



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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

DATE OF ISSUE
Jun 25 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 270845
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

June 25, 2009

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

Subject: Case Narrative report 270845

Sample receipt: The samples arrived at MWH on May 15, 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:

One LCS for perchlorate was misinjected so there is only data available for one LCS.

One sample – PC-21A was accidentally overlooked and TDS was measured past hold time. Several other samples were initially analyzed within hold time but rechecked past hold time because results were not consistent with historical data. The rerun results are entered.

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

From: Origin ID: LASA (702) 651-2234
Susan Crowley
Tronox
8000 West Lake Mead Parkway
Henderson, NV 89015



Ship Date: 14MAY09
ActWgt: 50.0 LB
CAD: 7219287/INET9011
Account#: S *****

Delivery Address Bar Code

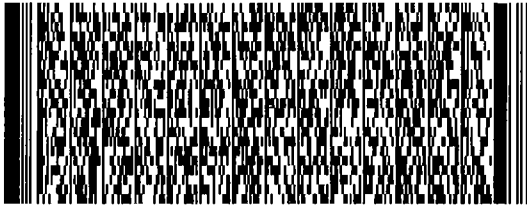


Ref # annual water sampling-10181.23
Invoice #
PO #
Dept #

SHIP TO: (626) 386-1100 BILL SENDER
Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100
MONROVIA, CA 91016

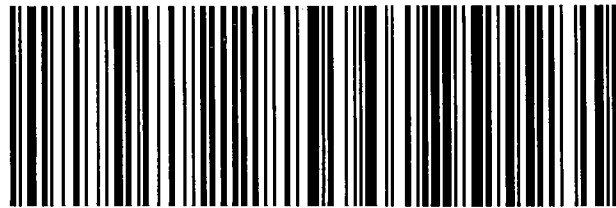
FRI - 15MAY A2
PRIORITY OVERNIGHT

TRK# 7975 9674 5382
0201



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#: 270845
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 05/15/09. 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 |
|------------|-----------|-----------------|--------|----------------------|
| 2905160004 | H-58A | CLO4 CR6010 | Water | 14-may-2009 08:27:00 |
| 2905160005 | H-48 | CLO4 CR6010 | Water | 14-may-2009 09:40:00 |
| 2905160006 | MC-65 | CLO4 CR6010 | Water | 14-may-2009 10:40:00 |
| 2905160007 | PC-21 | CLO39056 CLO4 | Water | 14-may-2009 12:10:00 |
| 2905160008 | MC-6 | CLO4 | Water | 14-may-2009 13:07:00 |
| 2905160009 | MC-7 | CLO4 | Water | 14-may-2009 13:56:00 |
| 2905160010 | MC-69 | CLO4 | Water | 14-may-2009 14:40:00 |

Test Acronym Description

| Test Acronym | Description |
|--------------|---------------------------|
| CLO39056 | Chlorate by IC |
| CLO4 | Perchlorate |
| CR6010 | Chromium, Total, ICAP |
| NO39056 | Nitrate as Nitrogen by IC |
| P | Metals sample pH |
| T | Metals Turbidity |



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Report
Comments
#270845

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#: 2905160007)

Test: Perchlorate (EPA 314)

(CLO4) LCS misinjected. Method requires only 1 LCS. Precision can be assessed from the MS/MSD recoveries and other QCs.

Test: Total Dissolved Solid (TDS) (E160.1/SM2540C)

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



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Laboratory
Hits Report
#270845

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

Samples Received
15-may-2009 12:35:00

| Analyzed | Sample# | Sample ID | Result | Federal MCL | UNITS | MRL |
|----------|-------------------|-----------------------------|--------|----------------|--------|-------|
| | 2905160004 | H-58A | | | | |
| 06/08/09 | | Metals digestion performed. | Y | | Yes/No | |
| 06/04/09 | | Perchlorate | 3500 | | ug/l | 800 |
| 06/06/09 | | Total Dissolved Solid (TDS) | 11800 | 500 | mg/l | 10 |
| | 2905160005 | H-48 | | | | |
| 06/08/09 | | Metals digestion performed. | Y | | Yes/No | |
| 06/05/09 | | Perchlorate | 643 | | ug/l | 40 |
| 06/06/09 | | Total Dissolved Solid (TDS) | 22900 | 500 | mg/l | 10 |
| | 2905160006 | MC-65 | | | | |
| 06/08/09 | | Chromium, Total, ICAP | 0.14 | | mg/l | 0.020 |
| 06/04/09 | | Perchlorate | 84400 | | ug/l | 4000 |
| 06/06/09 | | Total Dissolved Solid (TDS) | 10800 | 500 | mg/l | 10 |
| | 2905160007 | PC-21A | | | | |
| 05/23/09 | | Chlorate by IC | 561000 | | ug/l | 10000 |
| 06/17/09 | | Chromium, Total, ICAP | 0.27 | | mg/l | 0.050 |
| 06/08/09 | | Metals digestion performed. | Y | | Yes/No | |
| 05/15/09 | | Nitrate as Nitrogen by IC | 33.5 | | mg/l | 2.5 |
| 05/28/09 | | Perchlorate | 3710 | | ug/l | 200 |
| 06/09/09 | | Total Dissolved Solid (TDS) | 14600 | 500 | mg/l | 10 |
| | 2905160008 | MC-6 | | | | |
| 06/04/09 | | Perchlorate | 9260 | | ug/l | 400 |
| 06/06/09 | | Total Dissolved Solid (TDS) | 13200 | 500 | mg/l | 10 |

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#270845

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

Samples Received
15-may-2009 12:35:00

| Analyzed | Sample# | Sample ID | Result | Federal MCL | UNITS | MRL |
|----------|-----------------------------|-----------|--------|----------------|-------|-----|
| | 2905160009 | MC-7 | | | | |
| | 2905160009 | MC-7 | | | | |
| 06/08/09 | Perchlorate | | 13100 | | ug/l | 800 |
| 06/06/09 | Total Dissolved Solid (TDS) | | 5200 | 500 | mg/l | 10 |
| | 2905160010 | MC-69 | | | | |
| 06/04/09 | Perchlorate | | 9030 | | ug/l | 400 |
| 06/06/09 | Total Dissolved Solid (TDS) | | 11700 | 500 | mg/l | 10 |



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Laboratory
Data Report
#270845

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

Samples Received
05/15/09

| Prepared | Analyzed | QC Ref# | Method | Analyte | Result | Units | MRL | Dilution |
|---|----------------|---------|--------------------|-----------------------------|------------|--------|-------|----------|
| H-58A (2905160004) Sampled on 05/14/09 08:27 | | | | | | | | |
| | 06/04/09 15:41 | 487101 | (EPA 314) | Perchlorate | 3500 | ug/l | 800 | 200 |
| 06/01/09 | 06/07/09 00:00 | 487102 | (ML/EPA 6010B) | Chromium, Total, ICAP | ND | mg/l | 0.010 | 1 |
| | 06/08/09 13:47 | | (EPA 200 Prep) | Metals digestion performed. | Y | Yes/No | 0 | 1 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 11800 | mg/l | 10 | 1 |
| H-48 (2905160005) Sampled on 05/14/09 09:40 | | | | | | | | |
| | 06/05/09 00:00 | 487099 | (EPA 314) | Perchlorate | 643 | ug/l | 40 | 10 |
| 05/25/09 | 05/25/09 00:00 | 486391 | (ML/EPA 6010B) | Chromium, Total, ICAP | ND | mg/l | 0.50 | 50 |
| | 06/08/09 13:47 | | (EPA 200 Prep) | Metals digestion performed. | Y | Yes/No | 0 | 1 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 22900 | mg/l | 10 | 1 |
| MC-65 (2905160006) Sampled on 05/14/09 10:40 | | | | | | | | |
| | 06/04/09 15:41 | 487101 | (EPA 314) | Perchlorate | 84400 | ug/l | 4000 | 1000 |
| 06/01/09 | 06/08/09 00:00 | 487106 | (ML/EPA 6010B) | Chromium, Total, ICAP | 0.14 | mg/l | 0.020 | 2 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 10800 | mg/l | 10 | 1 |
| PC-21A (2905160007) Sampled on 05/14/09 12:10 | | | | | | | | |
| | 05/23/09 00:00 | 485939 | (ML/EPA 9056) | Chlorate by IC | 561000 | ug/l | 10000 | 1000 |
| | 05/28/09 00:00 | 486172 | (EPA 314) | Perchlorate | 3710 | ug/l | 200 | 50 |
| 05/25/09 | 06/17/09 00:00 | 488229 | (ML/EPA 6010B) | Chromium, Total, ICAP | 0.27 | mg/l | 0.050 | 5 |
| | 06/08/09 13:47 | | (EPA 200 Prep) | Metals digestion performed. | Y | Yes/No | 0 | 1 |
| | 05/15/09 17:47 | 485104 | (ML/EPA 9056) | Nitrate as Nitrogen by IC | 33.5 | mg/l | 2.5 | 25 |
| 06/06/09 | 06/09/09 08:45 | 487729 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 14600 (H1) | mg/l | 10 | 1 |
| MC-6 (2905160008) Sampled on 05/14/09 13:07 | | | | | | | | |
| | 06/04/09 15:41 | 487101 | (EPA 314) | Perchlorate | 9260 | ug/l | 400 | 100 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 13200 | mg/l | 10 | 1 |



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Laboratory
Data Report
#270845

Tronox LLC - Henderson
(continued)

| Prepared | Analyzed | QC Ref# | Method | Analyte | Result | Units | MRL | Dilution |
|---------------------------|----------------|---------|-------------------|----------------------------------|--------|-------|-----|----------|
| MC-7 (2905160009) | | | | Sampled on 05/14/09 13:56 | | | | |
| | 06/08/09 19:25 | 487685 | (EPA 314) | Perchlorate | 13100 | ug/l | 800 | 200 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 5200 | mg/l | 10 | 1 |
| MC-69 (2905160010) | | | | Sampled on 05/14/09 14:40 | | | | |
| | 06/04/09 15:41 | 487101 | (EPA 314) | Perchlorate | 9030 | ug/l | 400 | 100 |
| 06/06/09 | 06/06/09 01:45 | 487064 | (E160.1/SM2540C) | Total Dissolved Solid (TDS) | 11700 | mg/l | 10 | 1 |



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Laboratory
QC Summary
#270845

Tronox LLC - Henderson

| | |
|--|---------------------------|
| QC Ref #485104 - Nitrate as Nitrogen by IC | Analysis Date: 05/15/2009 |
| 2905160007 PC-21A | |
| QC Ref #485939 - Chlorate by IC | Analysis Date: 05/23/2009 |
| 2905160007 PC-21A | |
| QC Ref #486172 - Perchlorate | Analysis Date: 05/28/2009 |
| 2905160007 PC-21A | |
| QC Ref #486391 - Chromium, Total, ICAP | Analysis Date: 05/25/2009 |
| 2905160005 H-48 | |
| QC Ref #487064 - Total Dissolved Solid (TDS) | Analysis Date: 06/06/2009 |
| 2905160004 H-58A | |
| 2905160005 H-48 | |
| 2905160006 MC-65 | |
| 2905160008 MC-6 | |
| 2905160009 MC-7 | |
| 2905160010 MC-69 | |
| QC Ref #487099 - Perchlorate | Analysis Date: 06/05/2009 |
| 2905160005 H-48 | |
| QC Ref #487101 - Perchlorate | Analysis Date: 06/04/2009 |
| 2905160004 H-58A | |
| 2905160006 MC-65 | |
| 2905160008 MC-6 | |
| 2905160010 MC-69 | |



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Laboratory
QC Summary
#270845

Tronox LLC - Henderson
(continued)

| | |
|--|---------------------------|
| QC Ref #487102 - Chromium, Total, ICAP | Analysis Date: 06/07/2009 |
| 2905160004 H-58A | |
| QC Ref #487106 - Chromium, Total, ICAP | Analysis Date: 06/08/2009 |
| 2905160006 MC-65 | |
| QC Ref #487685 - Perchlorate | Analysis Date: 06/08/2009 |
| 2905160009 MC-7 | |
| QC Ref #487729 - Total Dissolved Solid (TDS) | Analysis Date: 06/09/2009 |
| 2905160007 PC-21A | |
| QC Ref #488229 - Chromium, Total, ICAP | Analysis Date: 06/17/2009 |
| 2905160007 PC-21A | |



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Laboratory
QC Report
#270845

Tronox LLC - Henderson

QC Ref #485104 Nitrate as Nitrogen by IC

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|----------|---------------------------|----------|-----------|-------|-----------|------------|---------|
| AASPKSMP | Spiked sample | Lab # 29 | 05150053 | MGL | | (0-0) | |
| LCS1 | Nitrate as Nitrogen by IC | 2.5 | 2.5 | MGL | 100.0 | (90-110) | |
| LCS2 | Nitrate as Nitrogen by IC | 2.5 | 2.4 | MGL | 96.0 | (90-110) | |
| MBLK | Nitrate as Nitrogen by IC | ND | <0.10 | MGL | | | |
| MRL_CHK | Nitrate as Nitrogen by IC | 0.050 | 0.046 | MGL | 92.0 | (50-150) | |
| MS | Nitrate as Nitrogen by IC | 1.25 | 1.32 | MGL | 105.6 | (87-121) | |
| MSD | Nitrate as Nitrogen by IC | 1.25 | 1.34 | MGL | 107.2 | (87-121) | |
| RPD_LCS | Nitrate as Nitrogen by IC | 100.000 | 96.000 | MGL | 4.1 | (0-20) | |
| RPD_MS | Nitrate as Nitrogen by IC | 105.600 | 107.200 | MGL | 1.5 | (0-20) | |

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 #486172 Perchlorate

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|------|---------------|----------|-----------|-------|-----------|------------|---------|
| MS | Spiked sample | Lab # 29 | 05210015 | UGL | | (0-0) | |
| LCS2 | Perchlorate | 25.0 | 23.8 | UGL | 95.2 | (85-115) | |
| LCS3 | Perchlorate | 4 | 3.39 | UGL | 84.8 | (75-125) | |
| MBLK | Perchlorate | ND | <4.0 | UGL | | | |
| MS | Perchlorate | 25.0 | 25.1 | UGL | 100.4 | (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
#270845

Tronox LLC - Henderson
(continued)

| | | | | | | |
|---------|-------------|---------|---------|-----|-------|------------|
| MSD | Perchlorate | 25.0 | 28.4 | UGL | 113.6 | (80-120) |
| RPD_LCS | Perchlorate | | 95.200 | UGL | | (0-15) |
| RPD_MS | Perchlorate | 100.400 | 113.600 | UGL | 1.1 | (0-15) |

QC Ref #486391 Chromium, Total, ICAP

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|----------|-----------------------|----------|-----------|-------|-----------|------------|---------|
| AASPKSMP | Spiked sample | Lab # 29 | 05060040 | MGL | | (0-0) | |
| LCS1 | Chromium, Total, ICAP | 1.00 | 1.02 | MGL | 102.0 | (85-115) | |
| LCS2 | Chromium, Total, ICAP | 1.00 | 1.05 | MGL | 105.0 | (85-115) | |
| 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 | 1.01 | MGL | 101.0 | (70-130) | |
| MS2 | Chromium, Total, ICAP | 1.00 | 1.01 | MGL | 101.0 | (70-130) | |
| MSD | Chromium, Total, ICAP | 1.00 | 0.848 | MGL | 84.8 | (70-130) | |
| MSD2 | Chromium, Total, ICAP | 1.00 | 1.03 | MGL | 103.0 | (70-130) | |

QC Ref #487064 Total Dissolved Solid (TDS)

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|----------|-----------------------------|----------|-----------|-------|-----------|------------|---------|
| AASPKSMP | Spiked sample | Lab # 29 | 05160004 | MGL | | (0-0) | |
| DUP | Total Dissolved Solid (TDS) | 11500 | 11800 | MGL | | (0-10) | 2.6 |
| LCS1 | Total Dissolved Solid (TDS) | 175 | 164 | MGL | 93.7 | (80-114) | |
| LCS2 | Total Dissolved Solid (TDS) | 700 | 678 | MGL | 96.9 | (80-114) | |
| MBLK | Total Dissolved Solid (TDS) | ND | <10 | MGL | | | |
| MRL_CHK | Total Dissolved Solid (TDS) | 10.0 | 8 | MGL | 80.0 | (50-150) | |
| RPD_LCS | Total Dissolved Solid (TDS) | 93.714 | 96.857 | MGL | 3.3 | (0-20) | |

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.

Tronox LLC - Henderson
(continued)

QC Ref #487099 Perchlorate

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|---------|---------------|----------|-----------|-------|-----------|------------|---------|
| MS | Spiked sample | Lab # 29 | 05120283 | UGL | | (0-0) | |
| LCS1 | Perchlorate | 25.0 | 25.0 | UGL | 100.0 | (85-115) | |
| LCS2 | Perchlorate | 25.0 | 25.1 | UGL | 100.4 | (85-115) | |
| LCS3 | Perchlorate | 4 | 3.46 | UGL | 86.5 | (75-125) | |
| MBLK | Perchlorate | ND | <4.0 | UGL | | | |
| MS | Perchlorate | 25.0 | 24.6 | UGL | 98.4 | (80-120) | |
| MSD | Perchlorate | 25.0 | 25.2 | UGL | 100.8 | (80-120) | |
| RPD_LCS | Perchlorate | 100.000 | 100.400 | UGL | 0.4 | (0-15) | |
| RPD_MS | Perchlorate | 98.400 | 100.800 | UGL | 1.0 | (0-15) | |

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) | |

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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(continued)

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|---------|-----------------------|--------|-----------|-------|-----------|------------|---------|
| 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) | |
| 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 #487685 Perchlorate

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|---------|---------------|----------|-----------|-------|-----------|------------|---------|
| MS | Spiked sample | Lab # 29 | 0603044 | UGL | | (0-0) | |
| LCS1 | Perchlorate | 25.0 | 23.5 | UGL | 94.0 | (85-115) | |
| LCS2 | Perchlorate | 25.0 | 23.2 | UGL | 92.8 | (85-115) | |
| LCS3 | Perchlorate | 4 | 3.02 | UGL | 75.5 | (75-125) | |
| MBLK | Perchlorate | ND | <4.0 | UGL | | | |
| MS | Perchlorate | 25.0 | 24.4 | UGL | 97.6 | (80-120) | |
| MSD | Perchlorate | 25.0 | 24.0 | UGL | 96.0 | (80-120) | |
| RPD_LCS | Perchlorate | 94.000 | 92.800 | UGL | 1.3 | (0-15) | |
| RPD_MS | Perchlorate | 97.600 | 96.000 | UGL | 1.0 | (0-15) | |

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are advisory only, unless otherwise specified in the method.

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 (continued)

QC Ref #487729 Total Dissolved Solid (TDS)

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|----------|-----------------------------|----------|-----------|-------|-----------|------------|---------|
| AASPKSMP | Spiked sample | Lab # 29 | 06080019 | MGL | | (0-0) | |
| DUP | Total Dissolved Solid (TDS) | 364 | 348 | MGL | | (0-10) | 4.5 |
| LCS1 | Total Dissolved Solid (TDS) | 175 | 160 | MGL | 91.4 | (80-114) | |
| LCS2 | Total Dissolved Solid (TDS) | 700 | 666 | MGL | 95.1 | (80-114) | |
| MBLK | Total Dissolved Solid (TDS) | ND | <10 | MGL | | | |
| MRL_CHK | Total Dissolved Solid (TDS) | 10.0 | 8.0 | MGL | 80.0 | (50-150) | |
| RPD_LCS | Total Dissolved Solid (TDS) | 91.429 | 95.143 | MGL | 4.0 | (0-20) | |

QC Ref #488229 Chromium, Total, ICAP

| QC | Analyte | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPD (%) |
|----------|-----------------------|----------|-----------|-------|-----------|------------|---------|
| AASPKSMP | Spiked sample | Lab # 29 | 06020044 | MGL | | (0-0) | |
| LCS1 | Chromium, Total, ICAP | 1.00 | 1.01 | MGL | 101.0 | (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 | 0.0103 | MGL | 103.0 | (50-150) | |
| MS | Chromium, Total, ICAP | 1.00 | 1.00 | MGL | 100.0 | (70-130) | |
| MS2 | Chromium, Total, ICAP | 1.00 | 1.05 | MGL | 105.0 | (70-130) | |
| MSD | Chromium, Total, ICAP | 1.00 | 1.02 | MGL | 102.0 | (70-130) | |
| MSD2 | Chromium, Total, ICAP | 1.00 | 0.99 | MGL | 99.0 | (70-130) | |

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.