



MWH Laboratories

A Division of MWH Americas, Inc.

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

Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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

DATE OF ISSUE
Jun 26 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 271160

Project: CL04

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 7 page[s].



MWH

BUILDING A BETTER WORLD

June 26, 2009

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

Subject: Case Narrative report 271160

Sample receipt: The samples arrived at MWH on May 26, 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:

None

Note that for ion chromatography tests such as perchlorate, the exact analysis time is not shown on the report. Only the date of analysis appears. The time normally defaults to 00:00.

If you have any questions, do not hesitate to contact us.

Sincerely yours,

Andrew Eaton, PhD
Project Manager



CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES

271160

750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629
(626) 568-6400 (800) 566-5227

M/LABS USE ONLY:

SAMPLES CHECKED/LOGGED IN BY: JS

SAMPLE TEMP, RECEIPT AT LAB: 67

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Tronox LLC
PROJECT JOB # / P.O.#: Annual Groundwater Sampling - April / May

SAMPLER: Brian Ho / Susan Crowley (702) 651-2234
Tronox LLC
PO Box 55
Henderson, NV 89009

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	pH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO ₄	TDS	SAMPLER COMMENTS
0736	5-22-09	M-125		RGW	X					X	X	X	
0838	5-22-09	M-128		RGW	X					X	X	X	
0911	5-22-09	M-124		RGW	X			X		X	X	X	
0937	5-22-09	F8052209		RGW	X					X	X	X	
0957	5-22-09	M-123		RGW	X					X	X	X	

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

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

* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water, FW = Other Finished Water, RGW = Raw Ground Water, RSW = Raw Surface Water. Reported by Weight: SO = Soil, SL = Sludge, CWW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water.

RELINQUISHED BY: [Signature] SIGNATURE

RECEIVED BY: David Davis PRINT NAME

RELINQUISHED BY: JS PRINT NAME

RECEIVED BY:

COMPANY/TITLE: GES/6202657

DATE: 5-22-09 10:55

DATE: 5-26 9:40

TIME:



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

Bottle Order for Ironox LLC- Henderson
Standing

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

Client Code KERRMCGEE-MP M Monthly Period
 Project Code CLO4
 PO# / Job# GWREMEDICATION
 Blanket PO

SO# 47684 12374 RS

Sampler: Please Return this Paper with your samples

Created by GJY

Order Date 04/16/09

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
 P.O. BOX 268859
 Oklahoma City, OK 73126-8859

Date Needed by Client
 Date Samples to Arrive at MWL
 SHIP LOCATION

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
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

From: Origin ID: LASA (702) 651-2234
Susan Crowley
Tronox
560 West Lake Mead Parkway
Henderson, NV 89015



J50110901302023

Ship Date: 22MAY09
ActWgt: 50.0 LB
CAD: 7219287/INET9011
Account#: S*****

Delivery Address Bar Code



Ref # annual water sampling-10181.23
Invoice #
PO #
Dept #

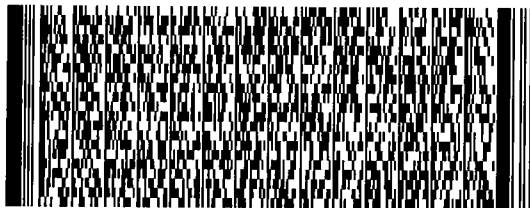
SHIP TO: (626) 386-1100 BILL SENDER

Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

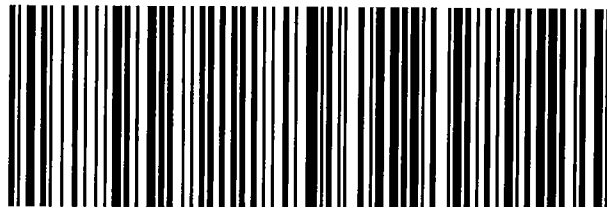
TUE - 26MAY A2
PRIORITY OVERNIGHT

TRK# 7976 1923 7227
0201



QZ WHPA

91016
CA-US
BUR



After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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#: 271160
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **05/26/09**. 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
2905260003	M-125	CLO4 TDS	Water	22-may-2009 07:36:00
2905260004	M-128	CLO4 TDS	Water	22-may-2009 08:38:00
2905260005	M-124	CLO4 CR6010	Water	22-may-2009 09:11:00
2905260006	FB052209	CLO4 TDS	Water	22-may-2009 09:37:00
2905260007	M-123	CLO4 TDS	Water	22-may-2009 09:51:00
2905260008	DUPLICATE	CLO4 TDS	Water	22-may-2009 00:00:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
P	Metals sample pH
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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Report
Comments
#271160

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. Estor*



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Laboratory
 Hits Report
 #271160

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

Samples Received
 26-may-2009 10:01:31

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905260003	M-125				
06/14/09	Perchlorate		842		ug/l	40
05/26/09	Total Dissolved Solid (TDS)		14700	500	mg/l	10
	2905260004	M-128				
06/14/09	Perchlorate		14100		ug/l	800
05/26/09	Total Dissolved Solid (TDS)		2708	500	mg/l	10
	2905260005	M-124				
06/09/09	Chromium, Total, ICAP		0.068		mg/l	0.010
06/10/09	Metals digestion performed.		Y		Yes/No	
06/17/09	Perchlorate		2160		ug/l	200
05/26/09	Total Dissolved Solid (TDS)		2538	500	mg/l	10
	2905260006	FB052209				
	2905260007	M-123				
06/11/09	Perchlorate		101		ug/l	20
05/26/09	Total Dissolved Solid (TDS)		12600	500	mg/l	10
	2905260008	DUPLICATE				
06/14/09	Perchlorate		812		ug/l	40
05/26/09	Total Dissolved Solid (TDS)		15400	500	mg/l	10



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Laboratory
Data Report
#271160

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

Samples Received
05/26/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-125 (2905260003) Sampled on 05/22/09 07:36								
	06/14/09 00:00	488028	(EPA 314)	Perchlorate	842	ug/l	40	10
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	14700	mg/l	10	1
M-128 (2905260004) Sampled on 05/22/09 08:38								
	06/14/09 00:00	488028	(EPA 314)	Perchlorate	14100	ug/l	800	200
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2708	mg/l	10	1
M-124 (2905260005) Sampled on 05/22/09 09:11								
	06/17/09 02:37	488222	(EPA 314)	Perchlorate	2160	ug/l	200	50
06/09/09	06/09/09 18:49	487360	(ML/EPA 6010B)	Chromium, Total, ICAP	0.068	mg/l	0.010	1
	06/10/09 16:38		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2538	mg/l	10	1
FB052209 (2905260006) Sampled on 05/22/09 09:37								
	06/13/09 09:21	488027	(EPA 314)	Perchlorate	ND	ug/l	4.0	1
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	ND	mg/l	10	1
M-123 (2905260007) Sampled on 05/22/09 09:51								
	06/11/09 17:33	487776	(EPA 314)	Perchlorate	101	ug/l	20	5
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	12600	mg/l	10	1
DUPLICATE (2905260008) Sampled on 05/22/09 00:00								
	06/14/09 00:00	488028	(EPA 314)	Perchlorate	812	ug/l	40	10
05/26/09	05/26/09 16:10	486585	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	15400	mg/l	10	1



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Laboratory
QC Summary
#271160

Tronox LLC - Henderson

QC Ref #486585 - Total Dissolved Solid (TDS) Analysis Date: 05/26/2009

2905260003	M-125	Analyzed by: jrf
2905260004	M-128	Analyzed by: jrf
2905260005	M-124	Analyzed by: jrf
2905260006	FB052209	Analyzed by: jrf
2905260007	M-123	Analyzed by: jrf
2905260008	DUPLICATE	Analyzed by: jrf

QC Ref #487360 - Chromium, Total, ICAP Analysis Date: 06/09/2009

2905260005	M-124	Analyzed by: csk
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QC Ref #487776 - Perchlorate Analysis Date: 06/11/2009

2905260007	M-123	Analyzed by: ser
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QC Ref #488027 - Perchlorate Analysis Date: 06/13/2009

2905260006	FB052209	Analyzed by: ser
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QC Ref #488028 - Perchlorate Analysis Date: 06/14/2009

2905260003	M-125	Analyzed by: ser
2905260004	M-128	Analyzed by: ser
2905260008	DUPLICATE	Analyzed by: ser

QC Ref #488222 - Perchlorate Analysis Date: 06/17/2009

2905260005	M-124	Analyzed by: ser
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Laboratory
 QC Report
 #271160

Tronox LLC - Henderson

QC Ref #486585 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210034	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	436	428	MGL		(0-10)	1.9
LCS1	Total Dissolved Solid (TDS)	175	188	MGL	107.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	692	MGL	98.9	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11	MGL	110.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	107.429	98.857	MGL	8.3	(0-20)	

QC Ref #487360 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210060	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	0.912	MGL	91.2	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.999	MGL	99.9	(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	0.977	MGL	97.7	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.904	MGL	90.4	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.010	MGL	101.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.864	MGL	86.4	(70-130)	

QC Ref #487776 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06040288	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS2	Perchlorate	25.0	23.2	UGL	92.8	(85-115)	
LCS3	Perchlorate	4	3.89	UGL	97.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	
MSD	Perchlorate	25.0	25.4	UGL	101.6	(80-120)	

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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Laboratory
QC Report
#271160

Tronox LLC - Henderson (continued)

RPD_LCS	Perchlorate	95.200	92.800	UGL	2.6	(0-15)
RPD_MS	Perchlorate	92.800	101.600	UGL	1.1	(0-15)

QC Ref #488027 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110007	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.6	UGL	98.4	(85-115)	
LCS3	Perchlorate	4	3.54	UGL	88.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	
RPD_LCS	Perchlorate	97.600	98.400	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	93.200	92.800	UGL	1.0	(0-15)	

QC Ref #488028 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110278	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.7	UGL	94.8	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	3.78	UGL	94.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.1	UGL	88.4	(80-120)	
MSD	Perchlorate	25.0	22.7	UGL	90.8	(80-120)	
RPD_LCS	Perchlorate	94.800	97.200	UGL	2.5	(0-15)	
RPD_MS	Perchlorate	88.400	90.800	UGL	1.0	(0-15)	

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Laboratory
QC Report
#271160

Tronox LLC - Henderson
(continued)

QC Ref #488222

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110138	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS2	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS3	Perchlorate	4	4.40	UGL	110.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
MSD	Perchlorate	25.0	23.9	UGL	95.6	(80-120)	
RPD_LCS	Perchlorate	98.000	95.600	UGL	2.5	(0-15)	
RPD_MS	Perchlorate	98.800	95.600	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.