



# 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  
Jun 29 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 270567  
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 17 page[s].



BUILDING A BETTER WORLD

June 30, 2009

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

Subject: Case Narrative report 270567

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 08, 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 QC issues were observed:

Nitrate + Nitrite as N by RFA – Initial analysis within holdingtime. Reanalysis was past holding time.

Other observations:

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.

Note that the East Well has higher hex chrome than total chrome, but results are within expected analytical error.

Sincerely,

A handwritten signature in cursive script that reads "Andrew Eaton".

Andrew Eaton, PhD  
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

270567

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

MWLABS USE ONLY:  
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: SR

SAMPLE TEMP, RECEIPT AT LAB: R

BLUE ICE: FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#  
Quarterly Groundwater Sampling

SAMPLER: Michele Brown

*Michele Brown*

Susan Crowley (702) 651-2234

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

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	CR 6010	PH 9040	TDS	CL04	CRVI 7196	CL03 9056	NO3 9056	See Bottle Order	SAMPLER Comments
550	5-7-09		M-87	RGW	X		X	X	X	X					2 Bottles
605	5-7-09		M-70	RGW	X		X	X	X	X					2 Bottles
704	5-7-09		M-71	RGW	X		X	X	X	X					2 Bottles
719	5-7-09		M-72	RGW	X		X	X	X	X					2 Bottles
748	5-7-09		M-38	RGW	X		X	X	X	X					2 Bottles
846	5-7-09		M-36	RGW	X		X	X	X	X	X	X			5 Bottles
825	5-7-09		M-84	RGW	X		X	X	X	X	X				3 Bottles
815	5-7-09		M-100	RGW	X		X	X	X	X	X				3 Bottles
1005	5-7-09		M-10	RGW	X		X	X	X	X	X	X			5 Bottles
	5-7-09		MD-20	RGW	X		X	X	X	X	X	X			5 Bottles
732	5-7-09		M-22A	RGW	X		X	X	X	X	X	X			2 Bottles
803	5-7-09		M-89	RGW	X		X	X	X	X	X	X			2 Bottles

\* 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

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: <i>Michele Brown</i>	COMPANY/TITLE: Vecilia Water NA for Tronox LLC - Henderson Plant	DATE: 5-7-09	TIME: 12:00PM
RECEIVED BY:			
RELINQUISHED BY:			
RECEIVED BY: <i>Susan Crowley</i>			

**Bottle Order for Kerr, McGee Chemical Company - Henderson**

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

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# 47276** 16933 RS **Sampler: Please Return this Paper with your samples**

Created by GJY  
 Order Date 03/16/09  
 Date Needed by Client  
 Date Samples to Arrive at MWL  
 SHIP LOCATION

Send Report to  
 Kerr, McGee, Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

Billing Address

Kerr, McGee, Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

ATTN: Susan Crowley  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

Quote# GJY

Bottles-Qty for each sample, type & preservative if any

# of Samples Tests

# of Samples	Tests	UN#	Important Comments
16	TOC9060	UN 2796	LANDFILL WELLS:
4	TOX	UN 2796	M-5A, M-6A, M-7A, H-28A
16	PH9040, EC9050		LOGIN - Please assign 4 lab numbers to each of the quadruplicate tests - TOX, TOC, EC, pH
4	SO49056, CL9056	UN 2031	FOR APRIL SAMPLING EVENT
4	FE6010, MN6010, CR6010, NA6010	UN 2796	Testcodes updated 3-16-06
4	PHENOL96		TDS and CLO4 added 6/16/06. (not in quad)
4	TDS,		<b>note to login</b> - please add location code on each of these at login - Quad1, Quad2, Quad3, Quad4 for the 4 replicates of each well for
4	CLO4		

Prepared By

Date Shipped Carrier Qty of Coolers Tracking Number

ActiveCode Status

**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#: 270567  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 05/08/09. 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
2905110089	M-87		Water	07-may-2009 05:50:00
		CLO4 CR6010	PH9040 TDS	
2905110090	M-70		Water	07-may-2009 06:52:00
		CLO4 CR6010	PH9040 TDS	
2905110091	M-71		Water	07-may-2009 07:04:00
		CLO4 CR6010	PH9040 TDS	
2905110092	M-72		Water	07-may-2009 07:19:00
		CLO4 CR6010	PH9040 TDS	
2905110093	M-38		Water	07-may-2009 07:48:00
		CLO4 CR6010	PH9040 TDS	
2905110094	M-36		Water	07-may-2009 08:46:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110095	M-84		Water	07-may-2009 08:35:00
		CLO4 CR6010	CRVI7196 PH9040 TDS	
2905110096	M-100		Water	07-may-2009 08:15:00
		CLO4 CR6010	CRVI7196 PH9040 TDS	
2905110097	M-10		Water	07-may-2009 10:05:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110098	M-2		Water	07-may-2009 00:00:00
		CLO39056 CLO4	CR6010 CRVI7196 NO39056 PH9040	
		TDS		
2905110099	M-22A		Water	07-may-2009 07:32:00
		CLO4 CR6010	PH9040 TDS	
2905110100	M-89		Water	07-may-2009 08:03:00
		CLO4 CR6010	PH9040 TDS	

Test Acronym Description

Test Acronym	Description
CLO39056	Chlorate by IC
CLO4	Perchlorate

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PO#: Susan Crowley PO  
Group#: 270567  
Project#: CLO4  
Proj Mgr: Andrew Eaton  
Phone: (626) 386-1125

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Test Acronym Description

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Test Acronym	Description
CR6010	Chromium, Total, ICAP
CRVI7196	Hexavalent chromium (Cr VI)
NO39056	Nitrate as Nitrogen by IC
PH9040	PH (H3=past HT, not compliant)
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: \_\_\_\_\_

(QC Ref#: 2905110094)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2905110097)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.

(QC Ref#: 2905110098)

Test: Nitrate + Nitrite as N by RFA (EPA 353.2)

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.



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Laboratory  
Hits Report  
#270567

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

Samples Received  
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2905110089</b>	<b>M-87</b>				
06/09/09			Chromium, Total, ICAP	3.0	mg/l	0.020
05/08/09			PH (H3=past HT, not compliant)	7.6	Units	0.0010
05/29/09			Perchlorate	339000	ug/l	20000
05/14/09			Total Dissolved Solid (TDS)	4190	500 mg/l	10
	<b>2905110090</b>	<b>M-70</b>				
06/08/09			Chromium, Total, ICAP	0.550	mg/l	0.020
05/08/09			PH (H3=past HT, not compliant)	7.7	Units	0.0010
06/03/09			Perchlorate	118000	ug/l	8000
05/14/09			Total Dissolved Solid (TDS)	2780	500 mg/l	10
	<b>2905110091</b>	<b>M-71</b>				
06/08/09			Chromium, Total, ICAP	5.1	mg/l	0.050
05/08/09			PH (H3=past HT, not compliant)	7.4	Units	0.0010
05/29/09			Perchlorate	636000	ug/l	40000
05/14/09			Total Dissolved Solid (TDS)	6060	500 mg/l	10
	<b>2905110092</b>	<b>M-72</b>				
06/08/09			Chromium, Total, ICAP	4.6	mg/l	0.050
05/08/09			PH (H3=past HT, not compliant)	7.5	Units	0.0010
05/29/09			Perchlorate	944000	ug/l	40000
05/14/09			Total Dissolved Solid (TDS)	7780	500 mg/l	10
	<b>2905110093</b>	<b>M-38</b>				
06/08/09			Chromium, Total, ICAP	26	mg/l	0.10
05/08/09			PH (H3=past HT, not compliant)	7.4	Units	0.0010

SUMMARY OF POSITIVE DATA ONLY.





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#270567

Tronox LLC - Henderson  
Susan Crowley  
PO Box 55  
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Samples Received  
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2905110093</b>	<b>M-38</b>				
06/03/09	Perchlorate		1100000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		10200	500	mg/l	10
	<b>2905110094</b>	<b>M-36</b>				
05/23/09	Chlorate by IC		7040000		ug/l	200000
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	Hexavalent chromium (Cr VI)		35.0		mg/l	0.0050
06/19/09	Nitrate + Nitrite as N by RFA		52.7	10	mg/l	1.0
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		1560000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		11700	500	mg/l	10
	<b>2905110095</b>	<b>M-84</b>				
06/08/09	Chromium, Total, ICAP		0.056		mg/l	0.010
05/08/09	Hexavalent chromium (Cr VI)		0.120		mg/l	0.0050
05/08/09	PH (H3=past HT, not compliant)		8.0		Units	0.0010
05/29/09	Perchlorate		8360		ug/l	800
05/14/09	Total Dissolved Solid (TDS)		8700	500	mg/l	10
	<b>2905110096</b>	<b>M-100</b>				
06/07/09	Chromium, Total, ICAP		0.15		mg/l	0.020
05/08/09	Hexavalent chromium (Cr VI)		0.148		mg/l	0.0050
05/08/09	PH (H3=past HT, not compliant)		7.9		Units	0.0010
06/04/09	Perchlorate		32300		ug/l	2000
05/14/09	Total Dissolved Solid (TDS)		13000	500	mg/l	10
	<b>2905110097</b>	<b>M-10</b>				

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#270567

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

Samples Received  
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2905110097</b>	<b>M-10</b>				
05/23/09	Chlorate by IC		200000		ug/l	5000
06/08/09	Chromium, Total, ICAP		0.62		mg/l	0.010
06/19/09	Nitrate + Nitrite as N by RFA		2.4	10	mg/l	0.050
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		23900		ug/l	2000
05/14/09	Total Dissolved Solid (TDS)		3210	500	mg/l	10
	<b>2905110098</b>	<b>MD-2</b>				
05/23/09	Chlorate by IC		7420000		ug/l	200000
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	Hexavalent chromium (Cr VI)		35.0		mg/l	0.0050
06/19/09	Nitrate + Nitrite as N by RFA		51.4	10	mg/l	1.0
05/08/09	PH (H3=past HT, not compliant)		7.3		Units	0.0010
06/04/09	Perchlorate		1450000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		11900	500	mg/l	10
	<b>2905110099</b>	<b>M-22A</b>				
06/08/09	Chromium, Total, ICAP		32		mg/l	0.20
05/08/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/04/09	Perchlorate		1750000		ug/l	80000
05/14/09	Total Dissolved Solid (TDS)		10800	500	mg/l	10
	<b>2905110100</b>	<b>M-89</b>				
06/08/09	Chromium, Total, ICAP		25		mg/l	0.10
05/08/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010
06/04/09	Perchlorate		968000		ug/l	40000

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Laboratory  
Hits Report  
#270567

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

Samples Received  
08-may-2009 12:00:00

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2905110100	M-89				
05/14/09	Total Dissolved Solid (TDS)		12800	500	mg/l	10

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Laboratory  
Data Report  
#270567

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

Samples Received  
05/08/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-87 (2905110089)</b>				<b>Sampled on 05/07/09 05:50</b>				
	05/29/09 00:00	486375	( EPA 314 )	Perchlorate	339000	ug/l	20000	5000
06/05/09	06/09/09 11:56	487356	( ML/EPA 6010B )	Chromium, Total, ICAP	3.0	mg/l	0.020	2
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.6	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	4190	mg/l	10	1
<b>M-70 (2905110090)</b>				<b>Sampled on 05/07/09 06:52</b>				
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	118000	ug/l	8000	2000
06/03/09	06/08/09 00:00	487112	( ML/EPA 6010B )	Chromium, Total, ICAP	0.550	mg/l	0.020	2
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.7	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	2780	mg/l	10	1
<b>M-71 (2905110091)</b>				<b>Sampled on 05/07/09 07:04</b>				
	05/29/09 00:00	486375	( EPA 314 )	Perchlorate	636000	ug/l	40000	10000
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	5.1	mg/l	0.050	5
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	6060	mg/l	10	1
<b>M-72 (2905110092)</b>				<b>Sampled on 05/07/09 07:19</b>				
	05/29/09 00:00	486375	( EPA 314 )	Perchlorate	944000	ug/l	40000	10000
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	4.6	mg/l	0.050	5
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	7780	mg/l	10	1
<b>M-38 (2905110093)</b>				<b>Sampled on 05/07/09 07:48</b>				
	06/03/09 10:17	486887	( EPA 314 )	Perchlorate	1100000	ug/l	80000	20000
06/03/09	06/08/09 00:00	487112	( ML/EPA 6010B )	Chromium, Total, ICAP	26	mg/l	0.10	10
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	10200	mg/l	10	1



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Laboratory  
Data Report  
#270567

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>M-36 (2905110094)</b>			<b>Sampled on 05/07/09 08:46</b>					
	05/23/09 00:00	485939	( ML/EPA 9056 )	Chlorate by IC	7040000	ug/l	200000	20000
	06/04/09 00:00	487085	( EPA 314 )	Perchlorate	1560000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 17:18	486007	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	35.0	mg/l	0.0050	1
	06/19/09 17:55	488730	( EPA 353.2 )	Nitrate + Nitrite as N by RFA	52.7 (H1)	mg/l	1.0	20
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	11700	mg/l	10	1
<b>M-84 (2905110095)</b>			<b>Sampled on 05/07/09 08:35</b>					
	05/29/09 00:00	486375	( EPA 314 )	Perchlorate	8360	ug/l	800	200
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	0.056	mg/l	0.010	1
	05/08/09 17:18	486007	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	0.120	mg/l	0.0050	1
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	8.0	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	8700	mg/l	10	1
<b>M-100 (2905110096)</b>			<b>Sampled on 05/07/09 08:15</b>					
	06/04/09 00:00	487085	( EPA 314 )	Perchlorate	32300	ug/l	2000	500
06/01/09	06/07/09 00:00	487102	( ML/EPA 6010B )	Chromium, Total, ICAP	0.15	mg/l	0.020	2
	05/08/09 17:18	486007	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	0.148	mg/l	0.0050	1
	05/08/09 15:15	484259	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.9	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	13000	mg/l	10	1
<b>M-10 (2905110097)</b>			<b>Sampled on 05/07/09 10:05</b>					
	05/23/09 00:00	485939	( ML/EPA 9056 )	Chlorate by IC	200000	ug/l	5000	500
	06/04/09 00:00	487085	( EPA 314 )	Perchlorate	23900	ug/l	2000	500
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	0.62	mg/l	0.010	1
	05/08/09 17:18	486007	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.0050	1
	06/19/09 17:55	488730	( EPA 353.2 )	Nitrate + Nitrite as N by RFA	2.4 (H1)	mg/l	0.050	1
	05/08/09 15:58	484260	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:10	484912	( E160.1/SM2540C )	Total Dissolved Solid (TDS)	3210	mg/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>MD-2 (2905110098)</b>				<b>Sampled on 05/07/09 00:00</b>				
	05/23/09 00:00	485939	( ML/EPA 9056 )	Chlorate by IC	7420000	ug/l	200000	20000
	06/04/09 15:41	487101	( EPA 314 )	Perchlorate	1450000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 17:18	486007	( ML/EPA 7196 )	Hexavalent chromium (Cr VI)	35.0	mg/l	0.0050	1
	06/19/09 17:55	488730	( EPA 353.2 )	Nitrate + Nitrite as N by RFA	51.4 (H1)	mg/l	1.0	20
	05/08/09 15:58	484260	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.3	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	11900	mg/l	10	1
<b>M-22A (2905110099)</b>				<b>Sampled on 05/07/09 07:32</b>				
	06/04/09 00:00	487085	( EPA 314 )	Perchlorate	1750000	ug/l	80000	20000
06/01/09	06/08/09 00:00	487106	( ML/EPA 6010B )	Chromium, Total, ICAP	32	mg/l	0.20	20
	05/08/09 15:58	484260	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	10800	mg/l	10	1
<b>M-89 (2905110100)</b>				<b>Sampled on 05/07/09 08:03</b>				
	06/04/09 00:00	487085	( EPA 314 )	Perchlorate	968000	ug/l	40000	10000
06/03/09	06/08/09 00:00	487112	( ML/EPA 6010B )	Chromium, Total, ICAP	25	mg/l	0.10	10
	05/08/09 15:58	484260	( ML/EPA 9040B )	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
05/14/09	05/14/09 10:55	484913	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	12800	mg/l	10	1



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**QC Ref #484259 - PH (H3=past HT, not compliant) Analysis Date: 05/08/2009**

2905110089	M-87	Analyzed by: sar
2905110090	M-70	Analyzed by: sar
2905110091	M-71	Analyzed by: sar
2905110092	M-72	Analyzed by: sar
2905110093	M-38	Analyzed by: sar
2905110094	M-36	Analyzed by: sar
2905110095	M-84	Analyzed by: sar
2905110096	M-100	Analyzed by: sar

**QC Ref #484260 - PH (H3=past HT, not compliant) Analysis Date: 05/08/2009**

2905110097	M-10	Analyzed by: sar
2905110098	MD-2	Analyzed by: sar
2905110099	M-22A	Analyzed by: sar
2905110100	M-89	Analyzed by: sar

**QC Ref #484912 - Total Dissolved Solid (TDS) Analysis Date: 05/14/2009**

2905110097	M-10	Analyzed by: maria
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**QC Ref #484913 - Total Dissolved Solid (TDS) Analysis Date: 05/14/2009**

2905110089	M-87	Analyzed by: maria
2905110090	M-70	Analyzed by: maria
2905110091	M-71	Analyzed by: maria
2905110092	M-72	Analyzed by: maria
2905110093	M-38	Analyzed by: maria
2905110094	M-36	Analyzed by: maria
2905110095	M-84	Analyzed by: maria
2905110096	M-100	Analyzed by: maria
2905110098	MD-2	Analyzed by: maria
2905110099	M-22A	Analyzed by: maria
2905110100	M-89	Analyzed by: maria



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QC Ref #485939 - Chlorate by IC Analysis Date: 05/23/2009

2905110094	M-36	Analyzed by: ser
2905110097	M-10	Analyzed by: ser
2905110098	MD-2	Analyzed by: ser

QC Ref #486007 - Hexavalent chromium (Cr VI) Analysis Date: 05/08/2009

2905110094	M-36	Analyzed by: kxs
2905110095	M-84	Analyzed by: kxs
2905110096	M-100	Analyzed by: kxs
2905110097	M-10	Analyzed by: kxs
2905110098	MD-2	Analyzed by: kxs

QC Ref #486375 - Perchlorate Analysis Date: 05/29/2009

2905110089	M-87	Analyzed by: ser
2905110091	M-71	Analyzed by: ser
2905110092	M-72	Analyzed by: ser
2905110095	M-84	Analyzed by: ser

QC Ref #486887 - Perchlorate Analysis Date: 06/03/2009

2905110090	M-70	Analyzed by: ser
2905110093	M-38	Analyzed by: ser

QC Ref #487085 - Perchlorate Analysis Date: 06/04/2009

2905110094	M-36	Analyzed by: ser
2905110096	M-100	Analyzed by: ser
2905110097	M-10	Analyzed by: ser
2905110099	M-22A	Analyzed by: ser
2905110100	M-89	Analyzed by: ser





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QC Ref #487101 - Perchlorate

Analysis Date: 06/04/2009

2905110098 MD-2

Analyzed by: ser

QC Ref #487102 - Chromium, Total, ICAP

Analysis Date: 06/07/2009

2905110096 M-100

Analyzed by: csk

QC Ref #487106 - Chromium, Total, ICAP

Analysis Date: 06/08/2009

2905110091 M-71  
2905110092 M-72  
2905110094 M-36  
2905110095 M-84  
2905110097 M-10  
2905110098 MD-2  
2905110099 M-22A

Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk

QC Ref #487112 - Chromium, Total, ICAP

Analysis Date: 06/08/2009

2905110090 M-70  
2905110093 M-38  
2905110100 M-89

Analyzed by: csk  
Analyzed by: csk  
Analyzed by: csk

QC Ref #487356 - Chromium, Total, ICAP

Analysis Date: 06/09/2009

2905110089 M-87

Analyzed by: csk

QC Ref #488730 - Nitrate + Nitrite as N by RFA Analysis Date: 06/19/2009

2905110094 M-36  
2905110097 M-10  
2905110098 MD-2

Analyzed by: azs  
Analyzed by: azs  
Analyzed by: azs



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**QC Ref #484259 PH (H3=past HT, not compliant)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.90	7.88	UNIT		( 0-20 )	0.3

**QC Ref #484260 PH (H3=past HT, not compliant)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.98	7.95	UNIT		( 0-20 )	0.4

**QC Ref #484912 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05080019	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	534	530	MGL		( 0-10 )	0.8
LCS1	Total Dissolved Solid (TDS)	175	170	MGL	97.1	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	640	MGL	91.4	( 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)	97.143	91.429	MGL	6.1	( 0-20 )	

**QC Ref #484913 Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110078	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	2610	2600	MGL		( 0-10 )	0.4
LCS1	Total Dissolved Solid (TDS)	175	186	MGL	106.3	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	712	MGL	101.7	( 80-114 )	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	10	MGL	100.0	( 50-150 )	
RPD_LCS	Total Dissolved Solid (TDS)	106.286	101.714	MGL	4.4	( 0-20 )	

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**QC Ref #485939 Chlorate by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05210040	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	201	UGL	100.5	( 90-110 )	
LCS2	Chlorate by IC	200	201	UGL	100.5	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	8.99	UGL	89.9	( 50-150 )	
MS	Chlorate by IC	100	102	UGL	102.0	( 75-125 )	
MSD	Chlorate by IC	100	102	UGL	102.0	( 75-125 )	
RPD_LCS	Chlorate by IC	100.500	100.500	UGL	0.0	( 0-20 )	
RPD_MS	Chlorate by IC	102.000	102.000	UGL	0.0	( 0-20 )	

**QC Ref #486007 Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05120005	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.052	MGL	104.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.055	MGL	110.0	( 85-115 )	
MBLK	Hexavalent chromium (Cr VI)	ND	<0.0050	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.005	MGL	100.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	0.05	0.056	MGL	112.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	0.05	0.055	MGL	110.0	( 70-130 )	

**QC Ref #486375 Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05200254	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.1	UGL	96.4	( 85-115 )	
LCS2	Perchlorate	25.0	25.0	UGL	100.0	( 85-115 )	
LCS3	Perchlorate	4	4.34	UGL	108.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			

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MS	Perchlorate	25.0	24.9	UGL	99.6	( 80-120 )
MSD	Perchlorate	25.0	25.1	UGL	100.4	( 80-120 )
RPD_LCS	Perchlorate	96.400	100.000	UGL	3.7	( 0-15 )
RPD_MS	Perchlorate	99.600	100.400	UGL	1.0	( 0-15 )

## QC Ref #486887 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06020022	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.5	UGL	98.0	( 85-115 )	
LCS3	Perchlorate	4	4.64	UGL	116.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.1	UGL	104.4	( 80-120 )	
MSD	Perchlorate	25.0	24.7	UGL	98.8	( 80-120 )	
RPD_LCS	Perchlorate	100.800	98.000	UGL	2.8	( 0-15 )	
RPD_MS	Perchlorate	104.400	98.800	UGL	0.9	( 0-15 )	

## QC Ref #487085 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05200013	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	( 85-115 )	
LCS2	Perchlorate	25.0	26.2	UGL	104.8	( 85-115 )	
LCS3	Perchlorate	4	4.93	UGL	123.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	26.8	UGL	107.2	( 80-120 )	
MSD	Perchlorate	25.0	28.9	UGL	115.6	( 80-120 )	
RPD_LCS	Perchlorate	100.800	104.800	UGL	3.9	( 0-15 )	
RPD_MS	Perchlorate	107.200	115.600	UGL	1.1	( 0-15 )	

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**QC Ref #487101                      Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	05130175	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.0	UGL	96.0	( 85-115 )	
LCS2	Perchlorate	25.0	23.6	UGL	94.4	( 85-115 )	
LCS3	Perchlorate	4	3.06	UGL	76.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	( 80-120 )	
MSD	Perchlorate	25.0	25.0	UGL	100.0	( 80-120 )	
RPD_LCS	Perchlorate	96.000	94.400	UGL	1.7	( 0-15 )	
RPD_MS	Perchlorate	101.600	100.000	UGL	1.0	( 0-15 )	

**QC Ref #487102                      Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05060129	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.911	MGL	91.1	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.978	MGL	97.8	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.921	MGL	92.1	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	( 70-130 )	

**QC Ref #487106                      Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05110095	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 )	

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MBLK	Chromium, Total, ICAP	ND	<0.010	MGL		
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	( 50-150 )
MS	Chromium, Total, ICAP	1.00	1.08	MGL	108.0	( 70-130 )
MS2	Chromium, Total, ICAP	1.00	1.07	MGL	107.0	( 70-130 )
MSD	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	( 70-130 )
MSD2	Chromium, Total, ICAP	1.00	0.991	MGL	99.1	( 70-130 )

### QC Ref #487112 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab #29	05120265	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 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	0.831	MGL	83.1	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.997	MGL	99.7	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.941	MGL	94.1	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.958	MGL	95.8	( 70-130 )	

### QC Ref #487356 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	05200129	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.09	MGL	109.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0102	MGL	102.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.877	MGL	87.7	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	0.925	MGL	92.5	( 70-130 )	

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QC Ref #488730

Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #	200906050259	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.930	MGL	93.0	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.935	MGL	93.5	( 90-110 )	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.050	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.0340	MGL	68.0	( 50-150 )	
MS	Nitrate + Nitrite as N by RFA	1.0	0.963	MGL	96.3	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.965	MGL	96.5	( 90-110 )	

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.