by: sar
2905070111	I-Z	Analyzed by: sar
2905070112	I-V	Analyzed by: sar

QC Ref #484868 - Total Dissolved Solid (TDS) Analysis Date: 05/13/2009

2905070108	I-K	Analyzed by: jrf
2905070109	I-J	Analyzed by: jrf
2905070111	I-Z	Analyzed by: jrf

QC Ref #485923 - Total Dissolved Solid (TDS) Analysis Date: 05/22/2009

2905070110	I-I	Analyzed by: lmr
2905070112	I-V	Analyzed by: lmr

QC Ref #486373 - Perchlorate Analysis Date: 05/28/2009

2905070109	I-J	Analyzed by: ser
2905070111	I-Z	Analyzed by: ser

QC Ref #486388 - Chromium, Total, ICAP Analysis Date: 05/25/2009

2905070108	I-K	Analyzed by: csk
2905070112	I-V	Analyzed by: csk

QC Ref #486390 - Chromium, Total, ICAP Analysis Date: 05/25/2009

2905070109	I-J	Analyzed by: csk
2905070110	I-I	Analyzed by: csk



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Laboratory
QC Summary
#270442

Tronox LLC - Henderson
(continued)

QC Ref #486391 - Chromium, Total, ICAP

2905070111 I-Z

Analysis Date: 05/25/2009

Analyzed by: csk

QC Ref #486887 - Perchlorate

2905070108 I-K
2905070110 I-I
2905070112 I-V

Analysis Date: 06/03/2009

Analyzed by: ser

Analyzed by: ser

Analyzed by: ser

Tronox LLC - Henderson

QC Ref #484019 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.46	7.45	UNIT		(0-20)	0.1

QC Ref #484868 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05070093	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	5930	5930	MGL		(0-10)	0.0
LCS1	Total Dissolved Solid (TDS)	175	172	MGL	98.3	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	706	MGL	100.9	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	98.286	100.857	MGL	2.6	(0-20)	

QC Ref #485923 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060030	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	7390	7130	MGL		(0-10)	3.6
LCS1	Total Dissolved Solid (TDS)	175	158	MGL	90.3	(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	12	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	90.286	96.000	MGL	6.1	(0-20)	

QC Ref #486373 Perchlorate

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

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.

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)

Tronox LLC - Henderson
(continued)

Sample ID	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS3	Perchlorate	4	4.45	UGL	111.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)	
MSD	Perchlorate	25.0	25.3	UGL	101.2	(80-120)	
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	101.600	101.200	UGL	1.0	(0-15)	

QC Ref #486388 Chromium, Total, ICAP

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

QC Ref #486390 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060027	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0108	MGL	108.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.960	MGL	96.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.92	MGL	92.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	

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.



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
QC Report
#270442

Tronox LLC - Henderson
(continued)

QC Ref #486391 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060040	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.848	MGL	84.8	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	

QC Ref #486887 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06020022	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS3	Perchlorate	4	4.64	UGL	116.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.1	UGL	104.4	(80-120)	
MSD	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
RPD_LCS	Perchlorate	100.800	98.000	UGL	2.8	(0-15)	
RPD_MS	Perchlorate	104.400	98.800	UGL	0.9	(0-15)	

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.