



HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
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December 7, 2011

California State Board of Equalization
450 N Street
Sacramento, California 95814

Document No. 21101001.2

Attention: David Gau

Regarding: Limited Drinking Water Quality Assessment - 20th and 22nd Floors

Dear Mr. Gau:

On January 5, 2011, Wesley B. Frey, Industrial Hygienist, with Hygiene Technologies International, Inc. (HygieneTech), visited the 20th and 22nd floors of the California State Board of Equalization (BOE) building located at 450 N Street in Sacramento, California for the purpose of conducting a limited drinking water quality assessment. Prior to that day, HygieneTech was informed by BOE representatives that a BOE employee had expressed concerns regarding the taste of water dispensed from the 20th and 22nd floor drinking fountains. On that date, HygieneTech collected several water samples from the drinking water fountains of those BOE occupied floors for analyses. The survey findings, along with the analytical data, conclusions, a discussion of the recently recorded observations, and recommendations when applicable, appear below.

Drinking water samples were collected at the 22nd floor northwestern and the 20th floor northeastern drinking water fountains. Two samples were collected at each location for general chemistry parameters (physical characteristics) and microbiological parameters (heterotrophic plate count for bacteria). The water samples were analyzed by Sierra Analytical Labs, Inc. (Sierra) and the resultant data appear in the enclosed tables. Note that all water samples were collected using a "first run" technique, meaning that the water was collected immediately after turning on the fountain faucet. This prevents flushing of the plumbing system prior to sampling and allows for a worst-case scenario.

As shown in Table 21101001-10, drinking water sample results collected from the two locations indicated levels of bacteria and chlorine residual that were either not detected above the laboratory analytical detection limit or were detectable at levels well below the applicable California established California Primary Maximum Contaminant Levels (MCLs) as defined in Title 22 of the California Code of Regulations, Division 4 Environmental Health, Chapter 15 Domestic Water Quality and Monitoring Regulations. Additionally, color, odor, and turbidity testing results were below the applicable California established Secondary Maximum Contaminant Levels (Secondary MCLs) that set non-mandatory water quality standards for specific contaminants. California does not enforce these secondary standards, and the select contaminants are not considered to present a risk to human health at or below the applicable secondary standard. They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor.

Based on the assessment information, analytical data, the California MCLs, and secondary standards, HygieneTech has concluded that the drinking water sample findings for the sampled locations do not present



a risk to human health. All findings are the results of "first run" sampling and expected to only decrease as water is allowed to flush through the plumbing system. If taste, color, and/or odors continue to be a concern, HygieneTech recommends consultation with an experienced engineer familiar with plumbing systems and/or professionals familiar with water treatment options.

Be advised that the data provided with this correspondence only represent exposure potentials to bacteria and chlorine residual under the conditions that existed at the time the survey was performed. Exposure potentials, taste, color, turbidity, and odor involving the drinking fountain water may change due to changes in operations and/or environmental conditions, use of mechanical systems, or other factors.

If you have any comments or questions regarding the information contained in this report, please do not hesitate to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read "Kenny", is written over a solid horizontal line.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 95814

**TABLE 21101001-10
POTABLE WATER SAMPLE RESULTS
SACRAMENTO, CALIFORNIA
JANUARY 5, 2011**

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SAMPLE NUMBER	21101001-10 W01			21101001-10 W03		
SAMPLING LOCATION/TYPE	22 nd Floor; northwestern drinking fountain/ First run			20 th Floor; northeastern drinking fountain/ First run		
ANALYSES	Results	California MCL	California Secondary Standard	Results	California MCL	California Secondary Standard
Conventional Chemistry Parameters						
Chlorine Residual by EPA 330.5	<0.1 mg/L	4 mg/L	NL	<0.1 mg/L	4 mg/L	NL
Color by EPA 110.2	1.00 Color Units	NL	15 Color Units	1.00 Color Units	NL	15 Color Units
Odor by EPA 140.1	1.00 T.O.N.	NL	3.0 T.O.N.	1.00 T.O.N.	NL	3.0 T.O.N.
Turbidity by EPA 180.1	0.180 NTU	NL	5.0 NTU	0.140 NTU	NL	5.0 NTU

* U.S. EPA Secondary Standard
EPA: (U.S.) Environmental Protection Agency
SM: Standard Method
NTU: Nephelometric Turbidity Unit

mg/L: Milligrams per liter
NL: Not listed
MCL: Maximum Contaminant Level

APHA: American Public Health Association
CFU/mL: Colony forming units per milliliter
T.O.N.: Threshold Odor Number

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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Sacramento, California 95814

**TABLE 21101001-10
POTABLE WATER SAMPLE RESULTS
SACRAMENTO, CALIFORNIA
JANUARY 5, 2011**

Page 2

SAMPLE NUMBER	21101001-10 W02			21101001-10 W04		
SAMPLING LOCATION/TYPE	22 nd Floor; northwestern drinking fountain/ First run			20 th Floor; northeastern drinking fountain/ First run		
ANALYSES	Results	California MCL	California Secondary Standard	Results	California MCL	California Secondary Standard
Heterotrophic Plate Count						
Microbial Parameters by APHA SM 9215B	29 CFU/mL	500 CFU/mL (for surface water)	NL	14 CFU/mL	500 CFU/mL (for surface water)	NL

* U.S. EPA Secondary Standard
EPA: (U.S.) Environmental Protection Agency
SM: Standard Method
NTU: Nephelometric Turbidity Unit

mg/L: Milligrams per liter
NL: Not listed
MCL: Maximum Contaminant Level

APHA: American Public Health Association
CFU/mL: Colony forming units per milliliter
T.O.N.: Threshold Odor Number



13 January 2011

Wes Frey
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard Suite 180
Torrance, CA 90503-1643

RE:21101001-10

Work Order No.: 1101083

Attached are the results of the analyses for samples received by the laboratory on 01/06/11 08:00.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth
Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Hygiene Technologies International, Inc.
3625 Del Amo Boulevard Suite 180
Torrance CA, 90503-1643

Project: 21101001-10
Project Number: [none]
Project Manager: Wes Frey

Reported:
01/13/11 15:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21101001-10 W01 W02	1101083-01	Water	01/05/11 08:45	01/06/11 08:00
21101001-10 W03 W04	1101083-02	Water	01/05/11 08:49	01/06/11 08:00

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

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.



Hygiene Technologies International, Inc.
 3625 Del Amo Boulevard Suite 180
 Torrance CA, 90503-1643

Project: 21101001-10
 Project Number: [none]
 Project Manager: Wes Frey

Reported:
 01/13/11 15:05

Microbiological Parameters by APHA Standard Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
21101001-10 W01 W02 (1101083-01) Water Sampled: 01/05/11 08:45 Received: 01/06/11 08:00									
Plate Count (1 ml)	29	1	CFU/mL	1	B1A0622	01/06/11	01/06/11 15:00	SM 9215B	H-01
21101001-10 W03 W04 (1101083-02) Water Sampled: 01/05/11 08:49 Received: 01/06/11 08:00									
Plate Count (1 ml)	14	1	CFU/mL	1	B1A0622	01/06/11	01/06/11 15:00	SM 9215B	H-01

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.



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Project: 21101001-10
 Project Number: [none]
 Project Manager: Wes Frey

Reported:
 01/13/11 15:05

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
21101001-10 W01 W02 (1101083-01) Water									
Sampled: 01/05/11 08:45 Received: 01/06/11 08:00									
Chlorine Residual	ND	0.100	mg/L	1	B1A0730	01/06/11	01/07/11 17:18	EPA 330.5	
Color	1.00	1.00	Color Units	"	"	"	"	EPA 110.2	
Odor	1.00	1.00	T.O.N.	"	"	"	"	EPA 140.1	
Turbidity	0.180	0.0200	NTU	"	"	"	"	EPA 180.1	
21101001-10 W03 W04 (1101083-02) Water									
Sampled: 01/05/11 08:49 Received: 01/06/11 08:00									
Chlorine Residual	ND	0.100	mg/L	1	B1A0730	01/06/11	01/07/11 17:18	EPA 330.5	
Color	1.00	1.00	Color Units	"	"	"	"	EPA 110.2	
Odor	1.00	1.00	T.O.N.	"	"	"	"	EPA 140.1	
Turbidity	0.140	0.0200	NTU	"	"	"	"	EPA 180.1	

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.



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Project: 21101001-10
Project Number: [none]
Project Manager: Wes Frey

Reported:
01/13/11 15:05

Notes and Definitions

H-01 Sample received without sufficient time to complete analysis within recommended holding time.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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SIERRA ANALYTICAL

TEL: 949•348•9389

FAX: 949•348•9115

26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

CHAIN OF CUSTODY RECORD

Date: 1/5/11

Page 1 of 1

Lab Project No.: 1101093

Client: Hygiene Technologies Intl, Inc Client Project ID: 21101001-10

Client Address: 3625 Del Amo Blvd, Suite 180 Torrance, CA 90503

Client Tel. No.: (916) 752-4478

Client Fax. No.: (310) 376-2474

Client Proj. Mgr.: Wes Frey

Turn Around: Immediate, 24 Hour, 48 Hour, 72 Hour, 4 Day, 5 Day, Normal, Mobile. Time Requested: Normal (checked)

Analysis Requested

Table with columns for analysis types: Bacteriological, Chlorine, Physical Characteristics. Rows for samples W01, W02, W03, W04.

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Field Point Names/Comments

Main sample tracking table with columns: Client Sample ID, Sierra No., Date, Time, Matrix, Preservative, Container Type, No. of Containers.

1 Sampler Signature: Wes Frey Shipped Via: Fed Ex

Total Number of Containers Submitted to Laboratory: 4

Sample Disposal: Return to Client, Lab Disposal*, Archive 3 mos.

2 Relinquished By: HTI Date: 1-5-11 Received By: Sierra Date: 1-6-11 Time: 9:30

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions...

3 Relinquished By: Date: Received By: Date: Company: Time: Company: Time:

Total Number of Containers Received by Laboratory: 4

4 Relinquished By: Date: Received By: Date: Company: Time: Company: Time:

FOR LABORATORY USE ONLY - Sample Receipt Conditions: Intact, Sample Seals, Properly Labelled, Appropriate Sample Container, Chilled - Temp. (°C) 4-0, Preservatives - Verified By, Other, Storage Location: Micro-Waterman