

July 2, 2018

UHA Project No. 101

Subject: Sampling Summary Letter Report for Water Quality Sampling and Testing North Beach San Clemente Storm Water Drain Northwesterly To Doheny State Beach Dana Point And Including Dana Point Harbor Orange County, California

Dear Sir/Madame:

Urban Health Alliance, Race4theEnvironment (UHA) has prepared this letter report to summarize water sampling and testing activities performed on June 19, 2018 at the subject site located in Orange County California along approximately four (4) miles of coastline beginning to the south at North Beach San Clemente Storm Water Drain then continuing northwesterly to Doheny State Beach in Dana Point and also including Dana Point Harbor (site; Figure 1 Site Vicinity Map). All water samples were collected by or under the direct supervision of a State of California Professional Geologist.

The scope of work involved collecting water samples at six locations, testing the samples for specific parameters, and summarizing the results for the investigation in this document. The locations are shown below:

Sample Point	Sample ID	Coordinates
Doheny State Beach - Harbor Jetty	SP1-DSB	33.461287; -117.689370
Dana Point Fuel Dock	SP2-FS	33.459264; -117.689949
Dana Cove Park - Baby Beach	SP3-BB	33.462192; -117.704136
Beach Road – North Drains	SP4-BR	33.455511; -117.669373
Ponche County Beach – Arco	SP5-AR	33.440748; -117.645552
North Beach San Clemente - Storm Drain	SP6-NB	33.431481; -117.632895

The purpose of the sampling and analysis was to verify the possible presence of three indicator pathogens (Total Coliform, Fecal Coliform, and Enterococcus) in beach water and inorganic beach water quality parameters at the time of sampling, in order to make the public aware of the findings.

SAMPLING AND LABORATORY ANALYSIS

Samples were collected within a one-hour window directly in laboratory supplied sterile containers. Samples of water were collected from water in the immediate shoreline not extending 50-feet out to sea and no deeper than three (3) feet. Nitrile gloves were worn



and care was taken to not over fill the containers and wash out sample preservation in the container. Upon collection samples were immediately labeled, logged on a Chain-of-Custody Form, and placed in an ice filled cooler for transport to the laboratory. Samples were delivered to the laboratory within six (6) hours of collection in order to meet all requested analysis holding times. In addition to collecting water for laboratory analysis, beach water was collected for inorganic parameters using a Horiba U-52 Multiparameter Water Quality Meter. Parameters are presented as Table 2 - Horiba U-52 Beach Water Quality Parameters.

On Tuesday June 19, 2018 during the time of sample collection a low tide of -0.2 feet was predicted at 9:01am followed by a 4.53 feet high tide at 3:55pm at Doheny State Beach. The seabreeze was starting to pick up at approximately 7 to 10 miles per hour (mph) from a southwesterly direction. A groundswell originating in the southern hemisphere producing breaking waves up to 5 feet was present along with minimal windswell from the north Pacific Ocean. No noticeable surface skims, sheen, or product was noticed on the ocean surface at the sample locations. The sample locations are shown on Figure 2 – Site with Sample Locations.

All of the beach water samples were submitted to Asset Laboratories, a State of California Department of Health Services certified hazardous waste testing laboratory (Environmental Laboratory Accreditation Program [ELAP]), under chain-of-custody documentation on the same day collected.

Beach Water samples were analyzed for the following pathogens:

- Total Coliform;
- Fecal Coliform, and
- Enterococcus.

Inorganic Water Quality Parameters are shown on Table 1 – Inorganic Water Quality Parameters. A copy of the laboratory report (N030851) is provided as Attachment A and laboratory results are summarized in Table 2 – Total Coliform, Fecal Coliform, E Coli, and Enterococcus.

RESULTS

Total Coliform results were all over 1,000 most probable number per 100 milliliters of sample (MPN/100 ml) except for the Doheny State Beach sample which was 149 MPN/100ml. Fecal Coliform was reported at 4 of the sample locations below 10 colony forming units per 100 milliliters of sample (CFU/100 ml). The two sample locations which did not contain any reportable Fecal Coliform were the Beach Road North Drains and Ponche County Beach across from the Arco Station. E. coli concentrations were below 100 MPN/100 ml at Doheny State Beach and Ponche County Beach; over 1,000 at Beach



Road North Drains, and between 500 and 1,000 at the other 3 locations. The only location with reportable concentrations of Enterococcus was San Clemente North Beach Storm drain with 10 MPN/100 ml. All of the other sample locations contained less than 10 MPN/100 ml.

CONCLUSIONS AND RECOMMENDATIONS

Based on the above results of beach water sampling on June 19, 2018 all Total Coliform results were 1,000 MPN/100 ml with the greatest concentrations at the Dana Cover Park Baby Beach sampling location, which contained 15,531 MPN/100 ml Total Coliform. In addition the Baby Beach sample contained 4 CFU/100 ml of Fecal Coliform. All reported E. coli concentrations were less than 1,000 MPN/100 ml except for the Beach Road North Drains sample location. The Beach Road North Drains sample contained 4,839 MPN/100 ml Total Coliform. The only Enterococcus reported was the San Clemente North Beach Storm Drain sample. Enterococcus was report at the laboratory reporting limit of 10 MPN/100 ml.

Additional monthly sampling and analysis is recommended in order establish a usable data set in order to accurately characterize the beach water sampled.

If you have any questions or if we can be of further assistance, please call (949) 542-4330.

Sincerely,

URBAN HEALTH ALLIANCE, Race4theEnvironment

David Aronne General Manager

Attachment(s):

NO. 726

S. Wilson Cablk, PG Professional Geologist No. 7266

Figure 1 – Site Vicinity Map Figure 2 – Site with Sample Locations Table 1 – Inorganic Water Quality Parameters Table 2 – Total Coliform, Fecal Coliform, E Coli, and Enterococcus Attachment A – Laboratory Report N030851



Tables

Table 1 - Horiba U-52 Beach Water Quality Parameters

North Beach San Clemente Storm Water Drain Northwesterly To Doheny State Beach Dana Point And Including Dana Point Harbor

Orange County, California

Sample ID	Collection Date & Time	Temp. (°C)	рН	Cond. (mS/cm)	ORP (mV)	Turb. (NTU)	DO (mg/L)	TDS (g/L)
SP1-DSB	06/19/18 10:30AM	24.35	7.50	46.4	171	4.9	11.29	28.1
SP2-FS	06/19/18 10:55AM	23.83	7.97	48.9	170	3.2	8.04	29.4
SP3-BB	06/19/18 10:45AM	26.01	8.13	45.1	178	8.9	7.36	27.9
SP4-BR	06/19/18 11:00AM	23.10	8.16	30.2	196	94.2	8.61	17.0
SP5-AR	06/19/18 11:10AM	23.16	8.12	23.5	209	62.7	8.71	13.3
SP6-NB	06/19/18 11:25AM	23.19	8.01	23.1	202	51.9	8.44	14.7

Notes:

 $\begin{array}{l} \text{Temp.} \\ (g/L) \end{array} \quad \text{indicates Temperature reported in grams per Liter.} \end{array}$

Cond. (mS/cm) indicates Conductivity reported in milliSiemens per centimeter.

ORP

(mV) indicates Oxidation Reduction Potential reported in millivolts.

Turb. (NTU) indicates Turbidity reported in Nephelometric Turbidity Units.

DO indicates Dissolved Oxygen reported in milligrams per Liter.

TDS (g/L) indicates Total Dissolved Solids reported in grams per Liter.

Enterococcus Table 2 - Beach Water Sampling Results - Total Coliform, Fecal Coliform, E. coli, and

Point And Including Dana Point Harbor North Beach San Clemente Storm Water Drain Northwesterly To Doheny State Beach Dana

Orange County, California

	Collection		recai		
Sample ID	Date & Time	Total Coliform ¹	Coliform ²	E. coli¹	Enterococcus ¹
		(MPN/100 ml)	(CFU/100 ml)	(MPN/100 ml)	(MPN/100 ml)
SP1-DSB	06/19/18 10:30AM	149	2	20	<10
SP2-FS	06/19/18 10:55AM	1,354	œ	651	<10
SP3-BB	06/19/18 10:45AM	15,531	4	591	<10
SP4-BR	06/19/18 11:00AM	4,839	< <u>2</u>	1,842	<10
SP5-AR	06/19/18 11:10AM	1,483	<2	66	<10
SP6-NB	06/19/18 11:25AM	2,599	4	775	10

Notes:

 $\frac{1}{1}$ indicates sample analysis and method used is MTTb Sweage Contamonation in Buildings (modified);

Most Probable Number Methods: SM 9223/IDEXX Quanti-Tray 2000[™].

2 indicates sample analysis method used is Fecal Coliform (Membrane Filtration Technique); SM-9222 D for Water Samples.

MPN/100 ml indicates Most Probable Number per milliter of sample. CFU/100 ml indicates Colony Forming Units per 100 millitliters of sample.



Figures



Attachment A – Laboratory Report N030851

June 27, 2018

David Aronne Summit Environmental Contractors 33161 Camino Capistrano Suite E San Juan Capistrano, CA 92675

TEL: (949) 542-4330 FAX: (949) 542-4331

Workorder No.: N030851

RE: Beach Sampling

Attention: David Aronne

Enclosed are the results for sample(s) received on June 19, 2018 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 or Molky Brar at (562)-881-3622 if we can be of further assistance to your company.

Sincerely,

A 1 Bm

Molky Brar Project Manager

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Quennie Manimtim Laboratory Director

 CALIFORNIA
 P:562.219.7435
 F:562.219.7436

 11110
 Artesia
 Blvd., Ste B, Cerritos, CA 90703

 ELAP
 Cert 2921

 EPA ID
 CA01638

NEVADA | P:702.307.2659 F:702.307.2691 3151 W. Post Rd., Las Vegas, NV 89118 ELAP Cert 2676 | NV Cert NV00922 ORELAP/NELAP Cert 4046

ASSET Laboratories

CLIENT:Summit Environmental ContractorsProject:Beach SamplingLab Order:N030851Contract No:Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N030851-001A	SP1-DSB	Water	6/19/2018 10:30:00 AM	6/19/2018	6/27/2018
N030851-002A	SP2-FS	Water	6/19/2018 10:55:00 AM	6/19/2018	6/27/2018
N030851-003A	SP3-BB	Water	6/19/2018 10:45:00 AM	6/19/2018	6/27/2018
N030851-004A	SP4-BR	Water	6/19/2018 11:00:00 AM	6/19/2018	6/27/2018
N030851-005A	SP5-AR	Water	6/19/2018 11:10:00 AM	6/19/2018	6/27/2018
N030851-006A	SP6-NB	Water	6/19/2018 11:25:00 AM	6/19/2018	6/27/2018

ASSET Laboratories

CLIENT:Summit Environmental ContractorsProject:Beach SamplingLab Order:N030851

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Subcontracted Analysis:

Total Coliform, Fecal Coliform and Enterococcus was subcontracted to LA Testing, Pasadena, CA.

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ASSET LAI	BORATORIE:	Gies	CHAI	N OF	CUSTO	DDY R	ы	R		California	P: 702.307.265 : 11110 Artesia P: 562.219.74	9 F: 702 Blvd., Ste 35 F: 562	.3072691 B, Cerritos, CA 90 .219.7436	erII
					Page 1	of 1					www.asse	etlabora	tories.com	· ·
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Address: 11110 Artesia Blvd Ste	В	Company: ASSET Laboratories			Address:	.1110 Arte	isia Blv	d Ste	~	Excel EDD Ceotracker	RTNE RWQCB		1. Chilled	×□
Address: Cerritos, CA 90703		Email: <u>molky@assetlab</u> hanah@assetlab	oratories.			Cerri	tos, CA	9070		Labspec Others	CalTrans Level III		2. Headspace 3. Container Intact	940
Phone: 562.219.7435 Fax: 562	2.219.7436	Address: 11110 Artesia Blvd St	еВ		Email to: elvira@ass	etlaboratori	es.com	#Od	N30581A	Specify:	LEVEL IV Regulatory		4. Seal Present 5. IR number	
Submitted By: Molky Brar		Cerritos, CA 90703			Phone: 562.	219.7435		Fax:	562.219.7436	Global ID:	Specify Stat	.e.	6. Method of Cooling	
Title: Business Development Mai	nager	Phone: 562.219.7435 Fax:	562.219.7	436	2	latrix	┝		Analyses Req	uested			Sample Temp:	
Signature:	Date:	Sampled by:			Ground 3	ediment	\vdash				r			
I haveby authorize ASSET Labs to perform the tests	indicated below:	I attest to the validity and authenticity of this samp with or intentionally mislabeling the sample locatic considered fraud and may be crounds for legal at	ile. I am aware the m, date or time of thon.	t tampering collection is	Potable	Soil	u	u				Cour	er	
Project Name: Beach Sampling		Signature			NPDES	Other Solid	iforn	iforn			oe Jet Time	Track	ing No.	
Project Number:					Surface		II Col				bround contair iner Tyr	4VA38		
D Item Laboratory Work Order No.	Sampl	e ID/Location	Date	Time	Water	Solid 0	Tota Tota	Fecs	-		A mu T No. of Contai	БЕКЕ	Remarks	
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4		SP4-BR	6/19/18	11:00	×		×	×			E 2 P	Т		
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#321813940

McKissack, Annette

From:	McKissack, Annette on behalf of LA Testing Lab - Pasadena
Sent:	Tuesday, June 19, 2018 3:55 PM
To:	Flores, David; molky@assetlaboratories.com
Cc:	LA Testing Lab - Pasadena; Najera, Isamar; Looney, Tad
Subject:	RE: Analysis confirmation
Categories:	Orange Category

Hello Molky,

The code for your Total Coliform and Enterococcus is (M116) and your fecal coliform is (M019) and these codes will give you actual calculations for the samples. As per our conversation we have a 12 bottle for six samples. (6 of the sample bottles are not LA Testing bottles and will have a footnote on the report). The samples are also beach water (marine water) samples.

Thank you,

Annette McKissack | Administration

LA Testing | 520 Mission Street | South Pasadena, CA 91030 Phone: 323-254-9960 | Fax: 323-254-9982 | Toll Free: 800-303-0047 Lab Hours: Monday - Friday 8AM - 6PM, Saturday 9AM - 5PM, Sunday On-Call

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From: Flores, David Sent: Tuesday, June 19, 2018 3:20 PM To: molky@assetlaboratories.com Cc: LA Testing Lab - Pasadena Subject: Analysis confirmation

Per our conversation for project "Beach Sampling" the analysis you would like for all samples is M240 and M019 (for Fecal Coliform), if you have any other questions please feel free to contact us.

David Flores | Administrative Assistant LA Testing | 520 Mission Street | South Pasadena, CA 91030 Phone: 323-254-9960 | Fax: | Toll Free: 800-303-0047 Lab Hours: Monday - Friday 8AM - 6PM, Saturday 9AM - 5PM, Sunday On-Call

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1

Project: Beach Sampling

Test Report: Fecal Coliform (Membrane Filtration Technique)

Method: SM-9222 D for Water Samples

Sample	Sampling Location	Amount Received	Amount Sampled	Fecal Coliform				
	Date/Time Collected	IIIL	IIIL	CF0/100mi				
321813940-0001		240	50	2				
SP1-DSB	6/19/2018 10:30 AM							
321813940-0002		240	50	8				
SP2-FS	6/19/2018 10:55 AM							
	Sample containers were not pro	Sample containers were not provided by LA Testing and cannot be guaranteed sterile.						
321813940-0003		240	50	4				
SP3-BB	6/19/2018 10:45 AM							
	Sample containers were not pro	ovided by LA Testing and canno	ot be guaranteed sterile.					
321813940-0004		240	50	<2				
SP4-BR	6/19/2018 11:00 AM							
321813940-0005		240	50	<2				
SP5-AR	6/19/2018 11:10 AM							
321813940-0006		240	50	4				
SP6-NB	6/19/2018 11:25 AM							
Sample containers were not provided by LA Testing and cannot be guaranteed sterile.								

Analyst(s)

Norman Regina (6)

Regina Noma

Regina Norman, Laboratory Manager or other approved signatory

The level of detection is equal to 1 CFU/100 ml of sample analyzed. CFU = colony forming unit; NA = not applicable; TNTC = too numerous to count Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

Initial report from 06/22/2018 08:28:34

LA TESTING INC.

520 Mission Street South Pasadena, CA 91030 Phone: (800) 303-0047, Fax: (323) 254-9982

> **Client:** Assett Laboratories 11060 Artesia Blvd., Suite B Cerritos, CA 90703 Attn. Molky Brar Project: Beach Sampling

LA Testing Order ID#: 321813940 Date/Time Received: 6/19/2018 2:25PM Date Analyzed: 06/21/18 Date Reported: 06/21/18

M116 Sewage Contamination in Buildings (modified)

Mo	ost Probable Nun	nber Methods: S	M 9223/IDEXX (Quanti-Tray 200	$0^{1\mathbf{W}}$
Sample	Location	Sampling Date & Time	Total Coliform MPN/100 ml	E. coli MPN/100 ml	Enterococcus MPN/100 ml
321813940-0001 321813940-0002 321813940-0003 321813940-0005 321813940-0006	SP1-DSB SP2-FS SP3-BB SP4-BR SP5-AR SP6-NB	06/19/18 10:30AM 06/19/18 10:55AM 06/19/18 10:45AM 06/19/18 11:00AM 06/19/18 11:10AM 06/19/18 11:25AM	149 1,354 15,531 4,839 1,483 2,599	20 651 591 1,842 66 775	<10 <10 <10 <10 10

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Level of Detection (LOD)=1 MPN / 100 ml Comment: #2,3,6 not in La Testing Bottles

ejus No

Approved LA TESTING Signatory **Regina Norman, Microbiology Laboratory Manager**