PACIFIC ECORISK ENVIRONMENTAL CONSULTING & TESTING

Tony Morales
Malaga Wastewater Treatment Facility
3580 S. Frank Street
Fresno, CA 93725-2511

February 24, 2012

Dear Mr. Morales:

I have enclosed two copies of our report "NPDES Compliance Chronic Toxicity Testing of the Malaga WTF Final Effluent: Accelerated Monitoring Test #1 with *Selenastrum capricornutum*" for testing performed on the effluent sample collected on February 7, 2012. The results of this test follow:

Chronic Effects of Malaga Effluent on *Selenastrum capricornutum*
There were ***no*** significant reductions in algal growth in the Malaga effluent; the NOEC of 100% effluent resulted in 1.0 TUc (where TUc = 100/NOEC). The IC_{25} was >100% effluent.

If you have any questions regarding the performance and interpretation of this test, feel free to contact Stephen Clark or myself at (707) 207-7760.

Sincerely,

Drew Gantner

Digitally signed by Drew Gantner
DN: cn=Drew Gantner, o=Pacific EcoRisk, ou, email=dgantner@pacificecorisk.com, c=US
Date: 2012.02.24 13:15:03 -08'00'

Drew Gantner
Sr. Aquatic Ecotoxicologist

This testing was performed under Lab Order 19187. The test results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report, and only relate to the sample(s) tested. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk.

3. RESULTS

3.1 Effects of Malaga Effluent on *Selenastrum capricornutum*

The results of this test are summarized below in Table 2. There was a mean cell density of 2,610,000 cells/mL in the Lab Control. There were ***no*** significant reductions in algal growth in any of the Malaga effluent treatments; the NOEC was 100% effluent, resulting in 1.0 TUc (where TUc = 100/NOEC). The IC_{25} was >100% effluent.

The test data and summary of statistical analyses for this test are presented in Appendix B.

Table 2. Effects of Malaga effluent on *Selenastrum capricornutum* growth.

Effluent Treatment	Mean Algal Cell Density (cells/mL x 10^6)
Lab Control	2.61
12.5%	3.50
25%	4.20
50%	3.92
75%	3.46
100%	2.94
Summary of Statistics	
No Observable Effect Concentration (NOEC) =	100% effluent
TUc (where TUc = 100/NOEC) =	1.0
IC_{25} =	>100% effluent
PMSD =	25.4%

4. SUMMARY AND CONCLUSIONS

Chronic Effects of Malaga Effluent on *Selenastrum capricornutum*
There were ***no*** significant reductions in algal growth in the Malaga effluent. The NOEC was 100% effluent, resulting in 1.0 TUc (where TUc = 100/NOEC).

Selenastrum Test Endpoint:	Algal Cell Density
NOEC	100% effluent
TUc (where TUc = 100/NOEC)	1.0

4.1 QA/QC Summary

Test Conditions – The test conditions (pH, D.O., temperature, etc.) were all within acceptable limits for the effluent test for *Selenastrum*. All analyses were performed according the laboratory Standard Operating Procedures.

Negative Control – The biological response for the test organism at the Control treatment was within an acceptable limit.

Positive Control – The results of the reference toxicant test were consistent with the reference toxicant databases, indicating that these test organisms were responding to toxic stress in a typical fashion.

Concentration Response Relationships – There was a valid concentration-response relationship for these tests (EPA821-B-00-004), which were determined to be acceptable for this testing.

PACIFIC ECORISK | ENVIRONMENTAL CONSULTING & TESTING

Tony Morales
Malaga Wastewater Treatment Facility
3580 S. Frank Street
Fresno, CA 93725-2511

April 24, 2012

Dear Mr. Morales:

I have enclosed two copies of our report "NPDES Compliance Chronic Toxicity Testing of the Malaga WTF Final Effluent: Accelerated Monitoring Test #2 with *Selenastrum capricornutum*" for testing performed on the effluent sample collected on March 13, 2012. The results of this test follow:

Chronic Effects of Malaga Effluent on *Selenastrum capricornutum*
There was a significant reduction in algal growth in the 100% Malaga effluent; the NOEC of 75% effluent resulted in 1.3 TUc (where TUc = 100/NOEC). The IC_{25} was 87% effluent.

If you have any questions regarding the performance and interpretation of this test, feel free to contact Stephen Clark or myself at (707) 207-7760.

Sincerely,

Drew Gantner

Digitally signed by Drew Gantner
DN: cn=Drew Gantner, o=Pacific EcoRisk, ou, email=dgantner@pacificecorisk.com, c=US
Date: 2012.04.25 09:19:40 -08'00'

Drew Gantner
Sr. Aquatic Ecotoxicologist

This testing was performed under Lab Order 19289. The test results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report, and only relate to the sample(s) tested. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk.

2250 Cordelia Road, Fairfield, CA 94534 *phone*: 707/207.7760 *fax*: 707.207.7916 *www.pacificecorisk.com*

3.1.1 Reference Toxicant Toxicity to *Selenastrum capricornutum*

The results of this test are summarized below in Table 3. There was a mean of 2,610,000 cells/mL at the Lab Control treatment. The IC_{50} was 1.3 g/L NaCl.

These reference toxicant test results are consistent with previous *Selenastrum* reference toxicant tests, indicating that these organisms were responding to toxic stress in a typical fashion.

The test data and summary of statistical analyses for this test are presented in Appendix C.

Table 3. Reference toxicant testing: effects of NaCl on *Selenastrum capricornutum* growth.

NaCl Treatment (g/L)	Mean Algal Cell Density (cells/mL x 10^6)
Lab Control	2.61
0.5	**2.23***
1	**1.60***
2	**0.652***
4	**0.377***
8	**0.016***
Summary of Statistics	
IC_{50} = 1.3 g/L NaCl	

* The response at this test treatment was significantly less than the Lab Control treatment response ($p < 0.05$).

4. SUMMARY AND CONCLUSIONS

Chronic Effects of Malaga Effluent on *Selenastrum capricornutum*
There was a significant reduction in algal growth in the 100% Malaga effluent. The NOEC was 75% effluent, resulting in 1.3 TUc (where TUc = 100/NOEC).

Selenastrum Test Endpoint:	Algal Cell Density
NOEC	75% effluent
TUc (where TUc = 100/NOEC)	1.3

4.1 QA/QC Summary

Test Conditions – The test conditions (pH, D.O., temperature, etc.) were all within acceptable limits for the effluent test for *Selenastrum*. All analyses were performed according the laboratory Standard Operating Procedures.

Negative Control – The biological response for the test organism at the Control treatment was within an acceptable limit.

Positive Control – The results of the reference toxicant test were consistent with the reference toxicant databases, indicating that these test organisms were responding to toxic stress in a typical fashion.

Concentration Response Relationships – There was a valid concentration-response relationship for these tests (EPA821-B-00-004), which were determined to be acceptable for this testing.

MOORE TWINING
ASSOCIATES, INC.

California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

December 03, 2012

Work Order #: 2I12026

Tony Morales
Malaga County Water District
3580 S. Frank
Fresno, CA 93725

RE: Malaga Sewer Plant

Enclosed are the analytical results for samples received by our laboratory on 09/12/12 . For your reference, these analyses have been assigned laboratory work order number 2I12026.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Julio Morales
Client Services Supervisor

Tertiary Eff
Hardness
9-12-12

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District	Project: Malaga Sewer Plant	
3580 S. Frank	Project Number: Analytical Services	**Reported:**
Fresno CA, 93725	Project Manager: Tony Morales	12/03/2012

Analytical Report for the Following Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tertiary Eff	2I12026-01	Waste Water	09/12/12 13:10	09/12/12 13:50

AMENDED REPORT:

Per client's request, Hardness is now reported. JCM 12/3/12

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Analytical Report for Work Order 2I12026

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Tertiary Eff									Sampled: 09/12/12 13:10 **2I12026-01 (Waste Water)**		
Total Dissolved Solids		**430**	10	8.1	mg/L	1	T2I1711	CMG	9/17/12 13:24	9/18/12 19:30	SM 2540C
Hardness (Total)		**140**	0.66		mg equiv. CaCO3/L	1	[CALC]	NMA	9/19/12 14:55	9/21/12 20:46	SM2340B
Chlorine Residual (In Lab Analysis)		ND	0.10	0.10	mg/L	1	T2I1216	MPA	9/12/12 18:43	9/12/12 18:45	SM4500-Cl F
pH		**7.9**	0.10	0.10	pH Units	1	T2I1305	DAR	9/13/12 16:35	9/13/12 16:35	SM4500-H B
Aluminum		**0.071**	0.050	0.0072	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Antimony		**0.0055**	0.0050	0.0014	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Arsenic	J	**0.0033**	0.010	0.0023	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Barium		**0.054**	0.010	0.00013	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Beryllium		ND	0.0010	0.00020	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Boron		**0.12**	0.050	0.00083	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Cadmium		ND	0.0010	0.00020	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Calcium		**33**	0.10	0.0076	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Chromium	J	**0.0019**	0.0050	0.00091	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Cobalt		ND	0.0020	0.00056	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Copper		**0.0087**	0.0050	0.00095	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Iron		**0.29**	0.10	0.017	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Lead	J	**0.0018**	0.0050	0.0014	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Magnesium		**15**	0.10	0.0091	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Manganese		**0.028**	0.0050	0.00017	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Molybdenum		**0.062**	0.0050	0.00075	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Nickel	J	**0.0035**	0.0050	0.00058	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Selenium		ND	0.020	0.0018	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Silver		ND	0.0050	0.0011	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Thallium	J	**0.0058**	0.020	0.0024	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Tin		ND	0.010	0.0014	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Titanium	J	**0.0021**	0.010	0.00059	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Zinc		**0.036**	0.0050	0.00080	mg/L	1	T2I1915	NMA	9/19/12 14:55	9/21/12 20:46	EPA 200.7
Mercury	J	**0.11**	0.20	0.062	µg/L	1	T2I1902	JTN	9/19/12 6:52	9/19/12 14:55	EPA 245.1

MOORE TWINING
ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District	Project: Malaga Sewer Plant	
3580 S. Frank	Project Number: Analytical Services	**Reported:**
Fresno CA, 93725	Project Manager: Tony Morales	12/03/2012

Notes and Definitions

MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
ug/L	micrograms per liter (parts per billion concentration units)
mg/L	milligrams per liter (parts per million concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
If the test was performed in the laboratory, the hold time was exceeded.

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1216 - SM4500-Cl F										
Blank (T2I1216-BLK1)					Prepared & Analyzed: 09/12/12					
Chlorine Residual (In Lab Analysis)		ND	0.10	mg/L						
Duplicate (T2I1216-DUP1)		**Source: 2I12026-01**			Prepared & Analyzed: 09/12/12					
Chlorine Residual (In Lab Analysis)		ND	0.10	mg/L		ND				20
Batch T2I1305 - SM4500-H B										
LCS (T2I1305-BS1)					Prepared & Analyzed: 09/13/12					
pH		6.98	0.10	pH Units	7.00		99.7	80-120		20
LCS (T2I1305-BS2)					Prepared & Analyzed: 09/13/12					
pH		6.99	0.10	pH Units	7.00		99.9	80-120		20
LCS Dup (T2I1305-BSD1)					Prepared & Analyzed: 09/13/12					
pH		6.98	0.10	pH Units	7.00		99.7	80-120	0.00	20
LCS Dup (T2I1305-BSD2)					Prepared & Analyzed: 09/13/12					
pH		6.99	0.10	pH Units	7.00		99.9	80-120	0.00	20
Duplicate (T2I1305-DUP1)		**Source: 2I07018-01**			Prepared & Analyzed: 09/13/12					
pH		7.18	0.10	pH Units		7.17			0.139	20
Duplicate (T2I1305-DUP2)		**Source: 2I10001-01**			Prepared & Analyzed: 09/13/12					
pH		7.75	0.10	pH Units		7.75			0.00	20
Duplicate (T2I1305-DUP3)		**Source: 2I12014-02**			Prepared & Analyzed: 09/13/12					
pH		7.52	0.10	pH Units		7.50			0.266	20
Duplicate (T2I1305-DUP4)		**Source: 2I12043-02**			Prepared & Analyzed: 09/13/12					
pH		9.90	0.10	pH Units		9.91			0.101	20
Batch T2I1711 - SM 2540C										
Blank (T2I1711-BLK1)					Prepared: 09/17/12 Analyzed: 09/18/12					
Total Dissolved Solids		ND	10	mg/L						
LCS (T2I1711-BS1)					Prepared: 09/17/12 Analyzed: 09/18/12					
Total Dissolved Solids		244	10	mg/L	240		101	80-120		20
LCS Dup (T2I1711-BSD1)					Prepared: 09/17/12 Analyzed: 09/18/12					
Total Dissolved Solids		244	10	mg/L	240		102	80-120	0.410	20
Duplicate (T2I1711-DUP1)		**Source: 2I12064-01**			Prepared: 09/17/12 Analyzed: 09/18/12					
Total Dissolved Solids		806	20	mg/L		798			0.998	20
Duplicate (T2I1711-DUP2)		**Source: 2I12064-06**			Prepared: 09/17/12 Analyzed: 09/18/12					
Total Dissolved Solids		216	10	mg/L		205			4.99	20

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1902 - EPA 245.1										
Blank (T2I1902-BLK1)					Prepared & Analyzed: 09/19/12					
Mercury		ND	0.20	µg/L						
LCS (T2I1902-BS1)					Prepared & Analyzed: 09/19/12					
Mercury		5.23	0.20	µg/L	5.00		105	80-120		20
LCS Dup (T2I1902-BSD1)					Prepared & Analyzed: 09/19/12					
Mercury		5.50	0.20	µg/L	5.00		110	80-120	5.00	20
Matrix Spike (T2I1902-MS1)		Source: 2I11002-01			Prepared & Analyzed: 09/19/12					
Mercury		5.31	0.20	µg/L	5.00	0.194	102	70-130		20
Matrix Spike (T2I1902-MS2)		Source: 2I13001-01			Prepared & Analyzed: 09/19/12					
Mercury		5.48	0.20	µg/L	5.00	ND	110	70-130		20
Matrix Spike Dup (T2I1902-MSD1)		Source: 2I11002-01			Prepared & Analyzed: 09/19/12					
Mercury		5.25	0.20	µg/L	5.00	0.194	101	70-130	1.14	20
Matrix Spike Dup (T2I1902-MSD2)		Source: 2I13001-01			Prepared & Analyzed: 09/19/12					
Mercury		5.65	0.20	µg/L	5.00	ND	113	70-130	3.15	20
Batch T2I1915 - EPA 200.7										
Blank (T2I1915-BLK1)					Prepared: 09/19/12 Analyzed: 09/21/12					
Iron		ND	0.10	mg/L						
Cadmium		ND	0.0010	"						
Molybdenum		ND	0.0050	"						
Arsenic		ND	0.010	"						
Calcium		ND	0.10	"						
Chromium		ND	0.0050	"						
Cobalt		ND	0.0020	"						
Magnesium		ND	0.10	"						
Thallium	J	0.0147	0.020	"						
Barium	J	0.00166	0.010	"						
Lead		ND	0.0050	"						
Nickel		ND	0.0050	"						
Manganese		ND	0.0050	"						
Antimony	J	0.00171	0.0050	"						
Boron	J	0.00704	0.050	"						
Selenium		ND	0.020	"						
Zinc	J	0.000942	0.0050	"						
Titanium		ND	0.010	"						
Tin		ND	0.010	"						

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District	Project: Malaga Sewer Plant	
3580 S. Frank	Project Number: Analytical Services	**Reported:**
Fresno CA, 93725	Project Manager: Tony Morales	12/03/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1915 - EPA 200.7										
Blank (T2I1915-BLK1)					Prepared: 09/19/12 Analyzed: 09/21/12					
Silver		ND	0.0050	"						
Copper		ND	0.0050	"						
Aluminum	J	0.0186	0.050	"						
Beryllium		ND	0.0010	"						
LCS (T2I1915-BS1)					Prepared: 09/19/12 Analyzed: 09/21/12					
Manganese		0.104	0.0050	mg/L	0.100		104	85-115		20
Magnesium		2.01	0.10	"	2.00		101	85-115		20
Lead		0.110	0.0050	"	0.100		110	85-115		20
Aluminum		1.02	0.050	"	1.00		102	85-115		20
Copper		0.102	0.0050	"	0.100		102	85-115		20
Cobalt		0.0419	0.0020	"	0.0400		105	85-115		20
Chromium		0.106	0.0050	"	0.100		106	85-115		20
Boron		1.01	0.050	"	1.00		101	85-115		20
Barium		0.197	0.010	"	0.200		98.4	85-115		20
Arsenic		0.212	0.010	"	0.200		106	85-115		20
Molybdenum		0.105	0.0050	"	0.100		105	85-115		20
Calcium		2.10	0.10	"	2.00		105	85-115		20
Beryllium		0.0190	0.0010	"	0.0200		95.0	85-115		20
Cadmium		0.0223	0.0010	"	0.0200		112	85-115		20
Antimony		0.107	0.0050	"	0.100		107	85-115		20
Silver		0.103	0.0050	"	0.100		103	85-115		20
Iron		2.10	0.10	"	2.00		105	85-115		20
Tin		0.430	0.010	"	0.400		108	85-115		20
Titanium		0.208	0.010	"	0.200		104	85-115		20
Nickel		0.109	0.0050	"	0.100		109	85-115		20
Selenium		0.426	0.020	"	0.400		107	85-115		20
Zinc		0.111	0.0050	"	0.100		111	85-115		20
Thallium		0.400	0.020	"	0.400		99.9	85-115		20
LCS Dup (T2I1915-BSD1)					Prepared: 09/19/12 Analyzed: 09/21/12					
Thallium		0.396	0.020	mg/L	0.400		99.0	85-115	0.946	20
Iron		2.10	0.10	"	2.00		105	85-115	0.0257	20
Aluminum		1.03	0.050	"	1.00		103	85-115	1.62	20
Cobalt		0.0417	0.0020	"	0.0400		104	85-115	0.527	20
Lead		0.111	0.0050	"	0.100		111	85-115	0.943	20
Copper		0.102	0.0050	"	0.100		102	85-115	0.169	20

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1915 - EPA 200.7										
LCS Dup (T2I1915-BSD1)					Prepared: 09/19/12 Analyzed: 09/21/12					
Antimony		0.106	0.0050	"	0.100		106	85-115	0.518	20
Beryllium		0.0193	0.0010	"	0.0200		96.5	85-115	1.57	20
Selenium		0.429	0.020	"	0.400		107	85-115	0.659	20
Barium		0.198	0.010	"	0.200		99.0	85-115	0.596	20
Arsenic		0.212	0.010	"	0.200		106	85-115	0.0349	20
Boron		1.00	0.050	"	1.00		100	85-115	1.06	20
Cadmium		0.0222	0.0010	"	0.0200		111	85-115	0.552	20
Calcium		2.12	0.10	"	2.00		106	85-115	1.07	20
Chromium		0.107	0.0050	"	0.100		107	85-115	0.708	20
Silver		0.104	0.0050	"	0.100		104	85-115	1.62	20
Molybdenum		0.107	0.0050	"	0.100		107	85-115	1.75	20
Titanium		0.207	0.010	"	0.200		104	85-115	0.341	20
Nickel		0.110	0.0050	"	0.100		110	85-115	0.971	20
Zinc		0.112	0.0050	"	0.100		112	85-115	1.07	20
Tin		0.427	0.010	"	0.400		107	85-115	0.846	20
Magnesium		2.01	0.10	"	2.00		100	85-115	0.239	20
Manganese		0.104	0.0050	"	0.100		104	85-115	0.0959	20
Matrix Spike (T2I1915-MS1)		**Source: 2I11017-03**			Prepared: 09/19/12 Analyzed: 09/21/12					
Beryllium		0.0393	0.0020	mg/L	0.0400	ND	98.3	70-130		20
Titanium		0.398	0.020	"	0.400	0.0285	92.4	70-130		20
Selenium		0.841	0.040	"	0.800	0.00457	104	70-130		20
Barium		0.462	0.020	"	0.400	0.0802	95.5	70-130		20
Manganese		0.232	0.010	"	0.200	0.0273	103	70-130		20
Iron		4.82	0.20	"	4.00	0.976	96.1	70-130		20
Molybdenum		0.215	0.010	"	0.200	0.00600	105	70-130		20
Cadmium		0.0433	0.0020	"	0.0400	0.000533	107	70-130		20
Nickel		0.223	0.010	"	0.200	0.00484	109	70-130		20
Chromium		0.216	0.010	"	0.200	0.00223	107	70-130		20
Arsenic		0.422	0.020	"	0.400	ND	106	70-130		20
Aluminum		3.41	0.10	"	2.00	1.22	110	70-130		20
Copper		0.246	0.010	"	0.200	0.0471	99.7	70-130		20
Thallium		0.755	0.040	"	0.800	0.0127	92.8	70-130		20
Antimony		0.208	0.010	"	0.200	ND	104	70-130		20
Tin	MS3	0.331	0.020	"	0.800	ND	41.4	70-130		20
Silver		0.203	0.010	"	0.200	0.00296	99.8	70-130		20

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1915 - EPA 200.7										
Matrix Spike (T2I1915-MS1)		**Source: 2I11017-03**		Prepared: 09/19/12 Analyzed: 09/21/12						
Boron		2.17	0.10	"	2.00	0.191	99.2	70-130		20
Cobalt		0.0833	0.0040	"	0.0800	ND	104	70-130		20
Zinc		0.397	0.010	"	0.200	0.212	92.3	70-130		20
Lead		0.226	0.010	"	0.200	0.00723	110	70-130		20
Matrix Spike (T2I1915-MS2)		**Source: 2I12014-03**		Prepared: 09/19/12 Analyzed: 09/21/12						
Thallium		1.93	0.10	mg/L	2.00	0.0142	95.9	70-130		20
Zinc		0.597	0.025	"	0.500	0.0436	111	70-130		20
Arsenic		1.07	0.050	"	1.00	ND	107	70-130		20
Aluminum		5.39	0.25	"	5.00	0.0829	106	70-130		20
Tin		2.19	0.050	"	2.00	ND	109	70-130		20
Antimony		0.526	0.025	"	0.500	0.0128	103	70-130		20
Titanium		1.05	0.050	"	1.00	ND	105	70-130		20
Iron		10.6	0.50	"	10.0	ND	106	70-130		20
Cadmium		0.111	0.0050	"	0.100	ND	111	70-130		20
Chromium		0.536	0.025	"	0.500	ND	107	70-130		20
Beryllium		0.0984	0.0050	"	0.100	ND	98.4	70-130		20
Selenium		2.12	0.10	"	2.00	ND	106	70-130		20
Barium		0.989	0.050	"	1.00	0.0141	97.5	70-130		20
Boron		5.13	0.25	"	5.00	0.103	101	70-130		20
Silver		0.500	0.025	"	0.500	ND	100	70-130		20
Manganese		0.524	0.025	"	0.500	ND	105	70-130		20
Copper		0.529	0.025	"	0.500	0.00948	104	70-130		20
Molybdenum		0.540	0.025	"	0.500	0.00809	106	70-130		20
Cobalt		0.208	0.010	"	0.200	ND	104	70-130		20
Nickel		0.549	0.025	"	0.500	ND	110	70-130		20
Lead		0.559	0.025	"	0.500	ND	112	70-130		20
Matrix Spike Dup (T2I1915-MSD1)		**Source: 2I11017-03**		Prepared: 09/19/12 Analyzed: 09/21/12						
Silver		0.202	0.010	mg/L	0.200	0.00296	99.6	70-130	0.234	20
Beryllium		0.0392	0.0020	"	0.0400	ND	98.1	70-130	0.286	20
Copper		0.256	0.010	"	0.200	0.0471	105	70-130	3.90	20
Thallium		0.789	0.040	"	0.800	0.0127	97.1	70-130	4.42	20
Chromium		0.214	0.010	"	0.200	0.00223	106	70-130	0.846	20
Iron		4.74	0.20	"	4.00	0.976	94.2	70-130	1.64	20
Cadmium		0.0437	0.0020	"	0.0400	0.000533	108	70-130	0.866	20
Boron		2.22	0.10	"	2.00	0.191	101	70-130	1.84	20

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
3580 S. Frank
Fresno CA, 93725

Project: Malaga Sewer Plant
Project Number: Analytical Services
Project Manager: Tony Morales

Reported:
12/03/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2I1915 - EPA 200.7										
Matrix Spike Dup (T2I1915-MSD1)		**Source: 2I11017-03**			Prepared: 09/19/12 Analyzed: 09/21/12					
Lead		0.228	0.010	"	0.200	0.00723	110	70-130	0.617	20
Zinc		0.387	0.010	"	0.200	0.212	87.6	70-130	2.42	20
Cobalt		0.0828	0.0040	"	0.0800	ND	103	70-130	0.571	20
Molybdenum		0.215	0.010	"	0.200	0.00600	105	70-130	0.0323	20
Manganese		0.230	0.010	"	0.200	0.0273	101	70-130	1.14	20
Antimony		0.210	0.010	"	0.200	ND	105	70-130	0.687	20
Nickel		0.220	0.010	"	0.200	0.00484	108	70-130	1.17	20
Barium		0.462	0.020	"	0.400	0.0802	95.4	70-130	0.0287	20
Tin	MS3	0.326	0.020	"	0.800	ND	40.7	70-130	1.59	20
Arsenic		0.420	0.020	"	0.400	ND	105	70-130	0.424	20
Aluminum		3.38	0.10	"	2.00	1.22	108	70-130	1.09	20
Selenium		0.826	0.040	"	0.800	0.00457	103	70-130	1.70	20
Titanium		0.390	0.020	"	0.400	0.0285	90.4	70-130	2.04	20
Matrix Spike Dup (T2I1915-MSD2)		**Source: 2I12014-03**			Prepared: 09/19/12 Analyzed: 09/21/12					
Silver		0.503	0.025	mg/L	0.500	ND	101	70-130	0.462	20
Lead		0.555	0.025	"	0.500	ND	111	70-130	0.780	20
Titanium		1.06	0.050	"	1.00	ND	106	70-130	0.410	20
Selenium		2.12	0.10	"	2.00	ND	106	70-130	0.365	20
Iron		10.7	0.50	"	10.0	ND	107	70-130	0.0817	20
Antimony		0.531	0.025	"	0.500	0.0128	104	70-130	0.962	20
Manganese		0.523	0.025	"	0.500	ND	105	70-130	0.0822	20
Cobalt		0.208	0.010	"	0.200	ND	104	70-130	0.00663	20
Molybdenum		0.532	0.025	"	0.500	0.00809	105	70-130	1.45	20
Nickel		0.540	0.025	"	0.500	ND	108	70-130	1.59	20
Beryllium		0.0989	0.0050	"	0.100	ND	98.9	70-130	0.496	20
Cadmium		0.110	0.0050	"	0.100	ND	110	70-130	0.797	20
Arsenic		1.06	0.050	"	1.00	ND	106	70-130	1.17	20
Tin		2.19	0.050	"	2.00	ND	109	70-130	0.186	20
Boron		5.14	0.25	"	5.00	0.103	101	70-130	0.0917	20
Aluminum		5.41	0.25	"	5.00	0.0829	107	70-130	0.386	20
Chromium		0.530	0.025	"	0.500	ND	106	70-130	1.27	20
Zinc		0.588	0.025	"	0.500	0.0436	109	70-130	1.55	20
Thallium		1.92	0.10	"	2.00	0.0142	95.5	70-130	0.455	20
Copper		0.531	0.025	"	0.500	0.00948	104	70-130	0.403	20
Barium		0.992	0.050	"	1.00	0.0141	97.8	70-130	0.341	20

Date of Report: 09/26/2012

Julio Morales

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Project: Water Samples
BC Work Order: 1217401
Invoice ID: B130605

Enclosed are the results of analyses for samples received by the laboratory on 9/13/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information
Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 5
Sample Results
1217401-01 - 2I12026-01 Tertiary Eff
Organo-Phosphorus Pesticide Analysis (EPA Method 8141) 6
Quality Control Reports
Organo-Phosphorus Pesticide Analysis (EPA Method 8141)
Method Blank Analysis 7
Laboratory Control Sample 8
Precision and Accuracy 9
Notes
Notes and Definitions 10

MOORE TWINING **SUBCONTRACT ORDER - Purchase Order # 15744**

California ELAP Certification # 1371

MTA Project # 2I12026

Please reference these numbers on all reports and invoices:

12-17401 **We also request QC data be provided with final report.**

SENDING LABORATORY:	RECEIVING LABORATORY:
Moore Twining Associates, Inc.	BC Laboratories, Inc.
2527 Fresno Street	4100 Atlas Court
Fresno, CA 93721	Bakersfield, CA 93308
Phone: (559) 268-7021	Phone :(800) 878-4911
Fax: (559) 268-0740	Fax: (661) 327-1918
Project Manager: Julio Morales	

Sample Comments

Client Sample ID#: Tertiary Eff

MTA Sample ID: 2I12026-01 Matrix: Water Sampled: 09/12/12 13:10 Report Due to Client: 09/26/12

Requested Analysis: 8141A (Sub) Holding time expires: 09/19/12 13:10

Containers Supplied:

1L Amber Glass
Unpreserved (B)

CHK BY DISTRIBUTION
SUB-OUT

Released By	Date	Received By	Date
[signature]	9/12/12	Maria Mayorga	9/13/12 1000

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740 Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party intemretation.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1217401 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-17401

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☐ None ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO	Box ☒ Other ☐ (Specify)

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 8oz. pe Thermometer ID: 207 Date/Time 9/13/12

Temperature: (A) 5.6 °C / (C) 5.8 °C Analyst Init MAM 10:00

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	A									
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

omments:
ample Numbering Completed By: KIQ Date/Time: 9-13-12 1650
= Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMRECR13]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Moore-Twining Associates 2527 Fresno Street Fresno, CA 93716	Reported: 09/26/2012 9:19 Project: Water Samples Project Number: 2I12026 Project Manager: Julio Morales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1217401-01	COC Number:	---	Receive Date:	09/13/2012 10:00
	Project Number:	---	Sampling Date:	09/12/2012 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	2I12026-01 Tertiary Eff	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 09/26/2012 9:19
Project: Water Samples
Project Number: 2I12026
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

BCL Sample ID: 1217401-01 | Client Sample Name: 2I12026-01 Tertiary Eff, 9/12/2012 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Azinphos methyl	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Bolstar	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Chlorpyrifos	ND	ug/L	0.20	0.024	EPA-8141	ND		1
Coumaphos	**0.070**	**ug/L**	**0.20**	**0.054**	**EPA-8141**	ND	J	1
Demeton O/S	ND	ug/L	0.20	0.026	EPA-8141	ND		1
Diazinon	ND	ug/L	0.20	0.044	EPA-8141	ND		1
Dichlorvos	ND	ug/L	0.20	0.070	EPA-8141	ND		1
Disulfoton	ND	ug/L	0.50	0.039	EPA-8141	ND		1
Ethoprop	ND	ug/L	0.20	0.025	EPA-8141	ND		1
Fensulfothion	ND	ug/L	0.20	0.088	EPA-8141	ND		1
Fenthion	ND	ug/L	0.20	0.033	EPA-8141	ND		1
Merphos	ND	ug/L	0.20	0.058	EPA-8141	ND		1
Methyl parathion	ND	ug/L	0.20	0.074	EPA-8141	ND		1
Mevinphos	ND	ug/L	0.20	0.053	EPA-8141	ND		1
Naled	ND	ug/L	0.20	0.072	EPA-8141	ND		1
Phorate	ND	ug/L	0.20	0.041	EPA-8141	ND		1
Ronnel (Fenchlorphos)	ND	ug/L	0.20	0.067	EPA-8141	ND		1
Stirophos (Tetrachlorvinphos)	ND	ug/L	0.20	0.046	EPA-8141	ND		1
Tokuthion (Prothiofos)	ND	ug/L	0.20	0.032	EPA-8141	ND		1
Trichloronate	ND	ug/L	0.20	0.038	EPA-8141	ND		1
Triphenylphosphate (Surrogate)	84.6	%	50 - 140 (LCL - UCL)		EPA-8141			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8141	09/17/12	09/25/12 06:07	MK1	GC-7	1	BVI1853

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 09/26/2012 9:19
Project: Water Samples
Project Number: 2I12026
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI1853						
Azinphos methyl	BVI1853-BLK1	ND	ug/L	0.20	0.055	
Bolstar	BVI1853-BLK1	ND	ug/L	0.20	0.055	
Chlorpyrifos	BVI1853-BLK1	ND	ug/L	0.20	0.024	
Coumaphos	BVI1853-BLK1	ND	ug/L	0.20	0.054	
Demeton O/S	BVI1853-BLK1	ND	ug/L	0.20	0.026	
Diazinon	BVI1853-BLK1	ND	ug/L	0.20	0.044	
Dichlorvos	BVI1853-BLK1	ND	ug/L	0.20	0.070	
Disulfoton	BVI1853-BLK1	ND	ug/L	0.50	0.039	
Ethoprop	BVI1853-BLK1	ND	ug/L	0.20	0.025	
Fensulfothion	BVI1853-BLK1	ND	ug/L	0.20	0.088	
Fenthion	BVI1853-BLK1	ND	ug/L	0.20	0.033	
Merphos	BVI1853-BLK1	ND	ug/L	0.20	0.058	
Methyl parathion	BVI1853-BLK1	ND	ug/L	0.20	0.074	
Mevinphos	BVI1853-BLK1	ND	ug/L	0.20	0.053	
Naled	BVI1853-BLK1	ND	ug/L	0.20	0.072	
Phorate	BVI1853-BLK1	ND	ug/L	0.20	0.041	
Ronnel (Fenchlorphos)	BVI1853-BLK1	ND	ug/L	0.20	0.067	
Stirophos (Tetrachlorvinphos)	BVI1853-BLK1	ND	ug/L	0.20	0.046	
Tokuthion (Prothiofos)	BVI1853-BLK1	ND	ug/L	0.20	0.032	
Trichloronate	BVI1853-BLK1	ND	ug/L	0.20	0.038	
Triphenylphosphate (Surrogate)	BVI1853-BLK1	101	%	50 - 140 (LCL - UCL)		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 09/26/2012 9:19
Project: Water Samples
Project Number: 2I12026
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVI1853										
Bolstar	BVI1853-BS1	LCS	1.0450	0.80000	ug/L	131		50 - 130		L01
Chlorpyrifos	BVI1853-BS1	LCS	0.88500	0.80000	ug/L	111		60 - 120		
Diazinon	BVI1853-BS1	LCS	0.89500	0.80000	ug/L	112		60 - 130		
Methyl parathion	BVI1853-BS1	LCS	0.89500	0.80000	ug/L	112		60 - 120		
Mevinphos	BVI1853-BS1	LCS	0.79000	0.80000	ug/L	98.8		50 - 150		
Ronnel (Fenchlorphos)	BVI1853-BS1	LCS	0.82000	0.80000	ug/L	102		60 - 120		
Stirophos (Tetrachlorvinphos)	BVI1853-BS1	LCS	0.90000	0.80000	ug/L	112		50 - 120		
Triphenylphosphate (Surrogate)	BVI1853-BS1	LCS	2.7500	2.5000	ug/L	110		50 - 140		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 09/26/2012 9:19
Project: Water Samples
Project Number: 2I12026
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVI1853	Used client sample: N										
Bolstar	MS	1216377-52	ND	0.99000	0.80000	ug/L		124		60 - 120	Q03
	MSD	1216377-52	ND	0.95500	0.80000	ug/L	3.6	119	30	60 - 120	
Chlorpyrifos	MS	1216377-52	ND	0.84500	0.80000	ug/L		106		60 - 120	
	MSD	1216377-52	ND	0.78000	0.80000	ug/L	8.0	97.5	30	60 - 120	
Diazinon	MS	1216377-52	ND	0.85000	0.80000	ug/L		106		60 - 130	
	MSD	1216377-52	ND	0.79000	0.80000	ug/L	7.3	98.8	30	60 - 130	
Methyl parathion	MS	1216377-52	ND	0.85000	0.80000	ug/L		106		60 - 120	
	MSD	1216377-52	ND	0.77000	0.80000	ug/L	9.9	96.2	30	60 - 120	
Mevinphos	MS	1216377-52	ND	0.79000	0.80000	ug/L		98.8		50 - 150	
	MSD	1216377-52	ND	0.73500	0.80000	ug/L	7.2	91.9	30	50 - 150	
Ronnel (Fenchlorphos)	MS	1216377-52	ND	0.76500	0.80000	ug/L		95.6		60 - 120	
	MSD	1216377-52	ND	0.69500	0.80000	ug/L	9.6	86.9	30	60 - 120	
Stirophos (Tetrachlorvinphos)	MS	1216377-52	ND	0.94500	0.80000	ug/L		118		50 - 120	
	MSD	1216377-52	ND	0.83500	0.80000	ug/L	12.4	104	30	50 - 120	
Triphenylphosphate (Surrogate)	MS	1216377-52	ND	2.6250	2.5000	ug/L		105		50 - 140	
	MSD	1216377-52	ND	2.3650	2.5000	ug/L	10.4	94.6		50 - 140	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Moore-Twining Associates 2527 Fresno Street Fresno, CA 93716	**Reported:** 09/26/2012 9:19 Project: Water Samples Project Number: 2I12026 Project Manager: Julio Morales

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Moore Twining Associates, Inc.

Sample Integrity Page 2 of 3 WO# 2112026 Date Received: 9/12/12

Section 1-Sampled Same Day

Sample Transport: Walk In MTA Courier Transported In: Ice Chest Box Hand

Has Chilling Begun? Yes No

Section 2-Sampled Previously

Sample Transport: Walk-in UPS GSO Fed Ex MTA Courier Other:_____

No. Coolers/Ice Chests:_____ Temperature(s):_____

Was Temperature In Range: Y or N Received On Ice: Wet Blue

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Were ice chest custody seals present? Y or N Intact? Y or N

Section 3-COC Info.

	Completed				Completed	
	Yes	No			Yes	No
Was COC Received	X		Analysis Requested		X	
Date Sampled	X		Any hold times less than 72hr		X	
Time Sampled	X		Client Name		X	
Sample ID	X		Address		X	
Special Storage/Handling Ins.		X	Telephone #		X	

Section 4-Bottles/Analysis

	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?	X			
Were bottle custody seals present?		X		
Were bottle custody seals intact?		X		
Did all bottle labels agree with COC?	X			
Were correct containers used for the tests requested?	X			
Was sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials? (Volatiles Methods Only)			X	
Were Ascorbic Acid Bottles Received with VOAs?			X	

Section 5-Comment/Discrepancies

Sample(s) Split/Preserve: Yes or No Container:_____ Preservation:_____ Initials:_____

Filtered: Yes No Container:_____ Preservation:_____ Initials:_____

Was Client Service Supervisor notified of discrepancies: Yes or No N/A Notified by:_____

Explanations/Comments:

Labeled by:_____ Checked by:_____

FL-SC-0003-02

MOORE TWINING ASSOCIATES, INC.

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 2F12026
PAGE 1 OF 3

REPORT TO:
CONTACT: FRANK CRUZ
COMPANY: Malaga County Water District
ADDRESS: 3580 S. FRANK
Fresno, CA 93725
PHONE: (559) 485-7353
FAX: (559) 495-1070

☐ INVOICE TO:

☐ REPORT COPY TO:
CONTACT: Laurie Cortez
COMPANY: Malaga County Water District
ADDRESS: 3580 S. Frank
Fresno, CA 93725
PHONE: (559) 485-7353
FAX: (559) 485-7319

REPORTING:
☐ STANDARD PRINTED REPORT
☐ WRITE-ON (STATE FORM)
☐ GEOTRACKER/COELT (LUFT)
☐ PDF ☐ SPREADSHEET
☐ County DHS:
☐ Environmental Health Agency:
☐ OTHER:

SAMPLE INFORMATION
SAMPLED BY (PRINT): Burt Sivering
SIGNATURE:
☒ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ SPECIAL
TURN AROUND TIME: ☐ RUSH, DUE ON:
☒ STANDARD

SAMPLE TYPES:
SOLID:
BS - BIOSOLID
CR - CERAMIC
SL - SOIL/SOLID
LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW - WASTE WATER
G - GRAB, C - COMPOSITE

PROJECT INFORMATION
CONTRACT/P.O. NO.:
PROJECT: Malaga Wastewater plant
PROJECT NUMBER:
PROJECT MANAGER:

LAB USE
NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

ANALYSIS REQUESTED

	CLIENT SAMPLE ID	DATE	TIME	TYPE	AMMONIA	CHLORINE	SURFACTANTS	ORGANOPHOSPHATE PESTICIDES	METALS	TDS	pH				LAB USE
1	TERTIARY EFF	9-12-12	1:10	WW	X	X	X	X	X	X	X				

COMMENTS/ADDITIONAL INSTRUCTIONS:
⊗ Ammonia & Surfactants will be ~~analyzed~~ sampled on a later date. ⊗ Sample volume received was limited for analyses requested
JCM 9/12/12

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Burt	(Malaga Co. Water Dist.)	9-12-12	1350		

Moore Twining Associates, Inc.

Sample Integrity Page 3 of 3 WO# 2i12026 MTA Bottles: Yes or No

Plastic 125mL (A) Plastic 250mL (B) Plastic 1L (C) Amber Glass (AG)

Sample(s) Received	1										
Bacti 100mL Thiosulfate											
None Preserved Plastic	16										
HNO3 Plastic	K										
H2SO4 Plastic											
NaOH Plastic											
300mL DO Bottle											
Other											
Client Own											
1L Plastic NaOH/ZnAc											
250mL (AG) None											
250mL (AG) H2SO4											
250mL (AG) Thio 547, 548											
250mL (AG) Other											
500mL Clear Glass None											
1L (AG) None	16										
1L (AG) HCl											
1L (AG) Thio 525, 515											
40mL (AG VOA) Thio + K Citrate 531.2											
40mL VOA Vial - HCl											
40mL VOA Vial - None											
40mL VOA Vial - H3PO4											
40mL VOA Vial (AG) - thio (THM)											
40mL VOA Vial - Na2SO3 (thio)											
Soil Jar Clear Glass 125mL 250mL 500mL											
THM 40mL VOA None											
Plastic Bag											
Soil Tube											
Tedlar Bags											
Asbestos 1L Plastic											
Gross Alpha/Beta 1L HNO3 each											
Radiological 226/228 1L HNO3 each											
Radon											
Low Level Hg/Metals Double Bag											

FL-SC-0003-02 b