

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

**OFFSHORE MONITORING
AND REPORTING PROGRAM**

**ANNUAL AND SEMIANNUAL EFFLUENT
SAMPLING**

**CHEMICAL AND BIOASSAY
ANALYSIS RESULTS**

JULY 2010



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 AND SEMIANNUAL EFFLUENT REPORT

CHEMICAL AND BIOASSAY
ANALYSIS RESULTS

JULY 2010

Prepared by
Bonnie Luke
Douglas A. Coats

Marine Research Specialists

3140 Telegraph Rd., Suite A
Ventura, California 93003

Telephone: (805) 644-1180

Telefax: (805) 289-3935

E-mail: Marine@Rain.org

August 2010

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

6 August 2010

**Reference: Annual Effluent Self-Monitoring Report for 2010
Semiannual Effluent Self-Monitoring Report for July through December 2010**

Dear Mr. Keogh:

This self-monitoring report documents the chemical and bioassay analysis results for effluent samples collected in July 2010 as required by NPDES discharge permit CA0047881.¹ Analyses of effluent samples collected on 1 July 2010 and 13 July 2010 were conducted in accordance with the monitoring requirements specified in the permit, including:

- Chemical and radionuclide analyses conducted on a composite sample collected on 1 July 2010;
- Nutrient compounds measured in a grab sample collected on 1 July 2010;
- Chronic bioassay conducted on a composite sample collected on 13 July 2010;
- Phenolic compounds measured in a grab sample collected on 13 July 2010; and
- Base neutral and acid extractable organic analysis conducted on a composite sample collected on 13 July 2010.

The three attachments to this report demonstrate that all chemical concentrations, radioactivity, and toxicological endpoints were within the limitations specified in the discharge permit. Attachment A compares the results of the analyses with the limitations established for each of the effluent parameters specified in the permit. The comparisons are based on the minimum-level (ML) reporting requirements of the permit, and all units have been converted to those used in the discharge monitoring forms that were submitted under separate cover to the California Division of Water Quality (Attachment B). Attachment C collates the original laboratory reports, including raw data and results, pertinent QA/QC analyses, and chains of custody.

The comprehensive chemical and bioassay analyses of effluent samples collected in July 2010 augment data collected over the past two decades. Together, the measurements demonstrate the consistently benign character of the discharge from the MBSCD² treatment plant. The general lack of toxicity and chemical contaminants within the effluent samples reflects the absence of heavy industry within the collection area and the high performance of the treatment process. The concentrations of the few chemical compounds detected in the July 2010 samples were typical of wastewater derived from domestic sources, and all concentrations were considerably below the limits specified in the NPDES discharge permit.

Of the 78 monitored chemical compounds, only 15 were detected, and of those, only seven had concentrations high enough to be reliably quantified above their respective MLs. Three of the quantifiable concentrations were associated with commonly occurring metals: copper, lead, and zinc. These metals enter the wastewater collection system through erosion of natural mineral deposits along the central California coast, and through corrosion of household plumbing systems. The concentrations of all three metals were more than an order of magnitude below levels deemed deleterious to marine organisms.

¹ Regional Water Quality Control Board (RWQCB) - Central Coast Region and the Environmental Protection Agency (EPA) – Region IX. 2009. Waste Discharge Requirements (Order No. R3-2008-0065) and National Pollutant Discharge Elimination System (Permit No. CA0047881) for the Morro Bay and Cayucos Wastewater Treatment Plant Discharges to the Pacific Ocean, Morro Bay, San Luis Obispo County. Effective 1 March 2009.

² City of Morro Bay and the Cayucos Sanitary District, joint owners of the wastewater treatment and disposal facility

A small, but quantifiable concentration of selenium was also detected within the July 2010 effluent sample. Although selenium is similar to the metals detected in that it is a naturally occurring component of the mineralogy of the central California coast, it is rarely detected in quantifiable amounts within effluent. For example, the last quantifiable detects of selenium in effluent occurred in January 2005 and in July 1998 respectively. Anthropogenic sources of selenium include glass manufacturing, the combustion of fossil fuels (coal burning), and metal refining; however, the unusual detect of selenium within the WWTP effluent is probably linked to the mobilization of naturally occurring selenium in surficial soils following the heavy rainfall events that occurred during the first half of 2010.

Studies in the San Joaquin Valley watershed have shown that selenium is released from naturally occurring rocks by oxidation during weathering, and that it accumulates in soils in water-soluble salts.³ In addition, areas in which selenium has accumulated to high levels within soils are generally those where the mean annual precipitation is less than 12 inches. Although the average annual precipitation in Morro Bay is 17.6 inches, from 2007 through 2009, the annual rainfall totals noted at the Morro Bay treatment plant were 5.92, 15.1, and 11.6 inches respectively.⁴ During the first six months of 2010, however, over 13 inches of precipitation were deposited on the WWTP and surrounding collection area, likely mobilizing much of the selenium that had accumulated in surficial sediments over the past several dry years. In any regard, the measured concentration of selenium was 740 times lower than the limit specified in the NPDES discharge permit.

The concentrations of three organic compounds were also quantified within the effluent samples. Bis(2-ethylhexyl) phthalate (BEHP) and dioxin are both ubiquitous compounds consistently detected at low levels within effluent and biosolid samples collected over the past decade.

Although cyanide occurs naturally, it can also form in the treatment process as a byproduct of the disinfection process. It has been detected at quantifiable levels within approximately 20% of the effluent samples collected over the past decade and a half. However, cyanide's measured concentration in the July 2010 sample was 25-fold lower than its permit limitation and therefore, not of ecological concern.

Bis(2-ethylhexyl) phthalate is added to plastic resins to soften them. However, it is not covalently bound to the resin so it slowly leaches out of plastic materials through evaporation and dissolution. Due to BEHP's mobility, high vapor pressure, and massive scale of production, this compound has become pervasive in the environment. Although BEHP can adversely affect human health, concentrations would have to be more than 57-times greater than those measured in the July 2010 sample to be of a human-health concern.

Similarly, dioxin concentrations in the July 2010 sample were only one-third of the level considered a potential threat to human health. Historically, trace amounts of dioxin were released to the environment primarily through incineration of municipal and chemical wastes, exhaust from automobiles using leaded gasoline, and improper disposal of chlorinated chemical wastes. These chemically stable dioxins do not readily decompose and once produced, they persist in the environment for long periods. Extremely small concentrations of various dioxin congeners are also found in effluent discharged from publicly owned treatment works, after they are formed during the chlorination process. Low concentrations of dioxin have been detected in the majority of MBCSD effluent samples collected during the last decade, although concentrations rarely approach the permitted limit.

A chronic bioassay further affirmed the effluent's overall low toxicity. Chronic toxicity tests on the July 2010 composite effluent sample measured its effect on the development of larval red abalone (*Haliotis*

³ Anderson, David W. 1998. Natural Levels of Nickel, Selenium, and Arsenic in the Southern San Francisco Bay Area. Prepared for City of San Jose Environmental Services Department.

⁴ Marine Research Specialists (MRS). 2008. City of Morro Bay and Cayucos Sanitary District, Offshore Monitoring and Reporting Program, 2007 Annual Report. Submitted February 2008 to the City of Morro Bay and Cayucos Sanitary District; Marine Research Specialists (MRS). 2009. City of Morro Bay and Cayucos Sanitary District, Offshore Monitoring and Reporting Program, 2008 Annual Report. Submitted February 2009 to the City of Morro Bay and Cayucos Sanitary District; and Marine Research Specialists (MRS). 2010. City of Morro Bay and Cayucos Sanitary District, Offshore Monitoring and Reporting Program, 2009 Annual Report. Submitted April 2010 to the City of Morro Bay and Cayucos Sanitary District.

Mr. B. Keogh
6 August 2010

Page 3

rufescens) after exposure to a range of effluent dilutions. A toxicity screening study conducted from July 2009 to January 2010 found larval abalone to be somewhat more sensitive to MBCSD effluent than the giant kelp zoospores used previously to evaluate chronic toxicity. Although the larval abalone were highly sensitive to contaminants, adverse effects were not observed in effluent that was seven times more concentrated than that allowed by the discharge permit.

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

Sincerely,

Bonnie Luke
Program Manager

Submitted via email

ATTACHMENT A
MINIMUM LEVEL REPORTING

ATTACHMENT A
Analytical Results for Effluent Samples Collected during July 2010

Chemical Compound or Parameter	Units	Method	Detection Limit ^a	Practical ^b Quantification Limit	Minimum Level ^c	Permit ^d Limit	Reported Value
Nutrients							
Nitrate (as N)	mg/L	300.0	0.002	0.1	—	— ^e	ND
Urea (as N)	mg/L	Mulvenna & Savid	0.0007	0.01	—	—	0.078 as measured
Ortho-Phosphate (as P)	mg/L	300.0	0.003	0.05	—	—	3.4 as measured
Dissolved Silica (SiO ₂)	mg/L	4500-SI-E	0.04	0.05	—	—	13. as measured
Objectives for the Protection of Marine Aquatic Life							
Arsenic	mg/L	200.8	0.00061	0.002	0.002	0.67	DNQ 0.0014 Est. Conc.
Cadmium	mg/L	200.7	0.001	0.01	0.01	0.13	ND
Chromium VI	mg/L	200.7	0.001	0.01	0.01	0.27	DNQ 0.0016 Est. Conc.
Copper	mg/L	200.7	0.0023	0.01	0.01	0.14	0.012 as measured
Lead	mg/L	200.8	0.00012	0.001	0.0005	0.27	0.0015 as measured
Mercury	µg/L	245.1	0.016	0.2	0.2	5.29	ND
Nickel	mg/L	200.7	0.0012	0.01	0.02	0.67	DNQ 0.0027 Est. Conc.
Selenium	mg/L	200.8	0.00036	0.002	0.002	2.01	0.0027 as measured
Silver	mg/L	200.7	0.001	0.01	0.01	0.07	ND
Zinc	mg/L	200.7	0.0029	0.05	0.02	1.62	0.05 as measured
Cyanide	mg/L	335.4	0.0028	0.005	0.005	0.13	0.0051 as measured
Toxicity-Chronic: H. Rufescens	TUc	600/R-95/136	—	—	—	134.	17.9 as measured
Nonchlorinated Phenolics	mg/L	625	0.0016	0.002	0.005	4.02	DNQ 0.0033 Est. Conc.
Chlorinated Phenolics	mg/L	625	0.00031	0.002	0.005	0.13	ND

^a The Method Detection Limit (MDL) is the analysis- and instrument-specific minimum concentration at which the presence of a substance can be reported with 99% confidence. It is determined from an analysis of a sample in a matrix containing the analyte.

^b The Practical Quantification Limit (PQL) is the analysis- and instrument-specific minimum concentration of a substance that can be routinely determined with a high degree of certainty (>99.9% confidence).

^c The Minimum Level (ML) is the method-specific minimum concentration of a substance that can be quantitatively measured in a sample given the current analytical performance used by most certified laboratories within California, as specified in the 2005 Ocean Plan.

^d The Permit Limit is the lowest, most-stringent threshold that is associated with the longest-duration averaging period. For limits established to protect marine aquatic life, the six-month median is the most stringent threshold. For other constituents, limits are imposed only on monthly averages.

^e No permit limits have been established for nutrients.

Analytical Results for Effluent Samples Collected during July 2010

Chemical Compound or Parameter	Units	Method	Detection Limit ^a	Practical ^b Quantification Limit	Minimum Level ^c	Permit ^d Limit	Reported Value
Endosulfan (Sum)	µg/L	608 ^f	0.0028	0.01	0.02	1.21	ND
Endrin	µg/L	608	0.0016	0.01	0.02	0.27	ND
HCH	µg/L	608	0.0019	0.01	0.04	0.54	ND
Radioactivity Gross α	pCi/L	7110C	0.065	0.159	—	15.	ND
Radioactivity Gross β	pCi/L	900	1.9	0.81	—	50.	19. as measured
Objectives for the Protection of Human Health: Noncarcinogens							
Acrolein	mg/L	624	0.0079	0.02	0.005	29.5	ND
Antimony	mg/L	200.7	0.013	0.1	0.05	160.8	ND
Bis(2-chloroethoxy) methane	mg/L	625	0.00027	0.002	0.005	0.59	ND
Bis(2-chloroisopropyl)ether	mg/L	625	0.0003	0.002	0.002	160.8	ND
Chlorobenzene	mg/L	624	0.000063	0.0005	0.002	76.4	ND
Chromium III ^g	g/L	200.7	0.000001	0.00001	0.05	25.5	DNQ 0.0000016 Est. Conc.
Di-n-butyl phthalate	mg/L	625	0.00039	0.002	0.01	469.	ND
Dichlorobenzene	mg/L	624	0.000072	0.0005	0.002	683.	ND
Diethyl phthalate	mg/L	625	0.00033	0.002	0.002	4,420.	ND
Dimethyl phthalate	g/L	625	0.00000039	0.000002	0.000002	109.9	ND
2-Methyl-4,6-dinitrophenol	mg/L	625	0.00034	0.01	0.005	29.5	ND
2,4-Dinitrophenol	mg/L	625	0.0002	0.01	0.005	0.54	ND
Ethylbenzene	mg/L	624	0.000077	0.0005	0.002	549.	ND
Fluoranthene	mg/L	625	0.0002	0.002	0.001	2.	ND
Hexachlorocyclopentadiene	mg/L	625	0.0003	0.002	0.005	7.8	ND
Nitrobenzene	mg/L	625	0.00026	0.002	0.001	0.66	ND
Thallium	mg/L	200.8	0.000081	0.001	0.001	0.27	ND
Toluene	g/L	624	0.000000067	0.0000005	0.000002	11.4	DNQ 0.00000016 Est. Conc.
Tributyltin	µg/L	GC/MS	0.05	0.03	0.1	0.188	ND
1,1,1-Trichloroethane	g/L	624	0.00000011	0.0000005	0.000002	72.4	ND

^f Reported MDLs, PQLs and MLs for the EPA Method 608 analysis of the July 2010 sample were double typical historical levels due to sample dilution

^g Total chromium concentration was reported rather than the concentration of the trivalent oxidation state alone.

Analytical Results for Effluent Samples Collected during July 2010

Chemical Compound or Parameter	Units	Method	Detection Limit ^a	Practical ^b Quantification Limit	Minimum Level ^c	Permit ^d Limit	Reported Value
Objectives for the Protection of Human Health: Carcinogens							
Acrylonitrile	µg/L	624	0.75	5.	2.	13.4	ND
Aldrin	ng/L	608	2.6	10.	10.	2.95	ND
Benzene	µg/L	624	0.083	0.5	2.	791.	ND
Benzidine	ng/L	625	7,100.	20,000.	5,000.	9.25	ND
Beryllium	µg/L	200.7	1.	10.	2.	4.42	DNQ 1.2 Est. Conc.
Bis (2-chloroethyl) ether	µg/L	625	0.68	2.	1.	6.03	ND
Bis(2-ethylhexyl) phthalate	µg/L	625	3.	5.	5.	469.	8.2 as measured
Carbon Tetrachloride	µg/L	624	0.12	0.5	2.	121.	ND
Chlordane	ng/L	608	760.	1,000.	200.	3.08	ND
Dibromochloromethane	µg/L	624	0.13	0.5	2.	1152.	ND
Chloroform	mg/L	624	0.00012	0.0005	0.002	17.4	DNQ 0.00061 Est. Conc.
DDT (Sum)	ng/L	608	1.5	10.	100.	22.8	ND
1,4-Dichlorobenzene	mg/L	624	0.000059	0.0005	0.002	2.41	ND
3,3-Dichlorobenzidine	µg/L	625	8.2	10.	5.	1.09	ND
1,2-Dichloroethane	mg/L	624	0.000092	0.0005	0.002	3.75	ND
1,1-Dichloroethene	mg/L	624	0.00007	0.0005	0.002	0.12	ND
Dichlorobromomethane	mg/L	624	0.00024	0.0005	0.002	0.83	ND
Methylene chloride	mg/L	624	0.00048	0.001	0.002	60.3	ND
1,3-Dichloropropene	mg/L	624	0.000071	0.0005	5.	1.19	ND
Dieldrin	ng/L	608	2.4	10.	20.	5.36	ND
2,4-Dinitrotoluene	µg/L	625	0.26	2.	5.	348.	ND
1,2-Diphenylhydrazine	µg/L	625	0.34	2.	1.	21.4	ND
Halomethanes	mg/L	624	0.00012	0.0005	0.002	17.4	ND
Heptachlor	pg/L ^h	608	2,400.	10,000.	20,000.	6.7	ND
Heptachlor Epoxide	pg/L ^h	608	2,000.	10,000.	20,000.	2.68	ND
Hexachlorobenzene	ng/L	625	200.	2,000.	1,000.	28.1	ND

^h The concentration units of pg/L for the 6.7 and 2.68 limits on heptachlor and heptachlor epoxide in the discharge permit are incorrect, and should be ng/L.

Analytical Results for Effluent Samples Collected during July 2010

Chemical Compound or Parameter	Units	Method	Detection Limit ^a	Practical ^b Quantification Limit	Minimum Level ^c	Permit ^d Limit	Reported Value
Hexachlorobutadiene	mg/L	625	0.00024	0.002	0.001	1.88	ND
Hexachloroethane	µg/L	625	0.32	2.	1.	335.	ND
Isophorone	mg/L	625	0.00031	0.002	0.001	98.	ND
N-Nitrosodimethylamine	µg/L	625	0.61	2.	5.	978.	ND
N-Nitrosodi-n-propylamine	µg/L	625	1.3	2.	5.	50.9	ND
N-Nitrosodiphenylamine	µg/L	625	0.44	2.	1.	335.	ND
PAHs	µg/L	625	0.2	2.	10.	1.18	ND
Total PCB's	ng/L	608	40.	400.	1,000.	2.55	ND
Dioxin (TCDD equivalents)	pg/L	1613B	—	—	—	0.52	0.18 as measured
1,1,2,2-Tetrachloroethane	mg/L	624	0.00017	0.0005	0.002	0.31	ND
Tetrachloroethene	µg/L	624	0.095	0.5	2.	268.	ND
Toxaphene	ng/L	608	840.	4,000.	1,000.	28.1	ND
Trichloroethene	mg/L	624	0.000072	0.0005	0.002	3.62	ND
1,1,2-Trichloroethane	mg/L	624	0.00015	0.0005	0.002	1.26	ND
2,4,6-Trichlorophenol	mg/L	625	0.0006	0.005	0.01	0.039	ND
Vinyl chloride	mg/L	624	0.00011	0.0005	0.002	4.82	ND

ATTACHMENT B
DISCHARGE MONITORING REPORTS

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-S
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ SEMIANNUALLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
07/01/2010	FROM	TO 12/31/2010

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, nitrate total (as N) 00620 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NODI (B)	mg/L	0	Semi-annual	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Semiannual	GRAB
Cyanide, total (as CN) 00720 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	0.0051	0.0051	0.0051	mg/L	0	Semi-annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.13 6 MO MED	.54 DAILY MX	1.34 INST MAX	mg/L		Semiannual	COMP24
Silica, dissolved (as SiO2) 00955 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	13.	mg/L	0	Semi-annual	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Semiannual	GRAB
Arsenic, total recoverable 00978 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	NODI (Q)	NODI (Q)	NODI (Q)	mg/L	0	Semi-annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.67 6 MO MED	3.89 DAILY MX	10.3 INST MAX	mg/L		Semiannual	COMP24
Selenium, total recoverable 00981 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	0.0027	0.0027	0.0027	mg/L	0	Semi-annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	2.01 6 MO MED	8.04 DAILY MX	20.1 INST MAX	mg/L		Semiannual	COMP24
Chromium, hexavalent (as Cr) 01032 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	NODI (Q)	NODI (Q)	NODI (Q)	mg/L	0	Semi-annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.27 6 MO MED	1.07 DAILY MX	2.68 INST MAX	mg/L		Semiannual	COMP24
Nickel, total recoverable 01074 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	NODI (Q)	NODI (Q)	NODI (Q)	mg/L	0	Semi-annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.67 6 MO MED	2.68 DAILY MX	6.7 INST MAX	mg/L		Semiannual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

AFTER SCREENING PERIOD FOR CHRONIC TOXICITY TESTING, REPORT "NODI(Q)" FOR SPECIES NOT TESTED.
Total chromium is reported for hexavalent chromium.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-S
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442

MAJOR
(SUBR 03)
DISCHARGE 001/ SEMIANNUALLY
External Outfall

MONITORING PERIOD				
MM/DD/YYYY			MM/DD/YYYY	
FROM	07/01/2010	TO	12/31/2010	

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Silver total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>NODI (B)</i>	<i>NODI (B)</i>	<i>NODI (B)</i>	mg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
01079 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	.07 6 MO MED	.35 DAILY MX	.92 INST MAX	mg/L		Semiannual	COMP24
Zinc, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>0.05</i>	<i>0.05</i>	<i>0.05</i>	mg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
01094 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	1.62 6 MO MED	9.66 DAILY MX	25.7 INST MAX	mg/L		Semiannual	COMP24
Cadmium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>NODI (B)</i>	<i>NODI (B)</i>	<i>NODI (B)</i>	mg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
01113 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	.13 6 MO MED	.54 DAILY MX	1.34 INST MAX	mg/L		Semiannual	COMP24
Lead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>0.0015</i>	<i>0.0015</i>	<i>0.0015</i>	mg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	.27 6 MO MED	1.07 DAILY MX	2.68 INST MAX	mg/L		Semiannual	COMP24
Copper, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>0.012</i>	<i>0.012</i>	<i>0.012</i>	mg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
01119 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	.14 6 MO MED	1.34 DAILY MX	3.75 INST MAX	mg/L		Semiannual	COMP24
Phosphate, ortho (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<i>3.4</i>	mg/L	0	<i>Semi-annual</i>	<i>Grab</i>
04175 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Semiannual	GRAB
Urea	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<i>0.078</i>	mg/L	0	<i>Semi-annual</i>	<i>Grab</i>
71800 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		Semiannual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

AFTER SCREENING PERIOD FOR CHRONIC TOXICITY TESTING, REPORT "NODI(9)" FOR SPECIES NOT TESTED.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-S
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ SEMIANNUALLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
07/01/2010	FROM	TO
12/31/2010		

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	<i>NODI (B)</i>	<i>NODI (B)</i>	<i>NODI (B)</i>	µg/L	0	<i>Semi-annual</i>	<i>Comp24</i>
71901 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	5.29 6 MO MED	21.4 DAILY MX	53.5 INST MAX	ug/L		Semiannual	COMP24
Static 48Hr Chronic Macrocystis Pyrifera	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<i>NODI (9)</i>	<i>TUc</i>	0	<i>Semi-annual</i>	<i>Comp24</i>
TTK1D 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	134 DAILY MX	tox chronic		Semiannual	COMP24
Static 48Hr Chronic Haliotis Rufescens	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<i>17.9</i>	<i>TUc</i>	0	<i>Semi-annual</i>	<i>Comp24</i>
TTK3R 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	134 DAILY MX	tox chronic		Semiannual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
AFTER SCREENING PERIOD FOR CHRONIC TOXICITY TESTING, REPORT "NODI(9)" FOR SPECIES NOT TESTED.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 01/01/2010	TO 12/31/2010

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Radioactivity	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	19.	pCi/L	0	Annual	Comp24
00189 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	pCi/L		Annual	COMP24
Thallium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
00982 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.27 MO AVG	*****	mg/L		Annual	COMP24
Beryllium, total recoverable (as Be)	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (Q)	*****	µg/L	0	Annual	Comp24
00998 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	4.42 MO AVG	*****	ug/L		Annual	COMP24
Chromium, trivalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (Q)	*****	g/L	0	Annual	Comp24
01033 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	25.5 MO AVG	*****	g/L		Annual	COMP24
Antimony, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
01268 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	160.8 MO AVG	*****	mg/L		Annual	COMP24
2-Methyl-4,6-dinitrophenol	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
03615 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	29.5 MO AVG	*****	mg/L		Annual	COMP24
Tributyltin	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
03824 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.188 MO AVG	*****	ug/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Gross beta activity is reported above for radioactivity. Gross alpha activity was not detected. Both were below their respective drinking-water standards of 15 and 50 pCi/L. Total chromium is reported for trivalent chromium.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO
12/31/2010		

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Polynuclear Aromatic Hydrocarbons (Method 610) 22456 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	1.18 MO AVG	*****	ug/L		Annual	COMP24
Dichlorobromomethane 32101 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	.83 MO AVG	*****	mg/L		Annual	COMP24
Carbon tetrachloride 32102 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	121 MO AVG	*****	ug/L		Annual	COMP24
1,2-Dichloroethane 32103 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	3.75 MO AVG	*****	mg/L		Annual	COMP24
Dibromochloromethane 32105 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	1152 MO AVG	*****	ug/L		Annual	COMP24
Chloroform 32106 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (Q)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	17.4 MO AVG	*****	mg/L		Annual	COMP24
Toluene 34010 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (Q)	*****	g/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	11.4 MO AVG	*****	g/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Individual concentrations of PAH congeners were determined with Method 625, rather than Method 610, and their sum was reported on this form, as allowed by the discharge permit and the COP.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD				
MM/DD/YYYY			MM/DD/YYYY	
FROM	01/01/2010	TO	12/31/2010	

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Benzene 34030 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	791 MO AVG	*****	ug/L		Annual	COMP24
Acrolein 34210 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	29.5 MO AVG	*****	mg/L		Annual	COMP24
Acrylonitrile 34215 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	13.4 MO AVG	*****	ug/L		Annual	COMP24
Bis(2-chloroethyl) ether 34273 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.03 MO AVG	*****	ug/L		Annual	COMP24
Bis(2-chloroethoxy)methane 34278 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	.59 MO AVG	*****	mg/L		Annual	COMP24
Bis(2-chloroisopropyl) ether 34283 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	160.8 MO AVG	*****	mg/L		Annual	COMP24
Chlorobenzene 34301 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	76.4 MO AVG	*****	mg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO
12/31/2010		

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Diethyl phthalate	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>mg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34336 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	4420 MO AVG	*****	mg/L		Annual	COMP24
Dimethyl phthalate	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>g/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34341 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	109.9 MO AVG	*****	g/L		Annual	COMP24
1,2-Diphenylhydrazine	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>µg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34346 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	21.4 MO AVG	*****	ug/L		Annual	COMP24
Ethylbenzene	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>mg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	549 MO AVG	*****	mg/L		Annual	COMP24
Fluoranthene	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>mg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34376 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	2 MO AVG	*****	mg/L		Annual	COMP24
Hexachlorocyclopentadiene	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>mg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34386 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	7.8 MO AVG	*****	mg/L		Annual	COMP24
Hexachlorobutadiene	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	<i>mg/L</i>	0	<i>Annual</i>	<i>Comp24</i>
34391 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.88 MO AVG	*****	mg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD				
MM/DD/YYYY			MM/DD/YYYY	
FROM	01/01/2010	TO	12/31/2010	

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Hexachloroethane	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
34396 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	335 MO AVG	*****	ug/L		Annual	COMP24
Isophorone	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
34408 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	98 MO AVG	*****	mg/L		Annual	COMP24
Methylene chloride	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
34423 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	60.3 MO AVG	*****	mg/L		Annual	COMP24
N-Nitrosodi-N-propylamine	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
34428 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	50.9 MO AVG	*****	ug/L		Annual	COMP24
N-Nitrosodiphenylamine	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
34433 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	335 MO AVG	*****	ug/L		Annual	COMP24
N-Nitrosodimethylamine (NDMA)	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
34438 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	978 MO AVG	*****	ug/L		Annual	COMP24
Nitrobenzene	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
34447 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.66 MO AVG	*****	mg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO 12/31/2010

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Tetrachloroethylene 34475 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	268 MO AVG	*****	ug/L		Annual	COMP24
1,1-Dichloroethylene 34501 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	.12 MO AVG	*****	mg/L		Annual	COMP24
1,1,1-Trichloroethane 34506 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	g/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	72.4 MO AVG	*****	g/L		Annual	COMP24
1,1,2-Trichloroethane 34511 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	1.26 MO AVG	*****	mg/L		Annual	COMP24
1,1,2,2-Tetrachloroethane 34516 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	.31 MO AVG	*****	mg/L		Annual	COMP24
1,4-Dichlorobenzene 34571 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	2.41 MO AVG	*****	mg/L		Annual	COMP24
2,4-Dinitrotoluene 34611 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	348 MO AVG	*****	ug/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO 12/31/2010

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
2,4-Dinitrophenol	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
34616 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.54 MO AVG	*****	mg/L		Annual	COMP24
2,4,6-Trichlorophenol	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
34621 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.039 MO AVG	*****	mg/L		Annual	COMP24
3,3'-Dichlorobenzidine	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	µg/L	0	Annual	Comp24
34631 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.09 MO AVG	*****	ug/L		Annual	COMP24
Bis(2-ethylhexyl) phthalate	SAMPLE MEASUREMENT	*****	*****	*****	*****	8.2	*****	µg/L	0	Annual	Comp24
39100 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	469 MO AVG	*****	ug/L		Annual	COMP24
Di-n-butyl phthalate	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
39110 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	469 MO AVG	*****	mg/L		Annual	COMP24
Benzidine	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
39120 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	9.25 MO AVG	*****	ng/L		Annual	COMP24
Vinyl chloride	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
39175 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	4.82 MO AVG	*****	mg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE (805) 772-6272		DATE 08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO 12/31/2010

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Trichloroethylene 39180 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	3.62 MO AVG	*****	mg/L		Annual	COMP24
Aldrin 39330 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	2.95 MO AVG	*****	ng/L		Annual	COMP24
Chlordane (tech mix. and metabolites) 39350 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	3.08 MO AVG	*****	ng/L		Annual	COMP24
DDT/DDD/DDE, sum of p,p' & o,p' isomers 39379 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	22.8 MO AVG	*****	ng/L		Annual	COMP24
Dieldrin 39380 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	5.36 MO AVG	*****	ng/L		Annual	COMP24
Endosulfan, total 39388 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	NODI (B)	NODI (B)	NODI (B)	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	1.21 6 MO MED	2.41 DAILY MX	3.62 INST MAX	ug/L		Annual	COMP24
Endrin 39390 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	NODI (B)	NODI (B)	NODI (B)	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.27 6 MO MED	.54 DAILY MX	.8 INST MAX	ug/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I
ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442
MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO
12/31/2010		

ATTN: BRUCE KEOGH

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Toxaphene	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
39400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	28.1 MO AVG	*****	ng/L		Annual	COMP24
Heptachlor	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	pg/L	0	Annual	Comp24
39410 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	6.7 MO AVG	*****	pg/L		Annual	COMP24
Heptachlor epoxide	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	pg/L	0	Annual	Comp24
39420 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	2.68 MO AVG	*****	pg/L		Annual	COMP24
Polychlorinated biphenyls (PCBs)	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
39516 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	2.55 MO AVG	*****	ng/L		Annual	COMP24
Hexachlorobenzene	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	ng/L	0	Annual	Comp24
39700 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	28.1 MO AVG	*****	ng/L		Annual	COMP24
Phenols, chlorinated	SAMPLE MEASUREMENT	*****	*****	*****	NODI (B)	NODI (B)	NODI (B)	mg/L	0	Annual	Grab
74015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	.13 6 MO MED	.54 DAILY MX	1.34 INST MAX	mg/L		Annual	GRAB
1,3-Dichloropropene	SAMPLE MEASUREMENT	*****	*****	*****	*****	NODI (B)	*****	mg/L	0	Annual	Comp24
77163 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.19 MO AVG	*****	mg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: MORRO BAY, CITY OF AND CAYUCOS SANITARY I

ADDRESS: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

FACILITY: MORRO BAY/CAYUCOS WWTP

LOCATION: 160 ATASCADERO ROAD
MORRO BAY, CA 93442

ATTN: BRUCE KEOGH

CA0047881
PERMIT NUMBER

001-Y
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 93442

MAJOR
(SUBR 03)
DISCHARGE 001/ YEARLY
External Outfall

MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
01/01/2010	FROM	TO
12/31/2010		

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Hexachlorocyclohexane, total 77835 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<i>NODI (B)</i>	<i>NODI (B)</i>	<i>NODI (B)</i>	µg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	.54 6 MO MED	1.07 DAILY MX	1.61 INST MAX	ug/L		Annual	COMP24
Phenolic compounds, unchlorinated 78218 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<i>NODI (Q)</i>	<i>NODI (Q)</i>	<i>NODI (Q)</i>	mg/L	0	Annual	Grab
	PERMIT REQUIREMENT	*****	*****	*****	4.02 6 MO MED	16.1 DAILY MX	40.2 INST MAX	mg/L		Annual	GRAB
Halomethanes, sum 78456 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	17.4 MO AVG	*****	mg/L		Annual	COMP24
Dichlorobenzene 81524 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>NODI (B)</i>	*****	mg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	683 MO AVG	*****	mg/L		Annual	COMP24
TCDD equivalents 82698 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<i>0.18</i>	*****	pg/L	0	Annual	Comp24
	PERMIT REQUIREMENT	*****	*****	*****	*****	.52 MO AVG	*****	pg/L		Annual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Keogh Wastewater Division Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		(805) 772-6272		08/06/2010
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		MM/DD/YYYY
		AREA Code	NUMBER	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHMENT C
LABORATORY REPORTS



Date of Report: 08/02/2010

Doug Coats

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

RE: Semi-Annual Eff
BC Work Order: 1009047
Invoice ID: B084355

Enclosed are the results of analyses for samples received by the laboratory on 7/1/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

Sample Results

1009047-01 - Composite ABS

Organochlorine Pesticides and PCB's (EPA Method 608).....	6
Volatile Organic Analysis (EPA Method 624).....	7
Water Analysis (General Chemistry).....	9
Water Analysis (Metals).....	10

1009047-02 - Trip Blank

Volatile Organic Analysis (EPA Method 624).....	11
---	----

Quality Control Reports

Organochlorine Pesticides and PCB's (EPA Method 608)

Method Blank Analysis.....	13
Laboratory Control Sample.....	14
Precision and Accuracy.....	15

Volatile Organic Analysis (EPA Method 624)

Method Blank Analysis.....	16
Laboratory Control Sample.....	18
Precision and Accuracy.....	20

Water Analysis (General Chemistry)

Method Blank Analysis.....	23
Laboratory Control Sample.....	24
Precision and Accuracy.....	25

Water Analysis (Metals)

Method Blank Analysis.....	26
Laboratory Control Sample.....	27
Precision and Accuracy.....	28

Subcontract Reports

WO_1009047_SUB_WECK.pdf.....	30
------------------------------	----

Notes

Notes and Definitions.....	33
----------------------------	----



Chain of Custody Form



Laboratories, Inc.

Client: **Marine Research Specialist** Project #: **MBWWTP**
 Attention: **Dr. Doug Coats** Project Name:
 Street Address: **3140 Telegraph rd Suite A** Global ID #:
 City, State, Zip: **Ventura Ca 93003** Sampler(s):
 Phone: **805-644-1180** Fax: **289-3935**
 Email Address: **Doug.Coats@MRSENV.COM**
 Work Order #: **10-09047**

Analysis Requested

- Ag, As, Be, Cd, Cr, Cu, Hg, Ni
- Pb, Sb, Se, Ti, Zn
- Cyanide
- EPA 608, EPA 625
- 624 Acco 516
- EPA 816/817/818/819/820
- Gross Alpha/Beta
- Asbestos
- Pesticides PCBs CoB 1880

Comments:
SEE ATTACHED SHEET FOR REFERENCE

Sample #	Description	Date Sampled	Time Sampled	Ag, As, Be, Cd, Cr, Cu, Hg, Ni	Pb, Sb, Se, Ti, Zn	Cyanide	EPA 608, EPA 625	624 Acco 516	EPA 816/817/818/819/820	Gross Alpha/Beta	Asbestos	Pesticides PCBs CoB 1880
1	Composite ARS	7/1/10	0900	X	X	X	X	X	X	X	X	X

Sample Matrix
 Soil _____
 Sludge _____
 Drinking Water _____
 Ground Water _____
 Waste Water _____
 Other _____

Are there any tests with holding times less than or equal to 48 hours?
 Yes No
 * Standard Turnaround = 10 work days

CHK BY: **[Signature]**
 DISTRIBUTION: **[Signature]**
 SUB OUT:

Billing Same as above
 EDF Required? Yes No
 Send Copy to State of CA? (EDT) Yes No

Global ID (Needed for EDF)			System # (Needed for EDT)		
1. Relinquished By	Date	Time	1. Received By	Date	Time
[Signature]	7-1-10	1230	[Signature]	7-1-10	1230
2. Relinquished By	Date	Time	2. Received By	Date	Time
[Signature]	7-1-10	185	[Signature]	7-1-10	1850
3. Relinquished By	Date	Time	3. Received By	Date	Time

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

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 Bakerfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 of 1

Submission #: 1009047

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: 0.98 Container: QTYE Thermometer ID: 133
 Temperature: A 2.5 °C / C 2.0 °C Date/Time 7-11-10 1854
 Analyst Init JKW

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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 413.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/5150										
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 8014M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: -1 these are not OPA samples. No time and date on samples.
 Sample Numbering Completed By: JKW Date/Time: 7/2/10 0900
 A = Actual / C = Corrected



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1009047-01	COC Number:	---	Receive Date:	07/01/2010 18:50
	Project Number:	---	Sampling Date:	07/01/2010 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Composite ABS	Sample Matrix:	Water
	Sampled By:	---		
1009047-02	COC Number:	---	Receive Date:	07/01/2010 18:50
	Project Number:	---	Sampling Date:	07/01/2010 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Trip Blank	Sample Matrix:	Water
	Sampled By:	---		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Organochlorine Pesticides and PCB's (EPA Method 608)

BCL Sample ID: 1009047-01		Client Sample Name: Composite ABS, 7/1/2010 9:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.010	0.0026	EPA-608	ND	A01	1
alpha-BHC	ND	ug/L	0.010	0.0022	EPA-608	ND	A01	1
beta-BHC	ND	ug/L	0.010	0.0042	EPA-608	ND	A01	1
delta-BHC	ND	ug/L	0.010	0.0028	EPA-608	ND	A01	1
gamma-BHC (Lindane)	ND	ug/L	0.010	0.0019	EPA-608	ND	A01	1
Chlordane (Technical)	ND	ug/L	1.0	0.76	EPA-608	ND	A01	1
4,4'-DDD	ND	ug/L	0.010	0.0034	EPA-608	ND	A01	1
4,4'-DDE	ND	ug/L	0.010	0.0038	EPA-608	ND	A01	1
4,4'-DDT	ND	ug/L	0.010	0.0015	EPA-608	ND	A01	1
Dieldrin	ND	ug/L	0.010	0.0024	EPA-608	ND	A01	1
Endosulfan I	ND	ug/L	0.010	0.0032	EPA-608	ND	A01	1
Endosulfan II	ND	ug/L	0.010	0.0028	EPA-608	ND	A01	1
Endosulfan sulfate	ND	ug/L	0.010	0.0052	EPA-608	ND	A01	1
Endrin	ND	ug/L	0.010	0.0016	EPA-608	ND	A01	1
Endrin aldehyde	ND	ug/L	0.020	0.0064	EPA-608	ND	A01	1
Heptachlor	ND	ug/L	0.010	0.0024	EPA-608	ND	A01	1
Heptachlor epoxide	ND	ug/L	0.010	0.0020	EPA-608	ND	A01,Z1	1
Methoxychlor	ND	ug/L	0.010	0.0022	EPA-608	ND	A01,V11	1
Toxaphene	ND	ug/L	4.0	0.84	EPA-608	ND	A01	1
PCB-1016	ND	ug/L	0.40	0.040	EPA-608	ND	A01	1
PCB-1221	ND	ug/L	0.40	0.18	EPA-608	ND	A01	1
PCB-1232	ND	ug/L	0.40	0.18	EPA-608	ND	A01	1
PCB-1242	ND	ug/L	0.40	0.19	EPA-608	ND	A01	1
PCB-1248	ND	ug/L	0.40	0.050	EPA-608	ND	A01	1
PCB-1254	ND	ug/L	0.40	0.084	EPA-608	ND	A01	1
PCB-1260	ND	ug/L	0.40	0.040	EPA-608	ND	A01	1
Total PCB's (Summation)	ND	ug/L	0.40	0.20	EPA-608	ND	A01	1
TCMX (Surrogate)	210	%	44 - 111 (LCL - UCL)		EPA-608		S09	1
Dibutyl chlorendate (Surrogate)	68.4	%	43 - 128 (LCL - UCL)		EPA-608			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-608	07/02/10	07/08/10 11:50	VH1	GC-1	2	BTG0377

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

BCL Sample ID:	1009047-01			Client Sample Name:	Composite ABS, 7/1/2010 9:00:00AM			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-624	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.24	EPA-624	ND		1
Bromoform	ND	ug/L	0.50	0.26	EPA-624	ND		1
Bromomethane	ND	ug/L	1.0	0.12	EPA-624	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.12	EPA-624	ND		1
Chlorobenzene	ND	ug/L	0.50	0.063	EPA-624	ND		1
Chloroethane	ND	ug/L	0.50	0.12	EPA-624	ND		1
Chloroform	0.61	ug/L	0.50	0.12	EPA-624	ND		1
Chloromethane	ND	ug/L	0.50	0.13	EPA-624	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-624	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-624	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.059	EPA-624	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.092	EPA-624	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.070	EPA-624	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.14	EPA-624	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-624	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-624	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.071	EPA-624	ND		1
Ethylbenzene	ND	ug/L	0.50	0.077	EPA-624	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-624	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-624	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.095	EPA-624	ND		1
Toluene	0.16	ug/L	0.50	0.067	EPA-624	ND	J	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.15	EPA-624	ND		1
Trichloroethene	ND	ug/L	0.50	0.072	EPA-624	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.079	EPA-624	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.12	EPA-624	ND		1
Vinyl chloride	ND	ug/L	0.50	0.11	EPA-624	ND		1
Total Xylenes	ND	ug/L	0.50	0.22	EPA-624	ND		1



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

BCL Sample ID: 1009047-01	Client Sample Name: Composite ABS, 7/1/2010 9:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acrolein	ND	ug/L	20	7.9	EPA-624	ND		1
Acrylonitrile	ND	ug/L	5.0	0.75	EPA-624	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.17	EPA-624	ND		1
o-Xylene	ND	ug/L	0.50	0.050	EPA-624	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-624			1
Toluene-d8 (Surrogate)	95.6	%	88 - 110 (LCL - UCL)		EPA-624			1
4-Bromofluorobenzene (Surrogate)	97.0	%	86 - 115 (LCL - UCL)		EPA-624			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-624	07/02/10	07/02/10 22:20	MGC	MS-V7	1	BTG0115



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (General Chemistry)

BCL Sample ID: 1009047-01	Client Sample Name: Composite ABS, 7/1/2010 9:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Cyanide	0.0051	mg/L	0.0050	0.0028	EPA-335.4	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-335.4	07/06/10	07/06/10 11:27	TDC	KONE-1	1	BTG0161



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (Metals)

BCL Sample ID: 1009047-01	Client Sample Name: Composite ABS, 7/1/2010 9:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	100	13	EPA-200.7	ND		1
Total Beryllium	1.2	ug/L	10	1.0	EPA-200.7	ND	J	1
Total Cadmium	ND	ug/L	10	1.0	EPA-200.7	ND		1
Total Chromium	1.6	ug/L	10	1.0	EPA-200.7	ND	J	1
Total Copper	12	ug/L	10	2.3	EPA-200.7	ND		1
Total Mercury	ND	ug/L	0.20	0.016	EPA-245.1	ND		2
Total Nickel	2.7	ug/L	10	1.2	EPA-200.7	ND	J	1
Total Silver	ND	ug/L	10	1.0	EPA-200.7	ND		1
Total Zinc	50	ug/L	50	2.9	EPA-200.7	ND		1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.61	EPA-200.8	ND	J	3
Total Recoverable Lead	1.5	ug/L	1.0	0.12	EPA-200.8	ND		3
Total Recoverable Selenium	2.7	ug/L	2.0	0.36	EPA-200.8	ND		3
Total Recoverable Thallium	ND	ug/L	1.0	0.081	EPA-200.8	0.26		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	07/06/10	07/06/10 15:55	JRG	PE-OP2	1	BTG0220
2	EPA-245.1	07/20/10	07/20/10 12:32	MEV	CETAC1	1	BTG1029
3	EPA-200.8	07/08/10	07/13/10 11:15	PPS	PE-EL1	1	BTG0362

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

BCL Sample ID:	1009047-02	Client Sample Name:	Trip Blank, 7/1/2010 9:00:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-624	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.24	EPA-624	ND		1
Bromoform	ND	ug/L	0.50	0.26	EPA-624	ND		1
Bromomethane	ND	ug/L	1.0	0.12	EPA-624	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.12	EPA-624	ND		1
Chlorobenzene	ND	ug/L	0.50	0.063	EPA-624	ND		1
Chloroethane	ND	ug/L	0.50	0.12	EPA-624	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-624	ND		1
Chloromethane	ND	ug/L	0.50	0.13	EPA-624	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-624	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-624	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.059	EPA-624	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.092	EPA-624	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.070	EPA-624	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.14	EPA-624	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-624	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-624	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.071	EPA-624	ND		1
Ethylbenzene	ND	ug/L	0.50	0.077	EPA-624	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-624	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-624	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.095	EPA-624	ND		1
Toluene	ND	ug/L	0.50	0.067	EPA-624	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-624	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.15	EPA-624	ND		1
Trichloroethene	ND	ug/L	0.50	0.072	EPA-624	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.079	EPA-624	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.12	EPA-624	ND		1
Vinyl chloride	ND	ug/L	0.50	0.11	EPA-624	ND		1
Total Xylenes	ND	ug/L	0.50	0.22	EPA-624	ND		1



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

BCL Sample ID: 1009047-02	Client Sample Name: Trip Blank, 7/1/2010 9:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acrolein	ND	ug/L	20	7.9	EPA-624	ND		1
Acrylonitrile	ND	ug/L	5.0	0.75	EPA-624	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.17	EPA-624	ND		1
o-Xylene	ND	ug/L	0.50	0.050	EPA-624	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.4	%	76 - 114 (LCL - UCL)		EPA-624			1
Toluene-d8 (Surrogate)	97.0	%	88 - 110 (LCL - UCL)		EPA-624			1
4-Bromofluorobenzene (Surrogate)	93.6	%	86 - 115 (LCL - UCL)		EPA-624			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-624	07/02/10	07/02/10 21:54	MGC	MS-V7	1	BTG0115

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0377						
Aldrin	BTG0377-BLK1	ND	ug/L	0.0050	0.0013	
alpha-BHC	BTG0377-BLK1	ND	ug/L	0.0050	0.0011	
beta-BHC	BTG0377-BLK1	ND	ug/L	0.0050	0.0021	
delta-BHC	BTG0377-BLK1	ND	ug/L	0.0050	0.0014	
gamma-BHC (Lindane)	BTG0377-BLK1	ND	ug/L	0.0050	0.00094	
Chlordane (Technical)	BTG0377-BLK1	ND	ug/L	0.50	0.38	
4,4'-DDD	BTG0377-BLK1	ND	ug/L	0.0050	0.0017	
4,4'-DDE	BTG0377-BLK1	ND	ug/L	0.0050	0.0019	
4,4'-DDT	BTG0377-BLK1	ND	ug/L	0.0050	0.00076	
Dieldrin	BTG0377-BLK1	ND	ug/L	0.0050	0.0012	
Endosulfan I	BTG0377-BLK1	ND	ug/L	0.0050	0.0016	
Endosulfan II	BTG0377-BLK1	ND	ug/L	0.0050	0.0014	
Endosulfan sulfate	BTG0377-BLK1	ND	ug/L	0.0050	0.0026	
Endrin	BTG0377-BLK1	ND	ug/L	0.0050	0.00082	
Endrin aldehyde	BTG0377-BLK1	ND	ug/L	0.010	0.0032	
Heptachlor	BTG0377-BLK1	ND	ug/L	0.0050	0.0012	
Heptachlor epoxide	BTG0377-BLK1	ND	ug/L	0.0050	0.00099	
Methoxychlor	BTG0377-BLK1	ND	ug/L	0.0050	0.0011	
Toxaphene	BTG0377-BLK1	ND	ug/L	2.0	0.42	
PCB-1016	BTG0377-BLK1	ND	ug/L	0.20	0.020	
PCB-1221	BTG0377-BLK1	ND	ug/L	0.20	0.089	
PCB-1232	BTG0377-BLK1	ND	ug/L	0.20	0.090	
PCB-1242	BTG0377-BLK1	ND	ug/L	0.20	0.095	
PCB-1248	BTG0377-BLK1	ND	ug/L	0.20	0.025	
PCB-1254	BTG0377-BLK1	ND	ug/L	0.20	0.042	
PCB-1260	BTG0377-BLK1	ND	ug/L	0.20	0.020	
Total PCB's (Summation)	BTG0377-BLK1	ND	ug/L	0.20	0.10	
TCMX (Surrogate)	BTG0377-BLK1	114	%	44 - 111 (LCL - UCL)		V11
Dibutyl chlorendate (Surrogate)	BTG0377-BLK1	127	%	43 - 128 (LCL - UCL)		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0377										
Aldrin	BTG0377-BS1	LCS	0.13338	0.15000	ug/L	88.9		39 - 121		
gamma-BHC (Lindane)	BTG0377-BS1	LCS	0.087457	0.15000	ug/L	58.3		25 - 135		
4,4'-DDT	BTG0377-BS1	LCS	0.13826	0.15000	ug/L	92.2		45 - 140		
Dieldrin	BTG0377-BS1	LCS	0.15322	0.15000	ug/L	102		47 - 124		
Endrin	BTG0377-BS1	LCS	0.17529	0.15000	ug/L	117		47 - 130		
Heptachlor	BTG0377-BS1	LCS	0.13941	0.15000	ug/L	92.9		51 - 110		
TCMX (Surrogate)	BTG0377-BS1	LCS	0.37990	0.30000	ug/L	127		44 - 111		S09
Dibutyl chlorendate (Surrogate)	BTG0377-BS1	LCS	0.94515	0.75000	ug/L	126		43 - 128		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Organochlorine Pesticides and PCB's (EPA Method 608)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BTG0377		Used client sample: N								
Aldrin	MS	1007897-72	ND	0.13382	0.15000	ug/L		89.2		12 - 141
	MSD	1007897-72	ND	0.14155	0.15000	ug/L	5.6	94.4	26	12 - 141
gamma-BHC (Lindane)	MS	1007897-72	ND	0.086838	0.15000	ug/L		57.9		25 - 135
	MSD	1007897-72	ND	0.092134	0.15000	ug/L	5.9	61.4	23	25 - 135
4,4'-DDT	MS	1007897-72	ND	0.13157	0.15000	ug/L		87.7		21 - 121
	MSD	1007897-72	ND	0.14078	0.15000	ug/L	6.8	93.9	22	21 - 121
Dieldrin	MS	1007897-72	ND	0.15157	0.15000	ug/L		101		24 - 139
	MSD	1007897-72	ND	0.16218	0.15000	ug/L	6.8	108	24	24 - 139
Endrin	MS	1007897-72	ND	0.17575	0.15000	ug/L		117		26 - 143
	MSD	1007897-72	ND	0.18756	0.15000	ug/L	6.5	125	22	26 - 143
Heptachlor	MS	1007897-72	ND	0.13822	0.15000	ug/L		92.1		31 - 136
	MSD	1007897-72	ND	0.14809	0.15000	ug/L	6.9	98.7	29	31 - 136
TCMX (Surrogate)	MS	1007897-72	ND	0.37846	0.30000	ug/L		126		44 - 111 S09
	MSD	1007897-72	ND	0.40457	0.30000	ug/L		135		44 - 111 S09
Dibutyl chlorendate (Surrogate)	MS	1007897-72	ND	0.92406	0.75000	ug/L		123		43 - 128
	MSD	1007897-72	ND	1.0400	0.75000	ug/L		139		43 - 128 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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0115						
Benzene	BTG0115-BLK1	ND	ug/L	0.50	0.083	
Bromodichloromethane	BTG0115-BLK1	ND	ug/L	0.50	0.24	
Bromoform	BTG0115-BLK1	ND	ug/L	0.50	0.26	
Bromomethane	BTG0115-BLK1	ND	ug/L	1.0	0.12	
Carbon tetrachloride	BTG0115-BLK1	ND	ug/L	0.50	0.12	
Chlorobenzene	BTG0115-BLK1	ND	ug/L	0.50	0.063	
Chloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.12	
Chloroform	BTG0115-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BTG0115-BLK1	ND	ug/L	0.50	0.13	
Dibromochloromethane	BTG0115-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichlorobenzene	BTG0115-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BTG0115-BLK1	ND	ug/L	0.50	0.11	
1,4-Dichlorobenzene	BTG0115-BLK1	ND	ug/L	0.50	0.059	
1,1-Dichloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.092	
1,1-Dichloroethene	BTG0115-BLK1	ND	ug/L	0.50	0.070	
trans-1,2-Dichloroethene	BTG0115-BLK1	ND	ug/L	0.50	0.14	
1,2-Dichloropropane	BTG0115-BLK1	ND	ug/L	0.50	0.13	
cis-1,3-Dichloropropene	BTG0115-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BTG0115-BLK1	ND	ug/L	0.50	0.071	
Ethylbenzene	BTG0115-BLK1	ND	ug/L	0.50	0.077	
Methylene chloride	BTG0115-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BTG0115-BLK1	ND	ug/L	0.50	0.11	
1,1,2,2-Tetrachloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BTG0115-BLK1	ND	ug/L	0.50	0.095	
Toluene	BTG0115-BLK1	ND	ug/L	0.50	0.067	
1,1,1-Trichloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BTG0115-BLK1	ND	ug/L	0.50	0.15	
Trichloroethene	BTG0115-BLK1	ND	ug/L	0.50	0.072	
Trichlorofluoromethane	BTG0115-BLK1	ND	ug/L	0.50	0.079	
1,1,2-Trichloro-1,2,2-trifluoroethane	BTG0115-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BTG0115-BLK1	ND	ug/L	0.50	0.11	
Total Xylenes	BTG0115-BLK1	ND	ug/L	0.50	0.22	
Acrolein	BTG0115-BLK1	ND	ug/L	20	7.9	

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0115						
Acrylonitrile	BTG0115-BLK1	ND	ug/L	5.0	0.75	
p- & m-Xylenes	BTG0115-BLK1	ND	ug/L	0.50	0.17	
o-Xylene	BTG0115-BLK1	ND	ug/L	0.50	0.050	
1,2-Dichloroethane-d4 (Surrogate)	BTG0115-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTG0115-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTG0115-BLK1	97.4	%	86 - 115 (LCL - UCL)		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0115										
Benzene	BTG0115-BS1	LCS	24.170	25.000	ug/L	96.7		70 - 130		
Bromodichloromethane	BTG0115-BS1	LCS	22.920	25.000	ug/L	91.7		70 - 130		
Bromoform	BTG0115-BS1	LCS	23.740	25.000	ug/L	95.0		70 - 130		
Bromomethane	BTG0115-BS1	LCS	18.930	25.000	ug/L	75.7		70 - 130		
Carbon tetrachloride	BTG0115-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chlorobenzene	BTG0115-BS1	LCS	22.810	25.000	ug/L	91.2		70 - 130		
Chloroethane	BTG0115-BS1	LCS	24.050	25.000	ug/L	96.2		70 - 130		
Chloroform	BTG0115-BS1	LCS	24.290	25.000	ug/L	97.2		70 - 130		
Chloromethane	BTG0115-BS1	LCS	21.350	25.000	ug/L	85.4		70 - 130		
Dibromochloromethane	BTG0115-BS1	LCS	24.260	25.000	ug/L	97.0		70 - 130		
1,2-Dichlorobenzene	BTG0115-BS1	LCS	24.710	25.000	ug/L	98.8		70 - 130		
1,3-Dichlorobenzene	BTG0115-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
1,4-Dichlorobenzene	BTG0115-BS1	LCS	24.400	25.000	ug/L	97.6		70 - 130		
1,1-Dichloroethane	BTG0115-BS1	LCS	24.570	25.000	ug/L	98.3		70 - 130		
1,2-Dichloroethane	BTG0115-BS1	LCS	23.460	25.000	ug/L	93.8		70 - 130		
1,1-Dichloroethene	BTG0115-BS1	LCS	28.580	25.000	ug/L	114		70 - 130		
trans-1,2-Dichloroethene	BTG0115-BS1	LCS	26.890	25.000	ug/L	108		70 - 130		
1,2-Dichloropropane	BTG0115-BS1	LCS	22.170	25.000	ug/L	88.7		70 - 130		
cis-1,3-Dichloropropene	BTG0115-BS1	LCS	22.230	25.000	ug/L	88.9		70 - 130		
trans-1,3-Dichloropropene	BTG0115-BS1	LCS	23.290	25.000	ug/L	93.2		70 - 130		
Ethylbenzene	BTG0115-BS1	LCS	22.350	25.000	ug/L	89.4		70 - 130		
Methylene chloride	BTG0115-BS1	LCS	25.470	25.000	ug/L	102		70 - 130		
Methyl t-butyl ether	BTG0115-BS1	LCS	24.930	25.000	ug/L	99.7		70 - 130		
1,1,2,2-Tetrachloroethane	BTG0115-BS1	LCS	20.410	25.000	ug/L	81.6		70 - 130		
Tetrachloroethene	BTG0115-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130		
Toluene	BTG0115-BS1	LCS	22.140	25.000	ug/L	88.6		70 - 130		
1,1,1-Trichloroethane	BTG0115-BS1	LCS	24.070	25.000	ug/L	96.3		70 - 130		
1,1,2-Trichloroethane	BTG0115-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Trichloroethene	BTG0115-BS1	LCS	25.050	25.000	ug/L	100		70 - 130		
Trichlorofluoromethane	BTG0115-BS1	LCS	24.760	25.000	ug/L	99.0		70 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane	BTG0115-BS1	LCS	24.180	25.000	ug/L	96.7		70 - 130		
Vinyl chloride	BTG0115-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
Total Xylenes	BTG0115-BS1	LCS	64.750	75.000	ug/L	86.3		70 - 130		

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0115										
p- & m-Xylenes	BTG0115-BS1	LCS	42.870	50.000	ug/L	85.7		70 - 130		
o-Xylene	BTG0115-BS1	LCS	21.880	25.000	ug/L	87.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTG0115-BS1	LCS	9.8700	10.000	ug/L	98.7		76 - 114		
Toluene-d8 (Surrogate)	BTG0115-BS1	LCS	10.100	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTG0115-BS1	LCS	9.7100	10.000	ug/L	97.1		86 - 115		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: BTG0115 and Used client sample: N.

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quads. Includes QC Batch ID: BTG0115 and Used client sample: N.

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTG0115		Used client sample: N									
Toluene-d8 (Surrogate)	MS	1009029-01	ND	10.080	10.000	ug/L		101		88 - 110	
	MSD	1009029-01	ND	10.080	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1009029-01	ND	9.8100	10.000	ug/L		98.1		86 - 115	
	MSD	1009029-01	ND	9.3500	10.000	ug/L		93.5		86 - 115	



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0161						
Total Cyanide	BTG0161-BLK1	ND	mg/L	0.0050	0.0028	



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0161										
Total Cyanide	BTG0161-BS1	LCS	0.15212	0.15000	mg/L	101		90 - 110		



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	
									RPD	Percent Recovery		
QC Batch ID: BTG0161		Used client sample: N										
Total Cyanide	DUP	1008940-01	ND	ND		mg/L			10			
	MS	1008940-01	ND	ND	0.10000	mg/L		1.5		90 - 110		Q03
	MSD	1008940-01	ND	ND	0.10000	mg/L	2.9	1.6	10	90 - 110		Q03



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0220						
Total Antimony	BTG0220-BLK1	ND	ug/L	100	13	
Total Beryllium	BTG0220-BLK1	ND	ug/L	10	1.0	
Total Cadmium	BTG0220-BLK1	ND	ug/L	10	1.0	
Total Chromium	BTG0220-BLK1	ND	ug/L	10	1.0	
Total Copper	BTG0220-BLK1	ND	ug/L	10	2.3	
Total Nickel	BTG0220-BLK1	ND	ug/L	10	1.2	
Total Silver	BTG0220-BLK1	ND	ug/L	10	1.0	
Total Zinc	BTG0220-BLK1	ND	ug/L	50	2.9	
QC Batch ID: BTG0362						
Total Recoverable Arsenic	BTG0362-BLK1	ND	ug/L	2.0	0.61	
Total Recoverable Lead	BTG0362-BLK1	ND	ug/L	1.0	0.12	
Total Recoverable Selenium	BTG0362-BLK1	ND	ug/L	2.0	0.36	
Total Recoverable Thallium	BTG0362-BLK1	0.25700	ug/L	1.0	0.081	J
QC Batch ID: BTG1029						
Total Mercury	BTG1029-BLK1	ND	ug/L	0.20	0.016	



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0220										
Total Antimony	BTG0220-BS1	LCS	376.22	400.00	ug/L	94.1		85 - 115		
Total Beryllium	BTG0220-BS1	LCS	199.52	200.00	ug/L	99.8		85 - 115		
Total Cadmium	BTG0220-BS1	LCS	204.70	200.00	ug/L	102		85 - 115		
Total Chromium	BTG0220-BS1	LCS	198.87	200.00	ug/L	99.4		85 - 115		
Total Copper	BTG0220-BS1	LCS	383.75	400.00	ug/L	95.9		85 - 115		
Total Nickel	BTG0220-BS1	LCS	414.49	400.00	ug/L	104		85 - 115		
Total Silver	BTG0220-BS1	LCS	100.97	100.00	ug/L	101		85 - 115		
Total Zinc	BTG0220-BS1	LCS	525.02	500.00	ug/L	105		85 - 115		
QC Batch ID: BTG0362										
Total Recoverable Arsenic	BTG0362-BS1	LCS	98.332	100.00	ug/L	98.3		85 - 115		
Total Recoverable Lead	BTG0362-BS1	LCS	105.30	100.00	ug/L	105		85 - 115		
Total Recoverable Selenium	BTG0362-BS1	LCS	96.388	100.00	ug/L	96.4		85 - 115		
Total Recoverable Thallium	BTG0362-BS1	LCS	41.223	40.000	ug/L	103		85 - 115		
QC Batch ID: BTG1029										
Total Mercury	BTG1029-BS1	LCS	1.0125	1.0000	ug/L	101		85 - 115		

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes sections for QC Batch ID: BTG0220, BTG0362, and BTG1029.

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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTG1029		Used client sample: N									
Total Mercury	DUP	1009460-40	ND	ND		ug/L			20		
	MS	1009460-40	ND	0.97500	1.0000	ug/L		97.5		70 - 130	
	MSD	1009460-40	ND	1.0350	1.0000	ug/L	6.0	104	20	70 - 130	



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Subcontract Report for 1009047 PDF File Name: WO_1009047_SUB_WECK.pdf Page 1 of 3



Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: Friday, July 30, 2010
Received Date: Wednesday, July 7, 2010
Received Time: 8:50 am
Turnaround Time: Normal

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Phones: (661) 852-4204
Fax: (661) 327-1918

Attn: Tina Green
Project: 1009047

P.O. #:

Lab Sample ID: 0G07016-01 Sample ID: 1009047-01 Matrix: Water
Sampled by: Client Sampled: 07/01/10 09:00

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Gross Beta	19			pCi/L	1x1	EPA 900.0	7/9/10	7/29/10 16:16	WOG0312	
Gross Beta counting error (+/-)	0.81			pCi/L	1x1	EPA 900.0	7/9/10	7/29/10 16:16	WOG0312	
Gross Beta MDA95	1.9			pCi/L	1x1	EPA 900.0	7/8/10	7/29/10 16:16	WOG0312	
Gross Alpha	ND	0.00	0.00	pCi/L	1x1	SM7110C	7/8/10	7/12/10 15:44	WOG0232	
Gross Alpha counting error (+/-)	0.159	0.00	0.00	pCi/L	1x1	SM7110C	7/8/10	7/12/10 15:44	WOG0232	
Gross Alpha MDA95	0.0650	0.00	0.00	pCi/L	1x1	SM7110C	7/8/10	7/12/10 15:44	WOG0232	



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Subcontract Report for 1009047 PDF File Name: WO_1009047_SUB_WECK.pdf Page 2 of 3



Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section
SpQualifie

Radiological Parameters by APHA/EPA Methods - Quality Control

Batch W0G0232 - 5M7110C

Table with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Rows include Gross Alpha, Gross Alpha counting error (+/-), and Gross Alpha MDA95.

Table for LCS (W0G0232-BS1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Row includes Gross Alpha.

Table for LCS Dup (W0G0232-BSD1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Row includes Gross Alpha.

Batch W0G0312 - EPA 900.0

Table for Blank (W0G0312-BLK1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Rows include Gross Beta, Gross Beta counting error (+/-), and Gross Beta MDA95.

Table for LCS (W0G0312-BS1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Row includes Gross Beta.

Table for Matrix Spike (W0G0312-MS1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Row includes Gross Beta.

Table for Matrix Spike Dup (W0G0312-MSD1) with columns: Analyte, Sample Result, QC Result, Qualifier, Units, Spike Level, %REC, %REC Limits, RPD, RPD Limit. Row includes Gross Beta.



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Subcontract Report for 1009047 PDF File Name: WO_1009047_SUB_WECK.pdf Page 3 of 3



Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



Authorized Signature

Contact: Kim G Tu (Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity



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

Reported: 08/02/2010 10:29
Project: Semi-Annual Eff
Project Number: MBWWTP
Project Manager: Doug Coats

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- Z1 Heptachlor epoxide was not confirmed by GC/MS.



Certificate of Analysis

Report Date: Tuesday, July 28, 2009
Received Date: Friday, July 17, 2009
Received Time: 8:20 am
Turnaround Time: Normal

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Phones: (661) 852-4204
Fax: (661) 327-1918

Attn: Tina Green
Project: 0909228

P.O. #:

Lab Sample ID: 9G17010-01 Sample ID: 0909228-01 Matrix: Water
Sampled by: Client Sampled: 07/15/09 09:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Gross Beta	3.1			pCi/L	1	EPA 900.0	7/24/09	7/27/09 9:28	abd W9G0768	
Gross Beta counting error (+/-)	1.6			pCi/L	1	EPA 900.0	7/24/09	7/27/09 9:28	abd W9G0768	
Gross Beta MDA95	2.6			pCi/L	1	EPA 900.0	7/24/09	7/27/09 9:28	abd W9G0768	
Gross Alpha	0.201			pCi/L	1	SM7110C	7/20/09	7/23/09 13:13	abd W9G0706	
Gross Alpha counting error (+/-)	0.756			pCi/L	1	SM7110C	7/20/09	7/23/09 13:13	abd W9G0706	
Gross Alpha MDA95	0.343			pCi/L	1	SM7110C	7/20/09	7/23/09 13:13	abd W9G0706	



Certificate of Analysis

Quality Control Section

Radiological Parameters by APHA/EPA Methods - Quality Control

Batch W9G0706 - SM7110C

Blank (W9G0706-BLK1)					Prepared: 07/20/09		Analyzed: 07/23/09 13:13		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		0.00		pCi/L					
Gross Alpha counting error (+/-)		0.567		pCi/L					
Gross Alpha MDA95		0.343		pCi/L					

LCS (W9G0706-BS1)					Prepared: 07/20/09		Analyzed: 07/23/09 13:13		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		17.0		pCi/L	18.0	94	70-130		

LCS Dup (W9G0706-BSD1)					Prepared: 07/20/09		Analyzed: 07/23/09 13:13		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		16.2		pCi/L	18.0	90	70-130	5	30

Batch W9G0768 - EPA 900.0

Blank (W9G0768-BLK1)					Prepared: 07/24/09		Analyzed: 07/25/09 09:24		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Beta		0.0		pCi/L					
Gross Beta counting error (+/-)		0.63		pCi/L					
Gross Beta MDA95		1.1		pCi/L					

LCS (W9G0768-BS1)					Prepared: 07/24/09		Analyzed: 07/25/09 09:24		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Beta		27		pCi/L	30.0	88	70-130		

Matrix Spike (W9G0768-MS1)					Source: 9G15064-01		Prepared: 07/24/09		Analyzed: 07/25/09 09:24	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Gross Beta	1.2	39		pCi/L	30.0	126	70-130			

Matrix Spike Dup (W9G0768-MSD1)					Source: 9G15064-01		Prepared: 07/24/09		Analyzed: 07/25/09 09:24	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Gross Beta	1.2	40		pCi/L	30.0	128	70-130	1	30	

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



Authorized Signature

Contact: Nicole Van Nas For Kim G Tu (Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil Dilution Factor
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity



Date of Report: 07/28/2010

Doug Coats

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

RE: Semi-Annual Eff
BC Work Order: 1009572
Invoice ID: B084127

Enclosed are the results of analyses for samples received by the laboratory on 7/13/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

Sample Results

1009572-01 - Grab Eff	
Base Neutral and Acid Extractables Organic Analysis (EPA Method 625).....	6
1009572-02 - Composite Eff	
Base Neutral and Acid Extractables Organic Analysis (EPA Method 625).....	7

Quality Control Reports

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)	
Method Blank Analysis.....	10
Laboratory Control Sample.....	13
Precision and Accuracy.....	14

Notes

Notes and Definitions.....	16
----------------------------	----



Chain of Custody Form



Report To: Client: Marine Research Specialists		Project #:		Analysis Requested		Comments: Grab: Total chlorinated & non-chlorinated phenolic compounds. Report only the phenolic compounds! Composite: full list of base neutral and acid-extractable congeners.		
Attn: Doug Coats		Project Name: MBCSD Effluent						
Street Address: 3140 Telegraph Rd. Suite A		Global ID #:		EPA 625 (see comments) EPA 625 (see comments) EPA 608 (report heptachlor epoxide only)		Sample Matrix		
City, State, Zip: Ventura, CA 93003		Sampler(s):				Drinking Water Groundwater Wastewater Other	Are there any tests with holding times less than or equal to 48 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Phone: 805-644-1180		Work Order# 10-09572				Notes		
Email Address: doug.coats@mrsenv.com		Date Sampled				Time Sampled		
Sample #	Description	Date Sampled	Time Sampled					
1	Grab Eff	7/13/10	0855	✓			see comments	
2	Composite Eff	7/13/10	0855	✓			see comments	
3	Composite Eff	7/13/10	0915	✓			rpt heptachlor epoxide only!	
Billing <input checked="" type="checkbox"/> Same as above		EDF Required? <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive Months		Special Reporting <input type="checkbox"/> QC <input type="checkbox"/> EDF <input type="checkbox"/> Raw Data		
Client: _____ Address: _____ City: _____ State: _____ Zip: _____ Attn: _____ PO#: _____		Send Copy to State of CA? <input type="checkbox"/> Yes <input type="checkbox"/> No		1. Requisitioned By: <i>[Signature]</i> Date: 7/13/10 Time: 1405 2. Requisitioned By: <i>[Signature]</i> Date: 7-13-10 Time: 1925 3. Requisitioned By: _____ Date: _____ Time: _____		1. Requisitioned By: <i>[Signature]</i> Date: 7-13-10 Time: 1405 2. Requisitioned By: <i>[Signature]</i> Date: 7/12/10 Time: 1925 3. Requisitioned By: _____ Date: _____ Time: _____		

CHERRY DISTRIBUTION SUB-OUT

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 Page 3 of 16



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 Of 1

Submission #: 10-09572

SHIPPING INFORMATION
Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other

SHIPPING CONTAINER
Ice Chest, Box, None, Other

Refrigerant: Ice, Blue Ice, None, Other

Custody Seals: Ice Chest, Containers, None

All samples received? All samples containers intact? Description(s) match COC?

COC Received YES/NO, Emissivity, Container, Thermometer ID, Date/Time, Analyst Init

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: Date/Time: A = Actual / C = Corrected

[H:\DOCS\WP\LAB\DOCS\FORMS\SAMREC2.WPD]



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1009572-01	COC Number:	---	Receive Date:	07/13/2010 19:25
	Project Number:	---	Sampling Date:	07/13/2010 08:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Grab Eff	Sample Matrix:	Water
	Sampled By:	---		
1009572-02	COC Number:	---	Receive Date:	07/13/2010 19:25
	Project Number:	---	Sampling Date:	07/13/2010 08:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Composite Eff	Sample Matrix:	Water
	Sampled By:	---		
1009572-03	COC Number:	---	Receive Date:	07/13/2010 19:25
	Project Number:	---	Sampling Date:	07/13/2010 09:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	Composite Eff	Sample Matrix:	Water
	Sampled By:	---		



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1009572-01	Client Sample Name: Grab Eff, 7/13/2010 8:55:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	3.3	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	41.0	%	28 - 85 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	38.1	%	13 - 59 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	73.7	%	34 - 119 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	70.6	%	24 - 128 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	68.1	%	35 - 114 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	78.3	%	10 - 185 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	07/19/10	07/27/10 02:18	SKC	MS-B2	0.960	BTG1335

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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1009572-02		Client Sample Name: Composite Eff, 7/13/2010 8:55:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	8.2	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

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



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1009572-02	Client Sample Name: Composite Eff, 7/13/2010 8:55:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

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



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1009572-02 **Client Sample Name:** Composite Eff, 7/13/2010 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	54.3	%	28 - 85 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	52.0	%	13 - 59 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	94.4	%	34 - 119 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	83.4	%	24 - 128 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	65.9	%	35 - 114 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	90.9	%	10 - 185 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	07/19/10	07/23/10 01:21	SKC	MS-B1	0.980	BTG1335

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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1335						
Acenaphthene	BTG1335-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BTG1335-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BTG1335-BLK1	ND	ug/L	2.0	0.35	
Aniline	BTG1335-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BTG1335-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BTG1335-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BTG1335-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BTG1335-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BTG1335-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BTG1335-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BTG1335-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BTG1335-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BTG1335-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BTG1335-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BTG1335-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BTG1335-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BTG1335-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BTG1335-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BTG1335-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BTG1335-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BTG1335-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BTG1335-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BTG1335-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BTG1335-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BTG1335-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BTG1335-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BTG1335-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BTG1335-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BTG1335-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BTG1335-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BTG1335-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BTG1335-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.35	

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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1335						
1,4-Dichlorobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BTG1335-BLK1	ND	ug/L	10	8.2	
Dieldrin	BTG1335-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BTG1335-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BTG1335-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BTG1335-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BTG1335-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BTG1335-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BTG1335-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BTG1335-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BTG1335-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BTG1335-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BTG1335-BLK1	ND	ug/L	3.0	0.58	
Endrin	BTG1335-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BTG1335-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BTG1335-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BTG1335-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BTG1335-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BTG1335-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BTG1335-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BTG1335-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BTG1335-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BTG1335-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BTG1335-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BTG1335-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BTG1335-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BTG1335-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BTG1335-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BTG1335-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BTG1335-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BTG1335-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BTG1335-BLK1	ND	ug/L	2.0	1.3	

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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1335						
N-Nitrosodiphenylamine	BTG1335-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BTG1335-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BTG1335-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BTG1335-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BTG1335-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BTG1335-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BTG1335-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BTG1335-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BTG1335-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BTG1335-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BTG1335-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BTG1335-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BTG1335-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BTG1335-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BTG1335-BLK1	ND	ug/L	10	0.79	
Phenol	BTG1335-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BTG1335-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BTG1335-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	BTG1335-BLK1	60.6	%	28 - 85 (LCL - UCL)		
Phenol-d5 (Surrogate)	BTG1335-BLK1	41.7	%	13 - 59 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BTG1335-BLK1	77.0	%	34 - 119 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BTG1335-BLK1	77.8	%	24 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BTG1335-BLK1	83.9	%	35 - 114 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BTG1335-BLK1	104	%	10 - 185 (LCL - UCL)		



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: BTG1335									
Acenaphthene	BTG1335-BS1	LCS	41.763	50.000	ug/L	83.5	63 - 128		
1,4-Dichlorobenzene	BTG1335-BS1	LCS	33.082	50.000	ug/L	66.2	72 - 112		L01
2,4-Dinitrotoluene	BTG1335-BS1	LCS	45.147	50.000	ug/L	90.3	45 - 136		
Hexachlorobenzene	BTG1335-BS1	LCS	52.286	50.000	ug/L	105	71 - 130		
Hexachlorobutadiene	BTG1335-BS1	LCS	25.217	50.000	ug/L	50.4	56 - 106		L01
Hexachloroethane	BTG1335-BS1	LCS	28.360	50.000	ug/L	56.7	58 - 116		L01
Nitrobenzene	BTG1335-BS1	LCS	37.847	50.000	ug/L	75.7	59 - 119		
N-Nitrosodi-N-propylamine	BTG1335-BS1	LCS	31.091	50.000	ug/L	62.2	47 - 112		
Pyrene	BTG1335-BS1	LCS	44.499	50.000	ug/L	89.0	26 - 167		
1,2,4-Trichlorobenzene	BTG1335-BS1	LCS	33.306	50.000	ug/L	66.6	64 - 116		
4-Chloro-3-methylphenol	BTG1335-BS1	LCS	44.545	50.000	ug/L	89.1	52 - 123		
2-Chlorophenol	BTG1335-BS1	LCS	40.122	50.000	ug/L	80.2	62 - 106		
2-Methylphenol	BTG1335-BS1	LCS	37.530	50.000	ug/L	75.1	39 - 119		
3- & 4-Methylphenol	BTG1335-BS1	LCS	63.147	100.00	ug/L	63.1	40 - 94		
4-Nitrophenol	BTG1335-BS1	LCS	17.095	50.000	ug/L	34.2	18 - 64		
Pentachlorophenol	BTG1335-BS1	LCS	46.138	50.000	ug/L	92.3	38 - 144		
Phenol	BTG1335-BS1	LCS	17.997	50.000	ug/L	36.0	22 - 60		
2,4,6-Trichlorophenol	BTG1335-BS1	LCS	41.775	50.000	ug/L	83.6	60 - 127		
2-Fluorophenol (Surrogate)	BTG1335-BS1	LCS	50.720	80.000	ug/L	63.4	28 - 85		
Phenol-d5 (Surrogate)	BTG1335-BS1	LCS	32.500	80.000	ug/L	40.6	13 - 59		
Nitrobenzene-d5 (Surrogate)	BTG1335-BS1	LCS	61.620	80.000	ug/L	77.0	34 - 119		
2-Fluorobiphenyl (Surrogate)	BTG1335-BS1	LCS	58.960	80.000	ug/L	73.7	24 - 128		
2,4,6-Tribromophenol (Surrogate)	BTG1335-BS1	LCS	77.010	80.000	ug/L	96.3	35 - 114		
p-Terphenyl-d14 (Surrogate)	BTG1335-BS1	LCS	41.030	40.000	ug/L	103	10 - 185		



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: BTG1335 and Used client sample: N.

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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTG1335		Used client sample: N									
2-Fluorophenol (Surrogate)	MS	1007897-07	ND	55.400	80.000	ug/L		69.2		28 - 85	
	MSD	1007897-07	ND	55.703	80.000	ug/L		69.6		28 - 85	
Phenol-d5 (Surrogate)	MS	1007897-07	ND	36.040	80.000	ug/L		45.0		13 - 59	
	MSD	1007897-07	ND	36.691	80.000	ug/L		45.9		13 - 59	
Nitrobenzene-d5 (Surrogate)	MS	1007897-07	ND	68.430	80.000	ug/L		85.5		34 - 119	
	MSD	1007897-07	ND	69.413	80.000	ug/L		86.8		34 - 119	
2-Fluorobiphenyl (Surrogate)	MS	1007897-07	ND	65.870	80.000	ug/L		82.3		24 - 128	
	MSD	1007897-07	ND	64.180	80.000	ug/L		80.2		24 - 128	
2,4,6-Tribromophenol (Surrogate)	MS	1007897-07	ND	82.040	80.000	ug/L		103		35 - 114	
	MSD	1007897-07	ND	78.341	80.000	ug/L		97.9		35 - 114	
p-Terphenyl-d14 (Surrogate)	MS	1007897-07	ND	47.270	40.000	ug/L		118		10 - 185	
	MSD	1007897-07	ND	43.051	40.000	ug/L		108		10 - 185	



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

Reported: 07/28/2010 12:39
Project: Semi-Annual Eff
Project Number: [none]
Project Manager: Doug Coats

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- L01 The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.

July 20, 2010

Vista Project I.D.: 32697

Dr. Douglas A. Coats
Marine Research Specialists
3140 Telegraph Rd., Ste A
Ventura, CA 93003-3238

Dear Dr. Coats,

Enclosed are the results for one of the two aqueous samples received at Vista Analytical Laboratory on July 2, 2010 under your Project Name "MWWTP". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work. As requested, the travel blank was placed on hold.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Vista's current certifications, and copies of the raw data (if requested).

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha M. Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



--

Section I: Sample Inventory Report

Date Received: 7/2/2010

<u>Vista Lab. ID</u>	<u>Client Sample ID</u>
32697-001	COMP EFF #1
32697-002	TRAVEL BLANK

SECTION II

Method Blank					EPA Method 1613		
Matrix:	Effluent	QC Batch No.:	3126	Lab Sample:	0-MB001		
Sample Size:	1.00 L	Date Extracted:	13-Jul-10	Date Analyzed DB-5:	15-Jul-10	Date Analyzed DB-225:	NA
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.484			<u>IS</u> 13C-2,3,7,8-TCDD	83.9	25 - 164
1,2,3,7,8-PeCDD	ND	0.958			13C-1,2,3,7,8-PeCDD	66.1	25 - 181
1,2,3,4,7,8-HxCDD	ND	1.74			13C-1,2,3,4,7,8-HxCDD	84.3	32 - 141
1,2,3,6,7,8-HxCDD	ND	1.83			13C-1,2,3,6,7,8-HxCDD	85.8	28 - 130
1,2,3,7,8,9-HxCDD	ND	1.74			13C-1,2,3,7,8,9-HxCDD	84.4	32 - 141
1,2,3,4,6,7,8-HpCDD	ND	2.04			13C-1,2,3,4,6,7,8-HpCDD	95.4	23 - 140
OCDD	5.00			J	13C-OCDD	92.4	17 - 157
2,3,7,8-TCDF	ND	0.384			13C-2,3,7,8-TCDF	88.6	24 - 169
1,2,3,7,8-PeCDF	ND	0.507			13C-1,2,3,7,8-PeCDF	72.8	24 - 185
2,3,4,7,8-PeCDF	ND	0.472			13C-2,3,4,7,8-PeCDF	69.7	21 - 178
1,2,3,4,7,8-HxCDF	ND	1.03			13C-1,2,3,4,7,8-HxCDF	67.5	26 - 152
1,2,3,6,7,8-HxCDF	ND	1.01			13C-1,2,3,6,7,8-HxCDF	81.6	26 - 123
2,3,4,6,7,8-HxCDF	ND	1.17			13C-2,3,4,6,7,8-HxCDF	83.7	28 - 136
1,2,3,7,8,9-HxCDF	ND	1.39			13C-1,2,3,7,8,9-HxCDF	88.3	29 - 147
1,2,3,4,6,7,8-HpCDF	ND	2.22			13C-1,2,3,4,6,7,8-HpCDF	90.4	28 - 143
1,2,3,4,7,8,9-HpCDF	ND	1.91			13C-1,2,3,4,7,8,9-HpCDF	97.7	26 - 138
OCDF	ND	2.20			13C-OCDF	89.0	17 - 157
					<u>CRS</u> 37Cl-2,3,7,8-TCDD	83.7	35 - 197
Totals					Toxic Equivalent Quotient (TEQ) Data ^e		
Total TCDD	ND	0.484			TEQ (Min):	0.000500	
Total PeCDD	ND	0.958			a. Sample specific estimated detection limit.		
Total HxCDD	ND	1.77			b. Estimated maximum possible concentration.		
Total HpCDD	ND	2.04			c. Method detection limit.		
Total TCDF	ND	0.384			d. Lower control limit - upper control limit.		
Total PeCDF	ND	0.490			e. TEQ based on (1997) World Health Organization Toxic Equivalent Factors.(WHO)		
Total HxCDF	ND	1.15					
Total HpCDF	ND	2.06					

OPR Results				EPA Method 1613			
Matrix:	Effluent	QC Batch No.:	3126	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	13-Jul-10	Date Analyzed DB-5:	15-Jul-10	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	10.4	6.7 - 15.8	<u>IS</u> 13C-2,3,7,8-TCDD	74.4	25 - 164	
1,2,3,7,8-PeCDD	50.0	51.1	35 - 71	13C-1,2,3,7,8-PeCDD	57.1	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	51.2	35 - 82	13C-1,2,3,4,7,8-HxCDD	73.4	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	50.7	38 - 67	13C-1,2,3,6,7,8-HxCDD	75.1	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	49.0	32 - 81	13C-1,2,3,7,8,9-HxCDD	74.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	50.0	50.3	35 - 70	13C-1,2,3,4,6,7,8-HpCDD	79.3	23 - 140	
OCDD	100	99.8	78 - 144	13C-OCDD	74.9	17 - 157	
2,3,7,8-TCDF	10.0	10.4	7.5 - 15.8	13C-2,3,7,8-TCDF	78.0	24 - 169	
1,2,3,7,8-PeCDF	50.0	54.6	40 - 67	13C-1,2,3,7,8-PeCDF	62.9	24 - 185	
2,3,4,7,8-PeCDF	50.0	53.4	34 - 80	13C-2,3,4,7,8-PeCDF	61.6	21 - 178	
1,2,3,4,7,8-HxCDF	50.0	53.5	36 - 67	13C-1,2,3,4,7,8-HxCDF	58.2	26 - 152	
1,2,3,6,7,8-HxCDF	50.0	52.5	42 - 65	13C-1,2,3,6,7,8-HxCDF	70.4	26 - 123	
2,3,4,6,7,8-HxCDF	50.0	53.9	35 - 78	13C-2,3,4,6,7,8-HxCDF	71.5	28 - 136	
1,2,3,7,8,9-HxCDF	50.0	52.3	39 - 65	13C-1,2,3,7,8,9-HxCDF	75.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	50.0	50.6	41 - 61	13C-1,2,3,4,6,7,8-HpCDF	75.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	50.0	51.3	39 - 69	13C-1,2,3,4,7,8,9-HpCDF	79.2	26 - 138	
OCDF	100	99.7	63 - 170	13C-OCDF	74.1	17 - 157	
				<u>CRS</u> 37Cl-2,3,7,8-TCDD	86.3	35 - 197	

Analyst: WJL

Approved By: Rose Harrelson 20-Jul-2010 15:14

Sample ID: COMP EFF #1					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	Marine Research Specialists		Matrix:	Effluent	Lab Sample:	32697-001	Date Received:	2-Jul-10
Project:	MBWWTP		Sample Size:	0.993 L	QC Batch No.:	3126	Date Extracted:	13-Jul-10
Date Collected:	1-Jul-10				Date Analyzed DB-5:	15-Jul-10	Date Analyzed DB-225:	NA
Time Collected:	0910							
Analyte	Conc. (pg/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.624			<u>IS</u> 13C-2,3,7,8-TCDD	64.8	25 - 164	
1,2,3,7,8-PeCDD	ND	1.49			13C-1,2,3,7,8-PeCDD	47.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	2.27			13C-1,2,3,4,7,8-HxCDD	58.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	2.29			13C-1,2,3,6,7,8-HxCDD	60.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	2.13			13C-1,2,3,7,8,9-HxCDD	58.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	9.68			J	13C-1,2,3,4,6,7,8-HpCDD	62.9	23 - 140	
OCDD	74.2			B	13C-OCDD	60.3	17 - 157	
2,3,7,8-TCDF	ND	0.563			13C-2,3,7,8-TCDF	66.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.816			13C-1,2,3,7,8-PeCDF	53.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.823			13C-2,3,4,7,8-PeCDF	51.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	1.62			13C-1,2,3,4,7,8-HxCDF	48.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	1.64			13C-1,2,3,6,7,8-HxCDF	57.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	1.87			13C-2,3,4,6,7,8-HxCDF	58.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	2.31			13C-1,2,3,7,8,9-HxCDF	61.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	2.94			13C-1,2,3,4,6,7,8-HpCDF	61.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	2.74			13C-1,2,3,4,7,8,9-HpCDF	64.4	26 - 138	
OCDF	4.23			J	13C-OCDF	59.2	17 - 157	
					<u>CRS</u> 37Cl-2,3,7,8-TCDD	85.5	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	6.28				TEQ (Min):	0.105		
Total PeCDD	5.00					a. Sample specific estimated detection limit.		
Total HxCDD	ND	2.23				b. Estimated maximum possible concentration.		
Total HpCDD	19.2					c. Method detection limit.		
Total TCDF	ND	0.563				d. Lower control limit - upper control limit.		
Total PeCDF	ND	0.820				e. TEQ based on (1997) World Health Organization Toxic Equivalent Factors.(WHO)		
Total HxCDF	ND	1.86						
Total HpCDF	ND	2.84						

Analyst: TEH

Approved By: Rose Harrelson 20-Jul-2010 15:14

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-2008
State of Arizona	AZ0639
State of Arkansas, DEQ	08-043-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	N/A
State of Connecticut	PH-0182
State of Florida, DEP	E87777
State of Indiana Department of Health	C-CA-02
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA08000
State of Louisiana, DEQ	01977
State of Maine	2008024
State of Michigan	9932
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	NFESCA413
State of Nevada	CA004132007A
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-006
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	TN02996
State of Texas	T104704189-08-TX
U.S. Army Corps of Engineers	N/A
State of Utah	CA16400
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q



CHAIN OF CUSTODY

FOR LABORATORY USE ONLY

Storage Secured: Yes No

Laboratory Project ID: 32697

Storage ID: 1.5 WR-2 Temp: 1.5 °C

Project I.D.: MBWWTP P.O.# _____ Sampler: Aschenbrenner
(Name)

TAT: (Check One):
 Standard: 21 Days
 Rush (surcharge may apply):
 14 days 7 days Specify: _____

Invoice to: Name Dr. Doug Coats Marine Research Specialist Company Research Specialist Address 3140 Telegraph Rd Suite A City Ventura State Ca Zip 93003 Ph# 805-644-1180 Fax# 289-3435

Relinquished by: (Signature and Printed Name) [Signature] Date: 7-1-10 Time: 1430 Received by: (Signature and Printed Name) Ronda Burrell Date: 7/2/10 Time: 0739

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

Method of Shipment: _____

Tracking No.: _____

ATTN: _____

Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Add Analysis(es) Requested		
																		EPA1613	EPA8290	
1																				
1																				

Sample ID	Date	Time	Location/Sample Description
<u>COMP EFF #1</u>	<u>7-1-10</u>	<u>0910</u>	<u>24W COMP EFF A.R.S</u>
<u>Travel Blank</u>			

Special Instructions/Comments: Questions call 805-644-1180

SEND DOCUMENTATION AND RESULTS TO:

Name: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____
 Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
 SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum
 AQ = Aqueous, O = Other _____

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = PUF, T = MMS Train, O = Other _____

*Bottle Preservative Type: T = Thiosulfate,
 O = Other _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 32697 TAT Standard

Samples Arrival:	Date/Time 7/2/10 0839	Initials: RB	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 7/2/10 1407	Initials: RB	Location: WR-2
			Shelf/Rack: C-3
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> Cal
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
		<input type="checkbox"/> None	
Temp °C	1.5	Time: 0911	Thermometer ID: IR-1

	YES	NO	NA
Adequate Sample Volume Received? 1 Liter	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?			<input checked="" type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Airbill	Trk # 8463 7613 3104		
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?		<input checked="" type="checkbox"/> *	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?	<input checked="" type="checkbox"/>		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Na ₂ S ₂ O ₃ Preservation Documented?			<input checked="" type="checkbox"/> None
Shipping Container	Vista	Client	Retain
		Return	Dispose

Comments:

COMP EFF
Travel Blank

* custody seal on bottle saturated with water causing tear with movement in the ice chest - cap intact



4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net

Dr. Doug Coats
Marine Research Specialists
3140 Telegraph Road Suite A
Ventura CA, 93003

ELAP Certification Number: 2385

Page 1 of 1

Thursday, July 22, 2010

Lab Number: AA67224

Collection Date/Time: 7/1/2010 9:30 Sample Collector: ASCHENBRENER,
Submittal Date/Time: 7/1/2010 9:42 Sample ID

Sample Description: Grab Eff. A.R.S.

Analyte	Method	Unit	Result	Qual	PQL	Date Analyzed
Nitrate as NO3-N	300.0	mg/L	Not detected		0.1	7/3/2010
o-Phosphate-P	300.0	mg/L	3.4		0.05	7/3/2010
Silica as SiO2, Dissolved	4500-SI-E	mg/L	13		0.05	7/7/2010
Urea-N	Mulvenna&Savid	ug/L	78		10	7/15/2010

Sample Comments:

Report Approved by:

David Holland
Laboratory Director

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

H = Analyzed outside of hold time

E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

D = Method deviates from standard method due to insufficient sample for MS/MSD

J = Result is less than PQL



Certificate of Analysis

Report Date: Thursday, July 15, 2010
Received Date: Friday, July 2, 2010
Received Time: 9:20 am
Turnaround Time: Normal

Client: Marine Research Specialties
3140 Telegraph Road
Ventura, CA 93003-3223

Phones: (805) 644-1180
Fax:

Attn: Doug Coats
Project: COMP EFF

P.O. #:

Lab Sample ID: 0G02005-01	Sample ID: COMP EFF		Matrix: Water							
Sampled by: SRA	Sampled: 07/01/10 09:50									
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Tri-n-butyltin	ND	0.030	0.050	ug/l	1x1	GC/MS	7/8/10	7/13/10 13:58	W0G0217	
Surrogate: Triphenyltin	90 %		23-146							



Certificate of Analysis

Quality Control Section SpQualifie

Organo Tin by GC/MS - Quality Control

Batch W0G0217 - GC/MS

Blank (W0G0217-BLK1)					Prepared: 07/08/10		Analyzed: 07/13/10 12:22		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyltin		0.143		ug/l	0.200	72	23-146		
Tri-n-butyltin		ND		ug/l					
LCS (W0G0217-BS1)					Prepared: 07/08/10		Analyzed: 07/13/10 12:54		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyltin		0.146		ug/l	0.200	73	23-146		
Tri-n-butyltin		0.254		ug/l	0.200	127	53-154		
LCS Dup (W0G0217-BSD1)					Prepared: 07/08/10		Analyzed: 07/13/10 13:26		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyltin		0.143		ug/l	0.200	72	23-146		
Tri-n-butyltin		0.257		ug/l	0.200	128	53-154	1	30

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



Kim Tu

Authorized Signature

Contact: Kim G Tu (Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity

LABORATORY REPORT



"dedicated to providing quality aquatic toxicity testing"

Date: July 19, 2010

Client: Marine Research Specialists
3140 Telegraph Road, Suite A
Ventura, CA 93003
Attn: Doug Coats

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Laboratory No.: A-10071401-001
Sample I.D.: Morro Bay Effluent

Sample Control: The samples were received by ATL within the recommended hold time, in a chilled state, and with the chain of custody records attached.

Date Sampled: 07/13/10 (composite)
Date Received: 07/14/10
Temp. Received: 1.2°C
Chlorine (TRC): 0.0 mg/l
Dates Tested: 07/14/10 to 07/16/10

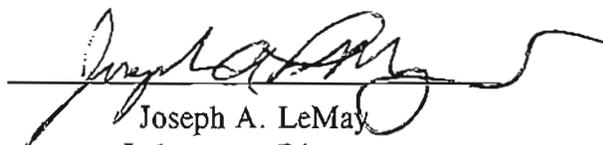
Sample Analysis: The following analyses were performed on your sample:
Abalone Larval Development Short-Term Toxicity Test (EPA 600/R-95/136).

Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Test</u>	<u>NOEC</u>	<u>TUc</u>
Abalone Development:	5.6%	17.9

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

ABALONE LARVAL DEVELOPMENT SHORT-TERM TOXICITY TEST



Lab No.: A-10071401-001
Client/ID: Morro Bay WWTP

Date tested: 07/14/10 - 07/16/10

TEST SUMMARY

Species: *Haliotis rufescens*.
Protocol: EPA/600/R-95/136.
Test type: Static.
Test chamber: glass beakers.
Temperature: 15 +/- 1°C.
Number of embryos per chamber: 1600 (approx.).
QA/QC Batch No.: RT-100714 (ran concurrently)

Source: The Cultured Abalone.
Dilution water: Lab seawater.
Endpoints: NOEC.
Test volume: 200 ml.
Aeration: None.
Number of replicates: 5.

RESULTS SUMMARY

Sample Concentration	Percent Normal Development	
Control (Brine)	97.1%	
Control (Dilution)	96.3%	
3.2%	96.9%	
5.6%	96.5%	
10.0%	10.2%	*
18.0%	0%	*
32.0%	0%	*
* Statistically significantly less than control at P = 0.05 level		

CHRONIC TOXICITY

NOEC	5.6%
TU _c	17.9

QA/QC TEST ACCEPTABILITY

Parameter	Result
Average control normality ≥80%	PASSED (96.3%)
%MSD <20% relative to control	PASSED (%MSD = 6.4%)
Please see RT-100714 report for additional test acceptability criteria.	

Abalone Larval Development Test-Proportion Normal

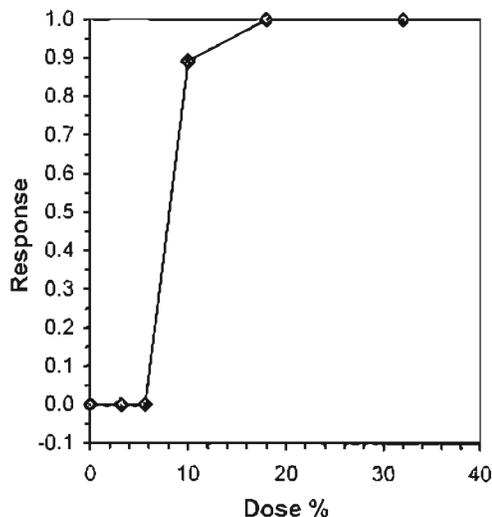
Start Date: 7/14/2010 13:30 Test ID: 10071401ab Sample ID: CA0047881-Morro Bay SD
 End Date: 7/16/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF1-POTW
 Sample Date: 7/13/2010 08:55 Protocol: WCCH-EPA-600-R-95-136 Test Species: HR-Haliotis rufescens
 Comments:

Conc-%	1	2	3	4	5
B-Control	0.9550	0.9626	0.9640	0.9906	0.9810
D-Control	0.9558	0.9619	0.9904	0.9626	0.9439
3.2	0.9810	0.9316	0.9813	0.9810	0.9714
5.6	0.9813	0.9358	0.9633	0.9720	0.9717
10	0.1455	0.0000	0.1982	0.0556	0.1132
18	0.0000	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000	0.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
B-Control	0.9706	1.0080	1.4038	1.3569	1.4735	3.418	5						
D-Control	0.9629	1.0000	1.3827	1.3317	1.4726	3.853	5	*				0.9656	1.0000
3.2	0.9693	1.0066	1.4011	1.3062	1.4336	3.911	5	-0.317	2.230	0.1290		0.9656	1.0000
5.6	0.9648	1.0020	1.3861	1.3146	1.4336	3.218	5	-0.058	2.230	0.1290		0.9647	0.9991
*10	0.1025	0.1064	0.2968	0.0500	0.4614	53.950	5	18.773	2.230	0.1290		0.1047	0.1084
18	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5					0.0000	0.0000
32	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5					0.0000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.9208	0.905	-1.0137	3.33806						
Bartlett's Test indicates equal variances (p = 0.03)	8.77435	11.3449								
The control means are not significantly different (p = 0.53)	0.65535	2.30601								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test Treatments vs D-Control	5.6	10	7.48331	17.8571	0.06225	0.0645	1.49426	0.00837	1.6E-12	3, 16

Point	%	SD	Linear Interpolation (200 Resamples)		Skew
			95% CL(Exp)	Skew	
IC05	5.8425	0.0345	5.7024	5.8624	-0.8893
IC10	6.0895	0.0357	5.9605	6.1236	-0.4799
IC15	6.3365	0.0390	6.2037	6.3855	-0.1641
IC20	6.5835	0.0439	6.4399	6.6476	0.0003
IC25	6.8305	0.0499	6.6703	6.9126	0.0607
IC40	7.5715	0.0718	7.3618	7.7064	0.0492
IC50	8.0655	0.0879	7.8164	8.2359	0.0245



ABALONE CHRONIC BIOASSAY



Lab No.: A-10071401-001
 Client ID: MRS - Morro Bay Effluent

Start Date: 04/14/2010

WATER QUALITY READINGS

Sample	Initial Readings				Final Readings			
	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)
Control (brine)	15.7	7.1	8.2	34	14.8	7.9	8.1	34
Control (lab)	15.2	7.2	8.2	34	14.4	8.0	8.1	34
3.2%	15.4	7.3	8.2	34	15.3	7.7	8.1	34
5.6%	15.5	7.2	8.2	34	14.7	7.8	8.1	34
10%	15.0	7.1	8.2	34	15.7	7.7	8.2	34
18%	14.9	7.3	8.1	34	15.0	7.8	8.2	34
32%	15.0	7.0	8.1	34	15.5	7.6	8.2	34

Sample as received: Chlorine: 0 mg/l; pH: 7.8; Salinity: 0 ppt; Temp: 1-2 °C; DO: 5.4 mg/l.

Initial readings: PM Date/Time: 7-14-10 1330 Final readings: PM Date/Time: 7-16-10 1440

MICROSCOPIC EXAMINATION

Beaker No.	Sample Conc.	Number Normal	Number Abnormal	Beaker No.	Sample Conc.	Number Normal	Number Abnormal	Beaker No.	Sample Conc.	Number Normal	Number Abnormal
1	18	0	100	13	5.6	102	7	25	18	0	100
2	B	106	5	14	32	0	100	26	3.2	103	2
3	10	16	94	15	C	103	1	27	5.6	104	3
4	C	108	5	16	5.6	105	4	28	10	6	102
5	5.6	105	2	17	10	22	89	29	C	101	6
6	3.2	103	2	18	B	107	4	30	18	0	100
7	3.2	0	100	19	18	0	100	31	3.2	102	3
8	B	103	4	20	3.2	105	2	32	10	12	94
9	3.2	109	8	21	32	0	100	33	5.6	103	3
10	10	0	100	22	B	105	1	34	B	103	2
11	C	101	4	23	32	0	100	35	3.2	0	100
12	18	0	100	24	C	103	4				

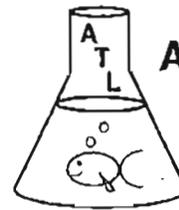
Microscopic examination: Analyst: PM Date: 7-19-10 Time: 1100



***CHAIN
OF
CUSTODY***

CHAIN OF CUSTODY

Client: City of Morro Bay
Wastewater Treatment Plant
 Address: 160 Atascadero Road
Morro Bay, CA 93442
 Project Manager: Doug Coats - MRS
 Phone: (805) 644-1180
 Fax: (805) 289-3935
 Purchase Order No: _____



**Aquatic
Testing
Laboratories**

**4350 Transport St., Unit 107
Ventura, CA 93003
(805) 650-0546 Fax (805) 650-0756**

Sample ID	Sample Date	Sample Time	Sample Type *	Chlorine (TRC)**	Number of Containers	Testing Requested
Comp. Eff.	7/13/10	0855	E	<.05	1 (one gallon)	<i>Abalone Giant Kelp Chronic</i>

Special Instructions:

**** Note: Total residual chlorine must be taken immediately after sample collection if sample is a chlorinated effluent.**

* L - Liquid, S - Solid, SS - Semi-Solid/sludge, RW - Receiving Water, GW - Ground Water, E - Effluent

CUSTODY TRANSFERS

Relinquished by (signature)	Received by (signature)	Date (mm/dd/yy)	Time (hh:mm)	Seals Intact? (Yes, No, NA)	Temperature Received (°C)
<i>[Signature]</i>	<i>Fal Ex</i>	7/13/10	1430	YES	—
<i>Fal Ex</i>	<i>[Signature]</i>	7-14-10	0930	NA	1.2°



***REFERENCE
TOXICANT
DATA***

**ABALONE LARVAL DEVELOPMENT
SHORT-TERM TOXICITY TEST
* REFERENCE TOXICANT ***



QA/QC Batch No.: RT-100714

Date tested: 07/14/10 - 07/16/10

TEST SUMMARY

Species: *Haliotis rufescens*.
Protocol: EPA/600/R-95/136.
Test type: Static.
Test chamber: Plastic beakers.
Temperature: 15 +/- 1°C.
Number of embryos per chamber: 1600 (approx.).
Reference Toxicant: ZnSO₄(7H₂O).

Source: The Cultured Abalone.
Dilution water: Lab seawater.
Endpoints: NOEC, IC25 at 48 hrs.
Test volume: 200 ml.
Aeration: None.
Number of replicates: 5.
Ref. Tox. source: Mallinckrodt.
Lot No.: 8872 KCXG

RESULTS SUMMARY

SAMPLE CONCENTRATION	PERCENT NORMAL DEVELOPMENT
Control	96.5%
10 µg/l	95.7%
18 µg/l	88.6% *
32 µg/l	12.8% *
56 µg/l	0% *
100 µg/l	0% *

* Statistically significantly less than control at P = 0.05 level

CHRONIC TOXICITY

NOEC	10 µg/l
IC25	21.0 µg/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Average control normality ≥ 80%	Yes (96.5%)
56 µg/l treatment response significantly less than control response	Yes (NOEC = 10 µg/l)
%MSD < 20% relative to control	Yes (%MSD = 7.6%)

Abalone Larval Development Test-Proportion Normal

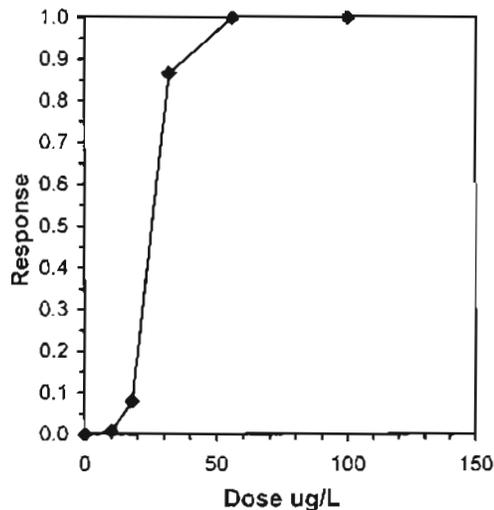
Start Date: 7/14/2010 13:30 Test ID: RT100714ab Sample ID: REF-Ref Toxicant
 End Date: 7/16/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: ZNSO-Zinc sulfate
 Sample Date: 7/14/2010 Protocol: WCCH-EPA-600-R-95-136 Test Species: HR-Haliotis rufescens
 Comments:

Conc-ug/L	1	2	3	4	5
D-Control	0.9808	0.9722	0.9903	0.9386	0.9450
10	0.9541	0.9626	0.9811	0.9524	0.9364
18	0.9020	0.9450	0.8462	0.9464	0.7925
32	0.1495	0.2150	0.0909	0.0000	0.1827
56	0.0000	0.0000	0.0000	0.0000	0.0000
100	0.0000	0.0000	0.0000	0.0000	0.0000

Conc-ug/L	Transform: Arcsin Square Root							1-Tailed			Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	0.9654	1.0000	1.3923	1.3204	1.4721	4.629	5				0.9647	1.0000
10	0.9573	0.9917	1.3662	1.3158	1.4330	3.163	5	0.383	2.230	0.1524	0.9572	0.9922
*18	0.8864	0.9182	1.2378	1.0978	1.3372	8.460	5	2.260	2.230	0.1524	0.8874	0.9199
*32	0.1276	0.1322	0.3354	0.0500	0.4821	51.401	5	15.464	2.230	0.1524	0.1288	0.1335
56	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5				0.0000	0.0000
100	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	5				0.0000	0.0000

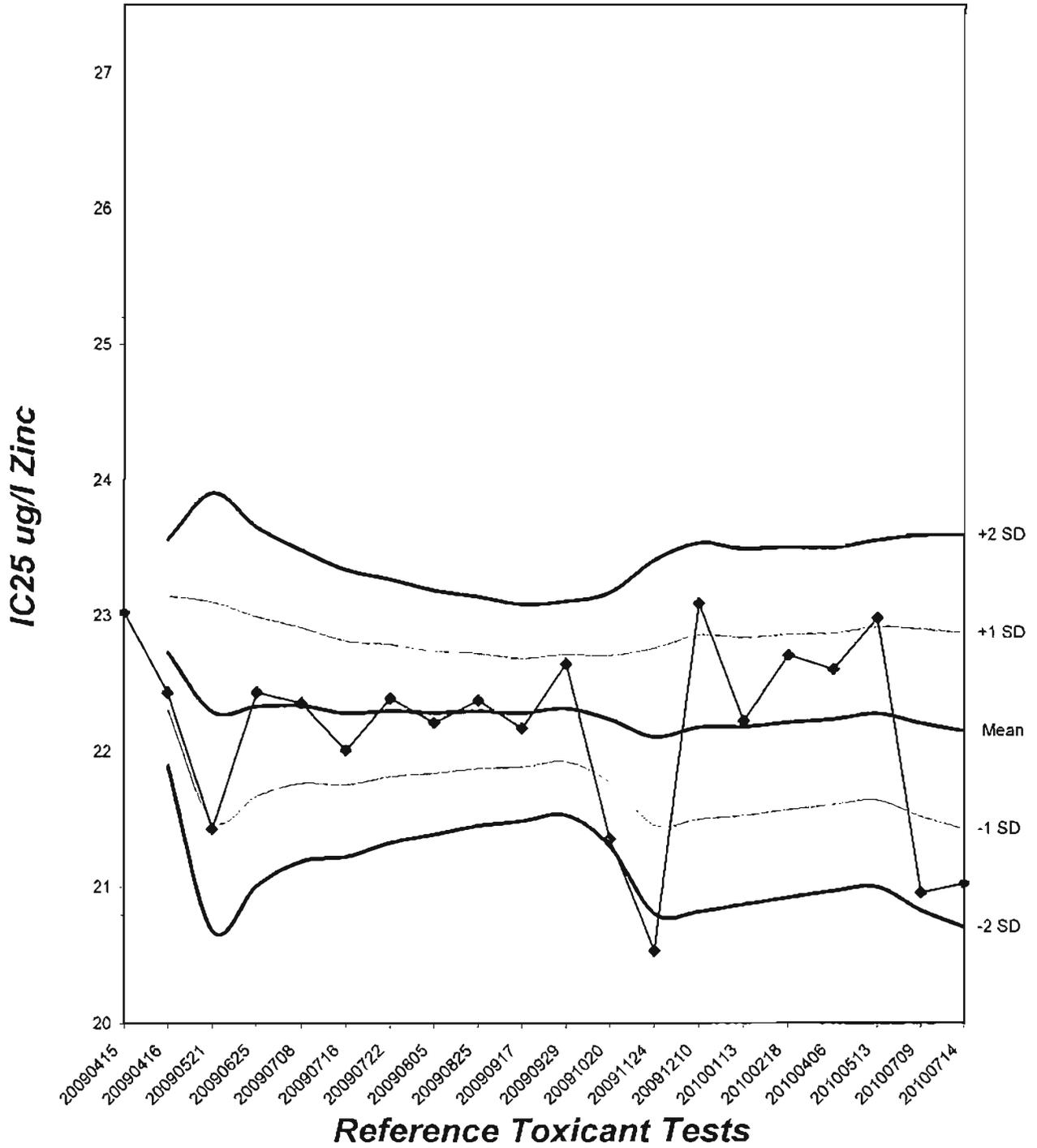
Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ($p > 0.05$)	0.92325	0.905	-1.1832	2.39171						
Bartlett's Test indicates equal variances ($p = 0.06$)	7.22926	11.3449								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	10	18	13.4164		0.07404	0.07645	1.26448	0.01168	7.7E-11	3, 16
Treatments vs D-Control										

Point	Linear Interpolation (200 Resamples)				
	ug/L	SD	95% CL(Exp)	Skew	
IC05	14.671	1.893	10.996	20.210	0.3054
IC10	18.355	0.866	14.638	19.615	-1.8239
IC15	19.245	0.465	17.848	20.428	-0.8957
IC20	20.135	0.424	18.858	21.217	-0.5125
IC25	21.025	0.407	19.786	22.069	-0.4944
IC40	23.695	0.395	22.388	24.760	-0.3194
IC50	25.476	0.423	24.137	26.625	-0.1799



Abalone Larval Development Laboratory Control Chart

CV% = 3.26



ABALONE CHRONIC BIOASSAY
Reference Toxicant - Zinc Sulfate



QA/QC No.: RT-100714

Start Date: 07/14/2010

WATER QUALITY READINGS

Sample	Initial Readings				Final Readings			
	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)
Control	15.7	7.2	8.1	34	15.5	7.6	8.1	34
10 µg/l Zn	15.8	7.2	8.1	34	15.0	7.8	8.1	34
18 µg/l Zn	15.5	7.3	8.1	34	15.4	7.7	8.1	34
32 µg/l Zn	15.4	7.2	8.1	34	15.3	7.8	8.1	34
56 µg/l Zn	14.7	7.4	8.1	34	15.1	7.8	8.1	34
100 µg/l Zn	14.8	7.3	8.1	34	15.4	7.7	8.1	34

Control and dilutions made with laboratory reference seawater filtered to 0.2 µm.

Initial readings: [Signature] Date/Time: 7-14-10 1330 Final readings: [Signature] Date/Time: 7-16-10 1400

MICROSCOPIC EXAMINATION

Beaker No.	Sample Conc.	Number Normal	Number Abnormal	Beaker No.	Sample Conc.	Number Normal	Number Abnormal	Beaker No.	Sample Conc.	Number Normal	Number Abnormal
1	32	16	91	11	10	103	4	21	18	106	6
2	C	102	2	12	56	0	100	22	56	0	100
3	56	0	100	13	10	104	2	23	10	100	5
4	10	104	5	14	32	10	100	24	10	0	100
5	18	92	10	15	10	0	100	25	C	103	6
6	10	0	100	16	C	102	1	26	32	19	85
7	C	105	3	17	56	0	100	27	100	0	100
8	18	103	6	18	18	58	16	28	10	103	7
9	32	23	84	19	32	0	100	29	56	0	100
10	10	0	100	20	C	107	7	30	18	84	22

Microscopic examination: Analyst: [Signature] Date: 7-18-10 Time: 1100

ABALONE CHRONIC BIOASSAY
Reference Toxicant - Zinc Sulfate



QA/QC No.: RT-100714

Start Date: 7-14-10

RANDOMIZATION WORKSHEET

Beaker No.	Sample Conc.	Beaker No.	Sample Conc.	Beaker No.	Sample Conc.	Notes
1	32	11	10	21	18	Number Males used: <u>4</u> Number females used: <u>6</u> Time H ₂ O ₂ added: <u>10:00</u> Time water changed: <u>12:30</u> Time spawned: <u>13:00</u> Time placed in test: <u>13:45</u> Add 1600 fertilized eggs per 200 ml.. Time glutaraldehyde added: <u>14:00</u>
2	C	12	50	22	50	
3	50	13	10	23	10	
4	10	14	32	24	100	
5	10	15	100	25	C	
6	100	16	C	26	32	
7	C	17	50	27	100	
8	18	18	18	28	10	
9	32	19	32	29	50	
10	100	20	C	30	18	
Analyst: <u>[Signature]</u> Date: <u>7-13-10</u> Time: <u>1500</u>						

