



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 586 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
Mar 16 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 264946
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 16 page[s].



BUILDING A BETTER WORLD

March 17, 2009

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

Subject: Case Narrative report 264946

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on February 6, 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:

No spike recovery is available for perchlorate on one batch because the actual sample was too high compared to the spike. The LCS recovery for one batch was below SOP limits of 90-110%.

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



264946

M/PLABS USE ONLY

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

(626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: MM/BS

SAMPLE TEMP, RECEIPT AT LAB: 4°C

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Quarterly Groundwater Sampling

Schedule B

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	ANALYSES REQUIRED							SAMPLER Comments	
							CR 6010	PH 9040	TDS	CLO4	CRY1 7196	CLO3 9056	NO3 9056		See Bottle Order
533	2-5-09		M-87	RGW	X		X	X	X	X					2 Bottles
615	2-5-09		M-70	RGW	X		X	X	X						2 Bottles
629	2-5-09		M-71	RGW	X		X	X	X						2 Bottles
701	2-5-09		M-72	RGW	X		X	X	X						2 Bottles
732	2-5-09		M-22A	RGW	X		X	X	X						2 Bottles
755	2-5-09		M-38	RGW	X		X	X	X						2 Bottles
810	2-5-09		M-89	RGW	X		X	X	X						2 Bottles
918	2-5-09		M-100	RGW	X		X	X	X	X					3 Bottles
940	2-5-09		M-84	RGW	X		X	X	X	X					3 Bottles
1002	2-5-09		M-36	RGW	X		X	X	X	X					3 Bottles
905	2-5-09		M-11	RGW	X		X	X	X	X					3 Bottles
850	2-5-09		MD-2	RGW	X		X	X	X	X					3 Bottles

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(aminated) Finished Water

FW = Other Finished Water

RGW = Raw Ground Water

RSW = Raw Surface Water

CWW = Chlorinated Waste Water

WW = Other Waste Water

SW = Storm Water

Reported by Weight:

SO = Soil

SL = Sludge

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: <u>Michele Brown</u>	COMPANY/TITLE: <u>Veolia Water NA for Tronox LLC - Henderson Plant</u>	DATE: <u>2-5-09</u>	TIME: <u>12:00PM</u>
RECEIVED BY:	PRINT NAME: <u>M. DENESSA</u>	DATE: <u>2-6-09</u>	TIME: <u>10:20</u>
RELINQUISHED 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 Tronox 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

SO# 46082 33899 RS

Sampler: Please Return this Paper with your samples

Created by GJY
Order Date 12/09/08
Date Needed by Client
Ship Sample Kits to
Tronox LLC-Veolia Water
Gate 1
8000 West Lake Mead Drive
Henderson, NV 89015

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

Billing Address
Tronox 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#
GJY

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	-	First, Third, and fourth quarters
15	CRV7196	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!	-	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

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#: 264946
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/06/09**. 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
2902070062	M-87	CLO4 CR6010	Water	05-feb-2009 05:33:00
			P PH9040	T TDS
2902070063	M-70	CLO4 CR6010	Water	05-feb-2009 06:15:00
			P PH9040	T TDS
2902070064	M-71	CLO4 CR6010	Water	05-feb-2009 06:29:00
			P PH9040	T TDS
2902070065	M-72	CLO4 CR6010	Water	05-feb-2009 07:01:00
			P PH9040	T TDS
2902070066	M-22A	CLO4 CR6010	Water	05-feb-2009 07:32:00
			P PH9040	T TDS
2902070067	M-38	CLO4 CR6010	Water	05-feb-2009 07:55:00
			P PH9040	T TDS
2902070068	M-89	CLO4 CR6010	Water	05-feb-2009 08:10:00
			P PH9040	T TDS
2902070069	M-100	CLO4 CR6010	Water	05-feb-2009 09:18:00
			CRVI7196 P PH9040	T
		TDS		
2902070070	M-84	CLO4 CR6010	Water	05-feb-2009 09:40:00
			CRVI7196 P PH9040	T
		TDS		
2902070071	M-36	CLO4 CR6010	Water	05-feb-2009 10:02:00
			CRVI7196 P PH9040	T
		TDS		
2902070072	M-11	CLO4 CR6010	Water	05-feb-2009 09:05:00
			CRVI7196 P PH9040	T
		TDS		
2902070073	MD-2	CLO4 CR6010	Water	05-feb-2009 00:00:00
			CRVI7196 P PH9040	T
		TDS		

Test Acronym Description

Test Acronym	Description
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Test Acronym Description

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

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Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2902070062	M-87	CLO4 CR6010	Water P PH9040	05-feb-2009 05:33:00 T TDS
2902070063	M-70	CLO4 CR6010	Water P PH9040	05-feb-2009 06:15:00 T TDS
2902070064	M-71	CLO4 CR6010	Water P PH9040	05-feb-2009 06:29:00 T TDS
2902070065	M-72	CLO4 CR6010	Water P PH9040	05-feb-2009 07:01:00 T TDS
2902070066	M-22A	CLO4 CR6010	Water P PH9040	05-feb-2009 07:32:00 T TDS
2902070067	M-38	CLO4 CR6010	Water P PH9040	05-feb-2009 07:55:00 T TDS
2902070068	M-89	CLO4 CR6010	Water P PH9040	05-feb-2009 08:10:00 T TDS
2902070069	M-100	CLO4 CR6010	Water CRVI7196 P PH9040	05-feb-2009 09:18:00 T
2902070070	M-84	CLO4 CR6010	Water CRVI7196 P PH9040	05-feb-2009 09:40:00 T
2902070071	M-36	CLO4 CR6010	Water CRVI7196 P PH9040	05-feb-2009 10:02:00 T
2902070072	M-11	CLO4 CR6010	Water CRVI7196 P PH9040	05-feb-2009 09:05:00 T
2902070073	MD-2	CLO4 CR6010	Water CRVI7196 P PH9040	05-feb-2009 00:00:00 T

Test Acronym Description

Test Acronym	Description
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Project#: CLO4
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Phone: (626) 386-1125

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)



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: _____ *A. E. [Signature]*

Group Comments

(CLO4) MS/MSD recoveries are unavailable because they could not be calculated accurately as the native sample (2902050211) exceeded the calibration limit.
(CLO4) LCS/LCSD recovered below the SOP limits of 90-110%. Data acceptable for compliance since all QCs are within method acceptance limits.

(QC Ref#: 2902070069)

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#: 2902070070)

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#: 2902070071)

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#: 2902070072)

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#: 2902070073)

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

H3 - Sample was received and analyzed past holding time.



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Report
Comments
#264946

Data not acceptable for regulatory compliance.



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Laboratory
 Hits Report
 #264946

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

Samples Received
 06-feb-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902070062	M-87				
02/22/09		Chromium, Total, ICAP	3.4		mg/l	0.020
02/17/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.6		Units	0.0010
02/26/09		Perchlorate	336000		ug/l	20000
02/11/09		Total Dissolved Solid (TDS)	4090	500	mg/l	10
	2902070063	M-70				
02/22/09		Chromium, Total, ICAP	0.35		mg/l	0.020
02/17/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.8		Units	0.0010
03/05/09		Perchlorate	88600		ug/l	8000
02/11/09		Total Dissolved Solid (TDS)	2700	500	mg/l	10
	2902070064	M-71				
02/22/09		Chromium, Total, ICAP	5.0		mg/l	0.020
02/17/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
02/26/09		Perchlorate	599000		ug/l	40000
02/11/09		Total Dissolved Solid (TDS)	7370	500	mg/l	10
	2902070065	M-72				
02/22/09		Chromium, Total, ICAP	4.8		mg/l	0.050
02/17/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
02/26/09		Perchlorate	928000		ug/l	40000
02/11/09		Total Dissolved Solid (TDS)	8560	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#264946

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

Samples Received
06-feb-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902070066	M-22A				
	2902070066	M-22A				
02/22/09		Chromium, Total, ICAP	32		mg/l	0.20
02/17/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
02/26/09		Perchlorate	1740000		ug/l	80000
02/11/09		Total Dissolved Solid (TDS)	16200	500	mg/l	10
	2902070067	M-38				
02/22/09		Chromium, Total, ICAP	29		mg/l	0.20
02/18/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
02/26/09		Perchlorate	963000		ug/l	80000
02/11/09		Total Dissolved Solid (TDS)	13500	500	mg/l	10
	2902070068	M-89				
02/22/09		Chromium, Total, ICAP	25		mg/l	0.20
02/18/09		Metals digestion performed.	Y		Yes/No	
02/06/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
02/26/09		Perchlorate	877000		ug/l	40000
02/11/09		Total Dissolved Solid (TDS)	12100	500	mg/l	10
	2902070069	M-100				
02/22/09		Chromium, Total, ICAP	0.19		mg/l	0.020
02/06/09		Hexavalent chromium (Cr VI)	0.172		mg/l	0.0050
02/18/09		Metals digestion performed.	Y		Yes/No	

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Laboratory
Hits Report
#264946

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

Samples Received
06-feb-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902070069	M-100				
02/06/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
03/05/09	Perchlorate		36200		ug/l	2000
02/11/09	Total Dissolved Solid (TDS)		1690	500	mg/l	10
	2902070070	M-84				
02/22/09	Chromium, Total, ICAP		0.042		mg/l	0.020
02/06/09	Hexavalent chromium (Cr VI)		0.039		mg/l	0.0050
02/18/09	Metals digestion performed.		Y		Yes/No	
02/06/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
02/26/09	Perchlorate		6970		ug/l	800
02/11/09	Total Dissolved Solid (TDS)		980	500	mg/l	10
	2902070071	M-36				
02/22/09	Chromium, Total, ICAP		35		mg/l	0.20
02/06/09	Hexavalent chromium (Cr VI)		38.0		mg/l	0.50
02/18/09	Metals digestion performed.		Y		Yes/No	
02/06/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
02/26/09	Perchlorate		1490000		ug/l	80000
02/11/09	Total Dissolved Solid (TDS)		17100	500	mg/l	10
	2902070072	M-11				
02/22/09	Chromium, Total, ICAP		3.8		mg/l	0.020
02/06/09	Hexavalent chromium (Cr VI)		3.92		mg/l	0.10
02/18/09	Metals digestion performed.		Y		Yes/No	
02/06/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
03/02/09	Perchlorate		57900		ug/l	4000
02/11/09	Total Dissolved Solid (TDS)		3750	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Tronox LLC - Henderson
Susan Crowley
PO Box 55
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Samples Received
06-feb-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2902070072	M-11				
	2902070073	MD-2				
02/22/09	Chromium, Total, ICAP		0.041		mg/l	0.020
02/06/09	Hexavalent chromium (Cr VI)		0.044		mg/l	0.0050
02/18/09	Metals digestion performed.		Y		Yes/No	
02/06/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
02/26/09	Perchlorate		7030		ug/l	4000
02/11/09	Total Dissolved Solid (TDS)		972	500	mg/l	10



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

Samples Received
 02/06/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-87 (2902070062)				Sampled on 02/05/09 05:33				
	02/26/09 00:03	474501	(EPA 314)	Perchlorate	336000	ug/l	20000	5000
02/17/09	02/22/09 00:00	473646	(ML/EPA 6010B)	Chromium, Total, ICAP	3.4	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4090	mg/l	10	1
M-70 (2902070063)				Sampled on 02/05/09 06:15				
	03/05/09 14:18	475710	(EPA 314)	Perchlorate	88600	ug/l	8000	2000
02/17/09	02/22/09 00:00	473646	(ML/EPA 6010B)	Chromium, Total, ICAP	0.35	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.8	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2700	mg/l	10	1
M-71 (2902070064)				Sampled on 02/05/09 06:29				
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	599000	ug/l	40000	10000
02/17/09	02/22/09 00:00	473646	(ML/EPA 6010B)	Chromium, Total, ICAP	5.0	mg/l	0.020	2
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7370	mg/l	10	1
M-72 (2902070065)				Sampled on 02/05/09 07:01				
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	928000	ug/l	40000	10000
02/17/09	02/22/09 00:00	473646	(ML/EPA 6010B)	Chromium, Total, ICAP	4.8	mg/l	0.050	5
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8560	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-22A (2902070066)		Sampled on 02/05/09 07:32						
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	1740000	ug/l	80000	20000
02/17/09	02/22/09 00:00	473646	(ML/EPA 6010B)	Chromium, Total, ICAP	32	mg/l	0.20	20
	02/17/09 15:20		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	16200	mg/l	10	1
M-38 (2902070067)		Sampled on 02/05/09 07:55						
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	963000	ug/l	80000	20000
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	29	mg/l	0.20	20
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	13500	mg/l	10	1
M-89 (2902070068)		Sampled on 02/05/09 08:10						
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	877000	ug/l	40000	10000
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	25	mg/l	0.20	20
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	12100	mg/l	10	1
M-100 (2902070069)		Sampled on 02/05/09 09:18						
	03/05/09 14:18	475710	(EPA 314)	Perchlorate	36200	ug/l	2000	500
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	0.19	mg/l	0.020	2
	02/06/09 15:33	471888	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.172 (H3)	mg/l	0.0050	1
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	1690	mg/l	10	1



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Tronox LLC - Henderson
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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-84 (2902070070) Sampled on 02/05/09 09:40								
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	6970	ug/l	800	200
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	0.042	mg/l	0.020	2
	02/06/09 15:33	471888	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.039(H3)	mg/l	0.0050	1
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	980	mg/l	10	1
M-36 (2902070071) Sampled on 02/05/09 10:02								
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	1490000	ug/l	80000	20000
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	35	mg/l	0.20	20
	02/06/09 15:33	471888	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	38.0(H3)	mg/l	0.50	100
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471501	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	17100	mg/l	10	1
M-11 (2902070072) Sampled on 02/05/09 09:05								
	03/02/09 12:57	475702	(EPA 314)	Perchlorate	57900	ug/l	4000	1000
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	3.8	mg/l	0.020	2
	02/06/09 15:33	471888	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	3.92(H3)	mg/l	0.10	20
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471504	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3750	mg/l	10	1
MD-2 (2902070073) Sampled on 02/05/09 00:00								
	02/26/09 09:29	474589	(EPA 314)	Perchlorate	7030	ug/l	4000	1000
02/18/09	02/22/09 00:00	473647	(ML/EPA 6010B)	Chromium, Total, ICAP	0.041	mg/l	0.020	2
	02/06/09 15:33	471888	(ML/EPA 7196)	Hexavalent chromium (Cr VI)	0.044(H3)	mg/l	0.0050	1
	02/18/09 17:53		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/06/09 00:00	471504	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
02/11/09	02/11/09 11:30	472908	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	972	mg/l	10	1



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QC Ref #0 - Metals Turbidity Analysis Date: 02/09/2009

2902070062	M-87	Analyzed by: jrf
2902070062	M-87	Analyzed by: jrf
2902070063	M-70	Analyzed by: jrf
2902070063	M-70	Analyzed by: jrf
2902070064	M-71	Analyzed by: jrf
2902070064	M-71	Analyzed by: jrf
2902070065	M-72	Analyzed by: jrf
2902070065	M-72	Analyzed by: jrf
2902070066	M-22A	Analyzed by: jrf
2902070066	M-22A	Analyzed by: jrf
2902070067	M-38	Analyzed by: jrf
2902070067	M-38	Analyzed by: jrf
2902070068	M-89	Analyzed by: jrf
2902070068	M-89	Analyzed by: jrf
2902070069	M-100	Analyzed by: jrf
2902070069	M-100	Analyzed by: jrf
2902070070	M-84	Analyzed by: jrf
2902070070	M-84	Analyzed by: jrf
2902070071	M-36	Analyzed by: jrf
2902070071	M-36	Analyzed by: jrf
2902070072	M-11	Analyzed by: jrf
2902070072	M-11	Analyzed by: jrf
2902070073	MD-2	Analyzed by: jrf
2902070073	MD-2	Analyzed by: jrf

QC Ref #471501 - PH (H3=past HT, not compliant) Analysis Date: 02/06/2009

2902070062	M-87	Analyzed by: nem
2902070063	M-70	Analyzed by: nem
2902070064	M-71	Analyzed by: nem
2902070065	M-72	Analyzed by: nem
2902070066	M-22A	Analyzed by: nem
2902070067	M-38	Analyzed by: nem
2902070068	M-89	Analyzed by: nem
2902070069	M-100	Analyzed by: nem
2902070070	M-84	Analyzed by: nem
2902070071	M-36	Analyzed by: nem



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QC Ref #471504 - PH (H3=past HT, not compliant) Analysis Date: 02/06/2009

2902070072	M-11	Analyzed by: nem
2902070073	MD-2	Analyzed by: nem

QC Ref #471888 - Hexavalent chromium (Cr VI) Analysis Date: 02/06/2009

2902070069	M-100	Analyzed by: azs
2902070070	M-84	Analyzed by: azs
2902070071	M-36	Analyzed by: azs
2902070072	M-11	Analyzed by: azs
2902070073	MD-2	Analyzed by: azs

QC Ref #472908 - Total Dissolved Solid (TDS) Analysis Date: 02/11/2009

2902070062	M-87	Analyzed by: wjp
2902070063	M-70	Analyzed by: wjp
2902070064	M-71	Analyzed by: wjp
2902070065	M-72	Analyzed by: wjp
2902070066	M-22A	Analyzed by: wjp
2902070067	M-38	Analyzed by: wjp
2902070068	M-89	Analyzed by: wjp
2902070069	M-100	Analyzed by: wjp
2902070070	M-84	Analyzed by: wjp
2902070071	M-36	Analyzed by: wjp
2902070072	M-11	Analyzed by: wjp
2902070073	MD-2	Analyzed by: wjp

QC Ref #473646 - Chromium, Total, ICAP Analysis Date: 02/22/2009

2902070062	M-87	Analyzed by: csk
2902070063	M-70	Analyzed by: csk
2902070064	M-71	Analyzed by: csk
2902070065	M-72	Analyzed by: csk
2902070066	M-22A	Analyzed by: csk



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QC Ref #473647 - Chromium, Total, ICAP

Analysis Date: 02/22/2009

2902070067	M-38	Analyzed by: csk
2902070068	M-89	Analyzed by: csk
2902070069	M-100	Analyzed by: csk
2902070070	M-84	Analyzed by: csk
2902070071	M-36	Analyzed by: csk
2902070072	M-11	Analyzed by: csk
2902070073	MD-2	Analyzed by: csk

QC Ref #474501 - Perchlorate

Analysis Date: 02/26/2009

2902070062	M-87	Analyzed by: tlh
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QC Ref #474589 - Perchlorate

Analysis Date: 02/26/2009

2902070064	M-71	Analyzed by: tlh
2902070065	M-72	Analyzed by: tlh
2902070066	M-22A	Analyzed by: tlh
2902070067	M-38	Analyzed by: tlh
2902070068	M-89	Analyzed by: tlh
2902070070	M-84	Analyzed by: tlh
2902070071	M-36	Analyzed by: tlh
2902070073	MD-2	Analyzed by: tlh

QC Ref #475702 - Perchlorate

Analysis Date: 03/02/2009

2902070072	M-11	Analyzed by: tlh
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QC Ref #475710 - Perchlorate

Analysis Date: 03/05/2009

2902070063	M-70	Analyzed by: tlh
2902070069	M-100	Analyzed by: tlh



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QC Ref #471501 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.39	7.38	UNIT		(0-20)	0.1

QC Ref #471504 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.68	7.69	UNIT		(0-20)	0.1

QC Ref #471888 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02070084	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.057	MGL	114.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.053	MGL	106.0	(85-115)	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.007	MGL	140.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.05	0.053	MGL	106.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.05	0.052	MGL	104.0	(70-130)	

QC Ref #472908 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02070062	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	4090	4020	MGL		(0-10)	1.7
LCS1	Total Dissolved Solid (TDS)	175	184	MGL	105.1	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	686	MGL	98.0	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	8	MGL	80.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	105.143	98.000	MGL	7.0	(0-20)	

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QC Ref #473646 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02050394	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	0.982	MGL	98.2	(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	0.0106	MGL	106.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.927	MGL	92.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.923	MGL	92.3	(70-130)	

QC Ref #473647 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	02140029	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(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	0.0112	MGL	112.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.997	MGL	99.7	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	

QC Ref #474501 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02050211	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.7	UGL	94.8	(85-115)	
LCS2	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	

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LCS3	Perchlorate	4	3.80	UGL	95.0	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
RPD_LCS	Perchlorate	94.800	95.600	UGL	0.8	(0-15)

QC Ref #474589 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	2902050372	UGL		(0-0)	
LCS1	Perchlorate	25.0	22.8	UGL	91.2	(85-115)	
LCS2	Perchlorate	25.0	23.1	UGL	92.4	(85-115)	
LCS3	Perchlorate	4	3.27	UGL	81.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.9	UGL	99.6	(80-120)	
MSD	Perchlorate	25.0	27.1	UGL	108.4	(80-120)	
RPD_LCS	Perchlorate	91.200	92.400	UGL	1.3	(0-15)	
RPD_MS	Perchlorate	99.600	108.400	UGL	1.1	(0-15)	

QC Ref #475702 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02050211	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS3	Perchlorate	4	4.11	UGL	102.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.7	UGL	90.8	(80-120)	
MSD	Perchlorate	25.0	21.0	UGL	84.0	(80-120)	
RPD_LCS	Perchlorate	95.600	100.800	UGL	5.3	(0-15)	
RPD_MS	Perchlorate	90.800	84.000	UGL	0.9	(0-15)	

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QC Ref #475710

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	02070093	UGL		(0-0)	
LCS1	Perchlorate	25.0	21.7	UGL	86.8	(85-115)	
LCS2	Perchlorate	25.0	23.3	UGL	93.2	(85-115)	
LCS3	Perchlorate	4	3.04	UGL	76.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.6	UGL	98.4	(80-120)	
MSD	Perchlorate	25.0	24.1	UGL	96.4	(80-120)	
RPD_LCS	Perchlorate	86.800	93.200	UGL	7.1	(0-15)	
RPD_MS	Perchlorate	98.400	96.400	UGL	1.0	(0-15)	

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