



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
Mar 31 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 267194
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 13 page[s].



BUILDING A BETTER WORLD

April 1, 2009

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

Subject: Case Narrative report 267194

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on March 12, 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:

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



1267194

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

MWLBS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/MLD

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

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

Sampler: Michele Brown
Tronox LLC - Henderson Plant
PO Box 55
Henderson, NV 89009
Susan Crowley (702) 651-2200

SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL01	TDS	CR6010	CL03	NO3	SAMPLER COMMENTS
			M-83	RSW	X		X					No Sample
5:25	3/11/09		M-87	RSW	X		X					
9:04	3/11/09		PC-98R	RSW	X		X					
8:05	3/10/09		PC-86	RSW	X		X					
7:52	3/10/09		PC-90	RSW	X		X					
9:16	3/9/09		PC-56	RSW	X		X					
9:08	3/9/09		PC-58	RSW	X		X					
9:24	3/9/09		PC-59	RSW	X		X					
9:20	3/9/09		PC-60	RSW	X		X					
9:29	3/9/09		PC-62	RSW	X		X					
9:34	3/9/09		PC-68	RSW	X		X					
			PC-122	RSW	X		X					NO SAMPLE

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

Reported by Weight:

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

SIGNATURE

PRINT NAME

COMPANY/TITLE

TIME

RELINQUISHED BY: <i>Michele Brown</i>	DATE: 3/11/2009	TIME: 1200pm
RECEIVED BY: <i>Joe Sanchez</i>	DATE: 3-12-09	TIME: 10:30
RELINQUISHED BY:	DATE:	TIME:
RECEIVED BY:	DATE:	TIME:



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

M/LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: BS

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#
 KERRMCGEE-MP: Collection Wells Fields - Monthly - SO #12374
 Sampler: Michele Brown
 Susan Crowley (702) 651-2200
 Tronox LLC - Henderson Plant
 PO Box 35
 Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES
 ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)
 (check for yes)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3	SAMPLER COMMENTS
8:20	3/10/09		PC-91	RSW	X		CL04	
7:38	3/10/09		PC-97	RSW	X		TDS	
			PC-17	RSW	X		CR6010	
9:05	3/10/09		PC-18	RSW	X		CL03	
10:40	3/10/09		PC-55	RSW	X		NO3	
			PC-101R	RSW	X			NO SAMPLE
			L-635	RSW	X			NO SAMPLE
			L-637	RSW	X			NO SAMPLE

* MATRIX TYPES:

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

Reported by Weight:
SO = Soil
SL = Sludge

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

Reported by Weight:

SIGNATURE

RELINQUISHED BY: Michele Brown
RECEIVED BY: Susan Crowley
RELINQUISHED BY:
RECEIVED BY:

PRINT NAME

Michele Brown

Joe Sanchez

COMPANY/TITLE

Veolia Water for Tronox LLC - Henderson Plant

MWH

DATE

3/11/2009

3-12-09

TIME

1200pm

10:30



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

MLABS USE ONLY:
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS
SAMPLE TEMP, RECEIPT AT LAB: 2°
BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

KERRMCGEE-MP

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

Sampler: Michele Brown

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

SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	CLO ₄	TDS	CR6010	CLO ₃	NO ₃	SAMPLER COMMENTS
10:08	3/11/09	MW-K4		RSW	X		X					
8:45	3/10/09	ARP-1		RSW	X		X					
		ARP-2		RSW	X		X					NO SAMPLE
		ARP-3		RSW	X		X					NO SAMPLE
9:51	3/11/09	ARP-4A		RSW	X		X					
9:33	3/11/09	ARP-5A		RSW	X		X					
9:22	3/11/09	ARP-6B		RSW	X		X					
		ARP-7		RSW	X		X					NO SAMPLE
7:57	3/11/09	PC-53		RSW	X		X					
8:23	3/11/09	PC-103		RSW	X		X					
8:11	3/11/09	MW-K5		RSW	X		X					
9:45	3/9/09	ART-8		RSW	X		X					

* MATRIX TYPES:

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

Reported by Weight:
SO = Soil
SL = Sludge

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

Reported by Weight:

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: <u>Michele Brown</u>	COMPANY/TITLE: Veolia Water for Tronox LLC - Henderson Plant	DATE: 3/11/2009	TIME: 1200pm
RECEIVED BY: <u>Joe Sanchez</u>	COMPANY/TITLE: MWH	DATE: 3-12-09	TIME: 1013
RELINQUISHED BY:			
RECEIVED BY:			



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

Bottle Order for Ironox LLC- Henderson

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

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

SO# 46868 12374 RS 0 **Sampler: Please Return this Paper with your samples**

Created by GJY

Order Date

02/12/09

Date Needed by Client

Ship Sample Kits to
 Veolia Water-Tronox LLC
 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
 Attn: Accounts Payable
 PO BOX 268859
 Oklahoma City, OK 73126-8859

Date Samples to Arrive at MWL

ATTN: Susan Crowley
 PHONE: 702-651-2234

ATTN: Susan Crowley
 PHONE: 702-651-2234

ATTN: Susan Crowley
 PHONE: 702-651-2234

Quote#

GJY

SHIP LOCATION

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
41	CLO4, TDS	1 250 ml poly /no preservative	-	These sites are monthly till further notice.
-	SHEET OF LABELS WITH WELL-IDS	see comments section	-	Shipping - please send bottles in cooler rather than a box
-			-	PC-86, PC-89, PC-91, PC-95,
-			-	PC-97, PC-10, PC-12, PC-17,
-			-	PC-18, PC-55, PC-101R
-			-	L-635, L-637
-			-	MW-K2, MW-K4
-			-	ARP-1, ARP-2, ARP-3, ARP-4
-			-	ARP-5, ARP-6, ARP-7, PC-53
-			-	PC-103, MW-K5, M-83
-			-	M-87, PC-98R, PC-56, PC-58;
-			-	PC-59, PC-60, PC-62, PC-68,
-			-	PC-122
-			-	Do NOT prelabel
-			-	bottles with site, but provide
-			-	pre-printed labels for client to stick
-			-	on
-			-	EXTRA BOTTLES INCLUDED
-			-	client code changed 7/25/03
-			-	bottle order and IDs updated
-			-	9/9/03

ActiveCode

Status

Date Shipped

Carrier

Qty of Coolers

Tracking Number

Prepared By

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: 143601

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 3/11/09	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		
N/AR		CUSTOMER PO OR REQ'N NO.	CODE NO. WCN IS 1321.10181	
		SHIPPED FROM Henderson, NV	If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	Ice Chest with water samples Monthly ARP and PC Well Samples One Ice Chest @ 46 lbs		1 Cooler	Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TRONOX LLC
				The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
TRUCK SHIPMENTS		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.		
PLACARDS OFFERED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	PLACARDS ACCEPTED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT	
		0		
1	TOTAL GROSS WEIGHT 46	TOTAL TARE WEIGHT 0	46	
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 Chuck Whitney	AGENT	PER

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



Ship Date: 11MAR09
Act/Wgt: 46.0 LB
CAD: 2274147/NET9011
Account#: S *****

Delivery Address Bar Code



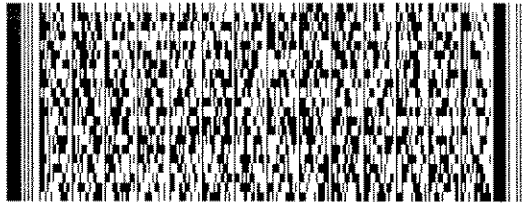
Ref # MSO# 143601
Invoice #
PO #
Dept #

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

MONROVIA, CA 91016

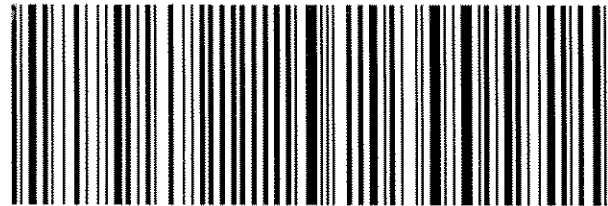
TRK# 7964 1861 8485
0201

THU - 12MAR A2
PRIORITY OVERNIGHT



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.

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#: 267194
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **03/12/09**. 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
2903120180	M-87	CLO4 TDS	Water	11-mar-2009 05:25:00
2903120181	PC-98R	CLO4 TDS	Water	11-mar-2009 09:04:00
2903120182	PC-86	CLO4 TDS	Water	10-mar-2009 08:05:00
2903120183	PC-90	CLO4 TDS	Water	10-mar-2009 07:52:00
2903120184	PC-56	CLO4 TDS	Water	09-mar-2009 09:16:00
2903120185	PC-58	CLO4 TDS	Water	09-mar-2009 09:08:00
2903120186	PC-59	CLO4 TDS	Water	09-mar-2009 09:24:00
2903120187	PC-60	CLO4 TDS	Water	09-mar-2009 09:20:00
2903120188	PC-62	CLO4 TDS	Water	09-mar-2009 09:29:00
2903120189	PC-68	CLO4 TDS	Water	09-mar-2009 09:34:00
2903120190	PC-91	CLO4 TDS	Water	10-mar-2009 08:20:00
2903120191	PC-97	CLO4 TDS	Water	10-mar-2009 07:38:00
2903120192	PC-18	CLO4 TDS	Water	10-mar-2009 09:05:00
2903120193	PC-55	CLO4 TDS	Water	10-mar-2009 10:40:00
2903120194	MW-K4	CLO4 TDS	Water	11-mar-2009 10:08:00
2903120195	ARP-1	CLO4 TDS	Water	11-mar-2009 08:45:00
2903120196	ARP-4A	CLO4 TDS	Water	11-mar-2009 09:51:00

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#: 267194
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2903120197	ARP-5A	CLO4 TDS	Water	11-mar-2009 09:33:00
2903120198	ARP-6B	CLO4 TDS	Water	11-mar-2009 09:22:00
2903120199	PC-53	CLO4 TDS	Water	11-mar-2009 07:57:00
2903120200	PC-103	CLO4 TDS	Water	11-mar-2009 08:23:00
2903120201	MW-K5	CLO4 TDS	Water	11-mar-2009 08:11:00
2903120202	ART-8	CLO4 TDS	Water	09-mar-2009 09:45:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
TDS	Total Dissolved Solid (TDS)



750 Foyal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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Laboratory
 Hits Report
 #267194

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

Samples Received
 12-mar-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2903120180	M-87				
03/21/09	Perchlorate		345000		ug/l	20000
03/17/09	Total Dissolved Solid (TDS)		4420	500	mg/l	10
	2903120181	PC-98R				
03/21/09	Perchlorate		13500		ug/l	2000
03/17/09	Total Dissolved Solid (TDS)		7110	500	mg/l	10
	2903120182	PC-86				
03/21/09	Perchlorate		1550		ug/l	80
03/17/09	Total Dissolved Solid (TDS)		2570	500	mg/l	10
	2903120183	PC-90				
03/25/09	Perchlorate		7530		ug/l	800
03/17/09	Total Dissolved Solid (TDS)		3920	500	mg/l	10
	2903120184	PC-56				
03/25/09	Perchlorate		1420		ug/l	200
03/13/09	Total Dissolved Solid (TDS)		2180	500	mg/l	10
	2903120185	PC-58				
03/25/09	Perchlorate		8980		ug/l	400
03/13/09	Total Dissolved Solid (TDS)		7750	500	mg/l	10
	2903120186	PC-59				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #267194

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

Samples Received
 12-mar-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2903120186	PC-59				
03/25/09	Perchlorate		6600		ug/l	400
03/13/09	Total Dissolved Solid (TDS)		4550	500	mg/l	10
	2903120187	PC-60				
03/25/09	Perchlorate		5860		ug/l	400
03/13/09	Total Dissolved Solid (TDS)		4130	500	mg/l	10
	2903120188	PC-62				
03/25/09	Perchlorate		2960		ug/l	200
03/13/09	Total Dissolved Solid (TDS)		3100	500	mg/l	10
	2903120189	PC-68				
03/25/09	Perchlorate		44		ug/l	20
03/13/09	Total Dissolved Solid (TDS)		2080	500	mg/l	10
	2903120190	PC-91				
03/25/09	Perchlorate		28600		ug/l	2000
03/17/09	Total Dissolved Solid (TDS)		7760	500	mg/l	10
	2903120191	PC-97				
03/25/09	Perchlorate		326		ug/l	20
03/17/09	Total Dissolved Solid (TDS)		2400	500	mg/l	10
	2903120192	PC-18				

SUMMARY OF POSITIVE DATA ONLY.



MWH Laboratories

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Laboratory
Hits Report
#267194

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

Samples Received
12-mar-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2903120192	PC-18				
03/25/09	Perchlorate		209000		ug/l	20000
03/17/09	Total Dissolved Solid (TDS)		9940	500	mg/l	10
	2903120193	PC-55				
03/25/09	Perchlorate		835		ug/l	80
03/17/09	Total Dissolved Solid (TDS)		8340	500	mg/l	10
	2903120194	MW-K4				
03/25/09	Perchlorate		146000		ug/l	8000
03/17/09	Total Dissolved Solid (TDS)		6290	500	mg/l	10
	2903120195	ARP-1				
03/25/09	Perchlorate		1380		ug/l	80
03/17/09	Total Dissolved Solid (TDS)		6530	500	mg/l	10
	2903120196	ARP-4A				
03/25/09	Perchlorate		28000		ug/l	2000
03/17/09	Total Dissolved Solid (TDS)		4470	500	mg/l	10
	2903120197	ARP-5A				
03/25/09	Perchlorate		24100		ug/l	2000
03/17/09	Total Dissolved Solid (TDS)		5950	500	mg/l	10
	2903120198	ARP-6B				

SUMMARY OF POSITIVE DATA ONLY.



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A Division of MWH Americas, Inc.

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Laboratory
Hits Report
#267194

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

Samples Received
12-mar-2009 10:30:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2903120198	ARP-6B				
03/25/09	Perchlorate		17000		ug/l	800
03/17/09	Total Dissolved Solid (TDS)		9380	500	mg/l	10
	2903120199	PC-53				
03/25/09	Perchlorate		1370		ug/l	200
03/17/09	Total Dissolved Solid (TDS)		4130	500	mg/l	10
	2903120200	PC-103				
03/25/09	Perchlorate		12500		ug/l	800
03/17/09	Total Dissolved Solid (TDS)		5260	500	mg/l	10
	2903120201	MW-K5				
03/25/09	Perchlorate		9690		ug/l	800
03/17/09	Total Dissolved Solid (TDS)		7260	500	mg/l	10
	2903120202	ART-8				
03/25/09	Perchlorate		270000		ug/l	20000
03/13/09	Total Dissolved Solid (TDS)		10000	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#267194

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

Samples Received
03/12/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-87 (2903120180) Sampled on 03/11/09 05:25								
	03/21/09 17:55	477875	(EPA 314)	Perchlorate	345000	ug/l	20000	5000
03/17/09	03/17/09 15:00	477763	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4420	mg/l	10	1
PC-98R (2903120181) Sampled on 03/11/09 09:04								
	03/21/09 17:55	477875	(EPA 314)	Perchlorate	13500	ug/l	2000	500
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7110	mg/l	10	1
PC-86 (2903120182) Sampled on 03/10/09 08:05								
	03/21/09 17:55	477875	(EPA 314)	Perchlorate	1550	ug/l	80	20
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2570	mg/l	10	1
PC-90 (2903120183) Sampled on 03/10/09 07:52								
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	7530	ug/l	800	200
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3920	mg/l	10	1
PC-56 (2903120184) Sampled on 03/09/09 09:16								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	1420	ug/l	200	50
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2180	mg/l	10	1
PC-58 (2903120185) Sampled on 03/09/09 09:08								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	8980	ug/l	400	100
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7750	mg/l	10	1
PC-59 (2903120186) Sampled on 03/09/09 09:24								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	6600	ug/l	400	100
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4550	mg/l	10	1



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Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-60 (2903120187) Sampled on 03/09/09 09:20								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	5860	ug/l	400	100
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4130	mg/l	10	1
PC-62 (2903120188) Sampled on 03/09/09 09:29								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	2960	ug/l	200	50
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3100	mg/l	10	1
PC-68 (2903120189) Sampled on 03/09/09 09:34								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	44	ug/l	20	5
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2080	mg/l	10	1
PC-91 (2903120190) Sampled on 03/10/09 08:20								
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	28600	ug/l	2000	500
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7760	mg/l	10	1
PC-97 (2903120191) Sampled on 03/10/09 07:38								
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	326	ug/l	20	5
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2400	mg/l	10	1
PC-18 (2903120192) Sampled on 03/10/09 09:05								
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	209000	ug/l	20000	5000
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9940	mg/l	10	1
PC-55 (2903120193) Sampled on 03/10/09 10:40								
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	835	ug/l	80	20
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8340	mg/l	10	1
MW-K4 (2903120194) Sampled on 03/11/09 10:08								
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	146000	ug/l	8000	2000
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6290	mg/l	10	1



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Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
ARP-1 (2903120195)				Sampled on 03/11/09 08:45				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	1380	ug/l	80	20
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6530	mg/l	10	1
ARP-4A (2903120196)				Sampled on 03/11/09 09:51				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	28000	ug/l	2000	500
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4470	mg/l	10	1
ARP-5A (2903120197)				Sampled on 03/11/09 09:33				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	24100	ug/l	2000	500
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5950	mg/l	10	1
ARP-6B (2903120198)				Sampled on 03/11/09 09:22				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	17000	ug/l	800	200
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9380	mg/l	10	1
PC-53 (2903120199)				Sampled on 03/11/09 07:57				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	1370	ug/l	200	50
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4130	mg/l	10	1
PC-103 (2903120200)				Sampled on 03/11/09 08:23				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	12500	ug/l	800	200
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5260	mg/l	10	1
MW-K5 (2903120201)				Sampled on 03/11/09 08:11				
	03/25/09 00:00	477936	(EPA 314)	Perchlorate	9690	ug/l	800	200
03/17/09	03/17/09 17:30	477920	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7260	mg/l	10	1
ART-8 (2903120202)				Sampled on 03/09/09 09:45				
	03/25/09 16:03	478248	(EPA 314)	Perchlorate	270000	ug/l	20000	5000
03/13/09	03/13/09 15:30	477611	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10000	mg/l	10	1



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QC Summary
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QC Ref #477611 - Total Dissolved Solid (TDS) Analysis Date: 03/13/2009

2903120184	PC-56	Analyzed by: jrf
2903120185	PC-58	Analyzed by: jrf
2903120186	PC-59	Analyzed by: jrf
2903120187	PC-60	Analyzed by: jrf
2903120188	PC-62	Analyzed by: jrf
2903120189	PC-68	Analyzed by: jrf
2903120202	ART-8	Analyzed by: jrf

QC Ref #477763 - Total Dissolved Solid (TDS) Analysis Date: 03/17/2009

2903120180	M-87	Analyzed by: jrf
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QC Ref #477875 - Perchlorate Analysis Date: 03/21/2009

2903120180	M-87	Analyzed by: ser
2903120181	PC-98R	Analyzed by: ser
2903120182	PC-86	Analyzed by: ser

QC Ref #477920 - Total Dissolved Solid (TDS) Analysis Date: 03/17/2009

2903120181	PC-98R	Analyzed by: jrf
2903120182	PC-86	Analyzed by: jrf
2903120183	PC-90	Analyzed by: jrf
2903120190	PC-91	Analyzed by: jrf
2903120191	PC-97	Analyzed by: jrf
2903120192	PC-18	Analyzed by: jrf
2903120193	PC-55	Analyzed by: jrf
2903120194	MW-K4	Analyzed by: jrf
2903120195	ARP-1	Analyzed by: jrf
2903120196	ARP-4A	Analyzed by: jrf
2903120197	ARP-5A	Analyzed by: jrf
2903120198	ARP-6B	Analyzed by: jrf
2903120199	PC-53	Analyzed by: jrf
2903120200	PC-103	Analyzed by: jrf
2903120201	MW-K5	Analyzed by: jrf



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QC Summary
#267194

Tronox LLC - Henderson
(continued)

QC Ref #477936 - Perchlorate

Analysis Date: 03/25/2009

2903120183	PC-90	Analyzed by: ser
2903120191	PC-97	Analyzed by: ser
2903120192	PC-18	Analyzed by: ser
2903120193	PC-55	Analyzed by: ser
2903120194	MW-K4	Analyzed by: ser
2903120195	ARP-1	Analyzed by: ser
2903120196	ARP-4A	Analyzed by: ser
2903120197	ARP-5A	Analyzed by: ser
2903120198	ARP-6B	Analyzed by: ser
2903120199	PC-53	Analyzed by: ser
2903120200	PC-103	Analyzed by: ser
2903120201	MW-K5	Analyzed by: ser

QC Ref #478248 - Perchlorate

Analysis Date: 03/25/2009

2903120184	PC-56	Analyzed by: ser
2903120185	PC-58	Analyzed by: ser
2903120186	PC-59	Analyzed by: ser
2903120187	PC-60	Analyzed by: ser
2903120188	PC-62	Analyzed by: ser
2903120189	PC-68	Analyzed by: ser
2903120190	PC-91	Analyzed by: ser
2903120202	ART-8	Analyzed by: ser



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#267194

Tronox LLC - Henderson

QC Ref #477611 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	03130028	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	266	252	MGL		(0-10)	5.4
LCS1	Total Dissolved Solid (TDS)	175	176	MGL	100.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	718	MGL	102.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	7	MGL	70.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	100.571	102.571	MGL	2.0	(0-20)	

QC Ref #477763 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	03100381	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	266	258	MGL		(0-10)	3.1
LCS1	Total Dissolved Solid (TDS)	175	176	MGL	100.6	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	718	MGL	102.6	(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)	100.571	102.571	MGL	2.0	(0-20)	

QC Ref #477875 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	03180082	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4.0	3.68	UGL	92.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.9	UGL	95.6	(80-120)	
MSD	Perchlorate	25.0	24.6	UGL	98.4	(80-120)	
RPD_LCS	Perchlorate	96.000	96.800	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	95.600	98.400	UGL	1.0	(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.



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(continued)

QC Ref #477920 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	03130100	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	20	22	MGL		(0-10)	9.5
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	10.0	MGL	100.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	98.286	100.857	MGL	2.6	(0-20)	

QC Ref #477936 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	03170248	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)	
LCS3	Perchlorate	4	3.99	UGL	99.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.8	UGL	103.2	(80-120)	
MSD	Perchlorate	25.0	25.9	UGL	103.6	(80-120)	
RPD_LCS	Perchlorate	102.000	102.000	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	103.200	103.600	UGL	1.0	(0-15)	

QC Ref #478248 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	03240101	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4	3.70	UGL	92.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Tronox LLC - Henderson
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MS	Perchlorate	25.0	25.7	UGL	102.8	(80-120)
MSD	Perchlorate	25.0	25.6	UGL	102.4	(80-120)
RPD_LCS	Perchlorate	98.800	96.800	UGL	2.0	(0-15)
RPD_MS	Perchlorate	102.800	102.400	UGL	1.0	(0-15)

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