

**City of Morro Bay and
Cayucos Sanitary District**

**OFFSHORE MONITORING
AND REPORTING PROGRAM**

**RESIDUAL BIOSOLIDS
CHEMICAL ANALYSIS RESULTS**

SEPTEMBER 2008



Marine Research Specialists

**3140 Telegraph Rd., Suite A
Ventura, California 93003**

Report to

**City of Morro Bay and
Cayucos Sanitary District**

**955 Shasta Avenue
Morro Bay, California 93442
(805) 772-6272**

**MONITORING
AND
REPORTING PROGRAM**

**ANNUAL BIOSOLIDS REPORT
CHEMICAL ANALYSIS RESULTS**

SEPTEMBER 2008

Prepared by

**Douglas A. Coats
Bonnie Luke**

Marine Research Specialists

**3140 Telegraph Rd., Suite A
Ventura, California 93003**

**Telephone: (805) 644-1180
Telefax: (805) 289-3935
E-mail: Doug.Coats@mrsenv.com**

October 2008

marine research specialists

3140 Telegraph Rd., Suite A · Ventura, CA 93003 · 805-644-1180

Mr. Bruce Keogh
Wastewater Division Manager
City of Morro Bay
955 Shasta Avenue
Morro Bay, CA 93442

20 October 2008

Reference: Chemical Analysis Results for Biosolid Samples Collected in September 2008

Dear Mr. Keogh:

Enclosed are the results of chemical analyses conducted on a representative composite of biosolid samples collected from the drying beds on 10 September 2008. Also included in this report are pertinent QA/QC data, including chains of custody and analyses of method blanks and spikes. All analyses were conducted following the requirements of Monitoring and Reporting Program Number 98-15¹ to assess compliance with the limitations specified in the Waste Discharge Requirements of the NPDES Permit.² In accordance with the USEPA final decisions not to regulate dioxin and dioxin-like compounds in sewage sludge,³ a dioxin analysis was not conducted on this biosolids sample.

Based on a comparison between measured chemical concentrations in the composite sample and applicable State and Federal regulations, the biosolids amassed in 2008 are not considered hazardous waste, and are considered suitable for land application. A summary of the analytical results is presented in Table 1. Only a few of the more than 150 compounds analyzed in the composite sample were detected at quantifiable concentrations. Six detected chemicals had concentrations so low they could not be quantified. All detected chemicals had concentrations well below the applicable standards. Bulk trace-metal concentrations measured in the September-2008 sample were comparable to concentrations measured in samples collected annually from 1999 through 2007.⁴ The analysis of the 2008 biosolids sample included an assessment of three additional metals (barium, cobalt, and vanadium) that were not analyzed prior to 2003. They were added to provide a complete suite of CAM-17⁵ analytes, even though the current NPDES discharge permit does not require analyses of these additional metals.

¹ Monitoring and Reporting Program No. 98-15 for City of Morro Bay and Cayucos Sanitary District Wastewater Treatment Plant, San Luis Obispo County promulgated by the State of California Regional Water Quality Control Board Central Coast Region and the United States Environmental Protection Agency Region IX, San Francisco California. 11 December 1998.

² State of California Regional Water Quality Control Board Central Coast Region Waste Discharge Requirements Order No. 98-15 and United States Environmental Protection Agency Region IX, San Francisco California National Pollutant Discharge Elimination System Permit No. CA0047881 for City of Morro Bay and Cayucos Sanitary District Wastewater Treatment Plant, San Luis Obispo County.

³ Federal Register: June 12, 2002 (Volume 67, Number 113) [<http://www.epa.gov/fedrgstr/EPA-WATER/2002/June/Day-12/w14761.htm>] and Federal Register: December 21, 2001 (Volume 66, Number 246) [<http://www.epa.gov/fedrgstr/EPA-WATER/2001/December/Day-21/w31342.htm>]

⁴ Marine Research Specialists (MRS). 1999 through 2007. City of Morro Bay and Cayucos Sanitary District, Residual Biosolids Chemical Analysis Results. Prepared for the City of Morro Bay and Cayucos Sanitary District, Morro Bay, CA.

⁵ CAM is an acronym for California Administrative Manual and CAM-17 refers to the list of heavy metals identified in the California Code of Regulations (CCR), Title 22, Chapter 11: *Identification and Listing of Hazardous Waste*.

All trace-metal concentrations measured in the September-2008 sample were below Total Threshold Limit Concentrations (TTLIC) that would designate them as hazardous under federal regulations.⁶ Similarly, dry-weight concentrations for all the metals were well below the federally mandated limits, including the monthly limit for biosolids suitable for land application. One metal, copper, had a bulk wet-weight concentration that exceeded ten-times the Soluble Threshold Limit Concentration (STLC). As a result, the required waste extraction test (WET) was conducted on this compound. The test indicated that the soluble concentration of copper was below the applicable STLC limits that would designate the biosolids as hazardous within the State of California.

Copper occurs naturally in the mineralogy of ambient sediments in the central coast region. As a result, its presence in bulk biosolid samples is not unexpected because sediments enter the collection system through runoff. Copper also enters the collection system through internal corrosion of household plumbing systems, which probably accounts for its consistent detection at low concentrations within effluent samples. As with other metals, the bulk copper concentration determined in the September-2008 sample was comparable to concentrations measured in biosolids samples collected historically.

One synthetic organic contaminant, bis(2-ethylhexyl) phthalate, was detected at quantifiable concentrations in the September-2008 biosolid sample. Bis(2-ethylhexyl)phthalate (BEHP) is a compound that has been consistently detected at low levels in effluent and biosolid samples collected over the past decade.⁷ There is no limit on this compound specified in State and Federal regulations governing biosolids. Phthalate esters, such as BEHP, are components of synthetic dyes, resins, plasticizers, insecticides, and, pharmaceuticals. Nearly 2.7 million metric tons (6 billion pounds) of phthalate esters are produced each year, of which more than half is BEHP. BEHP is a physical plasticizer added to plastic resins to soften them, providing increased flexibility. It is not, however, covalently bound to the resin, which allows it to slowly leach out of the plastic and into the environment over time through evaporation or dissolution. Because of their mobility, high vapor pressure, and the massive scale at which they are produced, phthalate esters, and BEHP in particular, have become pervasive in the environment.

Other compounds listed in Table 1 further characterize the biosolids as required in the waste discharge requirements. Although testing for asbestos is no longer required as part of the NPDES permit, this test was included for completeness.

Please contact the undersigned if you have any questions regarding these results.

Sincerely,

Douglas A. Coats, Ph.D.
Program Manager
Enclosure (Five Report Copies)

⁶ U.S. Government Printing Office (USGPO). 1997b. Code of Federal Regulations. Environmental Protection. Standards for the use or disposal of Sewage Sludge, Land Application, Pollutant Limits. Chapter 40, Part 503, Subpart B. 1 July 1997 edition.

⁷ Section 2.2.11, Page 2-41 of the MBCSD 2007 Annual Report to the City of Morro Bay and Cayucos Sanitary District. Prepared by Marine Research Specialists, February 2008.

Table 1. Summary of Results for Biosolids Analyses

Constituent	Units	Wet Weight				Dry Weight		
		Measured		Limit		Measured	Limit	
		Bulk ⁸	WET ⁹	STLC ¹⁰	TTLC ¹¹	Bulk	Monthly ¹²	Ceiling ¹³
Solids	%	87.7	— ¹⁴	—	—	—	—	—
Total Dissolved Solids	ppm	—	5,600.	—	—	—	—	—
Cyanide	ppm	3.5	—	—	—	4.0	—	—
Antimony	ppm	ND ¹⁵	—	15.	500.	ND	—	—
Arsenic	ppm	4.0	—	5.	500.	4.5	41.	75.
Barium	ppm	400.	—	100.	10,000.	450.	—	—
Beryllium	ppm	≈0.16 ¹⁶	—	0.75	75.	≈0.18	—	—
Boron	ppm	12.	—	—	—	14.	—	—
Cadmium	ppm	3.5	—	1.	100.	4.0	39.	85.
Chromium (Total)	ppm	46.	—	560.	2500.	52.	—	—
Chromium (Hexavalent)	ppm	0.79	—	5.	500.	0.90	—	—
Cobalt	ppm	4.7	—	80.	8,000.	5.3	1,500.	4,300.
Copper	ppm	470. ¹⁷	10.	25.	2,500.	530.	1,500.	4,300.
Lead	ppm	45.	0.78	5.	1,000.	52.	300.	840.
Mercury	ppm	1.2	—	0.2	20.	1.4	17.	57.
Molybdenum	ppm	20.	—	350.	3,500.	22.	—	—
Nickel	ppm	36.	—	20.	2,000.	42.	420.	420.
Selenium	ppm	7.8	—	1.	100.	8.9	100.	100.
Silver	ppm	3.6	—	5.	500.	4.1	—	—
Thallium	ppm	≈2.1	—	7.	700.	≈2.4	—	—
Vanadium	ppm	25.	—	24.	2,400.	29.	—	—
Zinc	ppm	1,100.	—	250.	5,000.	1,200.	2,800.	7,500.
Asbestos	%	ND	—	—	1.	ND	—	—
Bis(2-ethylhexyl) phthalate	ppm	82.	—	—	—	93.	—	—
Hydrogen-Ion	pH	6.43	—	—	—	—	—	—

⁸ The total wet-weight concentration (mg/Kg) within a bulk biosolid sample consisting of the entire millable solid matrix rather than just the leachate

⁹ Waste Extraction Tests (WET) measure the soluble leachate (mg/L) or the extractable amount of a substance contained within a bulk sample of biosolids. A WET is indicated if the bulk wet-weight concentration of a contaminant in a biosolids sample exceeds ten times the STLC.

¹⁰ Soluble Threshold Limit Concentrations (STLC) apply to the measured concentration in the liquid extract from a biosolid sample, as determined by a WET. Biosolids with leachate concentrations exceeding the STLC are classified as hazardous in the State of California as described in the California Code of Regulations (CCR), Title 22, Chapter 11: *Identification and Listing of Hazardous Waste*.

¹¹ Total Threshold Limit Concentrations (TTLC) apply to the total wet-weight concentration of a contaminant (mg/Kg) within a bulk biosolid sample consisting of the entire millable solid matrix rather than just the leachate. Biosolids are designated as hazardous wastes in the State of California if measured bulk concentrations exceed the TTLC as described in the CCRs, *op. cit.*

¹² Federally mandated dry-weight limits imposed on biosolids suitable for application on agricultural land apply to monthly average concentrations as defined in Table 3 of the Code of Federal Regulations (CFRs). Environmental Protection. Standards for the use or disposal of Sewage Sludge, Land Application, Pollutant Limits. Chapter 40, Part 503, Subpart B [40 CFR §503.13(b)(1)].

¹³ Federally mandated dry-weight ceiling concentrations above which biosolids are considered hazardous waste as defined in Table 1 of the CFRs, *op. cit.*

¹⁴ “—” indicates that the measurement was not required or its limit was not specified.

¹⁵ “≈” indicates that the compound was detected, but its reported concentration was below the practical quantification limit and thus, was too low to be reliably quantified.

¹⁶ “ND” indicates that the measurement was not detected in concentrations exceeding the method detection limit.

¹⁷ Bulk concentrations shown in bold were greater than ten times the STLC and a WET was conducted.

Constituent	Units	Wet Weight				Dry Weight		
		Measured		Limit		Measured	Limit	
		Bulk ⁸	WET ⁹	STLC ¹⁰	TTLT ¹¹	Bulk	Monthly ¹²	Ceiling ¹³
Phosphate	mg/kg	79,000.	—	—	—	90,000.	—	—
Ammonia	mg/kg	5,600.	—	—	—	6,400.	—	—
TKN	mg/kg	29,000.	—	—	—	34,000.	—	—
Organic Nitrogen ¹⁸	mg/kg	23,400.	—	—	—	27,600.	—	—
Nitrate as NO ₃	mg/kg	2,400.	—	—	—	2,700.	—	—
Oil & Grease	ppm	54,000.	—	—	—	62,000.	—	—

¹⁸ The amount of nitrogen as reported by TKN excluding ammonia

CHEMICAL ANALYSIS RESULTS



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

BCL Sample ID: 0811986-01 **Client Sample Name:** Composit Biosolids, 9/10/2008 2:00:00PM

Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
	Result	Result					Date	Date/Time				Batch ID	Bias	Quals
Aldrin	ND	ND	mg/kg	0.014	0.00075	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
alpha-BHC	ND	ND	mg/kg	0.014	0.0040	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
beta-BHC	ND	ND	mg/kg	0.014	0.011	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
delta-BHC	ND	ND	mg/kg	0.014	0.0022	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
gamma-BHC (Lindane)	ND	ND	mg/kg	0.014	0.0072	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Chlordane (Technical)	ND	ND	mg/kg	1.4	0.43	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
4,4'-DDD	ND	ND	mg/kg	0.014	0.0018	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
4,4'-DDE	ND	ND	mg/kg	0.014	0.0013	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
4,4'-DDT	ND	ND	mg/kg	0.014	0.00089	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
Dieldrin	ND	ND	mg/kg	0.014	0.00092	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Endosulfan I	ND	ND	mg/kg	0.014	0.0025	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Endosulfan II	ND	ND	mg/kg	0.014	0.0019	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Endosulfan sulfate	ND	ND	mg/kg	0.014	0.0038	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
Endrin	ND	ND	mg/kg	0.014	0.0010	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Endrin aldehyde	ND	ND	mg/kg	0.014	0.0018	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Heptachlor	ND	ND	mg/kg	0.014	0.0075	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Heptachlor epoxide	ND	ND	mg/kg	0.014	0.0043	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
Methoxychlor	ND	ND	mg/kg	0.014	0.0038	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	V11
Toxaphene	ND	ND	mg/kg	1.4	0.21	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
PCB-1016	ND	ND	mg/kg	0.29	0.078	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
PCB-1221	ND	ND	mg/kg	0.29	0.14	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	
PCB-1232	ND	ND	mg/kg	0.29	0.035	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

BCL Sample ID: 0811986-01		Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
PCB-1242	ND	ND	mg/kg	0.29	0.047	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND		
PCB-1248	ND	ND	mg/kg	0.29	0.035	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND		
PCB-1254	ND	ND	mg/kg	0.29	0.022	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND		
PCB-1260	ND	ND	mg/kg	0.29	0.063	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND		
Total PCB's (Summation)	ND	ND	mg/kg	0.29	0.14	EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434	ND		
TCMX (Surrogate)	0	0	%	65 - 129 (LCL - UCL)		EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434		A17	
Dibutyl chlorendate (Surrogate)	0	0	%	65 - 173 (LCL - UCL)		EPA-8080	09/22/08	09/23/08 00:36	JYT	GC-1	28.846	BRI1434		A17	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organo-Phosphorus Pesticide Analysis (EPA Method 8140)

BCL Sample ID: 0811986-01 **Client Sample Name:** Composit Biosolids, 9/10/2008 2:00:00PM

Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
	Result	Result					Date	Date/Time				Batch ID	Bias	Quals
Azinphos methyl	ND	ND	mg/kg	0.030	0.0056	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Bolstar	0.017	0.015	mg/kg	0.030	0.0042	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	J
Chlorpyrifos	ND	ND	mg/kg	0.030	0.0024	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Coumaphos	ND	ND	mg/kg	0.030	0.0065	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Demeton O/S	0.022	0.019	mg/kg	0.030	0.0045	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	J
Diazinon	ND	ND	mg/kg	0.030	0.0018	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Dichlorvos	ND	ND	mg/kg	0.030	0.018	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Disulfoton	0.021	0.018	mg/kg	0.030	0.0033	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	J
Ethoprop	ND	ND	mg/kg	0.030	0.0024	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Fensulfothion	ND	ND	mg/kg	0.030	0.016	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Fenthion	ND	ND	mg/kg	0.030	0.0030	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Merphos	ND	ND	mg/kg	0.030	0.0033	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Methyl parathion	ND	ND	mg/kg	0.030	0.0062	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Mevinphos	ND	ND	mg/kg	0.030	0.0042	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Naled	ND	ND	mg/kg	0.030	0.0050	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Phorate	ND	ND	mg/kg	0.030	0.0018	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Ronnel (Fenclorphos)	ND	ND	mg/kg	0.030	0.0048	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Stirophos (Tetrachlorvinphos)	ND	ND	mg/kg	0.030	0.0074	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Tokuthion (Prothiofos)	ND	ND	mg/kg	0.030	0.0030	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Trichloronate	ND	ND	mg/kg	0.030	0.0033	EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579	ND	
Triphenylphosphate (Surrogate)	82.0	82.0	%	60 - 129 (LCL - UCL)		EPA-8140	09/22/08	09/26/08 05:29	OAA	GC-7	2.970	BRI1579		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Volatile Organic Analysis (EPA Method 8240)

BCL Sample ID:	0811986-01		Client Sample Name:	Composit Biosolids, 9/10/2008 2:00:00PM											
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Bromodichloromethane	ND	ND	mg/kg	0.050	0.0076	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Bromoform	ND	ND	mg/kg	0.050	0.0085	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Bromomethane	ND	ND	mg/kg	0.050	0.015	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08,V11	
Carbon tetrachloride	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Chlorobenzene	ND	ND	mg/kg	0.050	0.0080	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Chloroethane	ND	ND	mg/kg	0.050	0.014	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Chloroform	ND	ND	mg/kg	0.050	0.012	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Chloromethane	ND	ND	mg/kg	0.050	0.0087	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Dibromochloromethane	ND	ND	mg/kg	0.050	0.0062	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,2-Dichlorobenzene	ND	ND	mg/kg	0.050	0.012	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,3-Dichlorobenzene	ND	ND	mg/kg	0.050	0.0089	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,4-Dichlorobenzene	ND	ND	mg/kg	0.050	0.011	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1-Dichloroethane	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,2-Dichloroethane	ND	ND	mg/kg	0.050	0.011	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1-Dichloroethene	ND	ND	mg/kg	0.050	0.014	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
trans-1,2-Dichloroethene	ND	ND	mg/kg	0.050	0.011	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08,V11	
1,2-Dichloropropane	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
cis-1,3-Dichloropropene	ND	ND	mg/kg	0.050	0.0065	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
trans-1,3-Dichloropropene	ND	ND	mg/kg	0.050	0.0089	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Ethylbenzene	ND	ND	mg/kg	0.050	0.014	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Methylene chloride	ND	ND	mg/kg	0.10	0.025	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08,V11	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/21/2008 16:09

Volatile Organic Analysis (EPA Method 8240)

BCL Sample ID: 0811986-01		Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Methyl t-butyl ether	ND	ND	mg/kg	0.050	0.0064	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1,2,2-Tetrachloroethane	ND	ND	mg/kg	0.050	0.0092	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Tetrachloroethene	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Toluene	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1,1-Trichloroethane	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1,2-Trichloroethane	ND	ND	mg/kg	0.050	0.012	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Trichloroethene	ND	ND	mg/kg	0.050	0.013	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Trichlorofluoromethane	ND	ND	mg/kg	0.050	0.0081	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	mg/kg	0.050	0.014	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Vinyl chloride	ND	ND	mg/kg	0.050	0.011	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Total Xylenes	ND	ND	mg/kg	0.10	0.034	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08	
Acrolein	ND	ND	mg/kg	0.50	0.042	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08,V11	
Acrylonitrile	ND	ND	mg/kg	0.20	0.014	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,S08,V11	
2-Chloroethyl vinyl ether	ND	ND	mg/kg	0.50	0.25	EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522	ND	A10,A85,S08	
1,2-Dichloroethane-d4 (Surrogate)	120	120	%	70 - 121 (LCL - UCL)		EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522			
Toluene-d8 (Surrogate)	81.4	81.4	%	81 - 117 (LCL - UCL)		EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522			
4-Bromofluorobenzene (Surrogate)	71.9	71.9	%	74 - 121 (LCL - UCL)		EPA-8240	09/12/08	09/15/08 17:10	LHS	MS-V2	10	BRI0522		A20,S09	

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.



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 0811986-01 **Client Sample Name:** Composit Biosolids, 9/10/2008 2:00:00PM

Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB Bias	Lab Quals
	Result	Result					Date	Date/Time				Batch ID		
Acenaphthene	ND	ND	mg/kg	7.5	4.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Acenaphthylene	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Aldrin	ND	ND	mg/kg	7.5	4.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Aniline	ND	ND	mg/kg	15	1.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Anthracene	ND	ND	mg/kg	7.5	5.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzidine	ND	ND	mg/kg	220	110	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzo[a]anthracene	ND	ND	mg/kg	7.5	4.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzo[b]fluoranthene	ND	ND	mg/kg	7.5	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzo[k]fluoranthene	ND	ND	mg/kg	7.5	4.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzo[a]pyrene	ND	ND	mg/kg	7.5	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzo[g,h,i]perylene	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzoic acid	ND	ND	mg/kg	38	2.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzyl alcohol	ND	ND	mg/kg	7.5	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Benzyl butyl phthalate	ND	ND	mg/kg	7.5	4.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
alpha-BHC	ND	ND	mg/kg	7.5	4.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
beta-BHC	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
delta-BHC	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
gamma-BHC (Lindane)	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
bis(2-Chloroethoxy)methane	ND	ND	mg/kg	7.5	3.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
bis(2-Chloroethyl) ether	ND	ND	mg/kg	7.5	3.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
bis(2-Chloroisopropyl)ether	ND	ND	mg/kg	7.5	3.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
bis(2-Ethylhexyl)phthalate	93	82	mg/kg	15	5.1	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	16	A10,M03

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
Certifications: California - ELAP Certification Number 1186; Nevada Administrative Code - NAC-445A

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 0811986-01		Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
4-Bromophenyl phenyl ether	ND	ND	mg/kg	7.5	5.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
4-Chloroaniline	ND	ND	mg/kg	7.5	2.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
2-Chloronaphthalene	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
4-Chlorophenyl phenyl ether	ND	ND	mg/kg	7.5	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Chrysene	ND	ND	mg/kg	7.5	4.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
4,4'-DDD	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
4,4'-DDE	ND	ND	mg/kg	7.5	4.1	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
4,4'-DDT	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Dibenzo[a,h]anthracene	ND	ND	mg/kg	7.5	4.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Dibenzofuran	ND	ND	mg/kg	7.5	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
1,2-Dichlorobenzene	ND	ND	mg/kg	7.5	3.2	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
1,3-Dichlorobenzene	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
1,4-Dichlorobenzene	ND	ND	mg/kg	7.5	3.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
3,3-Dichlorobenzidine	ND	ND	mg/kg	15	3.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Dieldrin	ND	ND	mg/kg	7.5	1.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Diethyl phthalate	ND	ND	mg/kg	7.5	6.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Dimethyl phthalate	ND	ND	mg/kg	7.5	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Di-n-butyl phthalate	ND	ND	mg/kg	7.5	0.66	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
2,4-Dinitrotoluene	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
2,6-Dinitrotoluene	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
Di-n-octyl phthalate	ND	ND	mg/kg	7.5	6.1	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	
1,2-Diphenylhydrazine	ND	ND	mg/kg	7.5	0.68	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 0811986-01 **Client Sample Name:** Composit Biosolids, 9/10/2008 2:00:00PM

Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB Bias	Lab Quals
	Result	Result					Date	Date/Time				Batch ID		
Endosulfan I	ND	ND	mg/kg	15	3.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Endosulfan II	ND	ND	mg/kg	15	3.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Endosulfan sulfate	ND	ND	mg/kg	7.5	4.1	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Endrin	ND	ND	mg/kg	15	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Endrin aldehyde	ND	ND	mg/kg	38	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Fluoranthene	ND	ND	mg/kg	7.5	5.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Fluorene	ND	ND	mg/kg	7.5	3.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Heptachlor	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Heptachlor epoxide	ND	ND	mg/kg	7.5	4.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Hexachlorobenzene	ND	ND	mg/kg	7.5	4.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Hexachlorobutadiene	ND	ND	mg/kg	7.5	3.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Hexachlorocyclopentadiene	ND	ND	mg/kg	7.5	2.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Hexachloroethane	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Indeno[1,2,3-cd]pyrene	ND	ND	mg/kg	7.5	5.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Isophorone	ND	ND	mg/kg	7.5	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Methylnaphthalene	ND	ND	mg/kg	7.5	4.2	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Naphthalene	ND	ND	mg/kg	7.5	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Naphthylamine	ND	ND	mg/kg	220	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Nitroaniline	ND	ND	mg/kg	7.5	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
3-Nitroaniline	ND	ND	mg/kg	7.5	3.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
4-Nitroaniline	ND	ND	mg/kg	15	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Nitrobenzene	ND	ND	mg/kg	7.5	3.4	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 0811986-01 **Client Sample Name:** Composit Biosolids, 9/10/2008 2:00:00PM

Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
	Result	Result					Date	Date/Time				Batch ID	Bias	Quals
N-Nitrosodimethylamine	ND	ND	mg/kg	7.5	2.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
N-Nitrosodi-N-propylamine	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
N-Nitrosodiphenylamine	ND	ND	mg/kg	7.5	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Phenanthrene	ND	ND	mg/kg	7.5	5.2	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Pyrene	ND	ND	mg/kg	7.5	4.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
1,2,4-Trichlorobenzene	ND	ND	mg/kg	7.5	3.8	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
4-Chloro-3-methylphenol	ND	ND	mg/kg	15	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Chlorophenol	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2,4-Dichlorophenol	ND	ND	mg/kg	7.5	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2,4-Dimethylphenol	ND	ND	mg/kg	7.5	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
4,6-Dinitro-2-methylphenol	ND	ND	mg/kg	38	2.1	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2,4-Dinitrophenol	ND	ND	mg/kg	38	16	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Methylphenol	ND	ND	mg/kg	7.5	3.9	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
3- & 4-Methylphenol	ND	ND	mg/kg	15	9.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Nitrophenol	ND	ND	mg/kg	7.5	3.5	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
4-Nitrophenol	ND	ND	mg/kg	15	4.0	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Pentachlorophenol	ND	ND	mg/kg	15	4.6	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
Phenol	ND	ND	mg/kg	7.5	4.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2,4,5-Trichlorophenol	ND	ND	mg/kg	15	4.7	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2,4,6-Trichlorophenol	ND	ND	mg/kg	15	5.3	EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426	ND	A10
2-Fluorophenol (Surrogate)	100	100	%	42 - 123 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10
Phenol-d5 (Surrogate)	106	106	%	38 - 121 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 0811986-01	Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrobenzene-d5 (Surrogate)	112	112	%	41 - 125 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10
2-Fluorobiphenyl (Surrogate)	109	109	%	39 - 128 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10
2,4,6-Tribromophenol (Surrogate)	105	105	%	49 - 135 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10
p-Terphenyl-d14 (Surrogate)	129	129	%	36 - 156 (LCL - UCL)		EPA-8270C	09/22/08	09/22/08 20:20	SKC	MS-B2	75	BRI1426		A10



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

EPA Method 1664

BCL Sample ID: 0811986-01	Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Oil and Grease	62000	54000	mg/kg	100	42	EPA-1664HE	09/15/08	09/15/08 09:30	JAK	MAN-SV	2	BRI0982	ND	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Chemical Analysis

BCL Sample ID: 0811986-01		Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM														
Constituent	Dry Basis	As Recvd	Units	PQL	MDL	Method	Prep		Run		Analyst	Instru- ment ID	Dilution	QC	MB	Lab
	Result	Result					Date	Date/Time	Batch ID	Bias				Quals		
Moisture	0	12.3	%	0.05	0.05	Calc	09/15/08	09/24/08	21:55	MSA	Calc	1	BRI0932	ND		
Total Cyanide	4.0	3.5	mg/kg	0.50	0.25	EPA-9012	09/16/08	09/17/08	11:16	TDC	KONE-1	1	BRI1000	ND		
pH	6.43	6.43	pH Units	0.05	0.05	EPA-9045	09/15/08	09/15/08	11:30	FM2	B360	1	BRI1007			pH1:3
Nitrate as NO3	2700	2400	mg/kg	22	3.8	EPA-300.0	09/16/08	09/17/08	04:37	PB1	IC2	5	BRI1008	ND		A01
Total Kjeldahl Nitrogen	34000	29000	mg/kg	4000	2000	EPA-351.2	09/15/08	09/17/08	12:05	JSM	SC-1	100	BRI0964	ND		A01
Ammonia as N	6400	5600	mg/kg	1000	500	EPA-350.1	09/17/08	09/18/08	12:45	JSM	SC-1	100	BRI1084	ND		A01
Total Phosphate	90000	79000	mg/kg	3000	1200	EPA-365.4	09/15/08	09/18/08	09:04	JSM	SC-1	100	BRI0966	ND		A01
Solids	100	87.7	%	0.05	0.05	SM-2540G	09/16/08	09/16/08	08:55	VBA	MANUAL	1	BRI1064			



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Modified WET Test (STLC)

BCL Sample ID: 0811986-01	Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Dissolved Solids @ 180 C	6400	5600	mg/L	200	200	EPA-160.1	09/18/08	09/18/08 15:30	JLR	MANUAL	20	BRI1511	ND	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

WET Test (STLC)

BCL Sample ID:	0811986-01	Client Sample Name:	Composit Biosolids, 9/10/2008 2:00:00PM											
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Copper	12	10	mg/L	0.10	0.012	EPA-6010B	09/18/08	09/18/08 12:39	ARD	PE-OP1	1	BR11232	ND	
Lead	0.89	0.78	mg/L	0.50	0.16	EPA-6010B	09/18/08	09/18/08 12:39	ARD	PE-OP1	1	BR11232	ND	

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

BCL Sample ID: 0811986-01		Client Sample Name: Composit Biosolids, 9/10/2008 2:00:00PM													
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Antimony	ND	ND	mg/kg	5.0	0.80	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Arsenic	4.5	4.0	mg/kg	1.0	0.36	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Barium	450	400	mg/kg	0.50	0.15	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Beryllium	0.18	0.16	mg/kg	0.50	0.011	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND	J	
Cadmium	4.0	3.5	mg/kg	0.50	0.035	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Chromium	52	46	mg/kg	0.50	0.13	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Total Hexavalent Chromium	0.90	0.79	mg/kg	1.0	0.50	EPA-7199	09/29/08	09/30/08 14:11	VH1	IC4	1	BRI2049	ND	J	
Cobalt	5.3	4.7	mg/kg	2.5	0.13	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Copper	530	470	mg/kg	1.0	0.15	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	0.29		
Lead	52	45	mg/kg	2.5	0.70	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Mercury	1.4	1.2	mg/kg	0.32	0.028	EPA-7471A	09/15/08	09/15/08 14:28	MEV	CETAC1	1.953	BRI0916	ND	A01	
Molybdenum	22	20	mg/kg	2.5	0.099	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Nickel	42	36	mg/kg	0.50	0.12	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Selenium	8.9	7.8	mg/kg	1.0	0.42	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Silver	4.1	3.6	mg/kg	0.50	0.13	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Thallium	2.4	2.1	mg/kg	5.0	0.77	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND	J	
Vanadium	29	25	mg/kg	0.50	0.11	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	ND		
Zinc	1200	1100	mg/kg	2.5	0.35	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	0.46		
Boron	14	12	mg/kg	5.0	0.53	EPA-6010B	09/17/08	09/17/08 15:04	ARD	PE-OP1	0.980	BRI1123	1.0		



LA Testing

159 Pasadena Avenue, South Pasadena, CA 91030

Phone: (323) 254-9960 Fax: (323) 254-9982 Email: pasadenalab@latesting.com

Attn: **Tina Green**
BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308

Customer ID: 32BCLA50
Customer PO:
Received: 09/15/08 9:00 AM
LA Testing Order: 320810533

Fax: (661) 327-1918 Phone: (661) 327-4911
Project: 0811986

LA Testing Proj:
Analysis Date: 9/19/2008
Report Date: 9/19/2008

Qualitative asbestos analysis of soils using the EPA 600/R-93/116 method

Sample	Location	Appearance	Result	Notes
0811986-01-A 320810533-0001			None Detected	

Analyst(s) _____

Lei Wu (1)

Derrick Tanner, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.

ACCREDITATIONS: NVLAP 200232-0, California State DHS #2283

QA/QC REPORTS & CHAINS OF CUSTODY



Date of Report: 10/02/2008

Doug Coats

Marine Research Specialists

3140 Telegraph Road, Suite A

Suite A

Ventura, CA 93003-3238

RE: Biosolids from MBWWTP

BC Work Order: 0811986

Enclosed are the results of analyses for samples received by the laboratory on 9/10/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green

Client Services Manager

Authorized Signature



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

0811986-01	COC Number: ---	Receive Date: 09/10/2008 19:00
	Project Number: ---	Sampling Date: 09/10/2008 14:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Composit Biosolids	Sample Matrix: Solids
	Sampled By: ---	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Aldrin	BRI1434	Matrix Spike	0807421-84	ND	0.0068367	0.0083056	mg/kg		82.3		67 - 133	
		Matrix Spike Duplicate	0807421-84	ND	0.012936	0.0082781	mg/kg	61.9	156	30	67 - 133	Q03
gamma-BHC (Lindane)	BRI1434	Matrix Spike	0807421-84	ND	0.0069636	0.0083056	mg/kg		83.8		58 - 117	
		Matrix Spike Duplicate	0807421-84	ND	0.0068630	0.0082781	mg/kg	1.1	82.9	30	58 - 117	
4,4'-DDT	BRI1434	Matrix Spike	0807421-84	ND	0.0087223	0.0083056	mg/kg		105		43 - 129	
		Matrix Spike Duplicate	0807421-84	ND	0.0086145	0.0082781	mg/kg	1.0	104	30	43 - 129	
Dieldrin	BRI1434	Matrix Spike	0807421-84	ND	0.0061753	0.0083056	mg/kg		74.4		74 - 121	
		Matrix Spike Duplicate	0807421-84	ND	0.0062628	0.0082781	mg/kg	1.7	75.7	30	74 - 121	
Endrin	BRI1434	Matrix Spike	0807421-84	ND	0.0070813	0.0083056	mg/kg		85.3		46 - 144	
		Matrix Spike Duplicate	0807421-84	ND	0.0070212	0.0082781	mg/kg	0.6	84.8	30	46 - 144	
Heptachlor	BRI1434	Matrix Spike	0807421-84	ND	0.0066473	0.0083056	mg/kg		80.0		72 - 132	
		Matrix Spike Duplicate	0807421-84	ND	0.0065520	0.0082781	mg/kg	1.1	79.1	30	72 - 132	
TCMX (Surrogate)	BRI1434	Matrix Spike	0807421-84	ND	0.0098179	0.0099668	mg/kg		98.5		65 - 129	
		Matrix Spike Duplicate	0807421-84	ND	0.0096203	0.0099338	mg/kg		96.8		65 - 129	
Dibutyl chlorendate (Surrogate)	BRI1434	Matrix Spike	0807421-84	ND	0.027241	0.024917	mg/kg		109		65 - 173	
		Matrix Spike Duplicate	0807421-84	ND	0.026039	0.024834	mg/kg		105		65 - 173	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organo-Phosphorus Pesticide Analysis (EPA Method 8140)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Bolstar	BRI1579	Matrix Spike	0809520-61	ND	0.023841	0.033113	mg/kg		72.0		27 - 134	
		Matrix Spike Duplicate	0809520-61	ND	0.027243	0.033223	mg/kg	13.0	82.0	30	27 - 134	
Chlorpyrifos	BRI1579	Matrix Spike	0809520-61	ND	0.025000	0.033113	mg/kg		75.5		44 - 132	
		Matrix Spike Duplicate	0809520-61	ND	0.030066	0.033223	mg/kg	18.1	90.5	29	44 - 132	
Diazinon	BRI1579	Matrix Spike	0809520-61	ND	0.019702	0.033113	mg/kg		59.5		42 - 111	
		Matrix Spike Duplicate	0809520-61	ND	0.021927	0.033223	mg/kg	10.4	66.0	30	42 - 111	
Methyl parathion	BRI1579	Matrix Spike	0809520-61	ND	0.026490	0.033113	mg/kg		80.0		49 - 125	
		Matrix Spike Duplicate	0809520-61	ND	0.028738	0.033223	mg/kg	7.8	86.5	29	49 - 125	
Mevinphos	BRI1579	Matrix Spike	0809520-61	ND	0.025828	0.033113	mg/kg		78.0		7 - 133	
		Matrix Spike Duplicate	0809520-61	ND	0.029402	0.033223	mg/kg	12.6	88.5	30	7 - 133	
Ronnel (Fenclorphos)	BRI1579	Matrix Spike	0809520-61	ND	0.024007	0.033113	mg/kg		72.5		45 - 119	
		Matrix Spike Duplicate	0809520-61	ND	0.027741	0.033223	mg/kg	14.1	83.5	25	45 - 119	
Stirophos (Tetrachlorvinphos)	BRI1579	Matrix Spike	0809520-61	ND	0.026656	0.033113	mg/kg		80.5		60 - 132	
		Matrix Spike Duplicate	0809520-61	ND	0.029236	0.033223	mg/kg	8.9	88.0	22	60 - 132	
Triphenylphosphate (Surrogate)	BRI1579	Matrix Spike	0809520-61	ND	0.070530	0.082781	mg/kg		85.2		60 - 129	
		Matrix Spike Duplicate	0809520-61	ND	0.081229	0.083056	mg/kg		97.8		60 - 129	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Volatile Organic Analysis (EPA Method 8240)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Benzene	BRI0522	Matrix Spike	0811604-18	ND	0.13195	0.12500	mg/kg		106		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.13289	0.12500	mg/kg	0	106	20	70 - 130	
Bromodichloromethane	BRI0522	Matrix Spike	0811604-18	ND	0.12274	0.12500	mg/kg		98.2		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12935	0.12500	mg/kg	4.8	103	20	70 - 130	
Chlorobenzene	BRI0522	Matrix Spike	0811604-18	ND	0.13129	0.12500	mg/kg		105		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.13587	0.12500	mg/kg	3.7	109	20	70 - 130	
Chloroethane	BRI0522	Matrix Spike	0811604-18	ND	0.12736	0.12500	mg/kg		102		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12357	0.12500	mg/kg	3.1	98.9	20	70 - 130	
1,4-Dichlorobenzene	BRI0522	Matrix Spike	0811604-18	ND	0.11588	0.12500	mg/kg		92.7		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12917	0.12500	mg/kg	10.5	103	20	70 - 130	
1,1-Dichloroethane	BRI0522	Matrix Spike	0811604-18	ND	0.13031	0.12500	mg/kg		104		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12612	0.12500	mg/kg	2.9	101	20	70 - 130	
1,1-Dichloroethene	BRI0522	Matrix Spike	0811604-18	ND	0.12485	0.12500	mg/kg		99.9		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12013	0.12500	mg/kg	3.9	96.1	20	70 - 130	
Toluene	BRI0522	Matrix Spike	0811604-18	ND	0.13110	0.12500	mg/kg		105		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12290	0.12500	mg/kg	6.6	98.3	20	70 - 130	
Trichloroethene	BRI0522	Matrix Spike	0811604-18	ND	0.12224	0.12500	mg/kg		97.8		70 - 130	
		Matrix Spike Duplicate	0811604-18	ND	0.12403	0.12500	mg/kg	1.4	99.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BRI0522	Matrix Spike	0811604-18	ND	0.051339	0.050000	mg/kg		103		70 - 121	
		Matrix Spike Duplicate	0811604-18	ND	0.048760	0.050000	mg/kg		97.5		70 - 121	
Toluene-d8 (Surrogate)	BRI0522	Matrix Spike	0811604-18	ND	0.051086	0.050000	mg/kg		102		81 - 117	
		Matrix Spike Duplicate	0811604-18	ND	0.050789	0.050000	mg/kg		102		81 - 117	
4-Bromofluorobenzene (Surrogate)	BRI0522	Matrix Spike	0811604-18	ND	0.045658	0.050000	mg/kg		91.3		74 - 121	
		Matrix Spike Duplicate	0811604-18	ND	0.049299	0.050000	mg/kg		98.6		74 - 121	

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Acenaphthene	BRI1426	Matrix Spike	0807421-48	ND	1.5758	1.6556	mg/kg		95.2		45 - 132	
		Matrix Spike Duplicate	0807421-48	ND	1.7513	1.6835	mg/kg	8.8	104	29	45 - 132	
1,4-Dichlorobenzene	BRI1426	Matrix Spike	0807421-48	ND	1.3274	1.6556	mg/kg		80.2		35 - 113	
		Matrix Spike Duplicate	0807421-48	ND	1.4293	1.6835	mg/kg	5.7	84.9	28	35 - 113	
2,4-Dinitrotoluene	BRI1426	Matrix Spike	0807421-48	ND	1.4873	1.6556	mg/kg		89.8		22 - 123	
		Matrix Spike Duplicate	0807421-48	ND	1.7271	1.6835	mg/kg	13.7	103	30	22 - 123	
Hexachlorobenzene	BRI1426	Matrix Spike	0807421-48	ND	1.2472	1.6556	mg/kg		75.3		40 - 125	
		Matrix Spike Duplicate	0807421-48	ND	1.4310	1.6835	mg/kg	12.1	85.0	27	40 - 125	
Hexachlorobutadiene	BRI1426	Matrix Spike	0807421-48	ND	1.1738	1.6556	mg/kg		70.9		34 - 100	
		Matrix Spike Duplicate	0807421-48	ND	1.3301	1.6835	mg/kg	10.8	79.0	30	34 - 100	
Hexachloroethane	BRI1426	Matrix Spike	0807421-48	ND	1.2414	1.6556	mg/kg		75.0		22 - 116	
		Matrix Spike Duplicate	0807421-48	ND	1.3926	1.6835	mg/kg	9.8	82.7	30	22 - 116	
Nitrobenzene	BRI1426	Matrix Spike	0807421-48	ND	1.2779	1.6556	mg/kg		77.2		34 - 110	
		Matrix Spike Duplicate	0807421-48	ND	1.4192	1.6835	mg/kg	8.8	84.3	29	34 - 110	
N-Nitrosodi-N-propylamine	BRI1426	Matrix Spike	0807421-48	ND	1.1751	1.6556	mg/kg		71.0		38 - 94	
		Matrix Spike Duplicate	0807421-48	ND	1.3138	1.6835	mg/kg	9.4	78.0	29	38 - 94	
Pyrene	BRI1426	Matrix Spike	0807421-48	ND	1.1800	1.6556	mg/kg		71.3		38 - 152	
		Matrix Spike Duplicate	0807421-48	ND	1.3320	1.6835	mg/kg	10.4	79.1	30	38 - 152	
1,2,4-Trichlorobenzene	BRI1426	Matrix Spike	0807421-48	ND	1.2991	1.6556	mg/kg		78.5		33 - 111	
		Matrix Spike Duplicate	0807421-48	ND	1.4423	1.6835	mg/kg	8.8	85.7	29	33 - 111	
4-Chloro-3-methylphenol	BRI1426	Matrix Spike	0807421-48	ND	1.6795	1.6556	mg/kg		101		50 - 126	
		Matrix Spike Duplicate	0807421-48	ND	1.9252	1.6835	mg/kg	12.1	114	27	50 - 126	
2-Chlorophenol	BRI1426	Matrix Spike	0807421-48	ND	1.3154	1.6556	mg/kg		79.5		42 - 116	
		Matrix Spike Duplicate	0807421-48	ND	1.4523	1.6835	mg/kg	8.2	86.3	27	42 - 116	
2-Methylphenol	BRI1426	Matrix Spike	0807421-48	ND	1.4778	1.6556	mg/kg		89.3		27 - 124	
		Matrix Spike Duplicate	0807421-48	ND	1.6562	1.6835	mg/kg	9.7	98.4	26	27 - 124	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
3- & 4-Methylphenol	BRI1426	Matrix Spike	0807421-48	ND	2.4406	1.6556	mg/kg		147		89 - 197	
		Matrix Spike Duplicate	0807421-48	ND	2.6800	1.6835	mg/kg	7.8	159	28	89 - 197	
4-Nitrophenol	BRI1426	Matrix Spike	0807421-48	ND	1.6724	1.6556	mg/kg		101		37 - 128	
		Matrix Spike Duplicate	0807421-48	ND	2.1158	1.6835	mg/kg	22.0	126	30	37 - 128	
Pentachlorophenol	BRI1426	Matrix Spike	0807421-48	ND	1.4004	1.6556	mg/kg		84.6		29 - 142	
		Matrix Spike Duplicate	0807421-48	ND	1.6767	1.6835	mg/kg	16.3	99.6	27	29 - 142	
Phenol	BRI1426	Matrix Spike	0807421-48	ND	1.2473	1.6556	mg/kg		75.3		40 - 112	
		Matrix Spike Duplicate	0807421-48	ND	1.3558	1.6835	mg/kg	6.7	80.5	28	40 - 112	
2,4,6-Trichlorophenol	BRI1426	Matrix Spike	0807421-48	ND	1.5092	1.6556	mg/kg		91.2		55 - 120	
		Matrix Spike Duplicate	0807421-48	ND	1.6683	1.6835	mg/kg	8.3	99.1	28	55 - 120	
2-Fluorophenol (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	2.0748	2.6490	mg/kg		78.3		42 - 123	
		Matrix Spike Duplicate	0807421-48	ND	2.3320	2.6936	mg/kg		86.6		42 - 123	
Phenol-d5 (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	2.0540	2.6490	mg/kg		77.5		38 - 121	
		Matrix Spike Duplicate	0807421-48	ND	2.3532	2.6936	mg/kg		87.4		38 - 121	
Nitrobenzene-d5 (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	2.1242	2.6490	mg/kg		80.2		41 - 125	
		Matrix Spike Duplicate	0807421-48	ND	2.3845	2.6936	mg/kg		88.5		41 - 125	
2-Fluorobiphenyl (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	2.1281	2.6490	mg/kg		80.3		39 - 128	
		Matrix Spike Duplicate	0807421-48	ND	2.3949	2.6936	mg/kg		88.9		39 - 128	
2,4,6-Tribromophenol (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	2.2483	2.6490	mg/kg		84.9		49 - 135	
		Matrix Spike Duplicate	0807421-48	ND	2.7603	2.6936	mg/kg		102		49 - 135	
p-Terphenyl-d14 (Surrogate)	BRI1426	Matrix Spike	0807421-48	ND	0.96026	1.3245	mg/kg		72.5		36 - 156	
		Matrix Spike Duplicate	0807421-48	ND	1.0455	1.3468	mg/kg		77.6		36 - 156	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source	Source	Result	Spike	Units	RPD	Percent	Control Limits		Lab Quals
			Sample ID	Result		Added			Recovery	RPD	Recovery	
Oil and Grease	BRI0982	Duplicate	0811986-01	54306	57750		mg/kg	6.1		30		
		Matrix Spike	0811986-01	54306	49920	1540.0	mg/kg		-285		56 - 111	Q03
		Matrix Spike Duplicate	0811986-01	54306	54662	1540.0	mg/kg	235	23.1	30	56 - 111	Q02,Q03



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Total Kjeldahl Nitrogen	BRI0964	Duplicate	0812033-21	304.06	339.22		mg/kg	10.9		20		
		Matrix Spike	0812033-21	304.06	713.32	400.00	mg/kg		102		80 - 120	
		Matrix Spike Duplicate	0812033-21	304.06	762.32	400.00	mg/kg	12.0	115	20	80 - 120	
Total Phosphate	BRI0966	Duplicate	0812033-21	2878.4	2909.8		mg/kg	1.1		20		A01
		Matrix Spike	0812033-21	2878.4	3493.0	613.20	mg/kg		100		80 - 120	A01
		Matrix Spike Duplicate	0812033-21	2878.4	3721.9	613.20	mg/kg	31.9	138	20	80 - 120	A01,A03,Q02
Total Cyanide	BRI1000	Duplicate	0808791-02	ND	ND		mg/kg			20		A02
		Matrix Spike	0808791-02	ND	9.7578	10.000	mg/kg		97.6		80 - 120	A02
		Matrix Spike Duplicate	0808791-02	ND	10.270	10.000	mg/kg	5.4	103	20	80 - 120	A02
pH	BRI1007	Duplicate	0812033-11	8.2400	8.2350		pH Units	0.1		20		pH1:1
Nitrate as NO3	BRI1008	Duplicate	0811942-01	444.67	461.49		mg/kg	3.7		20		A01
		Matrix Spike	0811942-01	444.67	1627.0	1117.9	mg/kg		106		80 - 120	A01
		Matrix Spike Duplicate	0811942-01	444.67	1592.3	1117.9	mg/kg	2.9	103	20	80 - 120	A01
Solids	BRI1064	Duplicate	0811986-01	87.700	86.900		%	0.9		20		
Ammonia as N	BRI1084	Duplicate	0811942-01	3398.0	3492.0		mg/kg	2.7		20		A01
		Matrix Spike	0811942-01	3398.0	4097.2	500.00	mg/kg		140		80 - 120	A01,A03
		Matrix Spike Duplicate	0811942-01	3398.0	4111.4	500.00	mg/kg	2.1	143	20	80 - 120	A01,A03



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
									Percent Recovery	Percent Recovery	
Total Dissolved Solids @ 180 C	BRI1511	Duplicate	0811986-01	5640.0	5600.0		mg/L	0.7		20	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source	Source	Spike	Units	RPD	Percent Recovery	Control Limits		Lab Quals
			Sample ID	Result					Result	RPD	
Copper	BRI1232	Duplicate	0811986-01	10.478	10.043	mg/L	4.2		20		
		Matrix Spike	0811986-01	10.478	31.400	20.408	mg/L		103		75 - 125
		Matrix Spike Duplicate	0811986-01	10.478	32.285	20.408	mg/L	3.8	107	20	75 - 125
Lead	BRI1232	Duplicate	0811986-01	0.78365	0.76374	mg/L	2.6		20		
		Matrix Spike	0811986-01	0.78365	19.467	20.408	mg/L		91.5		75 - 125
		Matrix Spike Duplicate	0811986-01	0.78365	20.073	20.408	mg/L	3.2	94.5	20	75 - 125



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Mercury	BRI0916	Duplicate	0811986-01	1.2328	1.5297		mg/kg	21.5		20		A01,Q01
		Matrix Spike	0811986-01	1.2328	1.7733	0.75758	mg/kg		71.3		85 - 115	A01,Q03
		Matrix Spike Duplicate	0811986-01	1.2328	2.1676	0.73529	mg/kg	56.2	127	20	85 - 115	A01,Q03
Antimony	BRI1123	Duplicate	0811986-01	ND	ND		mg/kg			20		
		Matrix Spike	0811986-01	ND	44.636	98.039	mg/kg		45.5		16 - 119	
		Matrix Spike Duplicate	0811986-01	ND	41.319	98.039	mg/kg	7.8	42.1	20	16 - 119	
Arsenic	BRI1123	Duplicate	0811986-01	3.9640	4.4888		mg/kg	12.4		20		
		Matrix Spike	0811986-01	3.9640	13.214	9.8039	mg/kg		94.4		75 - 125	
		Matrix Spike Duplicate	0811986-01	3.9640	12.484	9.8039	mg/kg	8.3	86.9	20	75 - 125	
Barium	BRI1123	Duplicate	0811986-01	396.31	402.54		mg/kg	1.6		20		
		Matrix Spike	0811986-01	396.31	482.80	98.039	mg/kg		88.2		75 - 125	
		Matrix Spike Duplicate	0811986-01	396.31	470.93	98.039	mg/kg	14.7	76.1	20	75 - 125	
Beryllium	BRI1123	Duplicate	0811986-01	0.15719	0.15734		mg/kg	0.1		20		J
		Matrix Spike	0811986-01	0.15719	9.5937	9.8039	mg/kg		96.3		75 - 125	
		Matrix Spike Duplicate	0811986-01	0.15719	9.4518	9.8039	mg/kg	1.6	94.8	20	75 - 125	
Cadmium	BRI1123	Duplicate	0811986-01	3.5304	3.4828		mg/kg	1.4		20		
		Matrix Spike	0811986-01	3.5304	12.787	9.8039	mg/kg		94.4		75 - 125	
		Matrix Spike Duplicate	0811986-01	3.5304	12.406	9.8039	mg/kg	4.2	90.5	20	75 - 125	
Chromium	BRI1123	Duplicate	0811986-01	45.984	45.860		mg/kg	0.3		20		
		Matrix Spike	0811986-01	45.984	135.84	98.039	mg/kg		91.7		75 - 125	
		Matrix Spike Duplicate	0811986-01	45.984	134.09	98.039	mg/kg	2.0	89.9	20	75 - 125	
Cobalt	BRI1123	Duplicate	0811986-01	4.6852	4.5251		mg/kg	3.5		20		
		Matrix Spike	0811986-01	4.6852	93.274	98.039	mg/kg		90.4		75 - 125	
		Matrix Spike Duplicate	0811986-01	4.6852	91.915	98.039	mg/kg	1.6	89.0	20	75 - 125	
Copper	BRI1123	Duplicate	0811986-01	469.19	462.47		mg/kg	1.4		20		
		Matrix Spike	0811986-01	469.19	553.50	98.039	mg/kg		86.0		75 - 125	
		Matrix Spike Duplicate	0811986-01	469.19	550.32	98.039	mg/kg	3.8	82.8	20	75 - 125	

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
Certifications: California - ELAP Certification Number 1186; Nevada Administrative Code - NAC-445A

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Lead	BRI1123	Duplicate	0811986-01	45.353	44.937		mg/kg	0.9		20		
		Matrix Spike	0811986-01	45.353	131.06	98.039	mg/kg		87.4		75 - 125	
		Matrix Spike Duplicate	0811986-01	45.353	126.84	98.039	mg/kg	5.0	83.1	20	75 - 125	
Molybdenum	BRI1123	Duplicate	0811986-01	19.721	19.427		mg/kg	1.5		20		
		Matrix Spike	0811986-01	19.721	106.74	98.039	mg/kg		88.8		75 - 125	
		Matrix Spike Duplicate	0811986-01	19.721	103.23	98.039	mg/kg	4.1	85.2	20	75 - 125	
Nickel	BRI1123	Duplicate	0811986-01	36.401	35.849		mg/kg	1.5		20		
		Matrix Spike	0811986-01	36.401	128.59	98.039	mg/kg		94.0		75 - 125	
		Matrix Spike Duplicate	0811986-01	36.401	127.04	98.039	mg/kg	1.6	92.5	20	75 - 125	
Selenium	BRI1123	Duplicate	0811986-01	7.8343	7.1901		mg/kg	8.6		20		
		Matrix Spike	0811986-01	7.8343	16.674	9.8039	mg/kg		90.2		75 - 125	
		Matrix Spike Duplicate	0811986-01	7.8343	15.410	9.8039	mg/kg	15.4	77.3	20	75 - 125	
Silver	BRI1123	Duplicate	0811986-01	3.6328	3.4700		mg/kg	4.6		20		
		Matrix Spike	0811986-01	3.6328	10.063	9.8039	mg/kg		65.6		75 - 125	Q03
		Matrix Spike Duplicate	0811986-01	3.6328	9.9611	9.8039	mg/kg	1.7	64.5	20	75 - 125	Q03
Thallium	BRI1123	Duplicate	0811986-01	2.0746	2.7464		mg/kg	27.9		20		J,A02
		Matrix Spike	0811986-01	2.0746	86.372	98.039	mg/kg		86.0		75 - 125	
		Matrix Spike Duplicate	0811986-01	2.0746	83.971	98.039	mg/kg	2.9	83.5	20	75 - 125	
Vanadium	BRI1123	Duplicate	0811986-01	25.489	25.677		mg/kg	0.7		20		
		Matrix Spike	0811986-01	25.489	118.86	98.039	mg/kg		95.2		75 - 125	
		Matrix Spike Duplicate	0811986-01	25.489	117.45	98.039	mg/kg	1.5	93.8	20	75 - 125	
Zinc	BRI1123	Duplicate	0811986-01	1064.7	1076.4		mg/kg	1.1		20		
		Matrix Spike	0811986-01	1064.7	1146.9	98.039	mg/kg		83.8		75 - 125	
		Matrix Spike Duplicate	0811986-01	1064.7	1133.6	98.039	mg/kg	17.5	70.3	20	75 - 125	A03
Boron	BRI1123	Duplicate	0811986-01	11.963	11.450		mg/kg	4.4		20		
		Matrix Spike	0811986-01	11.963	100.78	98.039	mg/kg		90.6		75 - 125	
		Matrix Spike Duplicate	0811986-01	11.963	99.789	98.039	mg/kg	1.1	89.6	20	75 - 125	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source	Source	Result	Spike	Units	RPD	Percent	Control Limits		Lab Quals
			Sample ID	Result		Added			Recovery	RPD	Recovery	
Total Hexavalent Chromium	BRI2049	Duplicate	0812374-01	5.6540	7.6020		mg/kg	29.4		20		Q01
		Matrix Spike	0812374-01	5.6540	41.118	40.000	mg/kg		88.7		75 - 125	
		Matrix Spike Duplicate	0812374-01	5.6540	43.538	40.000	mg/kg	6.5	94.7	20	75 - 125	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Aldrin	BRI1434	BRI1434-BS1	LCS	0.0068189	0.0083612	0.00050	mg/kg	81.6		76 - 127		
gamma-BHC (Lindane)	BRI1434	BRI1434-BS1	LCS	0.0069640	0.0083612	0.00050	mg/kg	83.3		62 - 119		
4,4'-DDT	BRI1434	BRI1434-BS1	LCS	0.0087661	0.0083612	0.00050	mg/kg	105		46 - 118		
Dieldrin	BRI1434	BRI1434-BS1	LCS	0.0062360	0.0083612	0.00050	mg/kg	74.6		71 - 122		
Endrin	BRI1434	BRI1434-BS1	LCS	0.0075239	0.0083612	0.00050	mg/kg	90.0		67 - 126		
Heptachlor	BRI1434	BRI1434-BS1	LCS	0.0065407	0.0083612	0.00050	mg/kg	78.2		75 - 133		
TCMX (Surrogate)	BRI1434	BRI1434-BS1	LCS	0.0097710	0.010033		mg/kg	97.4		65 - 129		
Dibutyl chlorendate (Surrogate)	BRI1434	BRI1434-BS1	LCS	0.027418	0.025084		mg/kg	109		65 - 173		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organo-Phosphorus Pesticide Analysis (EPA Method 8140)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Bolstar	BRI1579	BRI1579-BS1	LCS	0.026066	0.032787	0.010	mg/kg	79.5		31 - 135		
Chlorpyrifos	BRI1579	BRI1579-BS1	LCS	0.027213	0.032787	0.010	mg/kg	83.0		48 - 132		
Diazinon	BRI1579	BRI1579-BS1	LCS	0.018852	0.032787	0.010	mg/kg	57.5		24 - 118		
Methyl parathion	BRI1579	BRI1579-BS1	LCS	0.027705	0.032787	0.010	mg/kg	84.5		52 - 128		
Mevinphos	BRI1579	BRI1579-BS1	LCS	0.027705	0.032787	0.010	mg/kg	84.5		11 - 115		
Ronnel (Fenclorphos)	BRI1579	BRI1579-BS1	LCS	0.025246	0.032787	0.010	mg/kg	77.0		50 - 120		
Stirophos (Tetrachlorvinphos)	BRI1579	BRI1579-BS1	LCS	0.025902	0.032787	0.010	mg/kg	79.0		52 - 139		
Triphenylphosphate (Surrogate)	BRI1579	BRI1579-BS1	LCS	0.072787	0.081967		mg/kg	88.8		60 - 129		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Volatile Organic Analysis (EPA Method 8240)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BRI0522	BRI0522-BS1	LCS	0.13072	0.12500	0.0050	mg/kg	105		70 - 130		
Bromodichloromethane	BRI0522	BRI0522-BS1	LCS	0.12519	0.12500	0.0050	mg/kg	100		70 - 130		
Chlorobenzene	BRI0522	BRI0522-BS1	LCS	0.13264	0.12500	0.0050	mg/kg	106		70 - 130		
Chloroethane	BRI0522	BRI0522-BS1	LCS	0.12496	0.12500	0.0050	mg/kg	100		70 - 130		
1,4-Dichlorobenzene	BRI0522	BRI0522-BS1	LCS	0.12730	0.12500	0.0050	mg/kg	102		70 - 130		
1,1-Dichloroethane	BRI0522	BRI0522-BS1	LCS	0.12715	0.12500	0.0050	mg/kg	102		70 - 130		
1,1-Dichloroethene	BRI0522	BRI0522-BS1	LCS	0.12176	0.12500	0.0050	mg/kg	97.4		70 - 130		
Toluene	BRI0522	BRI0522-BS1	LCS	0.11975	0.12500	0.0050	mg/kg	95.8		70 - 130		
Trichloroethene	BRI0522	BRI0522-BS1	LCS	0.12195	0.12500	0.0050	mg/kg	97.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRI0522	BRI0522-BS1	LCS	0.049387	0.050000		mg/kg	98.8		70 - 121		
Toluene-d8 (Surrogate)	BRI0522	BRI0522-BS1	LCS	0.047938	0.050000		mg/kg	95.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BRI0522	BRI0522-BS1	LCS	0.049410	0.050000		mg/kg	98.8		74 - 121		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Acenaphthene	BRI1426	BRI1426-BS1	LCS	1.7591	1.6447	0.10	mg/kg	107		51 - 128		
1,4-Dichlorobenzene	BRI1426	BRI1426-BS1	LCS	1.4066	1.6447	0.10	mg/kg	85.5		38 - 110		
2,4-Dinitrotoluene	BRI1426	BRI1426-BS1	LCS	1.6585	1.6447	0.10	mg/kg	101		30 - 117		
Hexachlorobenzene	BRI1426	BRI1426-BS1	LCS	1.4522	1.6447	0.10	mg/kg	88.3		51 - 117		
Hexachlorobutadiene	BRI1426	BRI1426-BS1	LCS	1.2653	1.6447	0.10	mg/kg	76.9		38 - 98		
Hexachloroethane	BRI1426	BRI1426-BS1	LCS	1.3422	1.6447	0.10	mg/kg	81.6		27 - 114		
Nitrobenzene	BRI1426	BRI1426-BS1	LCS	1.3676	1.6447	0.10	mg/kg	83.2		33 - 108		
N-Nitrosodi-N-propylamine	BRI1426	BRI1426-BS1	LCS	1.3430	1.6447	0.10	mg/kg	81.7		37 - 93		
Pyrene	BRI1426	BRI1426-BS1	LCS	1.3285	1.6447	0.10	mg/kg	80.8		36 - 154		
1,2,4-Trichlorobenzene	BRI1426	BRI1426-BS1	LCS	1.4255	1.6447	0.10	mg/kg	86.7		37 - 107		
4-Chloro-3-methylphenol	BRI1426	BRI1426-BS1	LCS	1.8441	1.6447	0.20	mg/kg	112		47 - 124		
2-Chlorophenol	BRI1426	BRI1426-BS1	LCS	1.4301	1.6447	0.10	mg/kg	87.0		40 - 111		
2-Methylphenol	BRI1426	BRI1426-BS1	LCS	1.6554	1.6447	0.10	mg/kg	101		24 - 121		
3- & 4-Methylphenol	BRI1426	BRI1426-BS1	LCS	2.6846	1.6447	0.20	mg/kg	163		94 - 186		
4-Nitrophenol	BRI1426	BRI1426-BS1	LCS	2.0114	1.6447	0.20	mg/kg	122		40 - 116		L21
Pentachlorophenol	BRI1426	BRI1426-BS1	LCS	1.6712	1.6447	0.20	mg/kg	102		30 - 131		
Phenol	BRI1426	BRI1426-BS1	LCS	1.3407	1.6447	0.10	mg/kg	81.5		39 - 107		
2,4,6-Trichlorophenol	BRI1426	BRI1426-BS1	LCS	1.7212	1.6447	0.20	mg/kg	105		51 - 119		
2-Fluorophenol (Surrogate)	BRI1426	BRI1426-BS1	LCS	2.2530	2.6316		mg/kg	85.6		42 - 123		
Phenol-d5 (Surrogate)	BRI1426	BRI1426-BS1	LCS	2.2250	2.6316		mg/kg	84.5		38 - 121		
Nitrobenzene-d5 (Surrogate)	BRI1426	BRI1426-BS1	LCS	2.2799	2.6316		mg/kg	86.6		41 - 125		
2-Fluorobiphenyl (Surrogate)	BRI1426	BRI1426-BS1	LCS	2.2556	2.6316		mg/kg	85.7		39 - 128		
2,4,6-Tribromophenol (Surrogate)	BRI1426	BRI1426-BS1	LCS	2.7553	2.6316		mg/kg	105		49 - 135		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
p-Terphenyl-d14 (Surrogate)	BRI1426	BRI1426-BS1	LCS	1.0454	1.3158		mg/kg	79.4		36 - 156		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Oil and Grease	BRI0982	BRI0982-BS1	LCS	624.00	770.00	50	mg/kg	81.0		59 - 117		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Total Kjeldahl Nitrogen	BRI0964	BRI0964-BS1	LCS	402.88	400.00	40	mg/kg	101		85 - 115		
Total Phosphate	BRI0966	BRI0966-BS1	LCS	630.90	613.20	30	mg/kg	103		85 - 115		
Total Cyanide	BRI1000	BRI1000-BS1	LCS	14.332	13.600	0.50	mg/kg	105		80 - 120		
pH	BRI1007	BRI1007-BS1	LCS	6.9560	7.0000	0.05	pH Units	99.4		95 - 105		
Nitrate as NO3	BRI1008	BRI1008-BS1	LCS	22.236	22.134	0.44	mg/kg	100		90 - 110		
Ammonia as N	BRI1084	BRI1084-BS1	LCS	476.50	500.00	50	mg/kg	95.3		80 - 120		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Modified WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Total Dissolved Solids @ 180 C	BRI1511	BRI1511-BS1	LCS	595.00	586.00	50	mg/L	102		90 - 110		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Copper	BRI1232	BRI1232-BS1	LCS	20.603	20.000	0.10	mg/L	103		85 - 115		
Lead	BRI1232	BRI1232-BS1	LCS	19.678	20.000	0.50	mg/L	98.4		85 - 115		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Mercury	BRI0916	BRI0916-BS1	LCS	1.5152	1.5000	0.16	mg/kg	101		75 - 125		
Antimony	BRI1123	BRI1123-BS1	LCS	94.444	100.00	5.0	mg/kg	94.4		75 - 125		
Arsenic	BRI1123	BRI1123-BS1	LCS	9.7801	10.000	1.0	mg/kg	97.8		75 - 125		
Barium	BRI1123	BRI1123-BS1	LCS	100.78	100.00	0.50	mg/kg	101		75 - 125		
Beryllium	BRI1123	BRI1123-BS1	LCS	10.250	10.000	0.50	mg/kg	102		75 - 125		
Cadmium	BRI1123	BRI1123-BS1	LCS	9.9451	10.000	0.50	mg/kg	99.5		75 - 125		
Chromium	BRI1123	BRI1123-BS1	LCS	97.985	100.00	0.50	mg/kg	98.0		75 - 125		
Cobalt	BRI1123	BRI1123-BS1	LCS	103.01	100.00	2.5	mg/kg	103		75 - 125		
Copper	BRI1123	BRI1123-BS1	LCS	97.486	100.00	1.0	mg/kg	97.5		75 - 125		
Lead	BRI1123	BRI1123-BS1	LCS	104.38	100.00	2.5	mg/kg	104		75 - 125		
Molybdenum	BRI1123	BRI1123-BS1	LCS	98.630	100.00	2.5	mg/kg	98.6		75 - 125		
Nickel	BRI1123	BRI1123-BS1	LCS	107.55	100.00	0.50	mg/kg	108		75 - 125		
Selenium	BRI1123	BRI1123-BS1	LCS	9.4866	10.000	1.0	mg/kg	94.9		75 - 125		
Silver	BRI1123	BRI1123-BS1	LCS	9.8650	10.000	0.50	mg/kg	98.6		75 - 125		
Thallium	BRI1123	BRI1123-BS1	LCS	108.62	100.00	5.0	mg/kg	109		75 - 125		
Vanadium	BRI1123	BRI1123-BS1	LCS	102.72	100.00	0.50	mg/kg	103		75 - 125		
Zinc	BRI1123	BRI1123-BS1	LCS	105.12	100.00	2.5	mg/kg	105		75 - 125		
Boron	BRI1123	BRI1123-BS1	LCS	101.53	100.00	5.0	mg/kg	102		75 - 125		
Total Hexavalent Chromium	BRI2049	BRI2049-BS1	LCS	34.386	40.000	1.0	mg/kg	86.0		80 - 120		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Aldrin	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000026	
alpha-BHC	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00014	
beta-BHC	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00038	
delta-BHC	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000076	V11
gamma-BHC (Lindane)	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00025	
Chlordane (Technical)	BRI1434	BRI1434-BLK1	ND	mg/kg	0.050	0.015	
4,4'-DDD	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000063	V11
4,4'-DDE	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000045	V11
4,4'-DDT	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000031	
Dieldrin	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000032	
Endosulfan I	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000086	
Endosulfan II	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000066	
Endosulfan sulfate	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00013	V11
Endrin	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000035	
Endrin aldehyde	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.000061	
Heptachlor	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00026	
Heptachlor epoxide	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00015	
Methoxychlor	BRI1434	BRI1434-BLK1	ND	mg/kg	0.00050	0.00013	V11
Toxaphene	BRI1434	BRI1434-BLK1	ND	mg/kg	0.050	0.0074	
PCB-1016	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0027	
PCB-1221	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0050	
PCB-1232	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0012	
PCB-1242	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0016	
PCB-1248	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0012	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
PCB-1254	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.00078	
PCB-1260	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0022	
Total PCB's (Summation)	BRI1434	BRI1434-BLK1	ND	mg/kg	0.010	0.0050	
TCMX (Surrogate)	BRI1434	BRI1434-BLK1	80.7	%	65 - 129 (LCL - UCL)		
Dibutyl chlorendate (Surrogate)	BRI1434	BRI1434-BLK1	103	%	65 - 173 (LCL - UCL)		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Organo-Phosphorus Pesticide Analysis (EPA Method 8140)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Azinphos methyl	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0019	
Bolstar	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0014	
Chlorpyrifos	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.00080	
Coumaphos	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0022	
Demeton O/S	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0015	
Diazinon	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.00060	
Dichlorvos	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0062	
Disulfoton	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0011	
Ethoprop	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.00080	
Fensulfothion	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0054	
Fenthion	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0010	
Merphos	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0011	
Methyl parathion	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0021	
Mevinphos	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0014	
Naled	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0017	
Phorate	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.00060	
Ronnel (Fenchlorphos)	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0016	
Stirophos (Tetrachlorvinphos)	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0025	
Tokuthion (Prothiofos)	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0010	
Trichloronate	BRI1579	BRI1579-BLK1	ND	mg/kg	0.010	0.0011	
Triphenylphosphate (Surrogate)	BRI1579	BRI1579-BLK1	78.8	%	60 - 129 (LCL - UCL)		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Volatile Organic Analysis (EPA Method 8240)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
Bromodichloromethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00076	
Bromoform	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00085	
Bromomethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0015	
Carbon tetrachloride	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
Chlorobenzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00080	
Chloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0012	
Chloromethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00087	
Dibromochloromethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00062	
1,2-Dichlorobenzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0012	
1,3-Dichlorobenzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00089	
1,4-Dichlorobenzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0011	
1,1-Dichloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
1,2-Dichloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0011	
1,1-Dichloroethene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0014	
trans-1,2-Dichloroethene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0011	
1,2-Dichloropropane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
cis-1,3-Dichloropropene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00065	
trans-1,3-Dichloropropene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00089	
Ethylbenzene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0014	
Methylene chloride	BRI0522	BRI0522-BLK1	ND	mg/kg	0.010	0.0025	
Methyl t-butyl ether	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00064	
1,1,2,2-Tetrachloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00092	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Volatile Organic Analysis (EPA Method 8240)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Tetrachloroethene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
Toluene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
1,1,1-Trichloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
1,1,2-Trichloroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0012	
Trichloroethene	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0013	
Trichlorofluoromethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.00081	
1,1,2-Trichloro-1,2,2-trifluoroethane	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0014	
Vinyl chloride	BRI0522	BRI0522-BLK1	ND	mg/kg	0.0050	0.0011	
Total Xylenes	BRI0522	BRI0522-BLK1	ND	mg/kg	0.010	0.0034	
Acrolein	BRI0522	BRI0522-BLK1	ND	mg/kg	0.050	0.0042	
Acrylonitrile	BRI0522	BRI0522-BLK1	ND	mg/kg	0.020	0.0014	
1,2-Dichloroethane-d4 (Surrogate)	BRI0522	BRI0522-BLK1	103	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRI0522	BRI0522-BLK1	104	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRI0522	BRI0522-BLK1	84.8	%	74 - 121 (LCL - UCL)		

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Acenaphthene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.065	
Acenaphthylene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.058	
Aldrin	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.057	
Aniline	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.023	
Anthracene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.067	
Benzidine	BRI1426	BRI1426-BLK1	ND	mg/kg	3.0	1.5	
Benzo[a]anthracene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.057	
Benzo[b]fluoranthene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.061	
Benzo[k]fluoranthene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.064	
Benzo[a]pyrene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.053	
Benzo[g,h,i]perylene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
Benzoic acid	BRI1426	BRI1426-BLK1	ND	mg/kg	0.50	0.035	
Benzyl alcohol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.054	
Benzyl butyl phthalate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.060	
alpha-BHC	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.060	
beta-BHC	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.058	
delta-BHC	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.058	
gamma-BHC (Lindane)	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.058	
bis(2-Chloroethoxy)methane	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.049	
bis(2-Chloroethyl) ether	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.049	
bis(2-Chloroisopropyl)ether	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.049	
bis(2-Ethylhexyl)phthalate	BRI1426	BRI1426-BLK1	0.21035	mg/kg	0.20	0.068	M03
4-Bromophenyl phenyl ether	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.067	
4-Chloroaniline	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.037	

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
2-Chloronaphthalene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.059	
4-Chlorophenyl phenyl ether	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.061	
Chrysene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.063	
4,4'-DDD	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
4,4'-DDE	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.055	
4,4'-DDT	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
Dibenzo[a,h]anthracene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.058	
Dibenzofuran	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.062	
1,2-Dichlorobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.042	
1,3-Dichlorobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
1,4-Dichlorobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.051	
3,3-Dichlorobenzidine	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.044	
Dieldrin	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.022	
Diethyl phthalate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.080	
Dimethyl phthalate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.061	
Di-n-butyl phthalate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.0088	
2,4-Dinitrotoluene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
2,6-Dinitrotoluene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
Di-n-octyl phthalate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.081	
1,2-Diphenylhydrazine	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.0090	
Endosulfan I	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.049	
Endosulfan II	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.049	
Endosulfan sulfate	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.055	
Endrin	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.047	

Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Endrin aldehyde	BRI1426	BRI1426-BLK1	ND	mg/kg	0.50	0.054	
Fluoranthene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.066	
Fluorene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.044	
Heptachlor	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
Heptachlor epoxide	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.060	
Hexachlorobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.064	
Hexachlorobutadiene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.050	
Hexachlorocyclopentadiene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.034	
Hexachloroethane	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
Indeno[1,2,3-cd]pyrene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.075	
Isophorone	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.047	
2-Methylnaphthalene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.056	
Naphthalene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.047	
2-Naphthylamine	BRI1426	BRI1426-BLK1	ND	mg/kg	3.0	0.047	
2-Nitroaniline	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.053	
3-Nitroaniline	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.050	
4-Nitroaniline	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.052	
Nitrobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.046	
N-Nitrosodimethylamine	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.038	
N-Nitrosodi-N-propylamine	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
N-Nitrosodiphenylamine	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.061	
Phenanthrene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.070	
Pyrene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.060	
1,2,4-Trichlorobenzene	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.050	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
4-Chloro-3-methylphenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.053	
2-Chlorophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
2,4-Dichlorophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.054	
2,4-Dimethylphenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.047	
4,6-Dinitro-2-methylphenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.50	0.028	
2,4-Dinitrophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.50	0.22	
2-Methylphenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.052	
3- & 4-Methylphenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.12	
2-Nitrophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.047	
4-Nitrophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.054	
Pentachlorophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.062	
Phenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.10	0.057	
2,4,5-Trichlorophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.063	
2,4,6-Trichlorophenol	BRI1426	BRI1426-BLK1	ND	mg/kg	0.20	0.071	
2-Fluorophenol (Surrogate)	BRI1426	BRI1426-BLK1	87.3	%	42 - 123 (LCL - UCL)		
Phenol-d5 (Surrogate)	BRI1426	BRI1426-BLK1	86.9	%	38 - 121 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BRI1426	BRI1426-BLK1	91.9	%	41 - 125 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BRI1426	BRI1426-BLK1	90.7	%	39 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BRI1426	BRI1426-BLK1	105	%	49 - 135 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BRI1426	BRI1426-BLK1	85.1	%	36 - 156 (LCL - UCL)		



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Oil and Grease	BRI0982	BRI0982-BLK1	ND	mg/kg	50	21	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Moisture	BRI0932	BRI0932-BLK1	ND	%	0.05	0.05	
Total Kjeldahl Nitrogen	BRI0964	BRI0964-BLK1	ND	mg/kg	40	20	
Total Phosphate	BRI0966	BRI0966-BLK1	ND	mg/kg	30	12	
Total Cyanide	BRI1000	BRI1000-BLK1	ND	mg/kg	0.50	0.25	
Nitrate as NO3	BRI1008	BRI1008-BLK1	ND	mg/kg	4.4	0.77	
Ammonia as N	BRI1084	BRI1084-BLK1	ND	mg/kg	50	25	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Modified WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Total Dissolved Solids @ 180 C	BRI1511	BRI1511-BLK1	ND	mg/L	6.7	6.7	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Copper	BRI1232	BRI1232-BLK1	ND	mg/L	0.10	0.012	
Lead	BRI1232	BRI1232-BLK1	ND	mg/L	0.50	0.16	



Marine Research Specialists
3140 Telegraph Road, Suite A
Suite A
Ventura, CA 93003-3238

Project: Biosolids from MBWWTP
Project Number: [none]
Project Manager: Doug Coats

Reported: 10/02/2008 10:39

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Mercury	BRI0916	BRI0916-BLK1	ND	mg/kg	0.16	0.014	
Antimony	BRI1123	BRI1123-BLK1	ND	mg/kg	5.0	0.80	
Arsenic	BRI1123	BRI1123-BLK1	ND	mg/kg	1.0	0.36	
Barium	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.15	
Beryllium	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.011	
Cadmium	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.035	
Chromium	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.13	
Cobalt	BRI1123	BRI1123-BLK1	ND	mg/kg	2.5	0.13	
Copper	BRI1123	BRI1123-BLK1	0.29819	mg/kg	1.0	0.15	J
Lead	BRI1123	BRI1123-BLK1	ND	mg/kg	2.5	0.70	
Molybdenum	BRI1123	BRI1123-BLK1	ND	mg/kg	2.5	0.099	
Nickel	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.12	
Selenium	BRI1123	BRI1123-BLK1	ND	mg/kg	1.0	0.42	
Silver	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.13	
Thallium	BRI1123	BRI1123-BLK1	ND	mg/kg	5.0	0.77	
Vanadium	BRI1123	BRI1123-BLK1	ND	mg/kg	0.50	0.11	
Zinc	BRI1123	BRI1123-BLK1	0.47163	mg/kg	2.5	0.35	J
Boron	BRI1123	BRI1123-BLK1	1.0496	mg/kg	5.0	0.53	J
Total Hexavalent Chromium	BRI2049	BRI2049-BLK1	ND	mg/kg	1.0	0.50	

#081996

CITY OF MORRO BAY WWTP
CHAIN OF CUSTODY

Epilak

MORCOG: 2067-1
2406g 9.0"

Project Name: MORRO BAY WWTP BISCULOS	Date: 9/10/08
Project Mngr: DR DOUG COATS	Page 1 of 1
City of Morro Bay	Special Instruction's: PLEASE SEE ATTACHED SHEETS. SEND RESULTS TO DR. DOUG COATS FAX # (805) 289-3935 PHONE # (805) 644-1180
160 Atascadero Rd.	
Morro Bay, Ca. 93442	
Phone # 805-772-6273	

Sample I.D.	Date	Time	Analysis Requested	Remark's
MORRO BAY WWTP BISCULOS	9/10/08	1400	SEE ATTACHED SHEETS	SEND RESULTS TO MORRO RESEARCH DIAGNOSTICS

CHK BY  DISTRIBUTION
MARTIN
SUB-OUT 

Relinquished/Received By:	Date	Time	Firm/City	Signature:
DAVID RELLING	9/10/08	1400	CITY OF MORRO BAY WWTP	

COPY

0811986

**Analysis and Reporting for the Biosolids Sample from the Morro Bay
Wastewater Treatment Plant to be collected on 10 September 2008^a**

Analysis ^b	Method
Level IIA QC	
Waste Extraction Tests on copper and lead ^c (CCR Title 22, Article 11)	STLC (6010)
Moisture	EPA 160.3 or BC
Total Dissolved Solids (TDS)	Modified Waste Extraction Test (STLC) EPA 160.1
CAM-17 Metals and Boron^d:	
Antimony (Sb)	6010
Arsenic (As)	6010
Barium (Ba)	6010
Beryllium (Be)	6010
Boron (B)	6010
Cadmium (Cd)	6010
Total Chromium (Cr)	6010
Cobalt (Co)	6010
Copper (Cu)	6010
Lead (Pb)	6010
Mercury (Hg)	7471
Molybdenum (Mo)	6010
Nickel (Ni)	6010
Selenium (Se)	6010
Silver (Ag)	6010
Thallium (Tl)	6010
Vanadium (Va)	6010
Zinc (Zn)	6010
Total Kjeldahl Nitrogen (TKN)^d	EPA 351.2
Ammonia as N^d	EPA 350.1
Nitrate as NO₃^{-d}	EPA 300.0 or 353.2

^a Please provide preliminary (pre-QC) results in BW LabNet as soon as they become available.

^b Prior to analysis, homogenize the composite sample in the laboratory to ensure uniform distribution of multiple subsamples in sample container(s).

^c Other metals may need to be WET tested depending on their bulk concentrations (e.g. mercury). Ms. Luke (805.289.5926) will determine the need for additional WET tests based on the preliminary bulk-chemistry analysis of metals.

^d Sample results to be reported on an "as received" and "dry basis."

081986

Analysis ^b	Method
Total Phosphate ^d	EPA 365.4
Total Cyanide ^d	EPA 9012
pH	EPA 9045 or 150.1
Oil and Grease	EPA 1664
Semi-volatile Organics	EPA 8270/625
Pesticides and PCBs	EPA 8080/608
Volatile Organics – Low Level; report all EPA priority pollutants including acrolein, acrylonitrile, 2-chloroethyl vinyl ether, and MTBE unless they are reported under other analyses methods.”	EPA 8240/624
Organophosphorus pesticides	EPA 8140/614
Asbestos	TEM or PLM
Hexavalent Chromium ^d	EPA 7196

Submission #: 081980

SHIPPING INFORMATION

Federal Express UPS Hand Delivery
BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER

Ice Chest None
Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

Intact? Yes No

Intact? Yes No

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

COC Received

YES NO

Emissivity: 0.97 Container: QFA Thermometer ID: 48

Temperature: A 1.8 °C / C 0.8 °C

Date/Time 9-10-8

Analyst Init ALM

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										
PA 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										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
Sample Numbering Completed By: ALM Date/Time: 9-10-8 8:50

A = Actual / C = Corrected

Marine Research
3140 Telegraph Road
Suite A
Ventura, CA 93003

Attached are the Asbestos results analyzed by LA Testing

BC Lab #	LA Testing #	Client Description	Date/Time Sampled
08-11986	320810533-0001	Composite Biosolids	9-10-08 1400

SUBCONTRACT ORDER

BC Laboratories
0811986

320810533

gq.

SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Tina Green

RECEIVING LABORATORY:

La Testing \$LATSA
159 Pasadena Ave.
So. Pasadena, CA 91030
Phone :1-800-303-0047
Fax: (310) 830-4840

Analysis	Due	Expires	Laboratory ID	Comments
----------	-----	---------	---------------	----------

Sample ID: 0811986-01 -A Solids		Sampled: 09/10/08 14:00		
---------------------------------	--	-------------------------	--	--

oi600/R-93/116s Asbestos LAT09/24/08 17:00		09/10/09 14:00		
--	--	----------------	--	--

Containers Supplied:

90% AR
(U)

Standard TAT per client
9/15

<i>Nelly</i>	09/12/08 14:40	<i>(rouie)</i>	9/
Released By	Date	Received By	Date

Released By	Date	Received By	Date