



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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

DATE OF ISSUE
Jul 09 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 264580R

Project: CL04

PO#: Susan Crowle

Report#264580R replaces the original Report.

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 21 page[s].



BUILDING A BETTER WORLD

July 9, 2009

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

Subject: Case Narrative report 264580R

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 3, 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:

Report revised. Due to possible use of the wrong sample, TDS result for was NAed.

The MRL_check level recovery for TDS was recovered high, but all results were more than 10X the blank so there is minimal impact.

Hexavalent chromium samples were received past the RCRA holding time of 24 hours.

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,

A handwritten signature in cursive script that reads "Andrew Eaton".

Andrew Eaton, PhD
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

264500

MILABS USE ONLY:

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

LOG IN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/JS

SAMPLE TEMP, RECEIPT AT LAB: 3°

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#
Quantum Groundwater Sampling Schedule B

SAMPLER: Michele Brown
Tronox LLC - Henderson Plant
PO Box 55
Henderson, NV 89009

SUSAN OWLEY (702) 651-2234

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH 9040	TDS	CLO4	CRVI 7196	CLO3 9056	NO3 9056	See Bottle Order	SAMPLER Comments
6:12	2-2-09		PC-123	RGW	X		X	X	X					2 Bottles
6:26	2-2-09		PC-124	RGW	X		X	X	X					2 Bottles
6:35	2-2-09		PC-125	RGW	X		X	X	X					2 Bottles
6:45	2-2-09		PC-126	RGW	X		X	X	X					2 Bottles
6:56	2-2-09		PC-127	RGW	X		X	X	X					2 Bottles
4:58	2-2-09		PC-128	RGW	X		X	X	X					2 Bottles
5:12	2-2-09		PC-129	RGW	X		X	X	X					2 Bottles
5:27	2-2-09		PC-130	RGW	X		X	X	X					2 Bottles
5:43	2-2-09		PC-131	RGW	X		X	X	X					2 Bottles
5:57	2-2-09		PC-132	RGW	X		X	X	X					2 Bottles
7:24	2-2-09		M-96	RGW	X		X	X	X					2 Bottles
11:41	2-2-09		PC-54	RGW	X		X	X	X					2 Bottles

Reported by Weight:
SO = Soil
SL = Sludge

CGW = 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

RELINQUISHED BY: Michele Brown
RECEIVED BY: Joe Sanchez
SIGNATURE: [Signature]

COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant
MWR

DATE: 2-2-09 12:00PM
2-3-09 10:00

TIME: 10:00

C-C-C#

10052002

750 R...
(626) 56-1100 (800) 566-5227

LABS USE ONLY:
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/JS

SAMPLE TEMP, RECEIPT AT LAB: 3

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERRIN GEE-MP
 PROJECT JOB # / P.O.#: Tronox LLC - Henderson Plant
 Quaterly Groundwater Sampling Schedule B
 Sampler: Michele Brown
Michele Brown
 Susan Crowley (702) 651-2234
 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

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

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
7:50	2-2-09		M-48	RGW	X		X	X	X	X					2 Bottles
8:15	2-2-09		M-44	RGW	X		X	X	X	X					2 Bottles
8:24	2-2-09		PC-71	RGW	X		X	X	X	X					2 Bottles
8:35	2-2-09		PC-72	RGW	X		X	X	X	X					2 Bottles
8:50	2-2-09		PC-73	RGW	X		X	X	X	X					2 Bottles
9:05	2-2-09		PC-37	RGW	X		X	X	X	X					2 Bottles
	2-2-09		M-23	RGW	X		X	X	X	X					2 Bottles
9:35	2-2-09		M-95	RGW	X		X	X	X	X					2 Bottles
	2-2-09		MD-1	RGW	X		X	X	X	X					3 Bottles
	2-2-09		MD-3	RGW	X		X	X	X	X					3 Bottles
5:33	2-2-09		FC-1	RGW	X		X	X	X	X					2 Bottles
	2-2-09			RGW	X		X	X	X	X					3 Bottles

* MATRIX TYPES:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water
 RGW = Raw Ground Water
 RSW = Raw Surface Water

Reported by Weight:
 CWM = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

RELINQUISHED BY: Michele Brown SIGNATURE: Michele Brown PRINT NAME: Michele Brown
 RECEIVED BY: Joe Sanchez SIGNATURE: Joe Sanchez PRINT NAME: Michele Brown
 RELINQUISHED BY: _____ SIGNATURE: _____ PRINT NAME: _____
 RECEIVED BY: _____ SIGNATURE: _____ PRINT NAME: _____

DATE: 2-2-09 TIME: 12:00PM
 COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant
MWH

Address: **W. Eaton** (626) 386-1125 Your **MMWL** Project Manager
 Direct Phone/Voice Mail
SO# 46082 33899 RS **Sampler: Please Return this Paper with your samples**
 Created by **GJY** 0 Ship Sample Kits to
 Order Date **12/09/08** Gate 1
 Date Needed by Client **12/09/08** Tronox LLC-Veolia Water
 Date Samples to Arrive at MWL 8000 West Lake Mead Drive
 Henderson, NV 89015

Client Code **KERRMCGEE-MP** Project Code **CLO4** PO# / Job# Blanket PO
 Q Quarterly Week 1
 Billing Address
Ironox LLC
P.O. Box 3049
Livonia, MI 48150

ATTN: **Susan Crowley** PHONE: **702-551-2234**
 ATTN: **Susan Crowley** PHONE: **702-551-2234**
 FAX: **702-551-2310**
Bottles-Qty for each sample, type & preservative if any

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Quote#	Important Comments
101	CR6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	GJY	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			First, Third, and fourth quarters
15	CRV17196	1 125ml poly acid rinsed/ no preservative			NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht
					TDS count increased to 101 effective 6/16/06;; deleted EC as of 7-14-06

veCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

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#: 264580
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/03/09**. 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
2902030358	PC-123	CLO4	CR6010	Water P PH9040	02-feb-2009 06:12:00 TDS
2902030359	PC-124	CLO4	CR6010	Water P PH9040	02-feb-2009 06:26:00 TDS
2902030360	PC-125	CLO4	CR6010	Water P PH9040	02-feb-2009 06:35:00 TDS
2902030361	PC-126	CLO4	CR6010	Water P PH9040	02-feb-2009 06:45:00 TDS
2902030362	PC-127	CLO4	CR6010	Water P PH9040	02-feb-2009 06:56:00 TDS
2902030363	PC-128	CLO4	CR6010	Water P PH9040	02-feb-2009 04:58:00 TDS
2902030364	PC-129	CLO4	CR6010	Water P PH9040	02-feb-2009 05:12:00 TDS
2902030365	PC-130	CLO4	CR6010	Water P PH9040	02-feb-2009 05:27:00 TDS
2902030366	PC-131	CLO4	CR6010	Water P PH9040	02-feb-2009 05:43:00 TDS
2902030367	PC-132	CLO4	CR6010	Water P PH9040	02-feb-2009 05:57:00 TDS
2902030368	M-96	CLO4	CR6010	Water P PH9040	02-feb-2009 07:24:00 TDS
2902030369	PC-54	CLO4	CR6010	Water P PH9040	02-feb-2009 07:41:00 TDS
2902030370	M-48	CLO4	CR6010	Water P PH9040	02-feb-2009 07:59:00 TDS
2902030371	M-44	CLO4	CR6010	Water P PH9040	02-feb-2009 08:15:00 TDS
2902030372	PC-71	CLO4	CR6010	Water P PH9040	02-feb-2009 08:24:00 TDS
2902030373	PC-72	CLO4	CR6010	Water P PH9040	02-feb-2009 08:35:00 TDS
2902030374	PC-73	CLO4	CR6010	Water P PH9040	02-feb-2009 08:50:00 TDS

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#: 264580
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2902030375	PC-37	CLO4 CR6010	Water P PH9040	02-feb-2009 09:05:00 T TDS
2902030376	M-95	CLO4 CR6010	Water CRVI7196 P PH9040	02-feb-2009 09:25:00 T
2902030385	MD-1	CLO4 CR6010	Water CRVI7196 P PH9040	02-feb-2009 00:00:00 T
2902030387	MD-3	CLO4 CR6010	Water P PH9040	02-feb-2009 T TDS
2902030388	FB-1	CLO4 CR6010	Water CRVI7196 P PH9040	02-feb-2009 05:33:00 T

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



MWH Laboratories

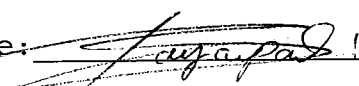
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Report
Comments
#264580

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.

TDS. Due to possible use of the wrong sample, result for 2902030388 was NAed. The EC from the different analysis did not match with EC from the TDS run. This sample is a FB. High EC and TDS values are not excepted for this sample.

(QC Ref#: 2902030376)

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#: 2902030385)

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#: 2902030387)

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

LE - MRL Check recovery was above laboratory acceptance limits.

(QC Ref#: 2902030388)

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

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

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

LE - MRL Check recovery was above laboratory acceptance limits.



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Laboratory
 Hits Report
 #264580

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

Samples Received
 03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030358	PC-123				
02/18/09	Chromium, Total, ICAP		1.8		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
02/06/09	Perchlorate		410000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		8780	500	mg/l	10
	2902030359	PC-124				
02/18/09	Chromium, Total, ICAP		0.037		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
02/06/09	Perchlorate		5500		ug/l	400
02/03/09	Total Dissolved Solid (TDS)		6520	500	mg/l	10
	2902030360	PC-125				
02/18/09	Chromium, Total, ICAP		0.021		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
02/06/09	Perchlorate		3270		ug/l	400
02/03/09	Total Dissolved Solid (TDS)		4880	500	mg/l	10
	2902030361	PC-126				
02/18/09	Chromium, Total, ICAP		0.11		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
02/06/09	Perchlorate		14500		ug/l	800
02/03/09	Total Dissolved Solid (TDS)		13200	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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#264580

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

Samples Received
03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030362	PC-127				
	2902030362	PC-127				
02/18/09	Chromium, Total, ICAP		1.9		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
02/06/09	Perchlorate		438000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		8650	500	mg/l	10
	2902030363	PC-128				
02/18/09	Chromium, Total, ICAP		0.18		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/21/09	Perchlorate		210000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		5680	500	mg/l	10
	2902030364	PC-129				
02/18/09	Chromium, Total, ICAP		0.78		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
02/06/09	Perchlorate		463000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		7220	500	mg/l	10
	2902030365	PC-130				
02/18/09	Chromium, Total, ICAP		0.81		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010

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#264580

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Susan Crowley
PO Box 55
Henderson , NV 89009

Samples Received
03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030365	PC-130				
02/21/09	Perchlorate		474000		ug/l	40000
02/03/09	Total Dissolved Solid (TDS)		7770	500	mg/l	10
	2902030366	PC-131				
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
02/06/09	Perchlorate		7320		ug/l	800
02/03/09	Total Dissolved Solid (TDS)		10200	500	mg/l	10
	2902030367	PC-132				
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
02/06/09	Perchlorate		1280		ug/l	200
02/03/09	Total Dissolved Solid (TDS)		9760	500	mg/l	10
	2902030368	M-96				
02/18/09	Chromium, Total, ICAP		1.1		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/06/09	Perchlorate		277000		ug/l	40000
02/03/09	Total Dissolved Solid (TDS)		6620	500	mg/l	10
	2902030369	PC-54				
02/18/09	Chromium, Total, ICAP		2.0		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010

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#264580

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Susan Crowley
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Samples Received
03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030369	PC-54				
02/06/09	Perchlorate		251000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		6200	500	mg/l	10
	2902030370	M-48				
02/18/09	Chromium, Total, ICAP		1.2		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.8		Units	0.0010
02/21/09	Perchlorate		194000		ug/l	20000
02/03/09	Total Dissolved Solid (TDS)		2960	500	mg/l	10
	2902030371	M-44				
02/18/09	Chromium, Total, ICAP		0.84		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
02/05/09	Perchlorate		646000		ug/l	40000
02/03/09	Total Dissolved Solid (TDS)		9080	500	mg/l	10
	2902030372	PC-71				
02/18/09	Chromium, Total, ICAP		0.41		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/05/09	Perchlorate		454000		ug/l	40000
02/03/09	Total Dissolved Solid (TDS)		8780	500	mg/l	10
	2902030373	PC-72				
02/18/09	Chromium, Total, ICAP		0.27		mg/l	0.020

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 #264580

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

Samples Received
 03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030373	PC-72				
02/11/09		Metals digestion performed.	Y		Yes/No	
02/03/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/05/09		Perchlorate	297000		ug/l	20000
02/03/09		Total Dissolved Solid (TDS)	7510	500	mg/l	10
	2902030374	PC-73				
02/18/09		Chromium, Total, ICAP	0.42		mg/l	0.020
02/11/09		Metals digestion performed.	Y		Yes/No	
02/03/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/05/09		Perchlorate	347000		ug/l	20000
02/03/09		Total Dissolved Solid (TDS)	6680	500	mg/l	10
	2902030375	PC-37				
02/18/09		Chromium, Total, ICAP	0.20		mg/l	0.020
02/11/09		Metals digestion performed.	Y		Yes/No	
02/03/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/05/09		Perchlorate	324000		ug/l	20000
02/03/09		Total Dissolved Solid (TDS)	7370	500	mg/l	10
	2902030376	M-95				
02/18/09		Chromium, Total, ICAP	1.2		mg/l	0.020
02/03/09		Hexavalent chromium (Cr VI)	1.30		mg/l	0.10
02/11/09		Metals digestion performed.	Y		Yes/No	
02/03/09		PH (H3=past HT, not compliant)	7.7		Units	0.0010
02/05/09		Perchlorate	478000		ug/l	40000
02/04/09		Total Dissolved Solid (TDS)	7510	500	mg/l	10



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Laboratory
Hits Report
#264580

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

Samples Received
03-feb-2009 15:28:24

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902030385	MD-1				
	2902030385	MD-1				
02/18/09	Chromium, Total, ICAP		1.2		mg/l	0.020
02/03/09	Hexavalent chromium (Cr VI)		1.26		mg/l	0.10
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/05/09	Perchlorate		462000		ug/l	40000
02/04/09	Total Dissolved Solid (TDS)		7560	500	mg/l	10
	2902030387	MD-3				
02/18/09	Chromium, Total, ICAP		0.20		mg/l	0.020
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		7.7		Units	0.0010
02/05/09	Perchlorate		326000		ug/l	20000
02/05/09	Total Dissolved Solid (TDS)		6750	500	mg/l	10
	2902030388	FB-1				
02/11/09	Metals digestion performed.		Y		Yes/No	
02/03/09	PH (H3=past HT, not compliant)		5.9		Units	0.0010

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#264580

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

Samples Received
02/03/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-123 (2902030358)				Sampled on 02/02/09 06:12				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	410000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.8	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8780	mg/l	10	1
PC-124 (2902030359)				Sampled on 02/02/09 06:26				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	5500	ug/l	400	100
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.037	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6520	mg/l	10	1
PC-125 (2902030360)				Sampled on 02/02/09 06:35				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	3270	ug/l	400	100
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.021	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4880	mg/l	10	1
PC-126 (2902030361)				Sampled on 02/02/09 06:45				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	14500	ug/l	800	200
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.11	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	13200	mg/l	10	1



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Data Report
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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-127 (2902030362)				Sampled on 02/02/09 06:56				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	438000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.9	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:34	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8650	mg/l	10	1
PC-128 (2902030363)				Sampled on 02/02/09 04:58				
	02/21/09 00:00	473586	(EPA 314)	Perchlorate	210000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.18	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5680	mg/l	10	1
PC-129 (2902030364)				Sampled on 02/02/09 05:12				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	463000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.78	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7220	mg/l	10	1
PC-130 (2902030365)				Sampled on 02/02/09 05:27				
	02/21/09 00:00	473586	(EPA 314)	Perchlorate	474000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.81	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7770	mg/l	10	1
PC-131 (2902030366)				Sampled on 02/02/09 05:43				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	7320	ug/l	800	200
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10200	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-132 (2902030367)				Sampled on 02/02/09 05:57				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	1280	ug/l	200	50
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470715	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9760	mg/l	10	1
M-96 (2902030368)				Sampled on 02/02/09 07:24				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	277000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.1	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6620	mg/l	10	1
PC-54 (2902030369)				Sampled on 02/02/09 07:41				
	02/06/09 00:00	471355	(EPA 314)	Perchlorate	251000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	2.0	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6200	mg/l	10	1
M-48 (2902030370)				Sampled on 02/02/09 07:59				
	02/21/09 00:00	473586	(EPA 314)	Perchlorate	194000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.2	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/03/09	02/03/09 13:30	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2960	mg/l	10	1
M-44 (2902030371)				Sampled on 02/02/09 08:15				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	646000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.84	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9080	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-71 (2902030372)				Sampled on 02/02/09 08:24				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	454000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.41	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8780	mg/l	10	1
PC-72 (2902030373)				Sampled on 02/02/09 08:35				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	297000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.27	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7510	mg/l	10	1
PC-73 (2902030374)				Sampled on 02/02/09 08:50				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	347000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.42	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6680	mg/l	10	1
PC-37 (2902030375)				Sampled on 02/02/09 09:05				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	324000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	0.20	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/03/09	02/03/09 13:35	471828	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7370	mg/l	10	1
M-95 (2902030376)				Sampled on 02/02/09 09:25				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	478000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.2	mg/l	0.020	2
	02/03/09 17:14	471348	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	1.30(H3)	mg/l	0.10	20
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/04/09	02/04/09 13:35	471834	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7510	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
MD-1 (2902030385)				Sampled on 02/02/09 00:00				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	462000	ug/l	40000	10000
02/11/09	02/18/09 00:00	473172	(ML/EPA 6010B)	Chromium, Total, ICAP	1.2	mg/l	0.020	2
	02/03/09 17:14	471348	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	1.26 (H3)	mg/l	0.10	20
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470716	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/04/09	02/04/09 13:35	471834	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7560	mg/l	10	1
MD-3 (2902030387)				Sampled on 02/02/09 00:00				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	326000	ug/l	20000	5000
02/11/09	02/18/09 00:00	473178	(ML/EPA 6010B)	Chromium, Total, ICAP	0.20	mg/l	0.020	2
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470717	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
02/05/09	02/05/09 11:30	471848	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6750 (LE)	mg/l	10	1
FB-1 (2902030388)				Sampled on 02/02/09 05:33				
	02/05/09 11:05	471347	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
02/11/09	02/18/09 00:00	473178	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/03/09 17:14	471348	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	ND (H3)	mg/l	0.0050	1
	02/11/09 19:01		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/03/09 00:00	470717	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	5.9	Units	0.0010	1
02/05/09	02/05/09 11:30	471848	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	NA (LE)	mg/l	10	1



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QC Summary
#264580

Tronox LLC - Henderson

QC Ref #0

- Metals Turbidity

Analysis Date: 02/04/2009

2902030358	PC-123	Analyzed by: jrf
2902030358	PC-123	Analyzed by: jrf
2902030359	PC-124	Analyzed by: jrf
2902030359	PC-124	Analyzed by: jrf
2902030360	PC-125	Analyzed by: jrf
2902030360	PC-125	Analyzed by: jrf
2902030361	PC-126	Analyzed by: jrf
2902030361	PC-126	Analyzed by: jrf
2902030362	PC-127	Analyzed by: jrf
2902030362	PC-127	Analyzed by: jrf
2902030363	PC-128	Analyzed by: jrf
2902030363	PC-128	Analyzed by: jrf
2902030364	PC-129	Analyzed by: jrf
2902030364	PC-129	Analyzed by: jrf
2902030365	PC-130	Analyzed by: jrf
2902030365	PC-130	Analyzed by: jrf
2902030366	PC-131	Analyzed by: jrf
2902030366	PC-131	Analyzed by: jrf
2902030367	PC-132	Analyzed by: jrf
2902030367	PC-132	Analyzed by: jrf
2902030368	M-96	Analyzed by: jrf
2902030368	M-96	Analyzed by: jrf
2902030369	PC-54	Analyzed by: jrf
2902030369	PC-54	Analyzed by: jrf
2902030370	M-48	Analyzed by: jrf
2902030370	M-48	Analyzed by: jrf
2902030371	M-44	Analyzed by: jrf
2902030371	M-44	Analyzed by: jrf
2902030372	PC-71	Analyzed by: jrf
2902030372	PC-71	Analyzed by: jrf
2902030373	PC-72	Analyzed by: jrf
2902030373	PC-72	Analyzed by: jrf
2902030374	PC-73	Analyzed by: jrf
2902030374	PC-73	Analyzed by: jrf
2902030375	PC-37	Analyzed by: jrf
2902030375	PC-37	Analyzed by: jrf
2902030376	M-95	Analyzed by: jrf
2902030376	M-95	Analyzed by: jrf
2902030385	MD-1	Analyzed by: jrf
2902030385	MD-1	Analyzed by: jrf
2902030387	MD-3	Analyzed by: jrf
2902030387	MD-3	Analyzed by: jrf
2902030388	FB-1	Analyzed by: jrf



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QC Summary
#264580

Tronox LLC - Henderson
(continued)

2902030388

FB-1

Analyzed by: jrf

QC Ref #470715 - PH (H3=past HT, not compliant) Analysis Date: 02/03/2009

2902030358
2902030359
2902030360
2902030361
2902030362
2902030363
2902030364
2902030365
2902030366
2902030367

PC-123
PC-124
PC-125
PC-126
PC-127
PC-128
PC-129
PC-130
PC-131
PC-132

Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem

QC Ref #470716 - PH (H3=past HT, not compliant) Analysis Date: 02/03/2009

2902030368
2902030369
2902030370
2902030371
2902030372
2902030373
2902030374
2902030375
2902030376
2902030385

M-96
PC-54
M-48
M-44
PC-71
PC-72
PC-73
PC-37
M-95
MD-1

Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem
Analyzed by: nem

QC Ref #470717 - PH (H3=past HT, not compliant) Analysis Date: 02/03/2009

2902030387
2902030388

MD-3
FB-1

Analyzed by: nem
Analyzed by: nem

QC Ref #471347 - Perchlorate

Analysis Date: 02/05/2009

2902030371
2902030372
2902030373
2902030374
2902030375

M-44
PC-71
PC-72
PC-73
PC-37

Analyzed by: ser
Analyzed by: ser
Analyzed by: ser
Analyzed by: ser
Analyzed by: ser



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2902030376	M-95	Analyzed by: ser
2902030385	MD-1	Analyzed by: ser
2902030387	MD-3	Analyzed by: ser
2902030388	FB-1	Analyzed by: ser

QC Ref #471348 - Hexavalent chromium (Cr VI) Analysis Date: 02/03/2009

2902030376	M-95	Analyzed by: azs
2902030385	MD-1	Analyzed by: azs
2902030388	FB-1	Analyzed by: azs

QC Ref #471355 - Perchlorate Analysis Date: 02/06/2009

2902030358	PC-123	Analyzed by: ser
2902030359	PC-124	Analyzed by: ser
2902030360	PC-125	Analyzed by: ser
2902030361	PC-126	Analyzed by: ser
2902030362	PC-127	Analyzed by: ser
2902030364	PC-129	Analyzed by: ser
2902030366	PC-131	Analyzed by: ser
2902030367	PC-132	Analyzed by: ser
2902030368	M-96	Analyzed by: ser
2902030369	PC-54	Analyzed by: ser

QC Ref #471828 - Total Dissolved Solid (TDS) Analysis Date: 02/03/2009

2902030358	PC-123	Analyzed by: wjp
2902030359	PC-124	Analyzed by: wjp
2902030360	PC-125	Analyzed by: wjp
2902030361	PC-126	Analyzed by: wjp
2902030362	PC-127	Analyzed by: wjp
2902030363	PC-128	Analyzed by: wjp
2902030364	PC-129	Analyzed by: wjp
2902030365	PC-130	Analyzed by: wjp
2902030366	PC-131	Analyzed by: wjp
2902030367	PC-132	Analyzed by: wjp
2902030368	M-96	Analyzed by: wjp
2902030369	PC-54	Analyzed by: wjp
2902030370	M-48	Analyzed by: wjp
2902030371	M-44	Analyzed by: wjp
2902030372	PC-71	Analyzed by: wjp



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Tronox LLC - Henderson
(continued)

2902030373	PC-72	Analyzed by: wjp
2902030374	PC-73	Analyzed by: wjp
2902030375	PC-37	Analyzed by: wjp

QC Ref #471834 - Total Dissolved Solid (TDS) Analysis Date: 02/04/2009

2902030376	M-95	Analyzed by: wjp
2902030385	MD-1	Analyzed by: wjp

QC Ref #471848 - Total Dissolved Solid (TDS) Analysis Date: 02/05/2009

2902030387	MD-3	Analyzed by: wjp
2902030388	FB-1	Analyzed by: wjp

QC Ref #473172 - Chromium, Total, ICAP Analysis Date: 02/18/2009

2902030358	PC-123	Analyzed by: csk
2902030359	PC-124	Analyzed by: csk
2902030360	PC-125	Analyzed by: csk
2902030361	PC-126	Analyzed by: csk
2902030362	PC-127	Analyzed by: csk
2902030363	PC-128	Analyzed by: csk
2902030364	PC-129	Analyzed by: csk
2902030365	PC-130	Analyzed by: csk
2902030366	PC-131	Analyzed by: csk
2902030367	PC-132	Analyzed by: csk
2902030368	M-96	Analyzed by: csk
2902030369	PC-54	Analyzed by: csk
2902030370	M-48	Analyzed by: csk
2902030371	M-44	Analyzed by: csk
2902030372	PC-71	Analyzed by: csk
2902030373	PC-72	Analyzed by: csk
2902030374	PC-73	Analyzed by: csk
2902030375	PC-37	Analyzed by: csk
2902030376	M-95	Analyzed by: csk
2902030385	MD-1	Analyzed by: csk



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QC Ref #473178 - Chromium, Total, ICAP

Analysis Date: 02/18/2009

2902030387 MD-3
2902030388 FB-1

Analyzed by: csk
Analyzed by: csk

QC Ref #473586 - Perchlorate

Analysis Date: 02/21/2009

2902030363 PC-128
2902030365 PC-130
2902030370 M-48

Analyzed by: ser
Analyzed by: ser
Analyzed by: ser



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QC Ref #470715 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.60	7.58	UNIT		(0-20)	0.3

QC Ref #470716 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.73	7.72	UNIT		(0-20)	0.1

QC Ref #470717 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.56	7.57	UNIT		(0-20)	0.1

QC Ref #471347 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02030439	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	3.72	UGL	93.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	27.2	UGL	108.8	(80-120)	
MSD	Perchlorate	25.0	27.4	UGL	109.6	(80-120)	
RPD_LCS	Perchlorate	93.600	97.200	UGL	3.8	(0-15)	
RPD_MS	Perchlorate	108.800	109.600	UGL	1.0	(0-15)	

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QC Ref #471348 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030388	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.057	MGL	114.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.056	MGL	112.0	(85-115)	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.054	MGL	108.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.057	MGL	114.0	(70-130)	

QC Ref #471355 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	01280046	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS2	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS3	Perchlorate	4	3.97	UGL	99.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.5	UGL	94.0	(80-120)	
MSD	Perchlorate	25.0	22.2	UGL	88.8	(80-120)	
RPD_LCS	Perchlorate	97.200	95.200	UGL	2.1	(0-15)	
RPD_MS	Perchlorate	94.000	88.800	UGL	0.9	(0-15)	

QC Ref #471828 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030358	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	8780	8332	MGL		(0-10)	5.2
LCS1	Total Dissolved Solid (TDS)	175	166	MGL	94.9	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	744	MGL	106.3	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			

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MRL_CHK	Total Dissolved Solid (TDS)	10.0	12.0	MGL	120.0	(50-150)
RPD_LCS	Total Dissolved Solid (TDS)	94.857	106.286	MGL	11.4	(0-20)

QC Ref #471834 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030435	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	498	520	MGL		(0-10)	4.3
LCS1	Total Dissolved Solid (TDS)	175	160	MGL	91.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	722	MGL	103.1	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	12.0	MGL	120.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	91.429	103.143	MGL	12.0	(0-20)	

QC Ref #471848 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030451	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	6190	6680	MGL		(0-10)	7.6
LCS1	Total Dissolved Solid (TDS)	175	196	MGL	112.0	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	712	MGL	101.7	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	22	MGL	<u>220.0</u>	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	112.000	101.714	MGL	9.6	(0-20)	

QC Ref #473172 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030370	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(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	0.0121	MGL	121.0	(50-150)	

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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Chromium, Total, ICAP	1.00	0.954	MGL	95.4	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.990	MGL	99.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.018	MGL	101.8	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.995	MGL	99.5	(70-130)	

QC Ref #473178 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02030388	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(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	1.09	MGL	109.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(70-130)	

QC Ref #473586 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	01300096	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	(85-115)	
LCS2	Perchlorate	25.0	23.1	UGL	92.4	(85-115)	
LCS3	Perchlorate	4	3.78	UGL	94.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.8	UGL	91.2	(80-120)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	
RPD_LCS	Perchlorate	98.800	92.400	UGL	6.7	(0-15)	
RPD_MS	Perchlorate	91.200	92.800	UGL	1.0	(0-15)	

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