



MALAGA COUNTY WATER DISTRICT

3580 SOUTH FRANK STREET - FRESNO, CALIFORNIA 93725
PHONE (559) 485-7353 - FAX (559) 485-7319

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January 28, 2013

US Environmental Protection Agency, Region 9
Biosolids Coordinator, Clean Water Act Compliance Office
75 Hawthorne Street
San Francisco, CA 94105

RECEIVED

JAN 30 2013

RWQCB-CVR
FRESNO, CALIF.

Attention: Ms. Lauren Fondahl

Re: Malaga County Water District
Annual Biosolids Reports

Dear Ms. Fondahl:

Please see the annual biosolids report for 2012. The EPA spreadsheets for annual review are attached. The District contracted for testing of the dried sludge in July 2012, however the sludge concentrations of Copper and Chromium did not allow for immediate disposal. The District is pursuing acceptable disposal alternatives. The District has not disposed of sludge during this period. The sludge has been held in storage at the site and has continued to dry.

Please note that this correspondence also includes analytical results of samples of the sludge routed to the sludge drying beds. The concentrations of constituents from this sample were not incorporated into the spreadsheets attached, as it is not representative of the sludge that may be disposed of at this time.

Please contact me if you need additional information.

Respectfully,

Russ Holcomb
General Manager

MONITORING REPORT REVIEW

Engineer _____

Compliance Yes no

Date Reviewed _____

cc: Regional Water Quality Control Board
Attention: Mr. Warren Gross
1685 E. Street
Fresno, CA 93706

Provost & Pritchard Engineering Group, Michael Taylor

Website: www.malagacwd.org

General Facility Information		2012
Please type information into the cells below.		
Permit No. (NPDES permit if applicable)	NPDES Permit No. CA 0084239	
Facility Name	Malaga County Water District	
Authority Name	Russ Holcomb, General Manager	
Regional Board Number (California only)	Region 5	
Facility Physical Address		
Street	3749 S. Maple Ave	
City	Fresno	
County	Fresno	
State or Tribal Nation	CA	
Zip Code	93725	
Phone	559-264-0307	
Facility Mailing Address		
Street	3580 S. Frank Street	
City	Fresno	
State	CA	
Zip Code	93725	
Responsible Official		
Name	Russ Holcomb	
Title	General Manager	
Biosolids Contact Person		
Name	Russ Holcomb	
Title	General Manager	
E-mail	rholcomb@malagacwd.org	
Phone	559-485-7353	
Fax	559-485-7319	
Average Daily Influent Flow to plant, millions of gallons per day (MGD) (if this is a wastewater treatment plant)	0.618	
Annual biosolids production, in dry metric tons per year (DMTY), 100% dry weight basis	approximately 100 tons/yr	
Does this facility have a design capacity equal to or greater than 1 million gallons per day (MGD)? (Y/N)	Y	
Is Pretreatment Required? (Y/N)	Y	
Is this a "sludge-only" facility (no treatment of wastewater)? (Y/N)	N	
Does the facility send biosolids out of county? (Y/N). If so, list counties to which sent (one entry per column), and volume (DMTY) sent.	N	

Description of processes

Give a brief description of your sewage sludge treatment and use/disposal practices

Sludge in the WWTP is collected and pumped to two (2) aerobic digesters. The facility then moves the sludge to a sludge thickener. Sludge is drained from the sludge thickener to three (3) lined sludge drying beds. Dried sludge is stored on site until the District contracts for hauling and disposal.

Describe any changes to your operations, any unique features or operational issues encountered during past year

No changes to the operation.

Describe any instances of non-compliance and measures taken to correct it.

The sludge had high levels of Chromium and Copper.

The District intends to proceed with more frequent hauling of the sludge for disposal so that the concentrations of metals do not reach hazardous

concentrations.

Please enter the calendar date when the location data were collected, in mm/dd/yyyy format in the cell to the right (if the date is not known, please type UNKNOWN):

Contractors	
Please include all contractors used for biosolids land application, treatment, disposal, and hauling this year. (Add additional rows if	
	Please type information into this column.
Contractor 1	
Name	N/A for 2012
Street	
City	
State	
County of Operations	
Zip Code	
Contact Name	
Contact Phone	
Contact e-mail	
Type of operation(s)	
Dry metric tons handled	
Contractor 2	
Name	
Street	
City	
State	
County of Operations	
Zip Code	
Contact Name	
Contact Phone	
Contact e-mail	
Type of operation(s)	
Dry metric tons handled	
Contractor 3	
Name	
Street	
City	
State	
County of Operations	
Zip Code	
Contact Name	
Contact Phone	
Contact e-mail	
Type of operation(s)	

BIOSOLIDS TREATMENT PROVIDED

For each treatment type, please indicate which method(s) your facility uses to treat its solids. For example, if three anaerobic digesters are used, enter the code for anaerobic digesters followed by the number three in parentheses. The number entered will look like 6(3). If more than one method is used for each process, please separate the codes with commas. For example, if 3 digesters, 2 centrifuges, and 10 drying beds are being used, enter 6(3), 18(10), 21(2).

Type the thickening code(s) into the box below:

THICKENING

1(1)

Codes to use for thickening:

- 1. Gravity
- 2. Dissolved-Air Flotation (DAF)
- 3. Centrifuge (enter number of centrifuges in use)
- 4. Other (briefly describe in the cell to the right of the "Thickening" code box)

Type the stabilization code(s) into the box below:

Stabilization/Pathogen Reduction

Codes to use for stabilization:

- 5. Aerobic Digestion
- 6. Thermophilic aerobic digestion
- 7. Anaerobic Digestion
- 8. Thermophilic anaerobic digestion
- 9. Pasteurization
- 10. Chemical (Alkali) Stabilization
- 11. Composting
- 12. Other (briefly describe in the cell to the right of the "Stabilization" code box)

Type the conditioning code(s) into the box below:

CONDITIONING

Codes to use for conditioning:

- 13. Chemical Conditioning (add type of polymer to right of code box)
- 14. Other (briefly describe in the cell to the right of the "Conditioning" code box)

Type dewatering code(s) into the box below:

DEWATERING

18(3)

Codes to use for dewatering:

- 15. Vacuum Filter
- 16. Pressure Filter
- 17. Belt Filter
- 18. Drying Beds
- 19. Drying Lagoon
- 20. Heat Drying Units
- 21. Centrifuge
- 22. Other (briefly describe in the cell to the right of the "Dewatering" code box)

Type other applicable code(s) into the box below:

OTHER

Codes to use for "other":

- 23. Wastewater Lagoon
- 24. Oxidation Ditch
- 25. Incineration
- 26. Fuel (briefly describe in cell to the right of the "other" code box)
- 27. Septage
- 28. Other (briefly describe in the cell to the right of the "Other" code box)

Final Use and Disposal Practices

Total Annual Production	Please type amount in the cell below. Weight units must be Dry Metric Tons (DMT), 100% dry weight basis. Composters specify biosolids received in this column
	approximately 100 tons

Land application is spreading or injection of Class A or Class B biosolids, or materials derived from biosolids, for the purpose of growing crops or vegetation.

Land Application of Class B biosolids:	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
	N/A for 2012
Agricultural Land	N/A for 2012
Range Land	N/A for 2012
Forest	N/A for 2012
Public Contact Site	N/A for 2012
Reclamation Site	N/A for 2012
Land Application of Class A biosolids:	
Agricultural Land	N/A for 2012
Range Land	N/A for 2012
Forest	N/A for 2012
Public Contact Site	N/A for 2012
Reclamation Site	N/A for 2012
Sold or Given Away	N/A for 2012
Lawn or Garden	N/A for 2012

Surface disposal is spreading, injection, or filling for the purpose of disposal. It includes sludge-only units at landfills.

SURFACE DISPOSAL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons for the Year (DMTY).
	N/A for 2012
With Liner & LCS	N/A for 2012
Without Liner & LCS	N/A for 2012

LANDFILL	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
	N/A for 2012
Landfill Disposal	N/A for 2012
Landfill Cover (ADC or final)	N/A for 2012
Landfill Name	N/A for 2012
Does Landfill meet 40CFR258? (Y/N)	N/A for 2012

RECEIVED FROM ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons per year (DMTY).
	Total volume received:
Amount Received From Other Facilities	N/A for 2012
Name of facility (fill out a column for each facility)	
Address of facility	
Type of facility (POTW, other)	

TRANSFERRED TO ANOTHER FACILITY	Please type amounts in the cells below, to the right of each applicable method. Weight units must be Dry Metric Tons (DMT).
	Total volume transferred:
Amount Transferred To Other Facilities	N/A for 2012
Name of the other facility	
Address of facility	
Type of facility (POTW, composter, other)	

LAND APPLICATION SITE INFORMATION

If your facility or a contractor applies biosolids to the land, please enter the requested information in this sheet. Please copy this sheet and fill it in for each individual field.

Please type information in the cells below.

Site Name	
Site Number (Field Identification Number)	
Hydrologic Unit (if known)	
Owner	
Grower	
Applier	
Latitude	
Longitude	
Street Address (if applicable)	
Township	
Range	
Section	
Overall size of the field	
Applied area of the field	
Crop	
Maximum Rate (MT/HA)	
Cumulative Load Required? (Y/N)	
Notification Required? (Y/N)	

Please enter either English or Metric Units for the items below.	English Units		Metric Units	
	Value	Unit	Value	Unit
Application Rate		tons/acre		MT/ha
Recommended N for Crop		lbs/acre		Kg/ha
Plant Available N (PAN)		lbs/dry ton		Kg/metric ton
Total Biosolids Applied		dry tons		dry metric tons
Actual Application Rate		dry tons/acre		dry metric tons/ha
Target Application Rate		dry tons/acre		dry metric tons/ha
Total Recommended N		lbs/acre		Kg/ha
Total Applied N		lbs/field		Kg/field
Percent of Recommended N		%		%
P Applied		lbs/field		Kg/field
K Applied		lbs/field		Kg/field

Dates of Operation	Start Date	Finish Date
Dates of Application		
Dates of Seeding		
Dates of Harvesting		

Cumulative Metal Loadings (Kg/ha):	Enter the Baseline values in the cells below	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column	Enter the year in the cell below, then fill in the column
As maximum						
Cd average				N/A for 2012	N/A for 2012	N/A for 2012
Cd maximum						
Cu average						
Cu maximum						
Pb average						
Pb maximum						
Hg average						
Hg maximum						
Mo average						
Mo maximum						
Ni average						
Ni maximum						
Se average						
Se maximum						
Zn average						
Zn maximum						

Land Location

No sludge was disposed of in 2012.

Please give the location of this field in either degrees, minutes, seconds OR decimal degrees.

Example of Latitude in degrees, minutes and seconds: 36 22 30.51 (please include all available significant decimals)

Example of Longitude in degrees, minutes and seconds: 109 07 30.32 (please include all available significant decimals)

	Degrees	Minutes	Seconds
Latitude in Degrees, Minutes and Seconds:			
Longitude in Degrees, Minutes and Seconds:			

Example of Latitude in Decimal Degrees: 36.37514167 (please include all available significant decimals)

Example of Longitude in Decimal Degrees: 109.1250889 (please include all available significant decimals)

Latitude in Decimal Degrees:	
Longitude in Decimal Degrees:	

Please select a code number from the table below that best describes at what place in this field the latitude and longitude values were obtained. For example, if the latitude and longitude were measured in the center of the facility property, the code 020 would be used. Please type the code in the cell to the right.	Reference Point Code:
Reference Point Code Description	Reference Point Code Number
NE Corner of Land Parcel	021
NW Corner of Land Parcel	023
SE Corner of Land Parcel	022
SW Corner of Land Parcel	024
Other	003
Unknown	001

Please select a code number from the table below that best describes how the latitude and longitude values were obtained. For example, if the measurement was taken from a topographic map, the code would be 018. Please type the appropriate code in the cell to the right.	Collection Method Code:
Collection Method Code Description	Collection Method Code Number
Address Matching	007
Classical Surveying Techniques	025
Global Positioning System (GPS)	028
Interpolation - Map	018
Interpolation - Photo	019
Public Land Survey - Quarter Section	023
Public Land Survey - Section	024
Unknown	027

If you used Collection Method Codes 018 or 019, please enter the map scale of the map that was used. For example, if a US Geological Survey topographic map was used to find the location, and that map was created at a 1:24,000-scale, please enter 24000. (Note: map scale is a ratio that refers to the proportional distance on the ground for one unit of measure on a map or aerial photograph - e.g., 1 inch on the map equals 24,000 inches on the ground.) If the map scale is not known, please type UNKNOWN. Please enter the information in the cell to the right.	Source Map Scale:

Please enter the calendar date when the location data were collected. in mm/dd/yyyy format in the cell to the right (if the date is not known, please type UNKNOWN):	Data Collection Date:

MONITORING DATA SUMMARY

Final Use/Disposal Practice	Please enter information into this column.
How many biosolids analyses is this facility required to perform per monitoring year? (Please refer to the "Required Monitoring Frequency" table at right)	1
Are reported results represented on a 100% dry weight basis? (Y/N)	Y
Are fecal coliform results the geometric mean of 7 samples, if used for demonstrating Class B pathogen reduction (Y/N)	
If biosolids were land applied, were all the following metals sampled: As, Cd, Cu, Pb, Hg, Mo, Ni, Se, Zn? (Y/N/NA)	
If biosolids were surface disposed, were all the following metals sampled: As, Cr, and Ni? (Y/N/NA)	

Required Monitoring Frequency (Source: 40 CFR, Part 503)

Biosolids Production (DMT/yr)	Required Monitoring Frequency
<0 to <290	Once per year (1/yr)
290 to <1500	Once per quarter (4 samples/stockpile)
1500 to <15,000	Once per 60 days (6 samples/stockpile)
greater than or equal to 15,000	Once per month (12 samples/stockpile)

Pollutants: Please enter data in the cells to the right of each sampled pollutant type. Please use the indicated units for each pollutant type, in dry weight only. Report on 100% dry weight basis.		Units	Yearly Average	Yearly Maximum	Analyses per Year	Comments / Methods Used
Arsenic (As)	6.08	mg/Kg				
Cadmium (Cd)	5.69	mg/Kg				
Chromium (Cr)	126	mg/Kg				
Copper (Cu)	622	mg/Kg				
Lead (Pb)	67.2	mg/Kg				
Mercury (Hg)	< 0.0948	mg/Kg				
Molybdenum (Mo)	15.4	mg/Kg				
Nickel (Ni)	23.5	mg/Kg				
Selenium (Se)	2.27	mg/Kg				
Zinc (Zn)	1310	mg/Kg				
Fecal Coliform	134	MPN/g				
Salmonella		MPN/4g				N/A no disposal in 2012
Helminth OVA		#/4g				N/A no disposal in 2012
Enteric Virus		PFU/4g				N/A no disposal in 2012
Nitrite & Nitrate (NO2 & NO3)	150	mg/Kg				
TKN	24000	%				
Ammonia (NH3)		%				
Total Solids	88.1	%				
Phosphorus (P)	180	%				

Please enter data in the cells below.

If biosolids were disposed of in a municipal solid waste landfill, please indicate whether the biosolids passed a Paint Filter Test (enter Pass, Fail, or NA)	N/A
If biosolids were disposed of in a municipal solid waste landfill, and a toxicity characteristic leaching procedure (TCLP) was done, please indicate whether the biosolids passed (enter Pass, Fail, or NA)	N/A

Pathogen and Vector Attraction Reduction (VAR)

Please note: this page of the spreadsheet must be printed out, signed at the bottom by the responsible official, and mailed to the EPA, as well as being returned with the rest of this spreadsheet (as an electronic file).

Pathogen Reduction for Class A Biosolids	If this facility produces Class A biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform/salmonella results with monitoring results.
Code numbers to use for Pathogen Reduction of Class A Biosolids:	Code Description
Alternative 1	Time/Temperature (T&T)
Alternative 2	Alkaline Treatment (pH and T&T)
Alternative 3	Testing for 3 categories of pathogens, operational parameters
Alternative 4	Testing of accumulated biosolids for 3 categories of pathogens
PFRP 1	Composting
PFRP 2	Heat drying
PFRP 3	Heat treatment of liquid biosolids
PFRP 4	Thermophilic aerobic digestion
PFRP 5	Beta ray irradiation
PFRP 6	Gamma ray irradiation
PFRP 7	Pasteurization
Alternative 6	Equivalent PFRP

Pathogen Reduction for Class B Biosolids	If this facility produces Class B biosolids, please enter the appropriate code(s) in the box below. Include fecal coliform results, if applicable, with monitoring results.
	PSRP 2
Code numbers to use for Pathogen Reduction of Class B Biosolids:	Code Description
Alternative 1	Testing for fecal coliform, geometric mean of seven samples
PSRP 1	PSRP Method: aerobic digestion
PSRP 2	PSRP Method: air drying
PSRP 3	PSRP Method: anaerobic digestion
PSRP 4	PSRP Method: composting
PSRP 5	PSRP Method: lime stabilization
Alternative 3	Equivalent PSRP

Vector Attraction Reduction (VAR)	Please enter the appropriate VAR compliance code in the box below:
	7
Codes to use for VAR compliance:	Code Description
1	38% Volatile Solids Reduction
2	BENCH - Anaerobic Digestion
3	BENCH - Aerobic Digestion
4	Aerobic Digestion (SOUR)
5	"Aerobic Process": Composting
6	Alkaline stabilization: pH 12 for 2 hours, 11.5 for 22 hours
7	Drying: digested biosolids to 75%
8	Drying: undigested biosolids to 90%
9	Injection
10	Incorporation
11	Surface Disposal Daily Cover
12	Septage: pH 12 for 30 minutes
999	Not Applicable

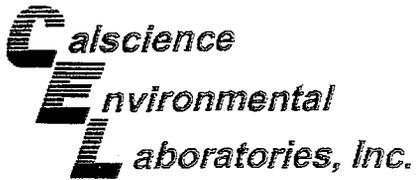
Preparer's Certification Statement for Pathogen and Vector Attraction Reduction
40 CFR 503.17, as amended August 4, 1999

Please enter the compliance method number(s) in the statement below:

"I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in 503.32 _____ [and the vector attraction reduction requirements in 503.33 ____] was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Signature of responsible official: _____

*when vector attraction reduction is achieved during treatment



CALSCIENCE

WORK ORDER NUMBER: 12-07-0370

The difference is service



AIR : SOIL : WATER : MARINE CHEMISTRY

Analytical Report For

Client: Liberty Composting, Inc.

Client Project Name: MALAGA CWD

Attention: Drew Kolosky
P.O. Box 80727
Bakersfield, CA 93380-0727

Approved for release on 07/19/2012 by:
Stephen Nowak
Project Manager

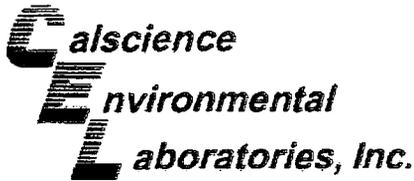
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

[Faint, illegible text and signatures at the bottom of the page]



Analytical Report



Liberty Composting, Inc.
 P.O. Box 80727
 Bakersfield, CA 93380-0727

Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: EPA 3050B / EPA 7471A Total
 Method: EPA 6010B / EPA 7471A
 Units: mg/kg

Project: MALAGA CWD

Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MALAGA CWD	12-07-0370-1-A	07/06/12 10:15	Solid	ICP 7300	07/10/12	07/10/12 20:16	120710L03

Comment(s): -Results are reported on a dry weight basis.
 -Mercury analysis was performed on 07/11/12 11:17 with batch 120710L04.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	39.7	0.851	1		Mercury	ND	0.0948	1	
Arsenic	6.08	0.851	1		Molybdenum	15.4	0.284	1	
Barium	693	0.568	1		Nickel	23.5	0.284	1	
Beryllium	0.374	0.284	1		Selenium	2.27	0.851	1	
Cadmium	5.69	0.568	1		Silver	0.945	0.284	1	
Chromium	126	0.284	1		Thallium	ND	0.851	1	
Cobalt	5.92	0.284	1		Vanadium	71.7	0.284	1	
Copper	622	0.568	1		Zinc	1310	1.14	1	
Lead	67.2	0.568	1						

Method Blank	099-04-007-8,718	N/A	Solid	Mercury	07/10/12	07/11/12 10:09	120710L04
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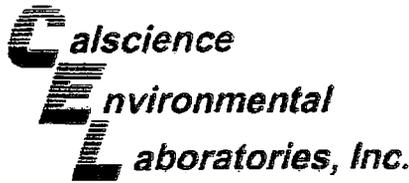
Comment(s): -Preparation/analysis for Mercury was performed by EPA 7471A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	097-01-002-15,980	N/A	Solid	ICP 7300	07/10/12	07/10/12 19:56	120710L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Liberty Composting, Inc.
 P.O. Box 80727
 Bakersfield, CA 93380-0727

Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: EPA 3050B / EPA 7471A Total
 Method: EPA 6010B / EPA 7471A
 Units: mg/kg

Project: MALAGA CWD

Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MALAGA CWD	12-07-0370-1-A	07/06/12 10:15	Solid	ICP 7300	07/10/12	07/10/12 20:16	120710L03

Comment(s): -Mercury analysis was performed on 07/11/12 11:17 with batch 120710L04.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	34.9	0.750	1		Mercury	ND	0.0835	1	
Arsenic	5.36	0.750	1		Molybdenum	13.6	0.250	1	
Barium	610	0.500	1		Nickel	20.7	0.250	1	
Beryllium	0.329	0.250	1		Selenium	2.00	0.750	1	
Cadmium	5.01	0.500	1		Silver	0.832	0.250	1	
Chromium	111	0.250	1		Thallium	ND	0.750	1	
Cobalt	5.22	0.250	1		Vanadium	63.2	0.250	1	
Copper	548	0.500	1		Zinc	1150	1.00	1	
Lead	59.2	0.500	1						

Method Blank	099-04-007-8,718	N/A	Solid	Mercury	07/10/12	07/11/12 10:09	120710L04
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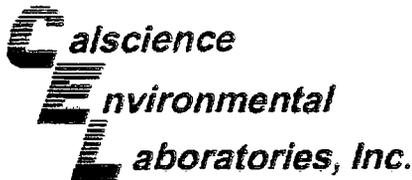
Comment(s): -Preparation/analysis for Mercury was performed by EPA 7471A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	097-01-002-15,980	N/A	Solid	ICP 7300	07/10/12	07/10/12 19:56	120710L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Liberty Composting, Inc.
 P.O. Box 80727
 Bakersfield, CA 93380-0727

Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: T22.11.5. All
 Method: EPA 6010B
 Units: mg/L

Project: MALAGA CWD

Page 1 of 1

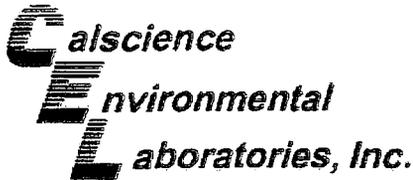
Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MALAGA CWD	12-07-0370-1-A	07/06/12 10:15	Solid	ICP 7300	07/12/12	07/16/12 15:44	120716LA1

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	9.31	0.100	1		Lead	2.94	0.100	1	
Copper	30.2	0.100	1						

Method Blank	097-05-006-6,302	N/A	Aqueous	ICP 7300	07/12/12	07/16/12 15:20	120716LA1
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Chromium	ND	0.100	1		Lead	ND	0.100	1	
Copper	ND	0.100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



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Date Received: 07/09/12
 Work Order No: 12-07-0370

Project: MALAGA CWD

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MALAGA CWD	12-07-0370-1	07/06/12	Solid

Comment(s): (9) -Results are reported on a dry weight basis

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (9)	ND	0.91	1		mg/kg	07/12/12	07/12/12	EPA 7196A
pH	6.36	0.01	1		pH units	07/09/12	07/09/12	EPA 9045D
Solids, Total	88.1	0.100	1		%	07/10/12	07/10/12	SM 2540 B
Solids, Total Dissolved	4590	10.0	1		mg/kg	07/10/12	07/10/12	SM 2540 C (M)
Total Kjeldahl Nitrogen (9)	24000	230	20		mg/kg	07/13/12	07/13/12	SM 4500 N Org B (M)
Nitrate (as N) (9)	150	28	50		mg/kg	07/10/12	07/10/12	SM 4500-NO3 E/SM 4500-NO2 B

Method Blank					N/A			Solid
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	ND	0.80	1		mg/kg	07/12/12	07/12/12	EPA 7196A
Solids, Total	ND	0.100	1		%	07/10/12	07/10/12	SM 2540 B
Solids, Total Dissolved	ND	1.0	1		mg/kg	07/10/12	07/10/12	SM 2540 C (M)
Total Kjeldahl Nitrogen	ND	10	1		mg/kg	07/13/12	07/13/12	SM 4500 N Org B (M)
Nitrate (as N)	ND	0.50	1		mg/kg	07/10/12	07/10/12	SM 4500-NO3 E/SM 4500-NO2 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



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P.O. Box 80727
Bakersfield, CA 93380-0727

Date Received: 07/09/12
Work Order No: 12-07-0370
Preparation: N/A
Method: SM9223 - Colilert-18-TC

Project: MALAGA CWD

Page 1 of 1

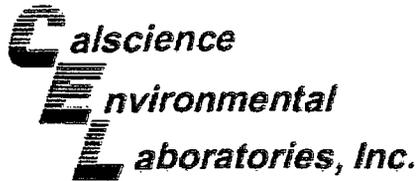
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MALAGA CWD	12-07-0370-1-A	07/06/12 10:15	Solid	N/A	07/09/12	07/09/12 15:50	B0710TCB01

Parameter	Result	RL	DF	Qual	Units
Total Coliform	134	1.00	1		MPN/g

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-030-14	N/A	Solid	N/A	07/09/12	07/09/12 15:50	B0710TCB01

Parameter	Result	RL	DF	Qual	Units
Total Coliform	ND	1.00	1		MPN/g

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Liberty Composting, Inc.
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Bakersfield, CA 93380-0727

Date Received: 07/09/12
Work Order No: 12-07-0370
Preparation: EPA 3050B
Method: EPA 6010B

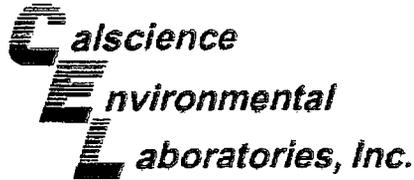
Project MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0425-1	Solid	ICP 7300	07/10/12	07/10/12	120710S03

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	8.287	33	8.275	33	50-115	0	0-20	3
Arsenic	ND	25.00	25.68	103	26.06	104	75-125	1	0-20	
Barium	21.34	25.00	46.94	102	47.41	104	75-125	1	0-20	
Beryllium	ND	25.00	26.50	106	26.43	106	75-125	0	0-20	
Cadmium	ND	25.00	25.73	103	25.59	102	75-125	1	0-20	
Chromium	3.312	25.00	29.41	104	29.39	104	75-125	0	0-20	
Cobalt	2.010	25.00	29.38	109	28.98	108	75-125	1	0-20	
Copper	2.296	25.00	29.83	110	29.72	110	75-125	0	0-20	
Lead	1.915	25.00	27.64	103	27.42	102	75-125	1	0-20	
Molybdenum	ND	25.00	23.51	94	23.16	93	75-125	1	0-20	
Nickel	1.528	25.00	28.73	109	28.53	108	75-125	1	0-20	
Selenium	ND	25.00	25.98	104	25.56	102	75-125	2	0-20	
Silver	ND	12.50	12.59	101	12.44	100	75-125	1	0-20	
Thallium	ND	25.00	25.55	102	24.96	100	75-125	2	0-20	
Vanadium	8.375	25.00	34.12	103	34.11	103	75-125	0	0-20	
Zinc	10.02	25.00	36.85	107	36.62	106	75-125	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit

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Quality Control - PDS / PDS D



Liberty Composting, Inc.
P.O. Box 80727
Bakersfield, CA 93380-0727

Date Received 07/09/12
Work Order No: 12-07-0370
Preparation: EPA 3050B
Method: EPA 6010B

Project: MALAGA CWD

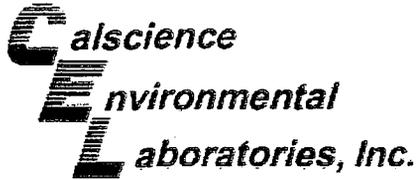
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDS D Batch Number
12-07-0425-1	Solid	ICP 7300	07/10/12	07/10/12	120710S03

Analysis Comment: * - Analyzed 7/11/2012 12:36:00 PM

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	PDS D CONC	PDS D %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	21.98	88	21.50	86	75-125	2	0-20	
Arsenic	ND	25.00	24.69	99	24.06	96	75-125	3	0-20	
Barium	21.34	25.00	46.47	100	45.00	95	75-125	3	0-20	
Beryllium	ND	25.00	24.87	99	24.36	97	75-125	2	0-20	
Cadmium	ND	25.00	24.25	97	23.76	95	75-125	2	0-20	
Chromium	3.312	25.00	27.56	97	26.87	94	75-125	3	0-20	
Cobalt	2.010	25.00	27.46	102	26.97	100	75-125	2	0-20	
Copper	2.296	25.00	27.80	102	27.47	101	75-125	1	0-20	
Lead	1.915	25.00	26.36	98	25.67	95	75-125	3	0-20	
Molybdenum	ND	25.00	25.12	100	24.48	98	75-125	3	0-20	
Nickel	1.528	25.00	26.89	101	26.17	99	75-125	3	0-20	
Selenium	ND	25.00	25.25	101	24.63	99	75-125	2	0-20	
Silver	ND	12.50	10.79	86	10.31	83	75-125	5	0-20	
Thallium	ND	25.00	24.48	98	23.93	96	75-125	2	0-20	
Vanadium	8.375	25.00	32.39	96	31.69	93	75-125	2	0-20	
Zinc	10.02	25.00	35.55	102	34.90	100	75-125	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate



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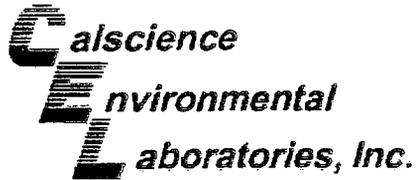
Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: T22.11.5. All
 Method: EPA 6010B

Project MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0848-1	Aqueous	ICP 7300	07/16/12	07/16/12	120716SA1

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium	ND	5.000	5.116	102	5.244	105	75-125	2	0-20	
Copper	ND	5.000	5.494	110	5.661	113	75-125	3	0-20	
Lead	ND	5.000	5.439	109	5.541	111	75-125	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Liberty Composting, Inc.
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Bakersfield, CA 93380-0727

Date Received: 07/09/12
Work Order No: 12-07-0370
Preparation: N/A
Method: SM 4500-NO3 E/SM 4500-NO2 B

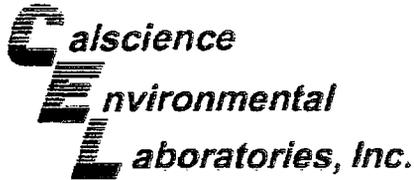
Project MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0361-1	Solid	UV 7	07/10/12	07/10/12	C0710NO3S2

Parameter	<u>SAMPLE CONC</u>	<u>SPIKE ADDED</u>	<u>MS CONC</u>	<u>MS %REC</u>	<u>MSD CONC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrate (as N)	ND	5.0	4.8	97	4.9	98	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate



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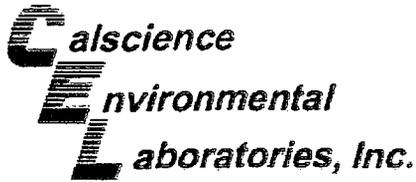
Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: EPA 3060A
 Method: EPA 7196A

Project MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MALAGA CWD	Solid	UV 2	07/12/12	07/12/12	C0712CRS2

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	1.0	0.84	84	0.85	85	75-125	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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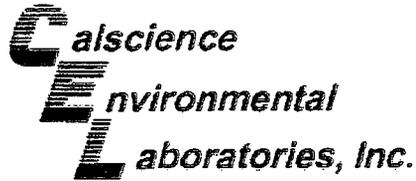
Date Received: 07/09/12
 Work Order No: 12-07-0370
 Preparation: EPA 7471A Total
 Method: EPA 7471A

Project MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-07-0436-3	Sediment	Mercury	07/10/12	07/11/12	120710S04

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.2849	0.8350	1.151	104	1.195	109	76-136	4	0-16	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Duplicate



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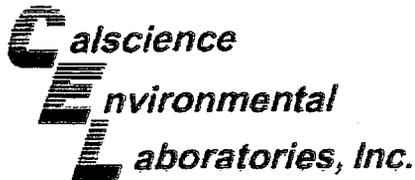
Date Received: N/A
 Work Order No: 12-07-0370

Project: MALAGA CWD

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	EPA 9045D	MALAGA CWD	07/09/12	6.36	6.38	0	0-25	
Total Kjeldahl Nitrogen	SM 4500 N Org B (M)	MALAGA CWD	07/13/12	21000	21000	0	0-25	
Solids, Total	SM 2540 B	MALAGA CWD	07/10/12	88.1	87.7	0	0-10	
Solids, Total Dissolved	SM 2540 C (M)	MALAGA CWD	07/10/12	4590	4820	5	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Liberty Composting, Inc.
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Bakersfield, CA 93380-0727

Date Received: N/A
Work Order No: 12-07-0370
Preparation: EPA 3050B
Method: EPA 6010B

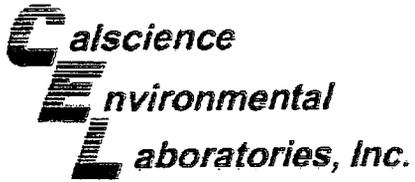
Project: MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
097-01-002-15,980	Solid	ICP 7300	07/10/12	07/10/12	120710L03					
Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	26.31	105	26.14	105	80-120	73-127	1	0-20	
Arsenic	25.00	25.92	104	25.71	103	80-120	73-127	1	0-20	
Barium	25.00	27.12	108	27.18	109	80-120	73-127	0	0-20	
Beryllium	25.00	26.46	106	25.91	104	80-120	73-127	2	0-20	
Cadmium	25.00	26.94	108	27.11	108	80-120	73-127	1	0-20	
Chromium	25.00	26.56	106	26.55	106	80-120	73-127	0	0-20	
Cobalt	25.00	28.33	113	28.44	114	80-120	73-127	0	0-20	
Copper	25.00	27.77	111	28.00	112	80-120	73-127	1	0-20	
Lead	25.00	27.46	110	27.14	109	80-120	73-127	1	0-20	
Molybdenum	25.00	26.93	108	26.74	107	80-120	73-127	1	0-20	
Nickel	25.00	28.68	115	28.79	115	80-120	73-127	0	0-20	
Selenium	25.00	26.52	106	26.14	105	80-120	73-127	1	0-20	
Silver	12.50	12.27	98	12.25	98	80-120	73-127	0	0-20	
Thallium	25.00	27.88	112	27.68	111	80-120	73-127	1	0-20	
Vanadium	25.00	25.91	104	25.92	104	80-120	73-127	0	0-20	
Zinc	25.00	27.68	111	28.05	112	80-120	73-127	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - LCS/LCS Duplicate



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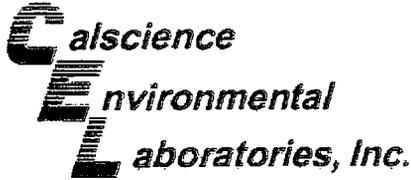
Date Received: N/A
 Work Order No: 12-07-0370
 Preparation: T22.11.5. All
 Method: EPA 6010B

Project: MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-6,302	Aqueous	ICP 7300	07/12/12	07/16/12	120716LA1

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium	5.000	5.229	105	5.261	105	80-120	1	0-20	
Copper	5.000	5.464	109	5.476	110	80-120	0	0-20	
Lead	5.000	5.482	110	5.546	111	80-120	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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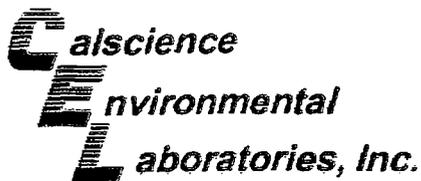
Date Received: N/A
 Work Order No: 12-07-0370
 Preparation: N/A
 Method: SM 4500-NO3 E/SM 4500-NO2 B

Project: MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-474-501	Solid	UV 7	07/10/12	07/10/12	C0710NO3L2

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Nitrate (as N)	2.5	2.6	105	2.6	104	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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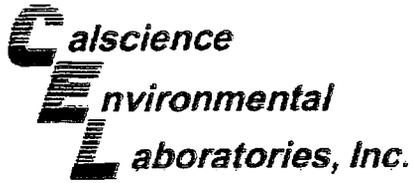
Date Received: N/A
 Work Order No: 12-07-0370
 Preparation: EPA 3060A
 Method: EPA 7196A

Project: MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-001-4,428	Solid	UV 2	07/12/12	07/12/12	C0712CRL2

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	0.50	0.40	80	0.41	82	80-120	2	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



Liberty Composting, Inc.
 P.O. Box 80727
 Bakersfield, CA 93380-0727

Date Received: N/A
 Work Order No: 12-07-0370
 Preparation: EPA 7471A Total
 Method: EPA 7471A

Project: MALAGA CWD

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-8,718	Solid	Mercury	07/10/12	07/11/12	120710L04

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	0.8350	0.8221	98	0.8246	99	85-121	0	0-10	

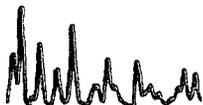
RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 12-07-0370

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number





7440 LINCOLN WAY
 GARDEN GROVE, CA 92841-1432
 TEL: (714) 895-5484 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 07-06-2012

PAGE: 1 OF 1

LABORATORY CLIENT: LIBERTY COMPOSTING, INC.		CLIENT PROJECT NAME/NUMBER: MALAGA CWD		P.O. NO.:																							
ADDRESS: 12421 HOLLOWAY ROAD		PROJECT CONTACT: DREW Kolascy		QUOTE NO.:																							
CITY: LOST HILLS, CA 93249		SAMPLER(S) (SIGNATURE): <i>[Signature]</i>		DATE: 12-07-0370																							
TEL: 661-797-2914	FAX: 661-797-2915	E-MAIL:																									
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS		REQUESTED ANALYSIS																									
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL 1 1		<table border="1"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Please list tests required</td> <td>TKN</td> <td>TOTAL NITROGEN</td> <td>NITRATES</td> <td>17 METALS</td> <td>STLC AS NEEDED</td> <td>TDS</td> <td>PH</td> <td>TOTAL COLIFORM</td> <td>CF6</td> <td>% MOISTURE</td> </tr> <tr> <td>X</td> </tr> </table>				Please list tests required	TKN	TOTAL NITROGEN	NITRATES	17 METALS	STLC AS NEEDED	TDS	PH	TOTAL COLIFORM	CF6	% MOISTURE	X	X	X	X	X	X	X	X	X	X	X
Please list tests required	TKN					TOTAL NITROGEN	NITRATES	17 METALS	STLC AS NEEDED	TDS	PH	TOTAL COLIFORM	CF6	% MOISTURE													
X	X	X	X	X	X	X	X	X	X	X																	
SPECIAL INSTRUCTIONS: PLEASE REPORT SEPARATELY REPORT WET & DRY WEIGHT RESULTS																											
CAS USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		Matrix	#Cont																					
			DATE	TIME																							
	MALAGA CWD	BIOSOLID S	7-6-12	10:15	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature)		Date:	Time:																						
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature)		Date:	Time:																						
Relinquished by: (Signature)		Received by: (Signature) <i>[Signature]</i>		Date: 7/9/12	Time: 10:00																						

(FEDEX)

0370

From: (661) 391-5840
Drew Kolosky
Liberty Composting
1601 Skyway Dr
Suite 205
Bakersfield, CA 93308

Origin ID: BFLA



Ship Date: 06JUL12
ActWgt: 1.5 LB
CAD: 1036031527/NET3300

Delivery Address Bar Code



SHIP TO: (714) 895-5494
Stephen Nowak
Calscience Labs
7440 LINCOLN WAY

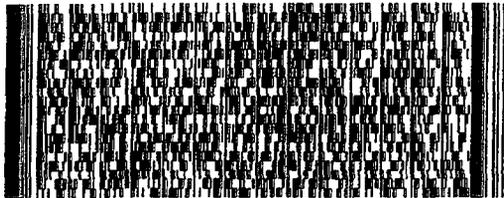
BILL SENDER

Ref # Compost
Invoice #
PO # Malaga CWD
Dept #

GARDEN GROVE, CA 92841

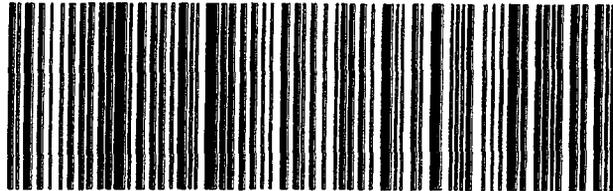
MON - 09 JUL A1
PRIORITY OVERNIGHT

TRK# 7937 6270 8232
0201



92 APVA

92841
CA-US
SNA



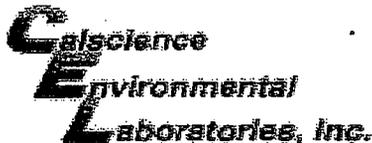
515G1E062/AA44

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



WORK ORDER #: 12-07-0370

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: LIBERTY COMPOSTING

DATE: 07/09/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 21.5 °C - 0.3 °C (CF) = 21.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: JS).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: JS

CUSTODY SEALS INTACT:

Box _____ No (Not Intact) Not Present N/A Initial: JS

Sample _____ No (Not Intact) Not Present Initial: JS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® 16 oz EPT

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** JS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** JS

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zanna: ZnAc₂+NaOH f: Filtered **Scanned by:** JS



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

California ELAP Certificate #1371

October 01, 2012

Work Order #: 2113027

Frank Cruz
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 09/13/12 . For your reference, these analyses have been assigned laboratory work order number 2113027 .

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.

A handwritten signature in black ink, appearing to read "Julio Morales", written over a horizontal line.

Julio Morales
Client Services Supervisor



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: Frank Cruz

Reported:
10/01/2012

Analytical Report for the Following Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Digester Sludge	2I13027-01	Sludge	09/13/12 13:25	09/13/12 14:20



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 Fresno, CA 93721
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California ELAP Certificate #1371

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

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 10/01/2012

Analytical Report for Work Order 2I13027

Analyte	Qual.	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	
							Sampled: 09/13/12 13:25 2I13027-01 (Sludge)				
Digester Sludge											
Nitrate as Nitrogen		18	0.90		mg/L	2	[CALC]	09/27/12	09/14/12	[CALC]	
Total Nitrogen		450	11		mg/L	2	[CALC]	09/27/12	09/28/12	[CALC]	
Nitrite as N	J	0.43	0.60	0.021	mg/L	2	T2I1322	09/13/12	09/14/12	EPA 300.0	
Nitrate as NO3		81	4.0	0.035	mg/L	2	T2I1322	09/13/12	09/14/12	EPA 300.0	
Ammonia as N		49	20	0.70	mg/L	1	T2I2710	09/27/12	10/01/12	EPA 350.1	
Total Kjeldahl Nitrogen		430	10	0.70	mg/L	1	T2I2808	09/27/12	09/28/12	EPA 351.2	
Phosphorus		210	10	0.21	mg/L	1	T2I2808	09/27/12	09/28/12	EPA 365.4	
pH		7.4	0.10	0.10	pH Units	1	T2I1407	09/14/12	09/14/12	SM4500-H B	
Arsenic		0.21	0.050	0.012	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Cadmium		0.16	0.0050	0.0010	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Chromium		2.3	0.025	0.0045	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Copper		11	0.025	0.0048	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Lead		1.2	0.025	0.0071	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Molybdenum		0.47	0.025	0.0037	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Nickel		0.50	0.025	0.0029	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Selenium	J	0.094	0.10	0.0090	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Zinc		31	0.025	0.0040	mg/L	1	T2I1916	09/19/12	09/21/12	EPA 200.7	
Mercury		ND	6.0	1.9	µg/L	1	T2I1902	09/19/12	09/19/12	EPA 245.1	
Potassium		42	5.0	0.12	mg/L	1	T2I2020	09/20/12	09/22/12	EPA 6010B	
Fecal Coliforms		>160,000	1.1		MPN/100mL	1	T2I1319	09/13/12	09/15/12	SM9221	

Notes and Definitions

RPD3 The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.

D1 Sample diluted due to matrix effects.

BS2 Recovery for this analyte was biased low. Results were accepted based on duplicate results.

BS1 Recovery for this analyte was biased high. Results were accepted based on duplicate results.

>9 >160,000

µg/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.



2527 Fresno Street
 Fresno, CA 93721
 (559) 268-7021 Phone
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California ELAP Certificate #1371

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

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 10/01/2012

Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch T2I1322 - EPA 300.0

Blank (T2I1322-BLK1)		Prepared & Analyzed: 09/13/12								
Nitrite as N		ND	0.30	mg/L						
Nitrate as NO3		ND	2.0	"						
LCS (T2I1322-BS1)		Prepared: 09/13/12 Analyzed: 09/14/12								
Nitrite as N		2.47	0.30	mg/L	2.50		98.8	90-110		20
Nitrate as NO3		24.6	2.0	"	25.0		98.3	90-110		20
LCS Dup (T2I1322-BSD1)		Prepared: 09/13/12 Analyzed: 09/14/12								
Nitrite as N		2.46	0.30	mg/L	2.50		98.4	90-110	0.487	20
Nitrate as NO3		24.7	2.0	"	25.0		98.9	90-110	0.601	20
Matrix Spike (T2I1322-MS1)		Source: 2I12064-06		Prepared: 09/13/12 Analyzed: 09/14/12						
Nitrite as N		9.89	1.2	mg/L	10.0		98.9	80-120		20
Nitrate as NO3		97.8	8.0	"	100	0.674	97.1	70-130		20
Matrix Spike (T2I1322-MS2)		Source: 2I13029-07		Prepared: 09/13/12 Analyzed: 09/14/12						
Nitrite as N		9.90	1.2	mg/L	10.0	ND	99.0	80-120		20
Nitrate as NO3		98.0	8.0	"	100	ND	98.0	70-130		20
Matrix Spike Dup (T2I1322-MSD1)		Source: 2I12064-06		Prepared: 09/13/12 Analyzed: 09/14/12						
Nitrite as N		9.73	1.2	mg/L	10.0		97.3	80-120	1.59	20
Nitrate as NO3		96.8	8.0	"	100	0.674	96.2	70-130	0.941	20
Matrix Spike Dup (T2I1322-MSD2)		Source: 2I13029-07		Prepared: 09/13/12 Analyzed: 09/14/12						
Nitrite as N		9.96	1.2	mg/L	10.0	ND	99.6	80-120	0.604	20
Nitrate as NO3		97.8	8.0	"	100	ND	97.8	70-130	0.229	20

Batch T2I1407 - SM4500-H B

LCS (T2I1407-BS1)		Prepared & Analyzed: 09/14/12								
pH		6.98	0.10	pH Units	7.00		99.7	80-120		20
LCS Dup (T2I1407-BSD1)		Prepared & Analyzed: 09/14/12								
pH		6.98	0.10	pH Units	7.00		99.7	80-120	0.00	20
Duplicate (T2I1407-DUP1)		Source: 2I13002-01		Prepared & Analyzed: 09/14/12						
pH		3.76	0.10	pH Units		3.74			0.533	20

Batch T2I2710 - EPA 350.1

Blank (T2I2710-BLK1)		Prepared: 09/27/12 Analyzed: 10/01/12								
Ammonia as N	J	0.386	1.0	mg/L						
LCS (T2I2710-BS1)		Prepared: 09/27/12 Analyzed: 10/01/12								
Ammonia as N	BS2	14.2	1.0	mg/L	22.5		63.1	80-120		20
LCS Dup (T2I2710-BSD1)		Prepared: 09/27/12 Analyzed: 10/01/12								
Ammonia as N	RPD3	20.4	1.0	mg/L	22.5		90.6	80-120	35.7	20
Matrix Spike (T2I2710-MS1)		Source: 2I13012-02		Prepared: 09/27/12 Analyzed: 10/01/12						
Ammonia as N		20.4	1.0	mg/L	22.5	0.466	88.7	80-120		20

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

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.



2527 Fresno Street
 Fresno, CA 93721
 (559) 268-7021 Phone
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California ELAP Certificate #1371

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

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 10/01/2012

Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch T2I2710 - EPA 350.1

Matrix Spike (T2I2710-MS2) Source: 2I18019-05 Prepared: 09/27/12 Analyzed: 10/01/12

Ammonia as N		23.0	1.0	mg/L	22.5	0.606	99.4	80-120	20
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Matrix Spike Dup (T2I2710-MSD1) Source: 2I13012-02 Prepared: 09/27/12 Analyzed: 10/01/12

Ammonia as N		20.8	1.0	mg/L	22.5	0.466	90.5	80-120	1.94	20
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Matrix Spike Dup (T2I2710-MSD2) Source: 2I18019-05 Prepared: 09/27/12 Analyzed: 10/01/12

Ammonia as N		21.9	1.0	mg/L	22.5	0.606	94.5	80-120	4.91	20
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Batch T2I2808 - EPA 351.2

Blank (T2I2808-BLK1) Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		ND	0.50	mg/L						
Phosphorus	J	0.391	0.50	"						

LCS (T2I2808-BS1) Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		21.9	0.50	mg/L	22.5		97.5	80-120		20
Phosphorus		7.29	0.50	"	7.50		97.2	80-120		20

LCS Dup (T2I2808-BSD1) Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		22.0	0.50	mg/L	22.5		98.0	80-120	0.455	20
Phosphorus		7.24	0.50	"	7.50		96.5	80-120	0.743	20

Matrix Spike (T2I2808-MS1) Source: 2I13027-01 Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		886	10	mg/L	450	428	102	80-120		20
Phosphorus		338	10	"	150	210	85.1	80-120		20

Matrix Spike (T2I2808-MS2) Source: 2I18013-02 Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		25.1	0.50	mg/L	22.5	0.991	107	80-120		20
Phosphorus		8.83	0.50	"	7.50	2.28	87.3	80-120		20

Matrix Spike Dup (T2I2808-MSD1) Source: 2I13027-01 Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		898	10	mg/L	450	428	104	80-120	1.26	20
Phosphorus		344	10	"	150	210	89.3	80-120	1.84	20

Matrix Spike Dup (T2I2808-MSD2) Source: 2I18013-02 Prepared: 09/27/12 Analyzed: 09/28/12

Total Kjeldahl Nitrogen		24.9	0.50	mg/L	22.5	0.991	106	80-120	0.560	20
Phosphorus		8.81	0.50	"	7.50	2.28	87.0	80-120	0.227	20



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California ELAP Certificate #1371

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

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 10/01/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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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 T2I1916 - EPA 200.7

Blank (T2I1916-BLK1)		Prepared: 09/19/12 Analyzed: 09/21/12							
Chromium		ND	0.0050	mg/L					
Copper	J	0.00164	0.0050	"					
Zinc	J	0.000870	0.0050	"					
Cadmium	J	0.000221	0.0010	"					
Nickel		ND	0.0050	"					
Molybdenum	J	0.00259	0.0050	"					
Selenium		ND	0.020	"					
Arsenic		ND	0.010	"					
Lead		ND	0.0050	"					
LCS (T2I1916-BS1)		Prepared: 09/19/12 Analyzed: 09/21/12							
Arsenic		0.207	0.010	mg/L	0.200	104	85-115		20
Molybdenum		0.104	0.0050	"	0.100	104	85-115		20
Lead		0.109	0.0050	"	0.100	109	85-115		20
Nickel		0.108	0.0050	"	0.100	108	85-115		20
Chromium		0.105	0.0050	"	0.100	105	85-115		20
Zinc		0.109	0.0050	"	0.100	109	85-115		20
Copper		0.102	0.0050	"	0.100	102	85-115		20
Selenium		0.422	0.020	"	0.400	105	85-115		20
Cadmium		0.0222	0.0010	"	0.0200	111	85-115		20
LCS Dup (T2I1916-BSD1)		Prepared: 09/19/12 Analyzed: 09/21/12							
Cadmium		0.0230	0.0010	mg/L	0.0200	115	85-115	3.46	20
Molybdenum		0.109	0.0050	"	0.100	109	85-115	4.10	20
Lead	BS1	0.116	0.0050	"	0.100	116	85-115	5.80	20

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

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.



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: Frank Cruz

Reported:
 10/01/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch T2I1916 - EPA 200.7

LCS Dup (T2I1916-BSD1)

Prepared: 09/19/12 Analyzed: 09/21/12

Nickel		0.113	0.0050	mg/L	0.100		113 85-115	4.76	20
Chromium		0.110	0.0050	"	0.100		110 85-115	4.59	20
Zinc		0.115	0.0050	"	0.100		115 85-115	5.56	20
Arsenic		0.218	0.010	"	0.200		109 85-115	5.36	20
Selenium		0.444	0.020	"	0.400		111 85-115	5.05	20
Copper		0.106	0.0050	"	0.100		106 85-115	3.77	20

Matrix Spike (T2I1916-MS1)

Source: 2I12031-01

Prepared: 09/19/12 Analyzed: 09/21/12

Cadmium		0.0440	0.0020	mg/L	0.0400	ND	110 70-130		20
Arsenic		0.417	0.020	"	0.400	ND	104 70-130		20
Chromium		0.211	0.010	"	0.200	ND	105 70-130		20
Molybdenum		0.215	0.010	"	0.200	0.00232	105 70-130		20
Lead		0.223	0.010	"	0.200	ND	111 70-130		20
Copper		0.210	0.010	"	0.200	0.00812	101 70-130		20
Zinc		0.283	0.010	"	0.200	0.0629	110 70-130		20
Selenium		0.843	0.040	"	0.800	0.00673	105 70-130		20
Nickel		0.218	0.010	"	0.200	ND	109 70-130		20

Matrix Spike (T2I1916-MS2)

Source: 2I12056-02

Prepared: 09/19/12 Analyzed: 09/21/12

Lead		0.225	0.010	mg/L	0.200	0.00529	110 70-130		20
Nickel		0.224	0.010	"	0.200	0.00648	109 70-130		20
Arsenic		0.425	0.020	"	0.400	ND	106 70-130		20
Molybdenum		0.219	0.010	"	0.200	0.00829	105 70-130		20
Zinc		0.322	0.010	"	0.200	0.124	98.9 70-130		20
Copper		0.317	0.010	"	0.200	0.113	102 70-130		20
Chromium		0.213	0.010	"	0.200	ND	106 70-130		20
Cadmium		0.0438	0.0020	"	0.0400	ND	110 70-130		20
Selenium		0.740	0.040	"	0.800	0.00914	91.3 70-130		20

Matrix Spike Dup (T2I1916-MSD1)

Source: 2I12031-01

Prepared: 09/19/12 Analyzed: 09/21/12

Selenium		0.846	0.040	mg/L	0.800	0.00673	105 70-130	0.402	20
Nickel		0.220	0.010	"	0.200	ND	110 70-130	0.968	20
Molybdenum		0.215	0.010	"	0.200	0.00232	106 70-130	0.890	20
Lead		0.226	0.010	"	0.200	ND	113 70-130	1.31	20
Zinc		0.285	0.010	"	0.200	0.0629	111 70-130	0.814	20
Chromium		0.214	0.010	"	0.200	ND	107 70-130	1.59	20
Arsenic		0.427	0.020	"	0.400	ND	107 70-130	2.29	20
Copper		0.211	0.010	"	0.200	0.00812	101 70-130	0.683	20
Cadmium		0.0450	0.0020	"	0.0400	ND	112 70-130	2.14	20

Matrix Spike Dup (T2I1916-MSD2)

Source: 2I12056-02

Prepared: 09/19/12 Analyzed: 09/21/12

Lead		0.233	0.010	mg/L	0.200	0.00529	114 70-130	3.39	20
Zinc		0.331	0.010	"	0.200	0.124	103 70-130	2.81	20
Selenium		0.749	0.040	"	0.800	0.00914	92.5 70-130	1.30	20

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

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

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 10/01/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch T2I1916 - EPA 200.7

Matrix Spike Dup (T2I1916-MSD2)	Source: 2H12056-02		Prepared: 09/19/12		Analyzed: 09/21/12	
Cadmium	0.0423	0.0020	mg/L	0.0400	ND	106 70-130 3.47 20
Copper	0.307	0.010	"	0.200	0.113	97.3 70-130 3.05 20
Molybdenum	0.227	0.010	"	0.200	0.00829	109 70-130 3.79 20
Arsenic	0.427	0.020	"	0.400	ND	107 70-130 0.377 20
Chromium	0.222	0.010	"	0.200	ND	111 70-130 4.31 20
Nickel	0.232	0.010	"	0.200	0.00648	113 70-130 3.58 20

Batch T2I2020 - EPA 6010B

Blank (T2I2020-BLK1)	Prepared: 09/20/12		Analyzed: 09/22/12	
Potassium	ND	1.0	mg/L	
LCS (T2I2020-BS1)	Prepared: 09/20/12		Analyzed: 09/22/12	
Potassium	3.85	1.0	mg/L	4.00 96.2 75-125 20
LCS Dup (T2I2020-BSD1)	Prepared: 09/20/12		Analyzed: 09/22/12	
Potassium	3.88	1.0	mg/L	4.00 96.9 75-125 0.749 20

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

WORKORDER #:

PAGE 1 OF 5

2513027

REPORT TO:

INVOICE TO:

REPORT COPY TO:

REPORTING :

ATTENTION: FRANK CRUZ	ATTENTION: LAURIE CARTER	<input type="checkbox"/> STANDARD FORMAT <input type="checkbox"/> EDT (STATE FORM) <input type="checkbox"/> GEOTRACKER/COELT (LUFT) <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> County DHS : <input type="checkbox"/> Environmental Health Agency : <input type="checkbox"/> OTHER :
NAME: MALAGA C.W.D.	NAME: MALAGA CO. WATER DIST.	
ADDRESS: 3580 S. FRANK	ADDRESS: 3580 S. FRANK	
FRESNO, CA 93725	FRESNO, CA 93725	
PHONE: 485-7353	PHONE:	
FAX: 495-1070	FAX: 485-7319	

SAMPLE INFORMATION		SAMPLE TYPES:	PROJECT INFORMATION
SAMPLED BY (PRINT): FRANK CRUZ	<input type="checkbox"/> PUBLIC SYSTEM <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> PRIVATE WELL <input type="checkbox"/> REPEAT <input type="checkbox"/> OTHER <input type="checkbox"/> REPLACEMENT TURN AROUND TIME: <input type="checkbox"/> RUSH, DUE ON: <input checked="" type="checkbox"/> STANDARD	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	CONTRACT/P.O. NO.:
SIGNATURE: <i>Frank Cruz</i>			PROJECT: MALAGA WASTEWATER PLANT
			PROJECT NUMBER:
			PROJECT MANAGER:

NOTES ON RECEIVED CONDITION:

CUSTODY SEAL(S) BROKEN SAMPLE(S) DAMAGED

ON ICE AMBIENT TEMP. INCORRECT PRESERVATION

LAB USE	CLIENT SAMPLE ID	DATE	TIME	TYPE	PH	ANALYSIS REQUESTED							System Number / Station Code
						FECAL COLIFORM	AMMONIA NITROGEN	TOTAL (AS N)	NITRATE NITROGEN	TOTAL (AS N)	PHOSPHOROUS TOTAL	POTASSIUM TOTAL	
	1/DIEGESTER SLUDGE	9-13-12	1:25	WW	X	X	X	X	X	X	X		

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
(Burt)	MALAGA CO. WATER DIST.	9-13-12	1420	<i>[Signature]</i>	<i>[Signature]</i>

- c. Sampling records shall be retained for a minimum of five years. A log shall be kept of sludge quantities generated and of handling and disposal activities. The frequency of entries is discretionary; however, the log should be complete enough to serve as a basis for part of the annual report.
- d. Upon removal of sludge, the Discharger shall submit characterization of sludge quality, including sludge percent solids and quantitative results of chemical analysis for the priority pollutants listed in 40 CFR 122 Appendix D, Tables II and III (excluding total phenols). Suggested methods for analysis of sludge are provided in USEPA publications titled "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods" and "Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater". Recommended analytical holding times for sludge samples should reflect those specified in 40 CFR 136.6.3(e). Other guidance is available in USEPA's POTW Sludge Sampling and Analysis Guidance Document, August 1989.

Parameter	Units	Sample Type	Minimum Sampling Frequency ²	Required Analytical Test Method
pH	Standard Units	Grab	1/Year	1, 2
Fecal Coliform	MPN/100 ml	Grab	1/Year	1, 2
Ammonia Nitrogen, Total (as N)	mg/kg	Grab	1/Year	1, 2
Nitrate Nitrogen, Total (as N)	mg/kg	Grab	1/Year	1, 2
Phosphorous, Total	mg/kg	Grab	1/Year	1, 2
Potassium, Total	mg/kg	Grab	1/Year	1, 2
Metals ³	mg/kg	Grab	1/Year	1, 2

1. Pollutants shall be analyzed using the analytical methods described in 40 CFR 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.
2. When sludge is removed from the treatment units (or at least annually), but prior to disposal, a composite sample of sludge shall be analyzed, on a dry weight basis.
3. Arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium and zinc analysis of soluble concentrations of heavy metals shall also be included as needed. Sampling records shall be retained for a minimum of five years. A log shall be kept of sludge quantities generated and of handling and disposal activities. Additional sludge sampling may be requested at subsequent intervals, depending upon review of analytical results. An annual sludge monitoring report shall be submitted and shall include all of the above information.

G. Municipal Water Supply

1. Monitoring Location SPL-001

The Discharger shall monitor the Municipal Water Supply at SPL-001 as follows. A sampling station shall be established where a representative sample of the

Sample Integrity

Page 3 of 4 WO# 2I13027

Date Received: 03/13/12

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	<input checked="" type="checkbox"/>		Analysis Requested	<input checked="" type="checkbox"/>	
Date Sampled	<input checked="" type="checkbox"/>		Any hold times less than 72hr	<input checked="" type="checkbox"/>	
Time Sampled	<input checked="" type="checkbox"/>		Client Name	<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>		Address	<input checked="" type="checkbox"/>	
Special Storage/Handling Ins.			Telephone #	<input checked="" type="checkbox"/>	

Section 4-Bottles/Analysis

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

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:

Sample Integrity

Page 4 of 4

WO# 2113027

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			
HNO3 Plastic			
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			
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			