



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
Feb 03 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 263577
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 15 page[s].



BUILDING A BETTER WORLD

February 4, 2009

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

Subject: Case Narrative report 263577

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on January 16, 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



263577

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

SAMPLES CHECKED/LOGGED IN BY: TR

SAMPLE TEMP, RECEIPT AT LAB: 20

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

M/LABS USE ONLY:

LOGIN COMMENTS:

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

KERRIMCGEE-MP

Collection Wells Fields - Monthly - SO #12374

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	CLO4	TDS	CR6010	CLO3	NO3	SAMPLER COMMENTS
11:04	1/14/09		M-83	RSW	X		X	X				No Sample
9:50	1/15/09		M-87	RSW	X		X	X				
8:15	1/13/09		PC-98R	RSW	X		X	X				
8:28	1/13/09		PC-86	RSW	X		X	X				
9:29	1/12/09		PC-90	RSW	X		X	X				
9:25	1/12/09		PC-56	RSW	X		X	X				
9:43	1/12/09		PC-38	RSW	X		X	X				
9:38	1/12/09		PC-59	RSW	X		X	X				
9:50	1/12/09		PC-60	RSW	X		X	X				
9:57	1/12/09		PC-62	RSW	X		X	X				
9:02	1/13/09		PC-68	RSW	X		X	X				
			PC-122	RSW	X		X	X				

Reported by Volume:

CFW = Chlor/aminated 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

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

REINQUISHED BY:

RECEIVED BY:

REINQUISHED BY:

RECEIVED BY:

Michele Brown

Michele Brown

Veolia Water for Tronox LLC - Henderson Plant

1/15/2009 12:00pm

JANE FLORES

MWH

169 10:06



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

MWLABS USE ONLY:

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

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: TR

SAMPLE TEMP, RECEIPT AT LAB: 20

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

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

Susan Crowley (702) 651-2200

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

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

SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CLO ₂	TDS	CR6010	CLO ₃	NO ₃	SAMPLER COMMENTS
9:03	1/15/09		MW-K4	RSW	X		X					
9:28	1/14/09		ARP-1	RSW	X		X					
			ARP-2	RSW	X		X					
			ARP-3	RSW	X		X					
8:49	1/15/09		ARP-4A	RSW	X		X					NO SAMPLE
8:38	1/15/09		ARP-5A	RSW	X		X					NO SAMPLE
8:18	1/15/09		ARP-6B	RSW	X		X					
9:15	1/13/09		ARP-7	RSW	X		X					
7:48	1/15/09		PC-53	RSW	X		X					
9:17	1/15/09		PC-103	RSW	X		X					
8:00	1/15/09		MW-K5	RSW	X		X					

* 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:

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

SIGNATURE

RELINQUISHED BY: Michele Brown

PRINT NAME

Michele Brown

COMPANY/TITLE

Veolia Water for Tronox LLC - Henderson Plant

DATE

1/15/2009

TIME

12:00pm

RECEIVED BY: TR

RELINQUISHED BY: TR

RELINQUISHED BY: TR

RELINQUISHED BY: TR

RELINQUISHED BY: TR



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: J.F.

SAMPLE TEMP, RECEIPT AT LAB: 2.0

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		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		SAMPLER COMMENTS		
KERRMCGEE-MP Sampler: Michele Brown Susan Crowley (702) 651-2200		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		Collection Wells - Monthly - SO #12374		NO3 CLO3 CR6010 TDS CLO2				
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	SAMPLES SHIPPED DAILY DUE TO SHORT HOLDING FOR NO3			
8:42	1/13/09		PC-91	RSW	X					
8:03	1/13/09		PC-97	RSW	X					
9:40	1/13/09		PC-17	RSW	X					
7:51	1/14/09		PC-18	RSW	X					
9:15	1/14/09		PC-55	RSW	X					
			PC-101R	RSW	X					NO SAMPLE
9:56	1/14/19		L-635	RSW	X					
10:30	1/14/19		L-637	RSW	X					

* MATRIX TYPES:

Reported by Volume:
CFW = Chlor(am)inated 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

REQUISITIONED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: <u>Susan Crowley</u>		Michele Brown	Veolia Water for Tronox LLC - Henderson Plant	1/15/2009	1200pm
RELINQUISHED BY:		<u>TONGE FLORES</u>	<u>MWLA</u>	<u>1-16-9</u>	<u>10:00</u>
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 Ironox, 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# GWREMEDIATION
Blanket PO

M Monthly Period

SO# 46074 12374 RS

Sampler: Please Return this Paper with your samples

Created by GJY

Order Date 12/09/08

Date Needed by Client

Date Samples to Arrive at MWL
SHIP LOCATION

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

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
				testcodes updated 3-16-06
				test changed from EC to TDS as

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#: 263577
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **01/16/09**. 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
2901160237	M-87	CLO4 TDS	Water	14-jan-2009 11:04:00
2901160239	PC-98R	CLO4 TDS	Water	15-jan-2009 09:50:00
2901160240	PC-86	CLO4 TDS	Water	13-jan-2009 08:15:00
2901160241	PC-90	CLO4 TDS	Water	13-jan-2009 08:28:00
2901160242	PC-56	CLO4 TDS	Water	12-jan-2009 09:29:00
2901160243	PC-58	CLO4 TDS	Water	12-jan-2009 09:25:00
2901160244	PC-59	CLO4 TDS	Water	12-jan-2009 09:43:00
2901160245	PC-60	CLO4 TDS	Water	12-jan-2009 09:38:00
2901160246	PC-62	CLO4 TDS	Water	12-jan-2009 09:50:00
2901160247	PC-68	CLO4 TDS	Water	12-jan-2009 09:57:00
2901160248	PC-122	CLO4 TDS	Water	13-jan-2009 09:02:00
2901160249	MW-K4	CLO4 TDS	Water	15-jan-2009 09:03:00
2901160250	ARP-1	CLO4 TDS	Water	14-jan-2009 09:28:00
2901160251	ARP-4A	CLO4 TDS	Water	15-jan-2009 08:49:00
2901160252	ARP-5A	CLO4 TDS	Water	15-jan-2009 08:38:00
2901160253	ARP-6B	CLO4 TDS	Water	15-jan-2009 08:18:00
2901160254	ARP-7	CLO4 TDS	Water	13-jan-2009 09:15:00

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#: 263577
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2901160255	PC-53	CLO4 TDS	Water	15-jan-2009 07:48:00
2901160256	PC-103	CLO4 TDS	Water	15-jan-2009 09:17:00
2901160257	MW-K5	CLO4 TDS	Water	15-jan-2009 08:00:00
2901160258	PC-91	CLO4 TDS	Water	13-jan-2009 08:42:00
2901160259	PC-97	CLO4 TDS	Water	13-jan-2009 08:03:00
2901160260	PC-17	CLO4 TDS	Water	13-jan-2009 09:40:00
2901160261	PC-18	CLO4 TDS	Water	14-jan-2009 07:51:00
2901160262	PC-55	CLO4 TDS	Water	14-jan-2009 09:15:00
2901160263	L-635	CLO4 TDS	Water	14-jan-2009 09:56:00
2901160264	L-637	CLO4 TDS	Water	14-jan-2009 10:30:00

Test Acronym Description

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



MWH Laboratories

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1 800 566 LABS (1 800 566 5227)

Report
Comments
#263577

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: 



750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3829
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Laboratory
 Hits Report
 #263577

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

Samples Received
 16-jan-2009 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2901160237	M-87				
01/22/09	Perchlorate		347000		ug/l	20000
01/16/09	Total Dissolved Solid (TDS)		4040	500	mg/l	10
	2901160239	PC-98R				
01/22/09	Perchlorate		9100		ug/l	800
01/16/09	Total Dissolved Solid (TDS)		6230	500	mg/l	10
	2901160240	PC-86				
01/22/09	Perchlorate		1600		ug/l	80
01/16/09	Total Dissolved Solid (TDS)		2490	500	mg/l	10
	2901160241	PC-90				
01/22/09	Perchlorate		7510		ug/l	800
01/16/09	Total Dissolved Solid (TDS)		4150	500	mg/l	10
	2901160242	PC-56				
01/22/09	Perchlorate		1340		ug/l	200
01/16/09	Total Dissolved Solid (TDS)		2360	500	mg/l	10
	2901160243	PC-58				
01/22/09	Perchlorate		9650		ug/l	400
01/16/09	Total Dissolved Solid (TDS)		6450	500	mg/l	10
	2901160244	PC-59				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #263577

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

Samples Received
 16-jan-2009 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2901160244	PC-59				
01/22/09	Perchlorate		7070		ug/l	400
01/16/09	Total Dissolved Solid (TDS)		4240	500	mg/l	10
	2901160245	PC-60				
01/22/09	Perchlorate		7730		ug/l	400
01/16/09	Total Dissolved Solid (TDS)		4280	500	mg/l	10
	2901160246	PC-62				
01/22/09	Perchlorate		3750		ug/l	200
01/16/09	Total Dissolved Solid (TDS)		3240	500	mg/l	10
	2901160247	PC-68				
01/22/09	Perchlorate		98		ug/l	20
01/16/09	Total Dissolved Solid (TDS)		2000	500	mg/l	10
	2901160248	PC-122				
01/22/09	Perchlorate		12200		ug/l	800
01/16/09	Total Dissolved Solid (TDS)		8740	500	mg/l	10
	2901160249	MW-K4				
01/22/09	Perchlorate		123000		ug/l	8000
01/16/09	Total Dissolved Solid (TDS)		5760	500	mg/l	10
	2901160250	ARP-1				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Hits Report
 #263577

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

Samples Received
 16-jan-2009 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2901160250	ARP-1				
01/28/09	Perchlorate		2430		ug/l	200
01/16/09	Total Dissolved Solid (TDS)		6020	500	mg/l	10
	2901160251	ARP-4A				
01/22/09	Perchlorate		29500		ug/l	2000
01/16/09	Total Dissolved Solid (TDS)		4430	500	mg/l	10
	2901160252	ARP-5A				
01/22/09	Perchlorate		24000		ug/l	2000
01/16/09	Total Dissolved Solid (TDS)		6180	500	mg/l	10
	2901160253	ARP-6B				
01/22/09	Perchlorate		19400		ug/l	800
01/16/09	Total Dissolved Solid (TDS)		10200	500	mg/l	10
	2901160254	ARP-7				
01/22/09	Perchlorate		5980		ug/l	400
01/16/09	Total Dissolved Solid (TDS)		6460	500	mg/l	10
	2901160255	PC-53				
01/22/09	Perchlorate		1150		ug/l	200
01/16/09	Total Dissolved Solid (TDS)		4220	500	mg/l	10
	2901160256	PC-103				

SUMMARY OF POSITIVE DATA ONLY.



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#263577

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

Samples Received
16-jan-2009 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2901160256	PC-103				
01/22/09	Perchlorate		9570		ug/l	400
01/16/09	Total Dissolved Solid (TDS)		4320	500	mg/l	10
	2901160257	MW-K5				
01/22/09	Perchlorate		11400		ug/l	800
01/16/09	Total Dissolved Solid (TDS)		7460	500	mg/l	10
	2901160258	PC-91				
01/28/09	Perchlorate		20800		ug/l	1600
01/18/09	Total Dissolved Solid (TDS)		6900	500	mg/l	10
	2901160259	PC-97				
01/22/09	Perchlorate		264		ug/l	20
01/18/09	Total Dissolved Solid (TDS)		2500	500	mg/l	10
	2901160260	PC-17				
01/22/09	Perchlorate		183000		ug/l	20000
01/18/09	Total Dissolved Solid (TDS)		9000	500	mg/l	10
	2901160261	PC-18				
01/24/09	Perchlorate		201000		ug/l	20000
01/18/09	Total Dissolved Solid (TDS)		10300	500	mg/l	10
	2901160262	PC-55				

SUMMARY OF POSITIVE DATA ONLY.



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

Samples Received
 16-jan-2009 10:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2901160262	PC-55				
01/23/09	Perchlorate		692		ug/l	80
01/18/09	Total Dissolved Solid (TDS)		8540	500	mg/l	10
	2901160263	L-635				
01/18/09	Total Dissolved Solid (TDS)		9860	500	mg/l	10
	2901160264	L-637				
01/18/09	Total Dissolved Solid (TDS)		7100	500	mg/l	10

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Laboratory
Data Report
#263577

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

Samples Received
01/16/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-87 (2901160237)				Sampled on 01/14/09 11:04				
	01/22/09 00:00	468813	(EPA 314)	Perchlorate	347000	ug/l	20000	5000
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4040	mg/l	10	1
PC-98R (2901160239)				Sampled on 01/15/09 09:50				
	01/22/09 00:00	468813	(EPA 314)	Perchlorate	9100	ug/l	800	200
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6230	mg/l	10	1
PC-86 (2901160240)				Sampled on 01/13/09 08:15				
	01/22/09 00:00	468813	(EPA 314)	Perchlorate	1600	ug/l	80	20
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2490	mg/l	10	1
PC-90 (2901160241)				Sampled on 01/13/09 08:28				
	01/22/09 00:00	468813	(EPA 314)	Perchlorate	7510	ug/l	800	200
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4150	mg/l	10	1
PC-56 (2901160242)				Sampled on 01/12/09 09:29				
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	1340	ug/l	200	50
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2360	mg/l	10	1
PC-58 (2901160243)				Sampled on 01/12/09 09:25				
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	9650	ug/l	400	100
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6450	mg/l	10	1
PC-59 (2901160244)				Sampled on 01/12/09 09:43				
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	7070	ug/l	400	100
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4240	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-60 (2901160245) Sampled on 01/12/09 09:38								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	7730	ug/l	400	100
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4290	mg/l	10	1
PC-62 (2901160246) Sampled on 01/12/09 09:50								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	3750	ug/l	200	50
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	3240	mg/l	10	1
PC-68 (2901160247) Sampled on 01/12/09 09:57								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	98	ug/l	20	5
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2000	mg/l	10	1
PC-122 (2901160248) Sampled on 01/13/09 09:02								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	12200	ug/l	800	200
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8740	mg/l	10	1
MW-K4 (2901160249) Sampled on 01/15/09 09:03								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	123000	ug/l	8000	2000
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	5760	mg/l	10	1
ARP-1 (2901160250) Sampled on 01/14/09 09:28								
	01/28/09 00:00	469708	(EPA 314)	Perchlorate	2430	ug/l	200	50
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6020	mg/l	10	1
ARP-4A (2901160251) Sampled on 01/15/09 08:49								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	29500	ug/l	2000	500
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4430	mg/l	10	1
ARP-5A (2901160252) Sampled on 01/15/09 08:38								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	24000	ug/l	2000	500
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6180	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
ARP-6B (2901160253) Sampled on 01/15/09 08:18								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	19400	ug/l	800	200
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10200	mg/l	10	1
ARP-7 (2901160254) Sampled on 01/13/09 09:15								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	5980	ug/l	400	100
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6460	mg/l	10	1
PC-53 (2901160255) Sampled on 01/15/09 07:48								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	1150	ug/l	200	50
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4220	mg/l	10	1
PC-103 (2901160256) Sampled on 01/15/09 09:17								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	9570	ug/l	400	100
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	4320	mg/l	10	1
MW-K5 (2901160257) Sampled on 01/15/09 08:00								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	11400	ug/l	800	200
01/16/09	01/16/09 20:05	468373	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7460	mg/l	10	1
PC-91 (2901160258) Sampled on 01/13/09 08:42								
	01/28/09 00:00	469708	(EPA 314)	Perchlorate	20800	ug/l	1600	400
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	6900	mg/l	10	1
PC-97 (2901160259) Sampled on 01/13/09 08:03								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	264	ug/l	20	5
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	2500	mg/l	10	1
PC-17 (2901160260) Sampled on 01/13/09 09:40								
	01/22/09 02:15	468817	(EPA 314)	Perchlorate	183000	ug/l	20000	5000
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9000	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
PC-18 (2901160261) Sampled on 01/14/09 07:51								
	01/24/09 00:00	469586	(EPA 314)	Perchlorate	201000	ug/l	20000	5000
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	10300	mg/l	10	1
PC-55 (2901160262) Sampled on 01/14/09 09:15								
	01/23/09 19:30	469586	(EPA 314)	Perchlorate	692	ug/l	80	20
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8540	mg/l	10	1
L-635 (2901160263) Sampled on 01/14/09 09:56								
	01/24/09 00:00	469586	(EPA 314)	Perchlorate	ND	ug/l	10	5
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	9860	mg/l	10	1
L-637 (2901160264) Sampled on 01/14/09 10:30								
	01/24/09 00:00	469586	(EPA 314)	Perchlorate	ND	ug/l	10	5
01/18/09	01/18/09 20:05	468374	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	7100	mg/l	10	1



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QC Ref #468373 - Total Dissolved Solid (TDS) Analysis Date: 01/16/2009

2901160237	M-87	Analyzed by: axd
2901160239	PC-98R	Analyzed by: axd
2901160240	PC-86	Analyzed by: axd
2901160241	PC-90	Analyzed by: axd
2901160242	PC-56	Analyzed by: axd
2901160243	PC-58	Analyzed by: axd
2901160244	PC-59	Analyzed by: axd
2901160245	PC-60	Analyzed by: axd
2901160246	PC-62	Analyzed by: axd
2901160247	PC-68	Analyzed by: axd
2901160248	PC-122	Analyzed by: axd
2901160249	MW-K4	Analyzed by: axd
2901160250	ARP-1	Analyzed by: axd
2901160251	ARP-4A	Analyzed by: axd
2901160252	ARP-5A	Analyzed by: axd
2901160253	ARP-6B	Analyzed by: axd
2901160254	ARP-7	Analyzed by: axd
2901160255	PC-53	Analyzed by: axd
2901160256	PC-103	Analyzed by: axd
2901160257	MW-K5	Analyzed by: axd

QC Ref #468374 - Total Dissolved Solid (TDS) Analysis Date: 01/18/2009

2901160258	PC-91	Analyzed by: axd
2901160259	PC-97	Analyzed by: axd
2901160260	PC-17	Analyzed by: axd
2901160261	PC-18	Analyzed by: axd
2901160262	PC-55	Analyzed by: axd
2901160263	L-635	Analyzed by: axd
2901160264	L-637	Analyzed by: axd

QC Ref #468813 - Perchlorate Analysis Date: 01/22/2009

2901160237	M-87	Analyzed by: ser
2901160239	PC-98R	Analyzed by: ser
2901160240	PC-86	Analyzed by: ser
2901160241	PC-90	Analyzed by: ser



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Tronox LLC - Henderson
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QC Ref #468817 - Perchlorate

Analysis Date: 01/22/2009

2901160242	PC-56	Analyzed by: ser
2901160243	PC-58	Analyzed by: ser
2901160244	PC-59	Analyzed by: ser
2901160245	PC-60	Analyzed by: ser
2901160246	PC-62	Analyzed by: ser
2901160247	PC-68	Analyzed by: ser
2901160248	PC-122	Analyzed by: ser
2901160249	MW-K4	Analyzed by: ser
2901160251	ARP-4A	Analyzed by: ser
2901160252	ARP-5A	Analyzed by: ser
2901160253	ARP-6B	Analyzed by: ser
2901160254	ARP-7	Analyzed by: ser
2901160255	PC-53	Analyzed by: ser
2901160256	PC-103	Analyzed by: ser
2901160257	MW-K5	Analyzed by: ser
2901160259	PC-97	Analyzed by: ser
2901160260	PC-17	Analyzed by: ser

QC Ref #469586 - Perchlorate

Analysis Date: 01/24/2009

2901160261	PC-18	Analyzed by: ser
2901160262	PC-55	Analyzed by: ser
2901160263	L-635	Analyzed by: ser
2901160264	L-637	Analyzed by: ser

QC Ref #469708 - Perchlorate

Analysis Date: 01/28/2009

2901160250	ARP-1	Analyzed by: ser
2901160258	PC-91	Analyzed by: ser



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QC Ref #468373 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	01160237	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	4290	4040	MGL		(0-10)	6.0
LCS1	Total Dissolved Solid (TDS)	175	180	MGL	102.9	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	676	MGL	96.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	11.0	MGL	110.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	102.857	96.571	MGL	6.3	(0-20)	

QC Ref #468374 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	01150118	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	1950	1930	MGL		(0-10)	1.0
LCS1	Total Dissolved Solid (TDS)	175	174	MGL	99.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	690	MGL	98.6	(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)	99.429	98.571	MGL	0.9	(0-20)	

QC Ref #468813 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	01140153	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	
LCS3	Perchlorate	4	3.57	UGL	89.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.9	UGL	99.6	(80-120)	
MSD	Perchlorate	25.0	25.0	UGL	100.0	(80-120)	
RPD_LCS	Perchlorate	98.000	97.200	UGL	0.8	(0-15)	
RPD_MS	Perchlorate	99.600	100.000	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
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QC Ref #468817 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	01160051	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.4	UGL	97.6	(85-115)	
LCS2	Perchlorate	25.0	24.7	UGL	98.8	(85-115)	
LCS3	Perchlorate	4	3.52	UGL	88.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.5	UGL	94.0	(80-120)	
MSD	Perchlorate	25.0	22.7	UGL	90.8	(80-120)	
RPD_LCS	Perchlorate	97.600	98.800	UGL	1.2	(0-15)	
RPD_MS	Perchlorate	94.000	90.800	UGL	1.0	(0-15)	

QC Ref #469586 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	01200027	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.8	UGL	99.2	(85-115)	
LCS2	Perchlorate	25.0	24.8	UGL	99.2	(85-115)	
LCS3	Perchlorate	4	3.79	UGL	94.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.1	UGL	96.4	(80-120)	
MSD	Perchlorate	25.0	24.0	UGL	96.0	(80-120)	
RPD_LCS	Perchlorate	99.200	99.200	UGL	0.0	(0-15)	
RPD_MS	Perchlorate	96.400	96.000	UGL	1.0	(0-15)	

QC Ref #469708 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	01210386	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.9	UGL	99.6	(85-115)	
LCS2	Perchlorate	25.0	25.4	UGL	101.6	(85-115)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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LCS3	Perchlorate	4	3.58	UGL	89.5	(75-125)
MBLK	Perchlorate	ND	<4.0	UGL		
MS	Perchlorate	25.0	21.4	UGL	85.6	(80-120)
MSD	Perchlorate	25.0	21.8	UGL	87.2	(80-120)
RPD_LCS	Perchlorate	99.600	101.600	UGL	2.0	(0-15)
RPD_MS	Perchlorate	85.600	87.200	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
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