



# 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  
Jul 02 2009  
MWH LABORATORIES

ADE Andy Eaton  
Project Manager



Report#: 271791  
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 12 page[s].



**MWH**

**BUILDING A BETTER WORLD**

July 2, 2009

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

Subject: Case Narrative report 271791

Sample receipt: The samples arrived at MWH on June 10, 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:

Sample H-28A for perchlorate was diluted due to interfering peaks.

For phenolics, the blank spikes were recovered low, however the matrix spike and the reporting level check spikes were acceptable. No phenol was detected in samples.

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



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

271791

MWLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: JS/JS

(626) 386-1100 (800) 566-2424 **SCANNED**

SAMPLE TEMP, RECEIPT AT LAB: 2°

BLUE ICE:  FROZEN  PARTIALLY FROZEN  THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME KERRMCGEE-MP		PROJECT JOB # / P.O.# Quantity Sampling		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES <input type="checkbox"/> (check for yes)										
Sampler Signature: <u>Victoria Hansen / GCS</u> Susan Crowley (702) 651-2234		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		ANALYSES REQUIRED (mark an "X" in all tests required for each sample line)										
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	COMP	TOC9060	TOX	PH 9040, EC 9050	TDS	CL04	SO49056, CL9056	Phen096	NA, CR, FE, MN (all 6010)	SAMPLER COMMENTS
1310	6/9/09	TRONOX	H-28A	RGW	X	X	X	X	X	X	X	X	X	# OF BOTTLES TR 9060 = 4 TOX = 1 PH/EC = 4 TDS = 1 CL04 = 1 SO4/CL = 1 PHENOL = 1 GND = 1 14 BOTTLES TOTAL

\* 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

RELINQUISHED BY: [Signature] SIGNATURE

RECEIVED BY: [Signature] SIGNATURE

RELINQUISHED BY: [Signature] SIGNATURE

RECEIVED BY: [Signature] SIGNATURE

PRINT NAME  
Victoria Hansen  
Joe Sanchez

COMPANY/TITLE

Veolia-Water-NA-for Tronox LLC - Henderson Plant

DATE

6/9/09

DATE

6-10-09

TIME

1700

1530

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



Ship Date: 08JUN09  
ActWgt: 35.0 LB  
CAD: 7219287/NET9011  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # RCRA GW sampling-10181.23  
Invoice #  
PO #  
Dept #

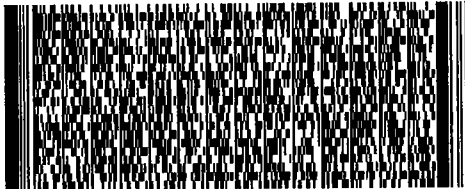
SHIP TO: (626) 386-1100 BILL THIRD PARTY

Sample Receiving  
MWH Labs  
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

TRK# 7976 6209 8554  
0201

TUE - 09JUN A2  
PRIORITY OVERNIGHT



QZ WHPA

91016  
CA-US  
BUR



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**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#: 271791  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **06/10/09**. 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
2906100166	H-28A	CL9056 CLO4 NA6010 PH9040 TOX	Water CR6010 EC9050 PHENOL SO49056	09-jun-2009 13:10:00 FE6010 MN6010 TDS TOC9060
2906100167	H-28A	EC9050 PH9040 TOX	Water TOC9060 TOX	09-jun-2009 13:10:00
2906100168	H-28A	EC9050 PH9040 TOX	Water TOC9060 TOX	09-jun-2009 13:10:00
2906100169	H-28A	EC9050 PH9040 TOX	Water TOC9060 TOX	09-jun-2009 13:10:00

Test Acronym Description

Test Acronym	Description
CL9056	Chloride
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
EC9050	Specific Conductance
FE6010	Iron, Total, ICAP
MN6010	Manganese, Total, ICAP
NA6010	Sodium, Total, ICAP
PH9040	PH (H3=past HT, not compliant)
PHENOL	Phenolic Compounds
SO49056	Sulfate
TDS	Total Dissolved Solid (TDS)
TOC9060	Total Organic Carbon
TOX	Total Organic Halogen



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Report  
Comments  
#271791

## 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#: 2906100166)

### Test: Perchlorate (EPA 314)

DUE TO INTERFERING PEAK CLOSE TO CLO4 RETENTION TIME, SAMPLE WAS DILUTED AND REPORTED AT LOWEST DILUTION TO YIELD A SPIKE RECOVERY.

### Test: Phenolic Compounds (MWH 420/SW9066)

L4 - The associated blank spike recovery was below method acceptance limits.



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Laboratory  
 Hits Report  
 #271791

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

Samples Received  
 10-jun-2009 17:33:34

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906100166	H-28A				
06/19/09		Chloride	3800		mg/l	100
06/30/09		Iron, Total, ICAP	0.72		mg/l	0.040
06/30/09		Manganese, Total, ICAP	2.2		mg/l	0.0040
06/10/09		PH (H3=past HT, not compliant)	7.3		Units	0.0010
06/30/09		Sodium, Total, ICAP	1300		mg/l	20
06/12/09		Specific Conductance	12400		umho/cm	2.0
06/19/09		Sulfate	1100		mg/l	50
06/16/09		Total Dissolved Solid (TDS)	9050	500	mg/l	10
06/17/09		Total Organic Carbon	12		mg/l	3.0
06/23/09		Total Organic Halogen	6060		ug/l	1000
	2906100167	H-28A				
06/10/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
06/12/09		Specific Conductance	12400		umho/cm	2.0
06/17/09		Total Organic Carbon	12		mg/l	3.0
06/23/09		Total Organic Halogen	5780		ug/l	2500
	2906100168	H-28A				
06/10/09		PH (H3=past HT, not compliant)	7.4		Units	0.0010
06/12/09		Specific Conductance	12500		umho/cm	2.0
06/17/09		Total Organic Carbon	12		mg/l	3.0
06/23/09		Total Organic Halogen	6260		ug/l	2500
	2906100169	H-28A				
06/10/09		PH (H3=past HT, not compliant)	7.5		Units	0.0010
06/12/09		Specific Conductance	12400		umho/cm	2.0
06/17/09		Total Organic Carbon	12		mg/l	3.0

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Hits Report  
#271791

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

Samples Received  
10-jun-2009 17:33:34

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
06/23/09	2906100169	H-28A	Total Organic Halogen	6180	ug/l	2500





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Laboratory  
Data Report  
#271791

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

Samples Received  
06/10/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>H-28A (2906100166)                      Sampled on 06/09/09 13:10</b>								
	06/19/09 12:47	488378	( ML/EPA 9056 )	Chloride	3800	mg/l	100	100
	06/28/09 00:00	489147	( EPA 314 )	Perchlorate	ND	ug/l	400	100
06/29/09	06/30/09 00:00	489156	( ML/EPA 6010B )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	06/12/09 18:48	487832	( ML/EPA 9050A )	Specific Conductance	12400	umho/cm	2.0	1
06/29/09	06/30/09 00:00	489173	( ML/EPA 6010B )	Iron, Total, ICAP	0.72	mg/l	0.040	2
06/29/09	06/30/09 00:00	489158	( ML/EPA 6010B )	Manganese, Total, ICAP	2.2	mg/l	0.0040	2
06/29/09	06/30/09 00:00	489180	( ML/EPA 6010B )	Sodium, Total, ICAP	1300	mg/l	20	20
	06/10/09 16:31	487643	( ML/EPA 9040B )	PH (H3-past HT, not compliant)	7.3	Units	0.0010	1
06/22/09	06/23/09 16:30	489035	( MWH 420/SW9066)	Phenolic Compounds	ND(L4)	mg/l	0.010	1
	06/19/09 12:47	488379	( ML/EPA 9056 )	Sulfate	1100	mg/l	50	100
06/16/09	06/16/09 20:24	488691	( E160.1/SM2540C)	Total Dissolved Solid (TDS)	9050	mg/l	10	1
	06/17/09 08:10	488249	( ML/EPA 9060 )	Total Organic Carbon	12	mg/l	3.0	10
	06/23/09 07:10	488767	( SW9020/SM5320 )	Total Organic Halogen	6060	ug/l	1000	100
<b>H-28A (2906100167)                      Sampled on 06/09/09 13:10</b>								
	06/12/09 18:48	487832	( ML/EPA 9050A )	Specific Conductance	12400	umho/cm	2.0	1
	06/10/09 16:31	487643	( ML/EPA 9040B )	PH (H3-past HT, not compliant)	7.4	Units	0.0010	1
	06/17/09 08:10	488249	( ML/EPA 9060 )	Total Organic Carbon	12	mg/l	3.0	10
	06/23/09 07:10	488767	( SW9020/SM5320 )	Total Organic Halogen	5780	ug/l	2500	250
<b>H-28A (2906100168)                      Sampled on 06/09/09 13:10</b>								
	06/12/09 18:48	487832	( ML/EPA 9050A )	Specific Conductance	12500	umho/cm	2.0	1
	06/10/09 16:31	487643	( ML/EPA 9040B )	PH (H3-past HT, not compliant)	7.4	Units	0.0010	1
	06/17/09 08:10	488249	( ML/EPA 9060 )	Total Organic Carbon	12	mg/l	3.0	10
	06/23/09 07:10	488767	( SW9020/SM5320 )	Total Organic Halogen	6260	ug/l	2500	250



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Laboratory  
Data Report  
#271791

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>H-28A (2906100169)</b>				<b>Sampled on 06/09/09 13:10</b>				
	06/12/09 18:48	487832	( ML/EPA 9050A )	Specific Conductance	12400	umho/cm	2.0	1
	06/10/09 16:31	487643	( ML/EPA 9040B )	PH (H3-past HT, not compliant)	7.5	Units	0.0010	1
	06/17/09 08:10	488249	( ML/EPA 9060 )	Total Organic Carbon	12	mg/l	3.0	10
	06/23/09 07:10	488767	( SW9020/SM5320 )	Total Organic Halogen	6180	ug/l	2500	250



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Laboratory  
 QC Summary  
 #271791

Tronox LLC - Henderson

QC Ref #487643 - PH (H3=past HT, not compliant) Analysis Date: 06/10/2009

2906100166	H-28A	Analyzed by: nem
2906100167	H-28A	Analyzed by: nem
2906100168	H-28A	Analyzed by: nem
2906100169	H-28A	Analyzed by: nem

QC Ref #487832 - Specific Conductance

Analysis Date: 06/12/2009

2906100166	H-28A	Analyzed by: nem
2906100167	H-28A	Analyzed by: nem
2906100168	H-28A	Analyzed by: nem
2906100169	H-28A	Analyzed by: nem

QC Ref #488249 - Total Organic Carbon

Analysis Date: 06/17/2009

2906100166	H-28A	Analyzed by: kxs
2906100167	H-28A	Analyzed by: kxs
2906100168	H-28A	Analyzed by: kxs
2906100169	H-28A	Analyzed by: kxs

QC Ref #488378 - Chloride

Analysis Date: 06/19/2009

2906100166	H-28A	Analyzed by: sxk
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QC Ref #488379 - Sulfate

Analysis Date: 06/19/2009

2906100166	H-28A	Analyzed by: sxk
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QC Ref #488691 - Total Dissolved Solid (TDS)

Analysis Date: 06/16/2009

2906100166	H-28A	Analyzed by: jrf
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QC Ref #488767 - Total Organic Halogen

Analysis Date: 06/23/2009

2906100166	H-28A	Analyzed by: kxs
2906100167	H-28A	Analyzed by: kxs
2906100168	H-28A	Analyzed by: kxs
2906100169	H-28A	Analyzed by: kxs



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Laboratory  
QC Summary  
#271791

Tronox LLC - Henderson  
(continued)

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QC Ref #489035 - Phenolic Compounds

2906100166 H-28A

Analysis Date: 06/23/2009

Analyzed by: azs

QC Ref #489147 - Perchlorate

2906100166 H-28A

Analysis Date: 06/28/2009

Analyzed by: ser

QC Ref #489156 - Chromium, Total, ICAP

2906100166 H-28A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489158 - Manganese, Total, ICAP

2906100166 H-28A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489173 - Iron, Total, ICAP

2906100166 H-28A

Analysis Date: 06/30/2009

Analyzed by: csk

QC Ref #489180 - Sodium, Total, ICAP

2906100166 H-28A

Analysis Date: 06/30/2009

Analyzed by: csk



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 #271791

Tronox LLC - Henderson

## QC Ref #487643 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	8.26	8.25	UNIT		( 0-20 )	0.1

## QC Ref #487832 Specific Conductance

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	106	105	UMHO		( 0-20 )	0.9
MRL_CHK	Specific Conductance	2.000	1.96	UMHO	98.0	( 50-150 )	

## QC Ref #488249 Total Organic Carbon

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200906090530		MGL		( 0-0 )	
LCS1	Total Organic Carbon	5.0	4.98	MGL	99.6	( 50-150 )	
LCS2	Total Organic Carbon	5.0	5.04	MGL	100.8	( 90-110 )	
MBLK	Total Organic Carbon	ND	<0.30	MGL			
MRL_CHK	Total Organic Carbon	0.200	0.231	MGL	115.5	( 50-150 )	
MS	Total Organic Carbon	4.0	3.73	MGL	93.2	( 80-120 )	
MSD	Total Organic Carbon	4.0	3.98	MGL	99.5	( 80-120 )	
RPD_LCS	Total Organic Carbon	99.600	100.800	MGL	1.2	( 0-20 )	
RPD_MS	Total Organic Carbon	93.250	99.500	MGL	6.5	( 0-20 )	

## QC Ref #488378 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06180070	MGL		( 0-0 )	
LCS1	Chloride	25	24.4	MGL	97.6	( 90-110 )	
LCS2	Chloride	25	24.4	MGL	97.6	( 90-110 )	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.393	MGL	78.6	( 50-150 )	
MS	Chloride	12.5	12.9	MGL	103.2	( 74-138 )	

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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## Tronox LLC - Henderson (continued)

MSD	Chloride	12.5	12.8	MGL	102.4	( 74-138 )
RPD_LCS	Chloride	97.600	97.600	MGL	0.0	( 0-20 )
RPD_MS	Chloride	103.200	102.400	MGL	0.8	( 0-20 )

### QC Ref #488379 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06180070	MGL		( 0-0 )	
LCS1	Sulfate	50	48.6	MGL	97.2	( 90-110 )	
LCS2	Sulfate	50	48.5	MGL	97.0	( 90-110 )	
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.250	0.252	MGL	100.8	( 50-150 )	
MS	Sulfate	25	25.9	MGL	103.6	( 84-130 )	
MSD	Sulfate	25	25.9	MGL	103.6	( 84-130 )	
RPD_LCS	Sulfate	97.200	97.000	MGL	0.2	( 0-20 )	
RPD_MS	Sulfate	103.600	103.600	MGL	0.0	( 0-20 )	

### QC Ref #488691 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06100166	MGL		( 0-0 )	
DUP	Total Dissolved Solid (TDS)	9050	9250	MGL		( 0-10 )	2.2
LCS1	Total Dissolved Solid (TDS)	175	182	MGL	104.0	( 80-114 )	
LCS2	Total Dissolved Solid (TDS)	700	710	MGL	101.4	( 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)	104.000	101.429	MGL	2.5	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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#271791

Tronox LLC - Henderson  
(continued)

QC Ref #488767      Total Organic Halogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06100166	UGL		( 0-0 )	
LCS1	Total Organic Halogen	10	11.0	UGL	110.0	( 85-115 )	
LCS2	Total Organic Halogen	200	207	UGL	103.5	( 85-115 )	
MBLK	Total Organic Halogen	ND	<10	UGL			
MS	Total Organic Halogen	100	96.8	UGL	96.8	( 90-110 )	
MSD	Total Organic Halogen	100	93.2	UGL	93.2	( 90-110 )	

QC Ref #489035      Phenolic Compounds

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06050137	MGL		( 0-0 )	
LCS1	Phenolic Compounds	0.08	0.046	MGL	<u>57.5</u>	( 90-110 )	
LCS2	Phenolic Compounds	0.08	0.070	MGL	<u>87.5</u>	( 90-110 )	
MBLK	Phenolic Compounds	ND	<0.010	MGL			
MRL_CHK	Phenolic Compounds	0.010	0.0074	MGL	74.0	( 50-150 )	
MS	Phenolic Compounds	0.08	0.079	MGL	98.8	( 90-110 )	
MSD	Phenolic Compounds	0.08	0.078	MGL	97.5	( 90-110 )	

QC Ref #489147      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06230181	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	23.3	UGL	93.2	( 85-115 )	
LCS2	Perchlorate	25.0	23.4	UGL	93.6	( 85-115 )	
LCS3	Perchlorate	4	3.37	UGL	84.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.0	UGL	88.0	( 80-120 )	
MSD	Perchlorate	25.0	22.5	UGL	90.0	( 80-120 )	
RPD_LCS	Perchlorate	93.200	93.600	UGL	0.4	( 0-15 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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RPD\_MS      Perchlorate      88.000    90.000    UGL    1.0    ( 0-15 )

**QC Ref #489156      Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0104	MGL	104.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.996	MGL	99.6	( 70-130 )	
MS2	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.970	MGL	97.0	( 70-130 )	
MSD2	Chromium, Total, ICAP	1.00	1.004	MGL	100.4	( 70-130 )	

**QC Ref #489158      Manganese, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		( 0-0 )	
LCS1	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	( 85-115 )	
LCS2	Manganese, Total, ICAP	0.50	0.532	MGL	106.4	( 85-115 )	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0022	MGL	110.0	( 50-150 )	
MS	Manganese, Total, ICAP	0.50	0.507	MGL	101.4	( 70-130 )	
MSD	Manganese, Total, ICAP	0.50	0.495	MGL	99.0	( 70-130 )	

**QC Ref #489173      Iron, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		( 0-0 )	
LCS1	Iron, Total, ICAP	5.0	5.09	MGL	101.8	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	5.14	MGL	102.8	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			

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MRL_CHK	Analyte	0.020	0.0205	MGL	102.5	( 50-150 )
MS	Iron, Total, ICAP	5.0	4.98	MGL	99.6	( 70-130 )
MSD	Iron, Total, ICAP	5.0	4.86	MGL	97.2	( 70-130 )

QC Ref #489180

Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200905290036		MGL		( 0-0 )	
LCS1	Sodium, Total, ICAP	50	49.6	MGL	99.2	( 85-115 )	
LCS2	Sodium, Total, ICAP	50	52.0	MGL	104.0	( 85-115 )	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	0.992	MGL	99.2	( 50-150 )	
MS	Sodium, Total, ICAP	50	50.5	MGL	101.0	( 70-130 )	
MSD	Sodium, Total, ICAP	50	46.4	MGL	92.8	( 70-130 )	
RPD_LCS	Sodium, Total, ICAP	99.200	104.000	MGL	4.7	( 0-20 )	
RPD_MS	Sodium, Total, ICAP	101.000	92.800	MGL	8.5	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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are advisory only, unless otherwise specified in the method.