



MWH

LABORATORIES

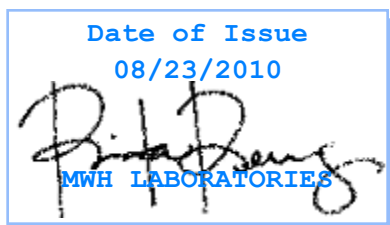
A Division of MWH Americas, Inc.

750 Royal Oak Dr., 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

City of Tracy
3900 Holly Drive
Tracy, CA 95376
Attention: Erich Delmas
Fax: 209-831-4484



RSR: Rita Reeves
Project Manager



Report#: 339968
Project: WASTEWATER
Group: GMMST22 + B

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 Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

Acknowledgement of Samples Received

City of Tracy

3900 Holly Drive
Tracy, CA 95376
Attn: Erich Delmas
Phone: 209-831-4488

Customer Code: TRACY

Group #: 339968

Project #: WASTEWATER

Sample Group: GMMST22 + B

Project Manager: Rita Reeves

Phone: 916-418-8358

The following samples were received from you on **August 04, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date																								
201008040342	R-001	03-Aug-2010 0909																								
<table> <tr> <td>@ANIONS28</td><td>@ANIONS48</td><td>@ICP</td></tr> <tr> <td>@ICPMS</td><td>Agressiveness Index-Calculated</td><td>Alkalinity in CaCO3 units</td></tr> <tr> <td>Anion Sum - Calculated</td><td>Bicarb.Alkalinity as HCO3,calc</td><td>Carbon Dioxide,Free(25C)-Calc.</td></tr> <tr> <td>Carbonate as CO3, Calculated</td><td>Cation Sum - Calculated</td><td>Fluoride</td></tr> <tr> <td>Hydroxide as OH, Calculated</td><td>Langelier Index - 25 degree</td><td>Mercury</td></tr> <tr> <td>PH (H3=past HT not compliant)</td><td>pH of CaCO3 saturation(25C)</td><td>pH of CaCO3 saturation(60C)</td></tr> <tr> <td>Specific Conductance</td><td>Surfactants</td><td>Total Dissolved Solid (TDS)</td></tr> <tr> <td>Total Hardness as CaCO3 by ICP</td><td>Boron Total ICAP</td><td></td></tr> </table>			@ANIONS28	@ANIONS48	@ICP	@ICPMS	Agressiveness Index-Calculated	Alkalinity in CaCO3 units	Anion Sum - Calculated	Bicarb.Alkalinity as HCO3,calc	Carbon Dioxide,Free(25C)-Calc.	Carbonate as CO3, Calculated	Cation Sum - Calculated	Fluoride	Hydroxide as OH, Calculated	Langelier Index - 25 degree	Mercury	PH (H3=past HT not compliant)	pH of CaCO3 saturation(25C)	pH of CaCO3 saturation(60C)	Specific Conductance	Surfactants	Total Dissolved Solid (TDS)	Total Hardness as CaCO3 by ICP	Boron Total ICAP	
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201008040343	R-003	03-Aug-2010 0848																								
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201008040344	R-006	03-Aug-2010 0851																								
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Test Description

@ANIONS28 -- Chloride, Sulfate by EPA 300.0

2/28

@ANIONS48 -- Nitrate, Nitrite by EPA 300.0



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016
Phone 626-386-1100/Fax: 626-386-1101

Acknowledgement of Samples Received

City of Tracy

3900 Holly Drive
Tracy, CA 95376
Attn: Erich Delmas
Phone: 209-831-4488

Customer Code: TRACY

Group #: 339968

Project #: WASTEWATER

Sample Group: GMMST22 + B

Project Manager: Rita Reeves

Phone: 916-418-8358

The following samples were received from you on **August 04, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
----------	-----------	-------------

	@ICP -- ICP Metals	
--	--------------------	--

	@ICPMS -- ICPMS Metals	
--	------------------------	--



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

Bottle Order for City of Tracy

Page 1

Rita Reeves Your MWHL Project Manager

BO #: 20857

Created By: RSR

Order Date: 07/06/2010

Bottle Orders

**Sampler: please return
this paper with your samples**

Client Code TRACY

Project Code WASTEWATER Bottle Orders

Group Name Monthly WW GMMST22 + B

PO# / Job#

Group#

Date Sampled

Date Received

Ship Sample Kits to

City of Tracy

3900 Holly Drive

Tracy, CA 95376

Attn: Erich Delmas

Phone: 209-831-4488

Fax: 209-831-4484

Send Report to

City of Tracy

3900 Holly Drive

Tracy, CA 95376

Attn: Erich Delmas

Phone: 209-831-4488

Fax: 209-831-4484

Billing Address

City of Tracy

3900 Holly Drive

Tracy, CA 95376

Attn: Margie Goulart

Phone: 209-831-4488

Fax: 209-831-4484

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
3	@ANIONS28, @ANIONS48, Alkalinity in CaCO3 units, Fluoride, PH (H2O past HT not compliant), Specific Conductance		1 125ml poly no preservative	
3	@ICP, @ICPMS, Mercury, Boron Total ICAP		1 250ml acid rinsed 1ml HNO3 (18%)	
3	Agressiveness Index-Calculated, Anion Sum - Calculated, Bicarb.Alkalinity as HCO3,calc, Carbon Dioxide,Free(25C)-Calc., Carbonate as CO3, Calculated, Cation Sum - Calculated, Cation/Anion Difference, Hydroxide as OH, Calculated, Langelier Index - 25 degree, Langlier Index at 60 degrees C, pH of CaCO3 saturation(25C), pH of CaCO3 saturation(60C), Total Hardness as CaCO3 by ICP	0	N/A	
3	Surfactants		1 500ml poly no preservative	
3	Total Dissolved Solid (TDS)		1 500ml poly TDS - no preservative	

Comments

Monthly monitoring locations: R-001, R-003, R-006 for GMMST22, B

Shipping: must include pre-printed COC

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

1 From
 Date 8/3/10 Sender's FedEx Account Number 1448-2412-1
 Sender's Name Print Johnny Phone 248 831-4600
 Company City of Tracy
 Address 3905 Holly Dr Dept./Floor/Suite/Room
 City Tracy State CA ZIP 95326

2 Your Internal Billing Reference

3 To
 Recipient's Name _____ Phone _____
 Company Montgomery Watson Labs
 Recipient's Address 7501 Royal Oaks Dr. Ste 100 Dept./Floor/Suite/Room
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address _____
 To request a package be held at a specific FedEx location, print FedEx address here.
 City Mountain View State CA ZIP 91016



8620 5241 2208

4a Express Package Service

1 ☒ **FedEx Priority Overnight** Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☐ **FedEx Standard Overnight** Next business afternoon.* Saturday Delivery NOT available.
6 ☐ **FedEx First Overnight** Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
3 ☐ **FedEx 2Day** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
20 ☐ **FedEx Express Saver** Third business day.* Saturday Delivery NOT available.
 * To most locations.
 FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service

7 ☐ **FedEx 1Day Freight*** Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ **FedEx 2Day Freight** Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ **FedEx 3Day Freight** Third business day.** Saturday Delivery NOT available.
 * Call for Confirmation. ** To most locations.

5 Packaging

6 ☐ **FedEx Envelope*** **2** ☐ **FedEx Pak*** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
3 ☐ **FedEx Box** **4** ☐ **FedEx Tube** **1** ☐ **Other**
 * Declared value limit \$500.

6 Special Handling

3 ☐ **SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 ☐ **HOLD Weekday at FedEx Location** Include FedEx address in Section 3.
31 ☐ **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods? One box must be checked.
☐ **No** **4** ☐ **Yes** As per attached Shipper's Declaration. ☐ **Yes** Shipper's Declaration not required.
6 ☐ **Dry Ice** Dry Ice, 9, UN 1845 x kg
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ **Cargo Aircraft Only**

7 Payment

Bill to: Enter FedEx Acct. No. or Credit Card No. below.
1 ☒ **Sender** Acct. No. in Section 1 will be billed. **2** ☐ **Recipient** **3** ☐ **Third Party** **4** ☐ **Credit Card** **5** ☐ **Cash/Check** Obtain Recip. Acct. No.

Total Packages 3 **Total Weight** 55
 1 Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

☐ **No Signature Required** Package may be left without obtaining a signature for delivery.
10 ☐ **Direct Signature** Someone at recipient's address may sign for delivery. Fee applies.
34 ☐ **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
520



MWH

LABORATORIES

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1 800 566 LABS (1 800 566 5227)

City of Tracy
Erich Delmas
3900 Holly Drive
Tracy, CA 95376

Laboratory Comments
Report: #339968

Flags Legend:

MD - Matrix spike recovery was low; the associated blank spike recovery was acceptable. MS/MSD RPD met acceptance criteria.

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Laboratory
Hits Report: 339968

City of Tracy
 Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
201008040342		<u>R-001</u>				
08/13/2010 17:01	Agressiveness Index-Calculated		13		None	0.1
08/09/2010 19:41	Alkalinity in CaCO3 units		97		mg/L	2
08/13/2010 19:32	Aluminum Total ICAP/MS		490	200	ug/L	20
08/10/2010 19:30	Anion Sum - Calculated		5.6		meq/L	0.001
08/16/2010 21:26	Arsenic Total ICAP/MS		2.2	10	ug/L	1
08/13/2010 18:00	Barium Total ICAP/MS		50	2000	ug/L	2
08/10/2010 19:30	Bicarb.Alkalinity as HCO3calc		120		mg/L	2
08/13/2010 12:07	Boron Total ICAP		0.25		mg/L	0.05
08/13/2010 12:07	Calcium Total ICAP		32		mg/L	1
08/10/2010 19:30	Carbonate as CO3, Calculated		2.7		mg/L	2
08/13/2010 17:01	Cation Sum - Calculated		5.8		meq/L	0.001
08/04/2010 16:23	Chloride		80	250	mg/L	2
08/13/2010 18:00	Chromium Total ICAP/MS		1.7	100	ug/L	1
08/13/2010 18:00	Copper Total ICAP/MS		2.3	1300	ug/L	2
08/09/2010 12:24	Fluoride		0.068	4	mg/L	0.05
08/13/2010 12:07	Iron Total ICAP		0.83	0.3	mg/L	0.02
08/13/2010 17:01	Langelier Index - 25 degree		0.68		None	
08/13/2010 12:07	Magnesium Total ICAP		16		mg/L	0.1
08/13/2010 18:00	Manganese Total ICAP/MS		100	50	ug/L	2
08/04/2010 16:23	Nitrate as Nitrogen by IC		1.1	10	mg/L	0.2
08/04/2010 16:23	Nitrate as NO3 (calc)		4.9	45	mg/L	0.88
08/04/2010 15:17	PH (H3=past HT not compliant)		8.6		Units	0.1
08/13/2010 17:01	pH of CaCO3 saturation(25C)		7.9		Units	0.1
08/13/2010 17:01	pH of CaCO3 saturation(60C)		7.4		Units	0.1
08/13/2010 12:07	Potassium Total ICAP		2.6		mg/L	1
08/13/2010 12:07	Sodium Total ICAP		64		mg/L	1
08/06/2010 15:01	Specific Conductance, 25 C		580		umho/cm	2
08/04/2010 16:23	Sulfate		63	250	mg/L	1
08/05/2010 17:01	Total Dissolved Solids (TDS)		330	500	mg/L	10
08/13/2010 17:01	Total Hardness as CaCO3 by ICP (calc)		150		mg/L	3
08/04/2010 16:23	Total Nitrate, Nitrite-N, CALC		1.1		mg/L	0.1
201008040343		<u>R-003</u>				
08/13/2010 17:01	Agressiveness Index-Calculated		13		None	0.1
08/09/2010 19:49	Alkalinity in CaCO3 units		96		mg/L	2
08/13/2010 19:34	Aluminum Total ICAP/MS		640	200	ug/L	20

8/28

SUMMARY OF POSITIVE DATA ONLY

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 08/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
08/10/2010 19:30	Anion Sum - Calculated		5.6		meq/L	0.001
08/16/2010 21:28	Arsenic Total ICAP/MS		2.4	10	ug/L	1
08/13/2010 18:03	Barium Total ICAP/MS		52	2000	ug/L	2
08/10/2010 19:30	Bicarb.Alkalinity as HCO3calc		120		mg/L	2
08/13/2010 12:21	Boron Total ICAP		0.30		mg/L	0.05
08/13/2010 12:21	Calcium Total ICAP		36		mg/L	1
08/10/2010 19:30	Carbonate as CO3, Calculated		2.1		mg/L	2
08/13/2010 17:01	Cation Sum - Calculated		6.5		meq/L	0.001
08/04/2010 16:48	Chloride		82	250	mg/L	2
08/13/2010 18:03	Chromium Total ICAP/MS		2.0	100	ug/L	1
08/13/2010 18:03	Copper Total ICAP/MS		2.6	1300	ug/L	2
08/09/2010 12:25	Fluoride		0.068	4	mg/L	0.05
08/13/2010 12:21	Iron Total ICAP		1.1	0.3	mg/L	0.02
08/13/2010 17:01	Langelier Index - 25 degree		0.61		None	
08/13/2010 12:21	Magnesium Total ICAP		18		mg/L	0.1
08/13/2010 18:03	Manganese Total ICAP/MS		120	50	ug/L	2
08/04/2010 16:48	Nitrate as Nitrogen by IC		1.1	10	mg/L	0.2
08/04/2010 16:48	Nitrate as NO3 (calc)		5.0	45	mg/L	0.88
08/04/2010 15:20	PH (H3=past HT not compliant)		8.4		Units	0.1
08/13/2010 17:01	pH of CaCO3 saturation(25C)		7.8		Units	0.1
08/13/2010 17:01	pH of CaCO3 saturation(60C)		7.4		Units	0.1
08/13/2010 12:21	Potassium Total ICAP		2.9		mg/L	1
08/13/2010 12:21	Sodium Total ICAP		72		mg/L	1
08/06/2010 15:02	Specific Conductance, 25 C		580		umho/cm	2
08/04/2010 16:48	Sulfate		63	250	mg/L	1
08/05/2010 17:02	Total Dissolved Solids (TDS)		340	500	mg/L	10
08/13/2010 17:01	Total Hardness as CaCO3 by ICP (calc)		160		mg/L	3
08/04/2010 16:48	Total Nitrate, Nitrite-N, CALC		1.1		mg/L	0.1
201008040344		R-006				
08/13/2010 17:01	Agressiveness Index-Calculated		12		None	0.1
08/09/2010 19:56	Alkalinity in CaCO3 units		95		mg/L	2
08/13/2010 19:35	Aluminum Total ICAP/MS		640	200	ug/L	20
08/10/2010 19:30	Anion Sum - Calculated		5.6		meq/L	0.001
08/16/2010 21:30	Arsenic Total ICAP/MS		2.6	10	ug/L	1
08/13/2010 18:11	Barium Total ICAP/MS		54	2000	ug/L	2
08/10/2010 19:30	Bicarb.Alkalinity as HCO3calc		110		mg/L	2

9/28

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 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
08/13/2010	12:26	Boron Total ICAP	0.26		mg/L	0.05
08/13/2010	12:26	Calcium Total ICAP	30		mg/L	1
08/13/2010	17:01	Cation Sum - Calculated	5.5		meq/L	0.001
08/04/2010	16:35	Chloride	82	250	mg/L	2
08/13/2010	18:11	Chromium Total ICAP/MS	2.0	100	ug/L	1
08/13/2010	18:11	Copper Total ICAP/MS	2.5	1300	ug/L	2
08/09/2010	12:26	Fluoride	0.070	4	mg/L	0.05
08/13/2010	12:26	Iron Total ICAP	1.0	0.3	mg/L	0.02
08/13/2010	17:01	Langelier Index - 25 degree	0.50		None	
08/13/2010	12:26	Magnesium Total ICAP	15		mg/L	0.1
08/13/2010	18:11	Manganese Total ICAP/MS	140	50	ug/L	2
08/04/2010	16:35	Nitrate as Nitrogen by IC	1.0	10	mg/L	0.2
08/04/2010	16:35	Nitrate as NO3 (calc)	4.5	45	mg/L	0.88
08/04/2010	15:22	PH (H3=past HT not compliant)	8.4		Units	0.1
08/13/2010	17:01	pH of CaCO3 saturation(25C)	7.9		Units	0.1
08/13/2010	17:01	pH of CaCO3 saturation(60C)	7.5		Units	0.1
08/13/2010	12:26	Potassium Total ICAP	2.5		mg/L	1
08/13/2010	12:26	Sodium Total ICAP	61		mg/L	1
08/06/2010	15:04	Specific Conductance, 25 C	580		umho/cm	2
08/04/2010	16:35	Sulfate	64	250	mg/L	1
08/05/2010	17:03	Total Dissolved Solids (TDS)	330	500	mg/L	10
08/13/2010	17:01	Total Hardness as CaCO3 by ICP (calc)	140		mg/L	3
08/04/2010	16:35	Total Nitrate, Nitrite-N, CALC	1.0		mg/L	0.1

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 1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 339968

City of Tracy
 Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
<u>R-001 (201008040342)</u>						Sampled on 08/03/2010 0909			
SM 2330B - pH of CaCO3 saturation(60C)									
08/13/2010	17:01		(SM 2330B)	pH of CaCO3 saturation(60C)	7.4	Units		0.1	1
SM 2330B - Langelier Index - 25 degree									
08/13/2010	17:01		(SM 2330B)	Langelier Index - 25 degree	0.68	None			1
SM 1030E - Anion Sum - Calculated									
08/10/2010	19:30		(SM 1030E)	Anion Sum - Calculated	5.6	meq/L		0.001	1
SM 1030E - Cation Sum - Calculated									
08/13/2010	17:01		(SM 1030E)	Cation Sum - Calculated	5.8	meq/L		0.001	1
SM 2330B - pH of CaCO3 saturation(25C)									
08/13/2010	17:01		(SM 2330B)	pH of CaCO3 saturation(25C)	7.9	Units		0.1	1
SM 2330 - Agressiveness Index-Calculated									
08/13/2010	17:01		(SM 2330)	Agressiveness Index-Calculated	13	None		0.1	1
EPA 200.8 - ICPMS Metals									
08/13/2010	19:32	565440	(EPA 200.8)	Aluminum Total ICAP/MS	490	ug/L	0.78	20	1
08/13/2010	18:00	565410	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	0.16	1	1
08/16/2010	21:26	565442	(EPA 200.8)	Arsenic Total ICAP/MS	2.2	ug/L	0.060	1	1
08/13/2010	18:00	565410	(EPA 200.8)	Barium Total ICAP/MS	50	ug/L	0.0010	2	1
08/13/2010	18:00	565410	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	0.054	1	1
08/13/2010	18:00	565410	(EPA 200.8)	Cadmium Total ICAP/MS	0.020J	ug/L	0.012	0.5	1
08/13/2010	18:00	565410	(EPA 200.8)	Chromium Total ICAP/MS	1.7	ug/L	0.088	1	1
08/13/2010	18:00	565410	(EPA 200.8)	Copper Total ICAP/MS	2.3	ug/L	0.110	2	1
08/13/2010	18:00	565410	(EPA 200.8)	Lead Total ICAP/MS	0.34J	ug/L	0.038	0.5	1
08/13/2010	18:00	565410	(EPA 200.8)	Manganese Total ICAP/MS	100	ug/L	0.056	2	1
08/13/2010	18:00	565410	(EPA 200.8)	Nickel Total ICAP/MS	2.73J	ug/L	0.32	5	1
08/13/2010	18:00	565410	(EPA 200.8)	Selenium Total ICAP/MS	1.36J	ug/L	0.15	5	1
08/13/2010	18:00	565410	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.014	0.5	1
08/13/2010	18:00	565410	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	0.020	1	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
Report: 339968

City of Tracy
 Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
	08/13/2010	18:00	565410 (EPA 200.8)	Zinc Total ICAP/MS	3.4 J	ug/L	1.2	20	1
EPA 200.7 - ICP Metals									
	08/13/2010	12:07	565248 (EPA 200.7)	Boron Total ICAP	0.25	mg/L	0.0080	0.05	1
	08/13/2010	12:07	565248 (EPA 200.7)	Calcium Total ICAP	32	mg/L	0.12	1	1
	08/13/2010	12:07	565248 (EPA 200.7)	Iron Total ICAP	0.83	mg/L	0.0050	0.02	1
	08/13/2010	12:07	565248 (EPA 200.7)	Magnesium Total ICAP	16	mg/L	0.0030	0.1	1
	08/13/2010	12:07	565248 (EPA 200.7)	Potassium Total ICAP	2.6	mg/L	0.13	1	1
	08/13/2010	12:07	565248 (EPA 200.7)	Sodium Total ICAP	64	mg/L	0.11	1	1
EPA 245.1 - Mercury									
8/9/2010	08/10/2010	20:49	564847 (EPA 245.1)	Mercury	ND	ug/L	0.042	0.2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	08/04/2010	16:23	563979 (EPA 300.0)	Nitrate as Nitrogen by IC	1.1	mg/L	0.0050	0.2	2
	08/04/2010	16:23	563979 (EPA 300.0)	Nitrate as NO3 (calc)	4.9	mg/L	0.022	0.88	2
	08/04/2010	16:23	563979 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.1	2
	08/04/2010	16:23	563979 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.1	mg/L	0.0050	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	08/04/2010	16:23	563981 (EPA 300.0)	Chloride	80	mg/L	0.025	2	2
	08/04/2010	16:23	563981 (EPA 300.0)	Sulfate	63	mg/L	0.060	1	2
SM2330B - Hydroxide as OH, Calculated									
	08/05/2010	10:15	(SM2330B)	Hydroxide as OH Calculated	0.060J	mg/L		2	1
SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.									
	08/10/2010	19:30	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	0.54J	mg/L		2	1
SM 4500F-C - Fluoride									
	08/09/2010	12:24	564577 (SM 4500F-C)	Fluoride	0.068	mg/L	0.0070	0.05	1
SM2330B - Carbonate as CO3, Calculated									
	08/10/2010	19:30	(SM2330B)	Carbonate as CO3, Calculated	2.7	mg/L		2	1
SM 2340B - Total Hardness as CaCO3 by ICP									
	08/13/2010	17:01	(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	150	mg/L		3	1

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Laboratory Data**Report: 339968****City of Tracy**

Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
SM 2320B - Alkalinity in CaCO3 units									
	08/09/2010	19:41 564833	(SM 2320B)	Alkalinity in CaCO3 units	97	mg/L	0.83	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									
8/5/2010	08/05/2010	17:01 564220	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	330	mg/L	4.2	10	1
SM4500-HB - PH (H3=past HT not compliant)									
	08/04/2010	15:17 564101	(SM4500-HB)	PH (H3=past HT not compliant)	8.6	Units		0.1	1
SM 5540C/EPA 425.1 - Surfactants									
	08/04/2010	16:00 564021	(SM 5540C/EPA 425.1)	Surfactants	0.015J	mg/L	0.014	0.05	1
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	08/10/2010	19:30	(SM2330B)	Bicarb.Alkalinity as HCO3calc	120	mg/L		2	1
SM2510B - Specific Conductance									
	08/06/2010	15:01 564626	(SM2510B)	Specific Conductance, 25 C	580	umho/cm	0.51	2	1
R-003 (201008040343)									
SM 2330B - pH of CaCO3 saturation(60C)									
	08/13/2010	17:01	(SM 2330B)	pH of CaCO3 saturation(60C)	7.4	Units		0.1	1
SM 2330B - Langelier Index - 25 degree									
	08/13/2010	17:01	(SM 2330B)	Langelier Index - 25 degree	0.61	None			1
SM 1030E - Anion Sum - Calculated									
	08/10/2010	19:30	(SM 1030E)	Anion Sum - Calculated	5.6	meq/L		0.001	1
SM 1030E - Cation Sum - Calculated									
	08/13/2010	17:01	(SM 1030E)	Cation Sum - Calculated	6.5	meq/L		0.001	1
SM 2330B - pH of CaCO3 saturation(25C)									
	08/13/2010	17:01	(SM 2330B)	pH of CaCO3 saturation(25C)	7.8	Units		0.1	1
SM 2330 - Agressiveness Index-Calculated									
	08/13/2010	17:01	(SM 2330)	Agressiveness Index-Calculated	13	None		0.1	1

Sampled on 08/03/2010 0848

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Laboratory Data
Report: 339968

City of Tracy
 Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
EPA 200.8 - ICPMS Metals									
	08/13/2010	19:34	565440 (EPA 200.8)	Aluminum Total ICAP/MS	640	ug/L	0.78	20	1
	08/13/2010	18:03	565410 (EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	0.16	1	1
	08/16/2010	21:28	565442 (EPA 200.8)	Arsenic Total ICAP/MS	2.4	ug/L	0.060	1	1
	08/13/2010	18:03	565410 (EPA 200.8)	Barium Total ICAP/MS	52	ug/L	0.0010	2	1
	08/13/2010	18:03	565410 (EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	0.054	1	1
	08/13/2010	18:03	565410 (EPA 200.8)	Cadmium Total ICAP/MS	0.02J	ug/L	0.012	0.5	1
	08/13/2010	18:03	565410 (EPA 200.8)	Chromium Total ICAP/MS	2.0	ug/L	0.088	1	1
	08/13/2010	18:03	565410 (EPA 200.8)	Copper Total ICAP/MS	2.6	ug/L	0.110	2	1
	08/13/2010	18:03	565410 (EPA 200.8)	Lead Total ICAP/MS	0.44J	ug/L	0.038	0.5	1
	08/13/2010	18:03	565410 (EPA 200.8)	Manganese Total ICAP/MS	120	ug/L	0.056	2	1
	08/13/2010	18:03	565410 (EPA 200.8)	Nickel Total ICAP/MS	3.013J	ug/L	0.32	5	1
	08/13/2010	18:03	565410 (EPA 200.8)	Selenium Total ICAP/MS	1.4J	ug/L	0.15	5	1
	08/13/2010	18:03	565410 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.014	0.5	1
	08/13/2010	18:03	565410 (EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	0.020	1	1
	08/13/2010	18:03	565410 (EPA 200.8)	Zinc Total ICAP/MS	5.94J	ug/L	1.2	20	1
EPA 200.7 - ICP Metals									
	08/13/2010	12:21	565248 (EPA 200.7)	Boron Total ICAP	0.30	mg/L	0.0080	0.05	1
	08/13/2010	12:21	565248 (EPA 200.7)	Calcium Total ICAP	36	mg/L	0.12	1	1
	08/13/2010	12:21	565248 (EPA 200.7)	Iron Total ICAP	1.1	mg/L	0.0050	0.02	1
	08/13/2010	12:21	565248 (EPA 200.7)	Magnesium Total ICAP	18	mg/L	0.0030	0.1	1
	08/13/2010	12:21	565248 (EPA 200.7)	Potassium Total ICAP	2.9	mg/L	0.13	1	1
	08/13/2010	12:21	565248 (EPA 200.7)	Sodium Total ICAP	72	mg/L	0.11	1	1
EPA 245.1 - Mercury									
8/9/2010	08/10/2010	20:51	564847 (EPA 245.1)	Mercury	ND	ug/L	0.042	0.2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	08/04/2010	16:48	563979 (EPA 300.0)	Nitrate as Nitrogen by IC	1.1	mg/L	0.0050	0.2	2
	08/04/2010	16:48	563979 (EPA 300.0)	Nitrate as NO3 (calc)	5.0	mg/L	0.022	0.88	2
	08/04/2010	16:48	563979 (EPA 300.0)	Nitrite Nitrogen by IC	ND(MD)	mg/L	0.0040	0.1	2
	08/04/2010	16:48	563979 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.1	mg/L	0.0050	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									

Rounding on totals after summation.
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Laboratory Data
Report: 339968

City of Tracy
 Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
	08/04/2010	16:48	563981 (EPA 300.0)	Chloride	82	mg/L	0.025	2	2
	08/04/2010	16:48	563981 (EPA 300.0)	Sulfate	63	mg/L	0.060	1	2
SM2330B - Hydroxide as OH, Calculated									
	08/05/2010	10:15	(SM2330B)	Hydroxide as OH Calculated	0.046J	mg/L		2	1
SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.									
	08/10/2010	19:30	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	0.69J	mg/L		2	1
SM 4500F-C - Fluoride									
	08/09/2010	12:25	564577 (SM 4500F-C)	Fluoride	0.068	mg/L	0.0070	0.05	1
SM2330B - Carbonate as CO3, Calculated									
	08/10/2010	19:30	(SM2330B)	Carbonate as CO3, Calculated	2.1	mg/L		2	1
SM 2340B - Total Hardness as CaCO3 by ICP									
	08/13/2010	17:01	(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	160	mg/L		3	1
SM 2320B - Alkalinity in CaCO3 units									
	08/09/2010	19:49	564833 (SM 2320B)	Alkalinity in CaCO3 units	96	mg/L	0.83	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									
8/5/2010	08/05/2010	17:02	564220 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	340	mg/L	4.2	10	1
SM4500-HB - PH (H3=past HT not compliant)									
	08/04/2010	15:20	564101 (SM4500-HB)	PH (H3=past HT not compliant)	8.4	Units		0.1	1
SM 5540C/EPA 425.1 - Surfactants									
	08/04/2010	16:01	564021 (SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.014	0.05	1
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	08/10/2010	19:30	(SM2330B)	Bicarb.Alkalinity as HCO3calc	120	mg/L		2	1
SM2510B - Specific Conductance									
	08/06/2010	15:02	564626 (SM2510B)	Specific Conductance, 25 C	580	umho/cm	0.51	2	1

R-006 (201008040344)**Sampled on 08/03/2010 0851**

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Laboratory Data**Report: 339968****City of Tracy**

Erich Delmas
 3900 Holly Drive
 Tracy, CA 95376

Samples Received on:
 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
SM 2330B - pH of CaCO₃ saturation(60C)									
08/13/2010	17:01		(SM 2330B)	pH of CaCO ₃ saturation(60C)	7.5	Units		0.1	1
SM 2330B - Langelier Index - 25 degree									
08/13/2010	17:01		(SM 2330B)	Langelier Index - 25 degree	0.50	None			1
SM 1030E - Anion Sum - Calculated									
08/10/2010	19:30		(SM 1030E)	Anion Sum - Calculated	5.6	meq/L		0.001	1
SM 1030E - Cation Sum - Calculated									
08/13/2010	17:01		(SM 1030E)	Cation Sum - Calculated	5.5	meq/L		0.001	1
SM 2330B - pH of CaCO₃ saturation(25C)									
08/13/2010	17:01		(SM 2330B)	pH of CaCO ₃ saturation(25C)	7.9	Units		0.1	1
SM 2330 - Agressiveness Index-Calculated									
08/13/2010	17:01		(SM 2330)	Agressiveness Index-Calculated	12	None		0.1	1
EPA 200.8 - ICPMS Metals									
08/13/2010	19:35	565440	(EPA 200.8)	Aluminum Total ICAP/MS	640	ug/L	0.78	20	1
08/13/2010	18:11	565410	(EPA 200.8)	Antimony Total ICAP/MS	0.25J	ug/L	0.16	1	1
08/16/2010	21:30	565442	(EPA 200.8)	Arsenic Total ICAP/MS	2.6	ug/L	0.060	1	1
08/13/2010	18:11	565410	(EPA 200.8)	Barium Total ICAP/MS	54	ug/L	0.0010	2	1
08/13/2010	18:11	565410	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	0.054	1	1
08/13/2010	18:11	565410	(EPA 200.8)	Cadmium Total ICAP/MS	0.02J	ug/L	0.012	0.5	1
08/13/2010	18:11	565410	(EPA 200.8)	Chromium Total ICAP/MS	2.0	ug/L	0.088	1	1
08/13/2010	18:11	565410	(EPA 200.8)	Copper Total ICAP/MS	2.5	ug/L	0.110	2	1
08/13/2010	18:11	565410	(EPA 200.8)	Lead Total ICAP/MS	0.4J	ug/L	0.038	0.5	1
08/13/2010	18:11	565410	(EPA 200.8)	Manganese Total ICAP/MS	140	ug/L	0.056	2	1
08/13/2010	18:11	565410	(EPA 200.8)	Nickel Total ICAP/MS	3.1J	ug/L	0.32	5	1
08/13/2010	18:11	565410	(EPA 200.8)	Selenium Total ICAP/MS	1.55J	ug/L	0.15	5	1
08/13/2010	18:11	565410	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.014	0.5	1
08/13/2010	18:11	565410	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	0.020	1	1
08/13/2010	18:11	565410	(EPA 200.8)	Zinc Total ICAP/MS	5.11J	ug/L	1.2	20	1
EPA 200.7 - ICP Metals									
08/13/2010	12:26	565248	(EPA 200.7)	Boron Total ICAP	0.26	mg/L	0.0080	0.05	1

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 08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
	08/13/2010	12:26	565248 (EPA 200.7)	Calcium Total ICAP	30	mg/L	0.12	1	1
	08/13/2010	12:26	565248 (EPA 200.7)	Iron Total ICAP	1.0	mg/L	0.0050	0.02	1
	08/13/2010	12:26	565248 (EPA 200.7)	Magnesium Total ICAP	15	mg/L	0.0030	0.1	1
	08/13/2010	12:26	565248 (EPA 200.7)	Potassium Total ICAP	2.5	mg/L	0.13	1	1
	08/13/2010	12:26	565248 (EPA 200.7)	Sodium Total ICAP	61	mg/L	0.11	1	1
EPA 245.1 - Mercury									
8/9/2010	08/10/2010	20:52	564847 (EPA 245.1)	Mercury	ND	ug/L	0.042	0.2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	08/04/2010	16:35	563979 (EPA 300.0)	Nitrate as Nitrogen by IC	1.0	mg/L	0.0050	0.2	2
	08/04/2010	16:35	563979 (EPA 300.0)	Nitrate as NO3 (calc)	4.5	mg/L	0.022	0.88	2
	08/04/2010	16:35	563979 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.1	2
	08/04/2010	16:35	563979 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.0	mg/L	0.0050	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	08/04/2010	16:35	563981 (EPA 300.0)	Chloride	82	mg/L	0.025	2	2
	08/04/2010	16:35	563981 (EPA 300.0)	Sulfate	64	mg/L	0.060	1	2
SM2330B - Hydroxide as OH, Calculated									
	08/05/2010	10:15	(SM2330B)	Hydroxide as OH Calculated	0.04 J	mg/L		2	1
SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.									
	08/10/2010	19:30	(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	0.7J	mg/L		2	1
SM 4500F-C - Fluoride									
	08/09/2010	12:26	564577 (SM 4500F-C)	Fluoride	0.070	mg/L	0.0070	0.05	1
SM2330B - Carbonate as CO3, Calculated									
	08/10/2010	19:30	(SM2330B)	Carbonate as CO3, Calculated	1.8J	mg/L		2	1
SM 2340B - Total Hardness as CaCO3 by ICP									
	08/13/2010	17:01	(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	140	mg/L		3	1
SM 2320B - Alkalinity in CaCO3 units									
	08/09/2010	19:56	564833 (SM 2320B)	Alkalinity in CaCO3 units	95	mg/L	0.83	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									

Rounding on totals after summation.
 (c) - indicates calculated results



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Laboratory Data
Report: 339968

City of Tracy
Erich Delmas
3900 Holly Drive
Tracy, CA 95376

Samples Received on:
08/04/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
8/5/2010	08/05/2010	17:03	564220 (E160.1/SM2540 C)	Total Dissolved Solids (TDS)	330	mg/L	4.2	10	1
SM4500-HB - PH (H3=past HT not compliant)									
	08/04/2010	15:22	564101 (SM4500-HB)	PH (H3=past HT not compliant)	8.4	Units		0.1	1
SM 5540C/EPA 425.1 - Surfactants									
	08/04/2010	16:02	564021 (SM 5540C/EPA 425.1)	Surfactants	0.015J	mg/L	0.014	0.05	1
SM2330B - Bicarb.Alkalinity as HCO₃,calc									
	08/10/2010	19:30	(SM2330B)	Bicarb.Alkalinity as HCO ₃ calc	110	mg/L		2	1
SM2510B - Specific Conductance									
	08/06/2010	15:04	564626 (SM2510B)	Specific Conductance, 25 C	580	umho/cm	0.51	2	1

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QC Summary: 339968

City of Tracy

QC Ref # 563979 - Nitrate, Nitrite by EPA 300.0

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/04/2010

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 563981 - Chloride, Sulfate by EPA 300.0

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/04/2010

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 564021 - Surfactants

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/04/2010

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 564101 - PH (H3=past HT not compliant)

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/04/2010

Analyzed by: SAR
Analyzed by: SAR
Analyzed by: SAR

QC Ref # 564220 - Total Dissolved Solids (TDS)

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/05/2010

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

QC Ref # 564577 - Fluoride

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/09/2010

Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP

QC Ref # 564626 - Specific Conductance

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/06/2010

Analyzed by: SAR
Analyzed by: SAR
Analyzed by: SAR

QC Ref # 564833 - Alkalinity in CaCO3 units

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/09/2010

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 564847 - Mercury

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/10/2010

Analyzed by: DYH
Analyzed by: DYH
Analyzed by: DYH

QC Ref # 565248 - ICP Metals

201008040342	R-001
201008040343	R-003
201008040344	R-006

Analysis Date: 08/13/2010

Analyzed by: WBH
Analyzed by: WBH
Analyzed by: WBH

QC Ref # 565410 - ICPMS Metals**Analysis Date: 08/13/2010**



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Laboratory
QC Summary: 339968

City of Tracy

(continued)

201008040342	R-001	Analyzed by: VXT
201008040343	R-003	Analyzed by: VXT
201008040344	R-006	Analyzed by: VXT

QC Ref # 565440 - ICPMS Metals

Analysis Date: 08/13/2010

201008040342	R-001	Analyzed by: VXT
201008040343	R-003	Analyzed by: VXT
201008040344	R-006	Analyzed by: VXT

QC Ref # 565442 - ICPMS Metals

Analysis Date: 08/16/2010

201008040342	R-001	Analyzed by: VXT
201008040343	R-003	Analyzed by: VXT
201008040344	R-006	Analyzed by: VXT

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QC Report: 339968

City of Tracy

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 563979 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0					Analysis Date: 08/04/2010				
LCS1	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)	20	0.0
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0475	mg/L	95	(50-150)		
MS_201008030649	Nitrate as Nitrogen by IC	3.4	1.3	9.84	mg/L	103	(80-120)		
MS_201008040343	Nitrate as Nitrogen by IC	1.1	1.3	3.77	mg/L	105	(80-120)		
MSD_201008030649	Nitrate as Nitrogen by IC	3.4	1.3	9.87	mg/L	104	(80-120)	20	0.97
MSD_201008040343	Nitrate as Nitrogen by IC	1.1	1.3	3.74	mg/L	104	(80-120)	20	0.96
LCS1	Nitrite Nitrogen by IC		1.0	0.959	mg/L	96	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.960	mg/L	96	(90-110)	20	0.10
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0529	mg/L	106	(50-150)		
MS_201008030649	Nitrite Nitrogen by IC	ND	0.5	1.86	mg/L	<u>74</u>	(80-120)		
MS_201008040343	Nitrite Nitrogen by IC	ND	0.5	0.680	mg/L	<u>68</u>	(80-120)		
MSD_201008030649	Nitrite Nitrogen by IC	ND	0.5	1.84	mg/L	<u>74</u>	(80-120)	20	1.1
MSD_201008040343	Nitrite Nitrogen by IC	ND	0.5	0.676	mg/L	<u>68</u>	(80-120)	20	0.59
QC Ref# 563981 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 08/04/2010				
LCS1	Chloride		25	24.8	mg/L	99	(90-110)		
LCS2	Chloride		25	24.9	mg/L	99	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.461	mg/L	92	(50-150)		
MS_201008030649	Chloride	150	13	213	mg/L	104	(80-120)		
MS_201008040343	Chloride	82	13	108	mg/L	103	(80-120)		
MSD_201008030649	Chloride	150	13	212	mg/L	103	(80-120)	20	0.97
MSD_201008040343	Chloride	82	13	108	mg/L	102	(80-120)	20	0.98
LCS1	Sulfate		50	49.2	mg/L	99	(90-110)		
LCS2	Sulfate		50	49.4	mg/L	99	(90-110)	20	0.41
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.946	mg/L	95	(50-150)		
MRLLW	Sulfate		0.25	0.263	mg/L	105	(50-150)		
MS_201008030649	Sulfate	150	25	290	mg/L	108	(80-120)		
MS_201008040343	Sulfate	63	25	119	mg/L	111	(80-120)		
MSD_201008030649	Sulfate	150	25	290	mg/L	108	(80-120)	20	0.0
MSD_201008040343	Sulfate	63	25	118	mg/L	110	(80-120)	20	0.91
QC Ref# 564021 - Surfactants by SM 5540C/EPA 425.1					Analysis Date: 08/04/2010				
LCS1	Surfactants		0.2	0.189	mg/L	94	(90-110)		

Spike recovery is already corrected for native results.

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

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(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)

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City of Tracy
 (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Surfactants		0.2	0.196	mg/L	98	(90-110)	20	3.6
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0508	mg/L	102	(50-150)		
MS_201008030380	Surfactants	ND	0.2	0.204	mg/L	94	(80-120)		
MSD_201008030380	Surfactants	ND	0.2	0.207	mg/L	96	(80-120)	20	1.9

QC Ref# 564101 - PH (H3=past HT not compliant) by SM4500-HB**Analysis Date: 08/04/2010**

DUP1_201008030653	PH (H3=past HT not compliant)	7.4		7.38	Units		(0-20)	20	0.0
DUP2_201008040156	PH (H3=past HT not compliant)	7.7		7.7	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.05	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.06	Units	101	(98-102)	20	0.17

QC Ref# 564220 - Total Dissolved Solids (TDS) by E160.1/SM2540C**Analysis Date: 08/05/2010**

DUP_201008040156	Total Dissolved Solid (TDS)	530		528	mg/L		(0-10)	10	0.76
DUP_201008040287	Total Dissolved Solid (TDS)	220		224	mg/L		(0-10)	10	0.0
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	704	mg/L	101	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		

QC Ref# 564577 - Fluoride by SM 4500F-C**Analysis Date: 08/09/2010**

LCS1	Fluoride		1.0	1.02	mg/L	102	(81-116)		
LCS2	Fluoride		1.0	1.03	mg/L	103	(81-116)	20	0.98
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0490	mg/L	98	(50-150)		
MS_201008030317	Fluoride	1.0	1.0	1.84	mg/L	82	(73-124)		
MS_201008040030	Fluoride	0.28	1.0	1.24	mg/L	96	(73-124)		
MSD_201008030317	Fluoride	1.0	1.0	1.86	mg/L	84	(73-124)	20	1.9

QC Ref# 564626 - Specific Conductance by SM2510B**Analysis Date: 08/06/2010**

DUP1_201008040454	Specific Conductance	1100		1070	umho/cm		(0-20)	20	0.85
DUP2_201008050115	Specific Conductance	78		78.4	umho/cm		(0-20)	20	1.2
LCS1	Specific Conductance		1000	981	umho/cm	98	(90-110)		
LCS2	Specific Conductance		1000	981	umho/cm	98	(90-110)	20	0.0
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		2.0	1.44	umho/cm	72	(50-150)		

QC Ref# 564833 - Alkalinity in CaCO3 units by SM 2320B**Analysis Date: 08/09/2010**

LCS1	Alkalinity in CaCO3 units		100	95.3	mg/L	95	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	97.9	mg/L	98	(90-110)	20	2.7

Spike recovery is already corrected for native results.

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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QC Report: 339968

City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.8	mg/L	90	(50-150)		
MS_201008070077	Alkalinity in CaCO3 units	49	100	146	mg/L	97	(80-120)		
MS2_201008070078	Alkalinity in CaCO3 units	47	100	146	mg/L	100	(80-120)		
MSD_201008070077	Alkalinity in CaCO3 units	49	100	148	mg/L	99	(80-120)	20	1.9
MSD2_201008070078	Alkalinity in CaCO3 units	47	100	147	mg/L	100	(80-120)	20	0.30

QC Ref# 564847 - Mercury by EPA 245.1

Analysis Date: 08/10/2010

LCS1	Mercury		1.5	1.5	ug/L	100	(85-115)		
LCS2	Mercury		1.5	1.47	ug/L	98	(85-115)	20	2.0
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.200	ug/L	100	(50-150)		
MS_201008050196	Mercury	ND	1.5	1.47	ug/L	98	(70-130)		
MS_201008060008	Mercury	ND	1.5	1.4	ug/L	93	(70-130)		
MSD_201008050196	Mercury	ND	1.5	1.49	ug/L	99	(70-130)	20	1.0
MSD_201008060008	Mercury	ND	1.5	1.37	ug/L	91	(70-130)	20	2.0

QC Ref# 565248 - ICP Metals by EPA 200.7

Analysis Date: 08/12/2010

LCS1	Boron Total ICAP		0.5	0.517	mg/L	103	(85-115)		
LCS2	Boron Total ICAP		0.5	0.517	mg/L	103	(85-115)	20	0.0
MBLK	Boron Total ICAP			<0.05	mg/L				
MRL_CHK	Boron Total ICAP		0.05	0.0585	mg/L	117	(50-150)		
MS_201008030001	Boron Total ICAP	0.14	0.5	0.522	mg/L	104	(70-130)		
MS2_201008030003	Boron Total ICAP	0.14	0.5	0.499	mg/L	100	(70-130)		
MSD_201008030001	Boron Total ICAP	0.14	0.5	0.560	mg/L	112	(70-130)	20	7.4
MSD2_201008030003	Boron Total ICAP	0.14	0.5	0.539	mg/L	108	(70-130)	20	7.9
LCS1	Calcium Total ICAP		50	52.2	mg/L	104	(85-115)		
LCS2	Calcium Total ICAP		50	53.9	mg/L	108	(85-115)	20	3.2
MBLK	Calcium Total ICAP			<1	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.11	mg/L	111	(50-150)		
MS_201008030001	Calcium Total ICAP	63	50	113	mg/L	100	(70-130)		
MS2_201008030003	Calcium Total ICAP	68	50	113	mg/L	91	(70-130)		
MSD_201008030001	Calcium Total ICAP	63	50	123	mg/L	119	(70-130)	20	18
MSD2_201008030003	Calcium Total ICAP	68	50	123	mg/L	109	(70-130)	20	18
LCS1	Iron Total ICAP		5.0	5.06	mg/L	101	(85-115)		
LCS2	Iron Total ICAP		5.0	5.18	mg/L	104	(85-115)	20	2.3
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0208	mg/L	104	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201008030001	Iron Total ICAP	0.15	5.0	5.22	mg/L	101	(70-130)		
MS2_201008030003	Iron Total ICAP	0.071	5.0	4.95	mg/L	98	(70-130)		
MSD_201008030001	Iron Total ICAP	0.15	5.0	5.58	mg/L	109	(70-130)	20	7.6
MSD2_201008030003	Iron Total ICAP	0.071	5.0	5.4	mg/L	107	(70-130)	20	9.2
LCS1	Magnesium Total ICAP		20	20.8	mg/L	104	(85-115)		
LCS2	Magnesium Total ICAP		20	21.5	mg/L	108	(85-115)	20	3.3
MBLK	Magnesium Total ICAP			<0.1	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.115	mg/L	115	(50-150)		
MS_201008030001	Magnesium Total ICAP	27	20	47.1	mg/L	99	(70-130)		
MS2_201008030003	Magnesium Total ICAP	28	20	46.5	mg/L	90	(70-130)		
MSD_201008030001	Magnesium Total ICAP	27	20	51.2	mg/L	120	(70-130)	20	19
MSD2_201008030003	Magnesium Total ICAP	28	20	50.3	mg/L	109	(70-130)	20	19
LCS1	Potassium Total ICAP		20	19.8	mg/L	99	(85-115)		
LCS2	Potassium Total ICAP		20	20.6	mg/L	103	(85-115)	20	4.0
MBLK	Potassium Total ICAP			<1	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	1.04	mg/L	104	(50-150)		
MS_201008030001	Potassium Total ICAP	4.8	20	24.6	mg/L	99	(70-130)		
MS2_201008030003	Potassium Total ICAP	5.0	20	23.9	mg/L	94	(70-130)		
MSD_201008030001	Potassium Total ICAP	4.8	20	26.5	mg/L	108	(70-130)	20	9.1
MSD2_201008030003	Potassium Total ICAP	5.0	20	26.2	mg/L	106	(70-130)	20	12
LCS1	Silica		21	22.5	mg/L	105	(85-115)		
LCS2	Silica		21	23.2	mg/L	109	(85-115)	20	3.1
MBLK	Silica			<0.5	mg/L				
MRL_CHK	Silica		0.5	0.506	mg/L	101	(50-150)		
MS_201008030001	Silica		21	23.0	mg/L	107	(70-130)		
MS2_201008030003	Silica		21	21.7	mg/L	101	(70-130)		
MSD_201008030001	Silica		21	25.1	mg/L	117	(70-130)	20	8.9
MSD2_201008030003	Silica		21	21.0	mg/L	98	(70-130)	20	2.8
LCS1	Sodium Total ICAP		50	51.3	mg/L	103	(85-115)		
LCS2	Sodium Total ICAP		50	52.8	mg/L	106	(85-115)	20	2.9
MBLK	Sodium Total ICAP			<1	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.09	mg/L	109	(50-150)		
MS_201008030001	Sodium Total ICAP	90	50	138	mg/L	97	(70-130)		
MS2_201008030003	Sodium Total ICAP	93	50	137	mg/L	89	(70-130)		
MSD_201008030001	Sodium Total ICAP	90	50	149	mg/L	119	(70-130)	20	20
MSD2_201008030003	Sodium Total ICAP	93	50	147	mg/L	109	(70-130)	20	<u>21</u>

QC Ref# 565410 - ICPMS Metals by EPA 200.8

Analysis Date: 08/13/2010

Spike recovery is already corrected for native results.

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

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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QC Report: 339968

City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Antimony Total ICAP/MS		50	47.4	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.7	ug/L	97	(85-115)	20	2.7
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201008060220	Antimony Total ICAP/MS	ND	50	44.8	ug/L	89	(70-130)		
MS2_201008050400	Antimony Total ICAP/MS	1.9	50	49.8	ug/L	96	(70-130)		
MSD_201008060220	Antimony Total ICAP/MS	ND	50	46.1	ug/L	91	(70-130)	20	2.8
MSD2_201008050400	Antimony Total ICAP/MS	1.9	50	51.4	ug/L	99	(70-130)	20	3.3
LCS1	Arsenic Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	1.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MS_201008060220	Arsenic Total ICAP/MS	1.8	20	21.6	ug/L	99	(70-130)		
MS2_201008050400	Arsenic Total ICAP/MS	NA	20	22.7	ug/L	97	(70-130)		
MSD_201008060220	Arsenic Total ICAP/MS	1.8	20	22.0	ug/L	101	(70-130)	20	2.1
MSD2_201008050400	Arsenic Total ICAP/MS	NA	20	23.2	ug/L	100	(70-130)	20	2.6
LCS1	Barium Total ICAP/MS		100	96.1	ug/L	96	(85-115)		
LCS2	Barium Total ICAP/MS		100	96.3	ug/L	96	(85-115)	20	0.21
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201008060220	Barium Total ICAP/MS	50	100	143	ug/L	93	(70-130)		
MS2_201008050400	Barium Total ICAP/MS	76	100	169	ug/L	93	(70-130)		
MSD_201008060220	Barium Total ICAP/MS	50	100	146	ug/L	96	(70-130)	20	3.3
MSD2_201008050400	Barium Total ICAP/MS	76	100	172	ug/L	96	(70-130)	20	2.8
LCS1	Beryllium Total ICAP/MS		5.0	4.46	ug/L	89	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.53	ug/L	91	(85-115)	20	1.6
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.891	ug/L	89	(50-150)		
MS_201008060220	Beryllium Total ICAP/MS	ND	5.0	4.42	ug/L	88	(70-130)		
MS2_201008050400	Beryllium Total ICAP/MS	ND	5.0	4.68	ug/L	94	(70-130)		
MSD_201008060220	Beryllium Total ICAP/MS	ND	5.0	4.91	ug/L	98	(70-130)	20	11
MSD2_201008050400	Beryllium Total ICAP/MS	ND	5.0	4.89	ug/L	98	(70-130)	20	4.4
LCS1	Cadmium Total ICAP/MS		20	19.1	ug/L	96	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.497	ug/L	99	(50-150)		
MS_201008060220	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201008050400	Cadmium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)		
MSD_201008060220	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	0.21

Spike recovery is already corrected for native results.

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory
QC Report: 339968

City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201008050400	Cadmium Total ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	2.5
LCS1	Chromium Total ICAP/MS		100	97.5	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.0	ug/L	98	(85-115)	20	0.51
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.25	ug/L	125	(50-150)		
MS_201008060220	Chromium Total ICAP/MS	ND	100	99.2	ug/L	99	(70-130)		
MS2_201008050400	Chromium Total ICAP/MS		100	101	ug/L	95	(70-130)		
MSD_201008060220	Chromium Total ICAP/MS	ND	100	97.6	ug/L	97	(70-130)	20	1.6
MSD2_201008050400	Chromium Total ICAP/MS		100	100	ug/L	95	(70-130)	20	0.74
LCS1	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.13	ug/L	107	(50-150)		
MS_201008060220	Copper Total ICAP/MS	9.1	100	108	ug/L	99	(70-130)		
MS2_201008050400	Copper Total ICAP/MS	110	100	200	ug/L	93	(70-130)		
MSD_201008060220	Copper Total ICAP/MS	9.1	100	107	ug/L	98	(70-130)	20	0.61
MSD2_201008050400	Copper Total ICAP/MS	110	100	203	ug/L	96	(70-130)	20	3.3
LCS1	Lead Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.523	ug/L	105	(50-150)		
MS_201008060220	Lead Total ICAP/MS	1.5	20	21.4	ug/L	100	(70-130)		
MS2_201008050400	Lead Total ICAP/MS	24	20	43.0	ug/L	94	(70-130)		
MSD_201008060220	Lead Total ICAP/MS	1.5	20	21.4	ug/L	100	(70-130)	20	0.10
MSD2_201008050400	Lead Total ICAP/MS	24	20	43.9	ug/L	99	(70-130)	20	4.6
LCS1	Manganese Total ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Manganese Total ICAP/MS		50	50.3	ug/L	101	(85-115)	20	0.80
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.1	ug/L	105	(50-150)		
MS_201008060220	Manganese Total ICAP/MS	110	50	158	ug/L	98	(70-130)		
MS2_201008050400	Manganese Total ICAP/MS	6.2	50	53.9	ug/L	95	(70-130)		
MSD_201008060220	Manganese Total ICAP/MS	110	50	155	ug/L	93	(70-130)	20	5.9
MSD2_201008050400	Manganese Total ICAP/MS	6.2	50	54.6	ug/L	97	(70-130)	20	1.4
LCS1	Nickel Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)	20	0.20
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.21	ug/L	104	(50-150)		
MS_201008060220	Nickel Total ICAP/MS	ND	50	51.2	ug/L	99	(70-130)		

Spike recovery is already corrected for native results.

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201008050400	Nickel Total ICAP/MS	7.2	50	54.3	ug/L	94	(70-130)		
MSD_201008060220	Nickel Total ICAP/MS	ND	50	50.8	ug/L	98	(70-130)	20	0.71
MSD2_201008050400	Nickel Total ICAP/MS	7.2	50	54.5	ug/L	95	(70-130)	20	0.42
LCS1	Selenium Total ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.7	ug/L	93	(85-115)	20	1.6
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.92	ug/L	98	(50-150)		
MS_201008060220	Selenium Total ICAP/MS	ND	20	19.0	ug/L	94	(70-130)		
MS2_201008050400	Selenium Total ICAP/MS	ND	20	19.2	ug/L	86	(70-130)		
MSD_201008060220	Selenium Total ICAP/MS	ND	20	18.8	ug/L	93	(70-130)	20	0.86
MSD2_201008050400	Selenium Total ICAP/MS	ND	20	20.9	ug/L	95	(70-130)	20	9.4
LCS1	Silver Total ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	3.3
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.493	ug/L	99	(50-150)		
MS_201008060220	Silver Total ICAP/MS	ND	50	48.4	ug/L	97	(70-130)		
MS2_201008050400	Silver Total ICAP/MS	ND	50	47.1	ug/L	94	(70-130)		
MSD_201008060220	Silver Total ICAP/MS	ND	50	48.2	ug/L	96	(70-130)	20	0.42
MSD2_201008050400	Silver Total ICAP/MS	ND	50	47.9	ug/L	95	(70-130)	20	1.7
LCS1	Thallium Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.9	ug/L	100	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201008060220	Thallium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201008050400	Thallium Total ICAP/MS	ND	20	19.9	ug/L	100	(70-130)		
MSD_201008060220	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	1
MSD2_201008050400	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	0.50
LCS1	Zinc Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	97.1	ug/L	97	(85-115)	20	0.41
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201008060220	Zinc Total ICAP/MS	ND	100	111	ug/L	94	(70-130)		
MS2_201008050400	Zinc Total ICAP/MS	61	100	152	ug/L	91	(70-130)		
MSD_201008060220	Zinc Total ICAP/MS	ND	100	113	ug/L	95	(70-130)	20	1.8
MSD2_201008050400	Zinc Total ICAP/MS	61	100	153	ug/L	92	(70-130)	20	1.1

QC Ref# 565440 - ICPMS Metals by EPA 200.8

Analysis Date: 08/13/2010

LCS1	Aluminum Total ICAP/MS	200	188	ug/L	94	(85-115)
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Spike recovery is already corrected for native results.

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Tracy
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Aluminum Total ICAP/MS		200	188	ug/L	94	(85-115)	20	0.0
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	20.7	ug/L	103	(50-150)		
MS_201008130316	Aluminum Total ICAP/MS	ND	200	198	ug/L	93	(70-130)		
MSD_201008130316	Aluminum Total ICAP/MS	ND	200	198	ug/L	93	(70-130)	20	0.0

QC Ref# 565442 - ICPMS Metals by EPA 200.8

Analysis Date: 08/16/2010

LCS1	Arsenic Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	3.7
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201008130317	Arsenic Total ICAP/MS	1.5	20	21.4	ug/L	100	(70-130)		
MSD_201008130317	Arsenic Total ICAP/MS	1.5	20	20.7	ug/L	96	(70-130)	20	3.8

Spike recovery is already corrected for native results.

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)