



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3829
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 15 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



01114CA

Report#: 272306

Project: CLO4

PO#: SMC-06109901

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

July 15, 2009

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

Subject: Case Narrative report 272306

Sample receipt: The samples arrived at MWH on June 27, 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



272306

HW LABS USE ONLY:

750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629

SAMPLES CHECKED/LOGGED IN BY: ST/JS

(626) 568-6400

(800) 566-5227

SAMPLE TEMP, RECEIPT AT LAB: 20

SCANNED

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)	
Tronox LLC K. HANSEN		Tronox LLC PO Box 55 Henderson, NV 89009		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
Brien-Ho/Susan Crowley		(702) 651-2234		Annual Groundwater Sampling - April / May			
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	SAMPLER COMMENTS
1035	25 JUNE 2009	PC-94	PC-94.062509	RGW	X		
1035		PC-94	PC-94.062509				
1035		PC-94	PC-94.062509				
1140		PC-2	PC-2.062509				
1140		PC-2	PC-2.062509				
1140		PC-2	PC-2.062509				
1215		PC-1	PC-1.062509				
1215		PC-1	PC-1.062509				
1215		PC-1	PC-1.062509				
1215		PC-1	PC-1.062509				
							PREDEQUALIFIED EPA

* 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

RGW = Raw Ground Water
RSW = Raw Surface Water

RELINQUISHED BY: <u>[Signature]</u>	SIGNATURE	PRINT NAME: <u>VICTORIA HANSEN</u>	COMPANY/TITLE: <u>CEO / ENVIRO. SCIENTIST</u>	DATE: <u>25 JUN 09</u>	TIME: <u>1330</u>
RECEIVED BY: <u>[Signature]</u>					
RELINQUISHED BY: <u>[Signature]</u>					
RECEIVED BY: <u>[Signature]</u>					

From: Origin ID: LASA (702) 651-2230
 Shipping
 Tronox LLC
 8000 lake Mead parkway
 henderson, NV 89015



J09200906152023

Ship Date: 25JUN09
 ActWgt: 35.0 LB
 CAD: 100263135/NET9060
 Account#: S *****

Dims: 21 X 15 X 15 IN

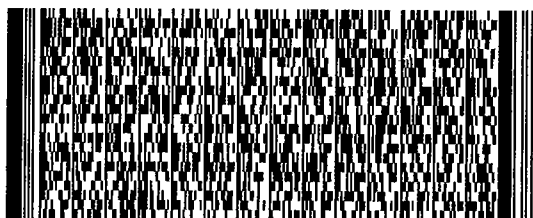
SHIP TO: (626) 568-6400 **BILL THIRD PARTY**
sample receiving
Montgomery Watson labs
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

Delivery Address Bar Code



Ref # 20092544V1
 Invoice #
 PO # Annual Sampling Event
 Dept #

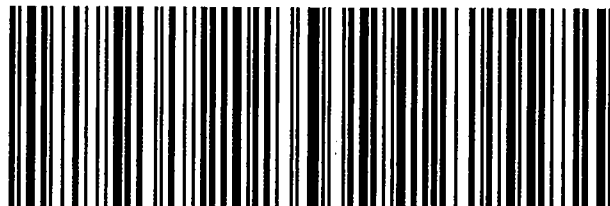


TRK# 7967 2715 3074
 0201

FRI - 26JUN **A2**
PRIORITY OVERNIGHT
DSR

91016
CA-US
BUR

QZ WHPA

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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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 Plant
 P.O. Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: (702) 651-2234

Customer Code: KERRMCGEE-NV
 PO#: SMC-06109901
 Group#: 272306
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **06/26/09**. 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
2906270007	PC-94	CLO4 CR6010 EC9050 P	Water	25-jun-2009 10:35:00 PH9040 T
		TDS		
2906270008	PC-2	CLO4 CR6010 EC9050 P	Water	25-jun-2009 11:40:00 PH9040 T
		TDS		
2906270009	PC-1	CLO39056 CLO4 EC9050 P	Water	25-jun-2009 12:15:00 PH9040
		T TDS		

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
EC9050	Specific Conductance
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)



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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. Eaton*



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Laboratory
Hits Report
#272306

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

Samples Received
26-jun-2009 12:40:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906270007	PC-94				
07/10/09	Chromium, Total, ICAP		0.067		mg/l	0.010
06/26/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
07/03/09	Perchlorate		4930		ug/l	400
06/30/09	Specific Conductance		6800		umho/cm	2.0
06/29/09	Total Dissolved Solid (TDS)		5880	500	mg/l	10
	2906270008	PC-2				
07/10/09	Chromium, Total, ICAP		0.21		mg/l	0.010
07/07/09	Metals digestion performed.		Y		Yes/No	
06/26/09	PH (H3=past HT, not compliant)		7.6		Units	0.0010
07/03/09	Perchlorate		5590		ug/l	400
06/30/09	Specific Conductance		7280		umho/cm	2.0
06/29/09	Total Dissolved Solid (TDS)		6050	500	mg/l	10
	2906270009	PC-4				
07/10/09	Chlorate by IC		107000		ug/l	2000
07/10/09	Chromium, Total, ICAP		0.14		mg/l	0.010
07/07/09	Metals digestion performed.		Y		Yes/No	
06/29/09	Nitrate as Nitrogen by IC		23.5		mg/l	2.5
06/26/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
07/03/09	Perchlorate		8260		ug/l	400
06/30/09	Specific Conductance		8870		umho/cm	2.0
06/29/09	Total Dissolved Solid (TDS)		7540	500	mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Data Report
#272306

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

Samples Received
06/26/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-94 (2906270007)			Sampled on 06/25/09 10:35					
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	4930	ug/l	400	100
07/06/09	07/10/09 00:00	489749	(ML/EPA 6010B)	Chromium, Total, ICAP	0.067	mg/l	0.010	1
	06/30/09 10:02	489127	(ML/EPA 9050A)	Specific Conductance	6800	umho/cm	2.0	1
	06/26/09 15:50	489019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
06/29/09	06/29/09 20:20	489478	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5880	mg/l	10	1
PC-2 (2906270008)			Sampled on 06/25/09 11:40					
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	5590	ug/l	400	100
07/06/09	07/10/09 00:00	489749	(ML/EPA 6010B)	Chromium, Total, ICAP	0.21	mg/l	0.010	1
	07/07/09 13:22		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/30/09 10:02	489127	(ML/EPA 9050A)	Specific Conductance	7280	umho/cm	2.0	1
	06/26/09 15:50	489019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
06/29/09	06/29/09 20:20	489478	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6050	mg/l	10	1
PC-4 (2906270009)			Sampled on 06/25/09 12:15					
	07/10/09 00:00	489736	(ML/EPA 9056)	Chlorate by IC	107000	ug/l	2000	200
	07/03/09 00:00	489429	(EPA 314)	Perchlorate	8260	ug/l	400	100
07/06/09	07/10/09 00:00	489749	(ML/EPA 6010B)	Chromium, Total, ICAP	0.14	mg/l	0.010	1
	07/07/09 13:22		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/30/09 10:02	489127	(ML/EPA 9050A)	Specific Conductance	8870	umho/cm	2.0	1
	06/29/09 13:23	489116	(ML/EPA 9056)	Nitrate as Nitrogen by IC	23.5	mg/l	2.5	25
	06/26/09 15:50	489019	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
06/29/09	06/29/09 20:20	489478	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7540	mg/l	10	1



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Laboratory
QC Summary
#272306

Tronox LLC - Henderson

QC Ref #489019 - PH (H3=past HT, not compliant) Analysis Date: 06/26/2009

2906270007	PC-94	Analyzed by: nem
2906270008	PC-2	Analyzed by: nem
2906270009	PC-4	Analyzed by: nem

QC Ref #489116 - Nitrate as Nitrogen by IC Analysis Date: 06/29/2009

2906270009	PC-4	Analyzed by: sxk
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QC Ref #489127 - Specific Conductance Analysis Date: 06/30/2009

2906270007	PC-94	Analyzed by: sar
2906270008	PC-2	Analyzed by: sar
2906270009	PC-4	Analyzed by: sar

QC Ref #489429 - Perchlorate Analysis Date: 07/03/2009

2906270007	PC-94	Analyzed by: ser
2906270008	PC-2	Analyzed by: ser
2906270009	PC-4	Analyzed by: ser

QC Ref #489478 - Total Dissolved Solid (TDS) Analysis Date: 06/29/2009

2906270007	PC-94	Analyzed by: jrf
2906270008	PC-2	Analyzed by: jrf
2906270009	PC-4	Analyzed by: jrf

QC Ref #489736 - Chlorate by IC Analysis Date: 07/10/2009

2906270009	PC-4	Analyzed by: ser
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QC Ref #489749 - Chromium, Total, ICAP Analysis Date: 07/10/2009

2906270007	PC-94	Analyzed by: csk
2906270008	PC-2	Analyzed by: csk
2906270009	PC-4	Analyzed by: csk

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Tronox LLC - Henderson

QC Ref #489019 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.83	7.76	UNIT		(0-20)	0.9

QC Ref #489116 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906290088MGL			(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.40	MGL	96.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.41	MGL	96.4	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0454	MGL	90.8	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.34	MGL	107.2	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.33	MGL	106.4	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	96.000	96.400	MGL	0.4	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	107.200	106.400	MGL	0.7	(0-20)	

QC Ref #489127 Specific Conductance

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	1360	1360	UMHO		(0-20)	0.0
MRL_CHK	Specific Conductance	2.000	1.90	UMHO	95.0	(50-150)	

QC Ref #489429 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06300163	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	4.58	UGL	114.5	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.4	UGL	89.6	(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
#272306

Tronox LLC - Henderson (continued)

MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)
RPD_LCS	Perchlorate	97.200	97.200	UGL	0.0	(0-15)
RPD_MS	Perchlorate	89.600	90.000	UGL	1.0	(0-15)

QC Ref #489478 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	0906250222	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	884	890	MGL		(0-10)	0.7
LCS1	Total Dissolved Solid (TDS)	175	178	MGL	101.7	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	704	MGL	100.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	13	MGL	130.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	101.714	100.571	MGL	1.1	(0-20)	

QC Ref #489736 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06240333	UGL		(0-0)	
LCS1	Chlorate by IC	200	198	UGL	99.0	(90-110)	
LCS2	Chlorate by IC	200	198	UGL	99.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.58	UGL	85.8	(50-150)	
MS	Chlorate by IC	100	99.1	UGL	99.1	(75-125)	
MSD	Chlorate by IC	100	99.0	UGL	99.0	(75-125)	
RPD_LCS	Chlorate by IC	99.000	99.000	UGL	0.0	(0-20)	
RPD_MS	Chlorate by IC	99.100	99.000	UGL	0.1	(0-20)	

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Laboratory
QC Report
#272306

Tronox LLC - Henderson
(continued)

QC Ref #489749

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06300071	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	(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	0.992	MGL	99.2	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.983	MGL	98.3	(70-130)	

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