

Jemellee Cruz Flood Maintenance Division County of Los Angeles Department of Public Works 900 South Fremont Avenue Alhambra, CA 91803

SUBJECT: WATER QUALITY MONITORING AND ANALYSIS RESULTS FOR THE SAN GABRIEL FEASIBILITY STUDY WORK PLAN, LOS ANGELES COUNTY, CALIFORNIA.

Dear Ms. Cruz,

Chambers Group, Inc. (Chambers Group) was retained by the County of Los Angeles Flood Maintenance Division (LACFCD) to provide water quality monitoring and analysis for several soft-bottom channel reaches in the San Gabriel Watershed in Los Angeles County, California. These areas are covered by the Regional Water Quality Control Board (RWQCB) Waste Discharge Requirements (WDR) Order number R4-2010-0021. Water quality sampling and analysis was required in accordance with Section 4.3 Water Quality Monitoring and Best Management Plan (BMP) for project sites with inflow or outflow.

Water Quality Sampling

All water quality sampling analyzed of the following:

- pH
- temperature
- dissolved oxygen (DO)
- turbidity
- total suspended solids (TSS)

Sampling occurred at three locations: 1) upstream of the maintenance area; 2) within the maintenance area; and 3) downstream of the maintenance area. Analysis was performed using approved US Environmental Protection Agency methods, where applicable. The pH, temperature, Dissolved Oxygen (DO), and turbidity was analyzed with a YSI multi-probe water quality meter. Total suspended solids (TSS) was sampled and brought to a lab for analysis. Existing site conditions, GPS coordinates, and photos was recorded for each sample area.

Data was recorded on aerial maps, field notes, and daily coordination occurred with Jemellee Cruz and LACFCD staff. Water quality data was recorded in a revised Field Data sheet (provided by LACFCD) and a chain of custody form that will be used to submit the water samples (TSS) to the laboratory. Efforts were made to prevent direct and indirect impacts to water quality downstream during maintenance activities.

Results

The San Jose Creek (Site 42) and Inlet Walnut Creek (Site 98) had inflow/outflow and required water quality monitoring. Chambers Group biologist, Corey Vane, monitored water quality for the San Jose Creek and Inlet Walnut Creek sites from September 12 to September 18, 2013 (see Attachment 1). Photos of water sampling stations were taken to document site conditions (see Attachment 2).

Reach 42 - San Jose Creek

Baseline monitoring was conducted within 7 days prior to work within the channel. The baseline data for the pre-maintenance work is provided in Attachment 1. Three areas were sampled: upstream of the work, within the center area of the work, and downstream of the work (see Attachment 3). Turbidity ranged from 9.94 NTUs in the center of the site to 17.1 at the downstream sampling location. Total suspended solids ranged from 19 mg/L at both the upsteam and center locations, to 9 mg/L at the downstream location. During work, turbidity was lower overall, ranging from 9.3 NTUs at the center to 11.1 and 11.4 NTUs at the downstream and upstream locations, respectively. Total suspended solids increased slightly, ranging from 10 mg/L at the downstream location to 20 mg/L at the upstream location. No exceedences occurred during the maintenance operations (see Attachment 5). The turbidity for the post work sampling ranged from 7.78 from the center location to 9.49 at the downstream location. TSS ranged from 18 at the downstream location to 25 at the upstream station. The creek was returned to its pre-maintenance state, and the BMPs were removed. All water quality readings were consistent with the baseline sample.

Reach 98 – Walnut Creek

Baseline monitoring was conducted within 7 days prior to work within the channel. The baseline data for the pre-maintenance work is provided in Attachment 1. Turbidity ranged from 5.08 NTUs at the downstream location of the site to 16.3 NTUs at the upstream location. Total suspended solids ranged from a Non-Detect (ND) at the upstream location to 27 mg/L at the center location. During work, turbidity was lower overall, ranging from 4.8 NTUs at the downstream to 13.6 NTUs at the center location. Total suspended solids also decreased during work, ranging from a ND at the downstream location to 12 mg/L at the center location. No exceedences occurred during the maintenance operations. The turbidity for the post work sampling ranged from 1.95 NTUs from the upstream location to 2.1 NTUs at the downstream location. TSS ranged from ND at the downstream and upstream locations to 6 mg/L at the center location. The creek was returned to its pre-maintenance state, and the BMPs were removed. All water quality readings were consistent with the baseline sample.

The San Gabriel River – Upper (Site 43) and San Gabriel River – Rubber Dams (Site 44) sites did not have inflow/outflow prior to or during maintenance activities, and therefore did not require water quality monitoring. Chambers Group biologists visited the sites on August 28, 2013 to confirm. At the time of the survey, there was no flow currently entering the main channel, with the exception of nuisance water entering by way of the flood control gates at the north end of the site #43, and from CMPs including San Gabriel River Parkway. Several of these inlets provide direct water connectivity to the site, but no flowing water currently exists. The water was stagnant and ponded in a few areas. Based on the communication from the crew and the direction from LACFCD, the water was avoided for the majority of the work. No mechanical equipment was used for sediment/exotic plant removal in areas with surface water. On few occasions, exotic plant removal was required in areas with surface water, and exotics were removed by hand tools by crews on foot. With no flow out of the site, any sediment disturbed by the activities was



contained within the ponds and allowed to settle, without downstream movement (the ponds itself act as its own siltation basin). In the event a heavy rainfall occurred, the existing rubber dams in site #44 would prevent any downstream flow from leaving the site. However, rain events did not occur so no additional BMPs were required, and the ponded water was entirely contained. Additionally, no releases were scheduled during the activities; therefore, no flow occurred that would provide potential downstream movement.

Please feel free to contact me if you have any questions regarding the reseeding effort. I can be reached at (949) 261-5414 extension 7288 or pmorrissey@chambersgroupinc.com.

Sincerely,

CHAMBERS GROUP, INC.

Paul Morrissey Director of Biology

Attachments

Attachment 1: Table 1 – Water Quality Monitoring Data

Attachment 2: Site Photographs

Attachment 3: Water Quality Sampling Station Locations Attachment 4: SGR Feasibility Study WQ Field Sheets

Attachment 5: TSS Lab Reports Combined





Table 1
Water Quality Monitoring Data

Site	Sampling Location	GPS (Latitude, Longitude)	Survey	Date (MM/DD/YR)	Time	Temp (Fahrenheit)	DO (mg/l)	Ph	Turbidity (NTU)	Turbidity Limit (NTU)	TSS (mg/l)
		34.03237,	Pre								
Site 42 (San Jose Creek)	Downstream	-11800930	Maintenance	09/12/13	820	63.5	4.82	8.62	17.1	20.52	9
Site 42 (San Jose Creek)	Midpoint	34.03259, -118.00758	Pre Maintenance	09/12/13	858	67.8	12.28	9.09	9.94	11.93	19
Site 42 (San Jose Creek)	Upstream	34.03282, -118.00579	Pre Maintenance	09/12/13	920	72.5	12.58	8.82	11.2	13.44	19
Site 98 (Walnut Creek)	Upstream	34.07967 <i>,</i> -117.86053	Pre Maintenance	09/12/13	1046	65.5	5.32	8.51	16.3	19.56	16
Site 98 (Walnut Creek)	Midpoint	34.0776, -117.86065	Pre Maintenance	09/12/13	1108	71.1	20.7	9.37	10.1	12.12	27
Site 98 (Walnut Creek)	Downstream	34.07973, -117.86073	Pre Maintenance	09/12/13	1122	69.3	15.4	8.91	5.08	6.10	ND
Site 98 (Walnut Creek)	Midpoint	34.0776, -117.86065	Pre Maintenance	09/12/13	1108	71.1	20.7	9.37	10.1	12.12	27
Site 98 (Walnut Creek)	Downstream	34.07973, -117.86073	Pre Maintenance	09/12/13	1122	69.3	15.4	8.91	5.08	6.10	ND
Site 98 (Walnut Creek)	Upstream	34.07967, -117.86053	During Maintenance	09/16/13	952	66.7	5.42	8.37	6.16	19.56	5
Site 98 (Walnut Creek)	Midpoint	34.0776, -117.86065	During Maintenance	09/16/13	1015	69.1	8.13	8.49	13.6	12.12	12
Site 98 (Walnut Creek)	Downstream	34.07973 <i>,</i> -117.86073	During Maintenance	09/16/13	1242	75.6	13.42	8.91	4.88	6.096	ND
		34.03237,	During								
Site 42 (San Jose Creek)	Downstream	-11800930	Maintenance	09/17/13	1256	85.5	8.13	8.24	11.1	20.52	10
Site 42 (San Jose Creek)	Midpoint	34.03259, -118.00758	During Maintenance	09/17/13	1231	87.8	13.46	9.53	9.34	11.93	16
Site 42 (San Jose Creek)	Upstream	34.03282, -118.00579	During Maintenance	09/17/13	1147	90.1	13.2	9.39	11.5	13.44	20

Site	Sampling Location	GPS (Latitude, Longitude)	Survey	Date (MM/DD/YR)	Time	Temp (Fahrenheit)	DO (mg/l)	Ph	Turbidity (NTU)	Turbidity Limit (NTU)	TSS (mg/l)
		34.03237,	Post								
Site 42 (San Jose Creek)	Downstream	-11800930	Maintenance	09/18/13	1515	88.5	6.9	8.03	9.49	20.52	18
		34.03259,	Post								
Site 42 (San Jose Creek)	Midpoint	-118.00758	Maintenance	09/18/13	1504	90.1	10.6	9.35	7.78	11.93	19
		34.03282,	Post								
Site 42 (San Jose Creek)	Upstream	-118.00579	Maintenance	09/18/13	1441	93.6	11.5	9.52	8.97	13.44	25
					•				•		•
		34.07967,	Post								
Site 98 (Walnut Creek)	Upstream	-117.86053	Maintenance	09/18/13	1616	69.8	8.7	8.1	1.95	19.56	ND
		34.0776,	Post								
Site 98 (Walnut Creek)	Midpoint	-117.86065	Maintenance	09/18/13	1635	72.9	16.1	8.43	1.86	12.12	6

ND=Non Detect

Turbidity limits were calculated by 20% over the baseline or pre maintenance survey value

* Denotes an exceedance





Attachment 2 Site Photographs



Photo 1:

Photo was taken facing southeast looking at the downstream water quality sampling station at Site 98 Walnut Creek.
GPS 34.07973,-117.86073.



Photo 2:

Photo was taken facing north looking at the midpoint water quality sampling station at Site 98 Walnut Creek.
GPS 34.0776,-117.86065.



Photo 3:

Photo was taken facing north looking at the upstream water quality sampling station at Site 98 Walnut Creek.

GPS 34.07967, -117.86053.



Photo 4:

Photo was taken facing south looking at the upstream sampling station at Site 42 San Jose Creek. GPS 34.03282,-118.00579.



Photo 5:

Photo was taken facing south looking at the midpoint sampling station at Site 42 San Jose Creek. GPS 34.03259, -118.00758.



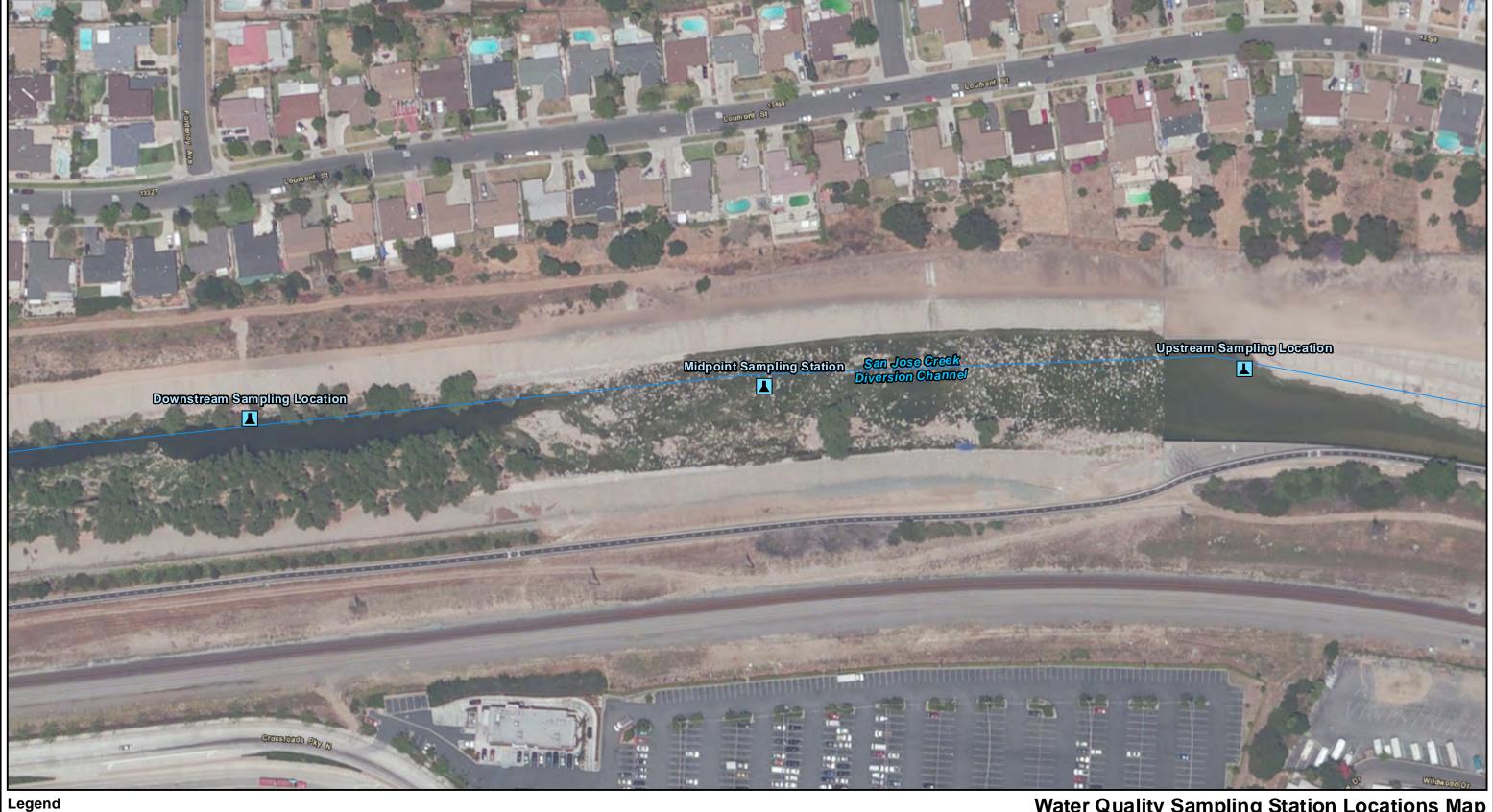
Photo 6:

Photo was taken facing south looking at the downstream sampling station at Site 42 San Jose Creek.

GPS 34.03237,-11800930.







■ Water Quality Sampling Station

Water Quality Sampling Station Locations Map
San Gabriel River Water Quality Feasibility Study
San Jose Creek Page 2 of 2

Name: Corey Vane
Date: 9/12/13
Survey: prc maintenance

	SITE 98 WALLAND FLOOR STATES	SITE 98 WAS not creek midfoint 34.0760 \$ 80065 9/12	SITE 98 WAIN CREEK UIS 340791) U)s	SIZE 42 (SJC) MIDPOINT 34,0329,-18,00758 9/12	Site 42 (SSC) 7/5 34.033	Location	Site Sampling
	3407973 1786073 9/17 1122	80 × 86065 91	3407967-118186053 9/12	39.03182-118,00579 9/12	19,-18:00758 9,	34.03237-118.00930 9/12		GPS [
	17 11				12 08	112 08		Date -
	22	1108	1046	0920	8 5 80	0820		Time
1	65.3	7-	65.5	72.5	67.8	5,49	₹	Temp
	15.4	20,7	5,32	12.58	12.28	4,82	(Mg/L)	DO
	8.91	٩.37	8.51	8,82	9.09	8,62		뫄
	5.0%	10,1	14.3	11, 2	ه 4.	17.1	(NTU)	Turbidity
	7	5	7	5	7	7		SST

Name: Corey Vane
Date: 9/16/13
Survey: During Maintenance

Γ	г	r—	ı	_	1	L -		1	1	—¬
						SHE 98 WYING Creek DIS	SITE 98 WEING CLECK MIDPOINT	SITE 98 WAINUT CREEK USS SEC PTC SURVEY 9116 0952		Site
						D/S	MidPoint	V)\$	Location	Sampling
						4		SCC PIC SURVEY		GPS
						9/16 1242	9/16	9116		Date
						1242	١٥١٢	2560		Time
						75.6		66.7	(Fahrenheit)	Temp
						13,42	8:13	5.42	(Mg/L)	DO
						ا ا ا	8.49	8.77		Ph
						4.88	126	6.16	(UTU)	~
						7	7	1		SST

Name: Corey Vane
Date: 9117/13
Survey: During Maintenance

		•	SHE 42 (SSC)		SHE 42 (SSC)		Site
			<i>7</i> 1S	MidPoint	2/0	Location	Sampling
			+		See pre survey		GPS
			4112	917	7/16		Date
			1147	1231	1256		Time
				87.8	5.28	<i>∓</i> ;	Temp
			13,2	13,46	ر در در) (Mg/L)	D0
			9,39	4,53	8.24		뫄
			5 '11	9.34	11.1	(NTU)	Turbidity
			7	7	7		TSS

Name: Corey Vane Date: 9118/13 Survey: Post maintenance

Site	Sampling	GPS	Date	Time	Temp	DO	못	Turbidity	TSS
	Location				(Fahrenheit)	(Mg/L)		(UTU)	
SIX42 (SSC)	5/0	See Pre Survey	9118	1515	88.5	6.9	20.8	વ , ધ બ	7
SIX 412 (SJC)	7		9)18	1504)	90.1	10.6	9.35	7.78	7
SIte 42 (SJC)	V) \$		9118	1441	93,6	5,(1	9.52	8.97	\langle
SILE 98 (WAINUT CREEK)) <i>v/</i> s		9118	1616	69.8	8,7	8.1	1.95	\
SHE 98 CHAINGT Creek)	MidPoint		8/18	1635	72.9	16.1	8.43	1,86	1
Ste 98 (Waint creek) DIS	5/0	<	9/18	1655	73.4	19, 7	8.46	۲,۱	7
								:	



Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Client: Address: Chambers Group

5 Hutton Centre Drive Suite 750

Santa Ana, CA 92707

Attn:

Corey Vane

Comments: SGR WQ Feasibility Study

#20654

Lab Request: 328960 Report Date: 09/19/2013 Date Received: 09/12/2013

Client ID:

14294

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
328960-001	Site 42 (SJC) D/S
328960-002	Site 42 (SJC) Midpoint
328960-003	Site 42 (SJC) V/S
328960-004	Site 98 (WC) V/S
328960-005	Site 98 (WC) Midpoint
328960-006	Site 98 (WC) D/S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

levelle for

Nina Prasad President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Matrix: Water Sampled: 09/12/2013 08:20 Sample #: 328960-001	Client: Site: Client Sample #:	Chambers Group Site 42 (SJC) D/S		s	Collector			
Analyte		Result	DF	RDL	Units	Analyzed		Notes
Method: SM 2540-D	Prep Method: SM					004040	QCBatchID:	QC1139914
Total Suspended Solids		9	<u> </u>	5	mg/L	09/13/13	ame	
Matrix: Water Sampled: 09/12/2013 08:58 Sample #: 328960-002	Client: Site: Client Sample #:	Chambers Group Site 42 (SJC) Mid		S	Collector			
Analyte		Result	DF	RDL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139914
Total Suspended Solids		19	<u> </u>	5	mg/L	09/13/13	ame	
Matrix: Water Sampled: 09/12/2013 09:20 Sample #: 328960-003	Client: Site: Client Sample #:	Chambers Group Site 42 (SJC) V/S		S	Collector			
Analyte		Result	DF	RDL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139914
Total Suspended Solids		19	1	5	mg/L	09/13/13	ame	
Matrix: Water	Client:	Chambers Group			Collector	: client	7.55	
Sampled: 09/12/2013 10:46 Sample #: 328960-004	Site: Client Sample #:			s	ample Type			
Sampled: 09/12/2013 10:46 Sample #: <u>328960-004</u>	Site:		DF	s RDL			By	Notes
Sampled: 09/12/2013 10:46	Site:	Site 98 (WC) V/S		RDL	ample Type Units	Analyzed	QCBatchID:	
Sampled: 09/12/2013 10:46 Sample #: <u>328960-004</u> Analyte	Site: Client Sample #:	Site 98 (WC) V/S	DF		ample Type	:		
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D	Site: Client Sample #: Prep Method: SM	Site 98 (WC) V/S Result 2540-D 16 Chambers Group	1	RDL 5	ample Type Units	Analyzed 09/13/13 :: client	QCBatchID:	
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08	Site: Client Sample #: Prep Method: SM Client: Site:	Site 98 (WC) V/S Result 2540-D 16 Chambers Group	1	RDL 5	units mg/L Collector	Analyzed 09/13/13 :: client	QCBatchID: ame	QC1139914 Notes
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08 Sample #: 328960-005 Analyte Method: SM 2540-D	Site: Client Sample #: Prep Method: SM Client: Site:	Site 98 (WC) V/S Result 2540-D 16 Chambers Group Site 98 (WC) Mid Result 2540-D	1 point DF	RDL 5	units mg/L Collector cample Type Units	Analyzed 09/13/13 : client : Analyzed	QCBatchID: ame By QCBatchID:	QC1139914 Notes
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08 Sample #: 328960-005 Analyte	Site: Client Sample #: Prep Method: SM Client: Site: Client Sample #:	Site 98 (WC) V/S Result 2540-D 16 Chambers Group Site 98 (WC) Mid Result	1 point	RDL 5	units mg/L Collector cample Type	Analyzed 09/13/13 c: client	QCBatchID: ame	QC1139914 Notes
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08 Sample #: 328960-005 Analyte Method: SM 2540-D	Site: Client Sample #: Prep Method: SM Client: Site: Client Sample #: Prep Method: SM	Site 98 (WC) V/S Result 2540-D 16 Chambers Group Site 98 (WC) Mid Result 2540-D 27 Chambers Group	point DF	RDL 5 S RDL 5	units mg/L Collector cample Type Units	Analyzed 09/13/13 client Analyzed 09/13/13 client	QCBatchID: ame By QCBatchID:	QC1139914 Notes
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08 Sample #: 328960-005 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:22	Site: Client Sample #: Prep Method: SM Client: Site: Client Sample #: Prep Method: SM Client: Site: Client Sample #:	Site 98 (WC) V/S Result 2540-D 16 Chambers Group Site 98 (WC) Mid Result 2540-D 27 Chambers Group Site 98 (WC) D/S Result	point DF	RDL 5 S RDL 5	units mg/L Collector ample Type Units mg/L Collector	Analyzed 09/13/13 client Analyzed 09/13/13 client	By QCBatchID: ame	Notes QC1139914 Notes Notes
Sampled: 09/12/2013 10:46 Sample #: 328960-004 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:08 Sample #: 328960-005 Analyte Method: SM 2540-D Total Suspended Solids Matrix: Water Sampled: 09/12/2013 11:22 Sample #: 328960-006	Site: Client Sample #: Prep Method: SM Client: Site: Client Sample #: Prep Method: SM Client: Site:	Site 98 (WC) V/S Result 2540-D 16 Chambers Group Site 98 (WC) Mid Result 2540-D 27 Chambers Group Site 98 (WC) D/S Result	point DF 1	RDL 5 SRDL 5	mg/L Collector Units mg/L Collector Cample Type Units mg/L Collector	Analyzed 09/13/13 client Analyzed 09/13/13 client	By QCBatchID: ame	Notes QC1139914 Notes Notes

A

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #328960

						·····
OCBatchID: OC1139914	Analyst: ame	Method: SM 2540-D			- F - 120 (4.00 (4.00)	i.e.
QCBatchib. QC1133314	Allalyst. allie	method. Ow 2040 B	6.		1. 444828	*4
Matrix: Water	Analyzed: 09/13/2013	Instrument: CHEM (group)		953		4
Matilix. VValo	Analyzed. Oblibizoid	modiamoner or and (3.9-P/		/2000/2000/00/2004 FSL	. 8. 40000000	

		nk Summary			955	
Analyte	Blank Result	Units	RDL	Notes		
QC1139914MB1						
Total Suspended Solids	ND	mg/L	5			

Total Suspended Solids	88	90	mg/L	2.2	5	
QC1139914DUP1				AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		Source: 328927-001
Analyte	Amount	Amount	Units	RPD	RPD	Notes
	Sample	Duplicate			Limits	
	Duj	olicate Summa	ary			

ND = Not Detected or < RDL

MDL = Method Detection Limit

RDL = Reporting Detection Limit DF = Dilution Factor



Notes and Definitions

В Analyte was present in an associated method blank. Associated sample data was reported with C

Laboratory Contamination.

The sample duplicate RPD was not within control limits, the sample data was reported without further D

DF Dilution Factor

DW Sample result is calculated on a dry weigh basis

J Reported value is estimated

The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control L limits. Associated sample data was reported with qualifier.

M The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix

interference. The associated LCS and/or LCSD was within control limits and the sample data was

MDL Method Detection Limit

NC The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike

ND Analyte was not detected or was less than the detection limit. Р

Sample was received without proper preservation according to EPA guidelines. Q1

Analyte Calibration Verification exceeds criteria and the result was reported with qualifier. RDL

Reporting Detection Limit

S The surrogate recovery was out of control limits due to matrix interference. The associated method

blank surrogate recovery was within control limits and the sample data was reported without further

Т Sample was extracted/analyzed past the holding time.

T2 Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.





806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: OHAMBERS (AROUP) Date Received: 911213 Project: SAR WOS Sampler's Name: Ves	EASIGN N	314TY	STUDY
Sample temperature:			
Sample(s) received in cooler: Yes Skip Section 2)			
Shipping Information:			
Section 2			
Was the cooler packed with: Ice Ice Packs Bubble Wrap	St	yrofoan	1
Paper None Other			_
Cooler Temperature:			
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample≤10 Deg. C	or arriv	al on ice)
Section 3	YES	NO	N/A
Was a COC received?	V		
Is it properly completed? (IDs, sampling date and time, signature, test)	1/		
Were custody seals present?			
If Yes – were they intact?			
Were all samples sealed in plastic bags?		1,/	
Did all samples arrive intact? If no, indicate below.	. /	×	
Did all bottle labels agree with COC? (ID, dates and times)	1/		
Were correct containers used for the tests required?	·/	-	
Was a sufficient amount of sample sent for tests indicated?			
Was there headspace in VOA vials?	<u> </u>		
Were the containers labeled with correct preservatives?			
Was total residual chlorine measured (Fish Bioassay samples only)? *			
*: If the answer is no, please inform Fish Bioassay Dept. immediately.			
Section 4			
Explanations/Comments			
		·····	
Section 5			
Was Project Manager notified of discrepancies: Y / N N/A	•		
Project Manager's response:	ę.		
Completed By: Date:			

ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868

Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Page	Lab Job No.
of	328960

		PROJECT INFORMATION PROJECT NAME: 3612 W. Gesti NUMBER: 20654	ORMATION	Shooty	REQUIRED 72 Hours:	REQUIRED TURN AROUND TIME: 72 Hours:48 Hours:	Standard:
Han C+r dr	ADDRESS:			REQUEST			`
PHONE: 805-207-4912 FAX:		" C. Vane		UYSIS			_
Sample ID	Date Time	Matrix	ontainer nber/Size	Pres. AND			Test Instructions & Comments
1 SILE 42 (SSC) DIS 91	9/12/13 0820	ξ.		<			
Site 42 (SJC) Midpoint	9/14/13 0858		_	\			
				\			3
SITE 98 (WC) U)S	9/12/13 1046	3		<			1
SIte 98 (WC) MIDPONT	9/17/13 1108	3		<			į.
SIFE 98 (WC) D/S				<			l
8	1						.
9							1
10							
11	-						- 1
12							
13							
14							
15							
Total No. of Samples: 6	Method of Shipment:	nent: delivery	9	Preservative: 1	= lce 2 =HCl	$+Ci = +NO_3 + + + + + + + + + + + + + + + + + + +$	
Received By:		1. Relinquished by	у 2.	Received By:	2.	Relinquished by	
Signature: Signature Signature	Way	Signature:		Signature:		Signature:	
Printed Name:	Ime: UZAIO	Printed Name:		Printed Name:		Printed Name:	
. ~	13 1255	Date:	Time:	Date: T	ime.	Date: Time:	1



Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Client: Address: Chambers Group 5 Hutton Centre Drive

Suite 750

Santa Ana, CA 92707

Attn:

Corey Vane

Comments: FMD SGR Feasibility Study

#20654

Lab Request: 329110 Report Date: 09/19/2013 Date Received: 09/16/2013

Client ID:

14294

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
329110-001	Site 98 (WC) U/S
329110-002	Site 98 (WC) Midpoint
329110-003	Site 98 (WC) D/S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

meulle ...

Nina Prasad President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

Matrix: Water		Chambers Group			Collecto	or: client		
Sampled: 09/16/2013 09:52 Sample #: 329110-001	Site: Client Sample #:	Site 98 (WC) U/S			Sample Typ	e:		
		Result	DF	RDL		Analyzed	Bv	Notes
Analyte Method: SM 2540-D	Prep Method: SM		וט	KDL	. Omis	Allalyzea	QCBatchID:	
Total Suspended Solids		5	1	5	mg/L	09/16/13	ame	
Matrix: Water	Client:	Chambers Group	· ·		Collecto	or: client		
Sampled: 09/16/2013 10:15	Site:							
Sample #: <u>329110-002</u>	Client Sample #:	Site 98 (WC) Mid	point		Sample Typ	e:		
Analyte		Result	DF	RDL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139950
Total Suspended Solids		12	1	5	mg/L	09/16/13	ame	
Matrix: Water	Client:	Chambers Group			Collecte	or: client		
Sampled: 09/16/2013 12:42	Site:							
Sample #: <u>329110-003</u>	Client Sample #:	Site 98 (WC) D/S			Sample Typ	e:		
A 1 - 4 -		Result	DF	RDL	Units	Analyzed	Ву	Notes
Analyte								
Analyte Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139950

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #329110

Q	Batch	ilD:	QC113	<u> 9950</u>		Analyst:	ame		Method	: SM 2540-D					
	Matr	rix:	Water		,	Analyzed:	09/16/2013		Instrument	: CHEM (group),		i.	*	
95		¥.	1				, si	Bla	ank Summa	ry			Y .		
							Bla	nk							
				Analyte			Res	ult	Units		RDL	Notes			
QC	11399	50M	B1												
Т	otal Su	spe	nded S	olids				ND	mg/L		5				

	Dup	olicate Summa	ary			
	Sample	Duplicate			Limits	
Analyte	Amount	Amount	Units	RPD	RPD	Notes
QC1139950DUP1						Source: 329095-001
Total Suspended Solids	43	42	mg/L	2.4	5	



Notes and Definitions

B Analyte was present in an associated method blank. Associated sample data was reported with qualifier.

C Laboratory Contamination.

D The sample duplicate RPD was not within control limits, the sample data was reported without further

clarification.

DF Dilution Factor

DW Sample result is calculated on a dry weigh basis

J Reported value is estimated

L The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control

limits. Associated sample data was reported with qualifier.

M The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix

interference. The associated LCS and/or LCSD was within control limits and the sample data was

reported without further clarification.

MDL Method Detection Limit

NC The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike

recovery and limits do not apply.

ND Analyte was not detected or was less than the detection limit.

P Sample was received without proper preservation according to EPA guidelines.

Q1 Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.

RDL Reporting Detection Limit

S The surrogate recovery was out of control limits due to matrix interference. The associated method

blank surrogate recovery was within control limits and the sample data was reported without further

clarification.

T Sample was extracted/analyzed past the holding time.

T2 Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.





806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1	***************************************		***************************************
Client: CHAMBERS CAROUP. Project: FMDS	GR-FEASIB	ILITY S	STUDY
Client: CHAMBERS CAROUP. Project: FMDSI Date Received: 911413 Sampler's Name	:: (Yes) 1	lo ,	
Sample temperature:			
Sample(s) received in cooler: Yes (No (Skip Section 2)	ı		
Shipping Information:			
Section 2			
Was the cooler packed with: Ice Ice Packs Bubble Paper None Other_	Wrap S	tyrofoai	m
Paper None Other_			
Cooler Temperature:			400.
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample <10			
Section 3	YES	NO	N/A
Was a COC received?	✓		
Is it properly completed? (IDs, sampling date and time, signature, test)			
Were custody seals present?		レレ	
If Yes – were they intact?			V
Were all samples sealed in plastic bags?		V	
Did all samples arrive intact? If no, indicate below.	i		
Did all bottle labels agree with COC? (ID, dates and times)	V		
Were correct containers used for the tests required?	V		
Was a sufficient amount of sample sent for tests indicated?			
Was there headspace in VOA vials?			V
Were the containers labeled with correct preservatives?			V
Was total residual chlorine measured (Fish Bioassay samples only)? *			1
*: If the answer is no, please inform Fish Bioassay Dept. immediately.		· · · · · · · · · ·	
Section 4		****	
Explanations/Comments			
Section 5			
Was Project Manager notified of discrepancies: Y / N N/A			
Project Manager's response:			
			-
1 0			_
Completed By: Date: 9/16/13	3		
\			

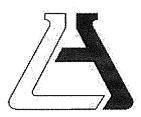
ASSOCIATED LABORATORIES806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Lab Job No. 329110 | 유

	Printe	Signature:	Helin	ī Jo		15	14	13	12	-1	01	9	 7	6	5	4	3 \				PHONE	ه>	ADDRESS:	EMAIL:	SEND	COMPANY	
	Printed Name:	P itre	Chambers Grown	Total No. of Samples:													Ste 98 (MC) 0/5	SHe 98 (WC) Miderint	She galwc) U/S		1164-LOG-SOB: BNOHD	<u>خ</u> لغ	SS: 🗸		SEND REPORT TO: Loney	ANY	
	Vane	2	667 602	f Sampl													3	(W	g/w	Sample ID	·4-10	3	hutter	nee	0.0	5	CUSTO
-	0	1/	6500	es:	- 1											,	٥ ک	₹	c) <i>U</i>	e ID		92707	۶ ۲	Clance Chambers out us. com	Corey	2	CUSTOMER INFORMATION
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	Printed Name	Signature	Heceived By:	'															-0				045 P	g gog	<u>ر</u> هٔ	Ď	ATION
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	> 1			Method of Shipment: deliver													1242	اماح	0952	Time	SAMPLED BY: Co rey	P.O. #:		ADDRESS:	NUMBER:	PROJECT NAME:	
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			μ																								



Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Client: Address: Chambers Group

5 Hutton Centre Drive Suite 750

Santa Ana, CA 92707

Attn:

Corey Vane

Comments: FMD SGR Feasibility Study

#20654

Lab Request: 329162 Report Date: 09/19/2013 Date Received: 09/17/2013

Client ID:

14294

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
329162-001	Site 42 (SJC) U/S
329162-002	Site 42 (SJC) Midpoint
329162-003	Site 42 (SJC) D/S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Meccellell to

Nina Prasad President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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Matrix; Water Sampled: 09/17/2013 11:47	Client: Site:	Chambers Group)		Collecto	r: client		
Sample #: 329162-001	Client Sample #:		S	5	Sample Typ	e:		
Analyte		Result	DF	RDL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139959
Total Suspended Solids		20	1	5	mg/L	09/17/13	ame	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Matrix: Water	Client:	Chambers Group)		Collecto	r: client		
Sampled: 09/17/2013 12:31	Site:							
Sample #: <u>329162-002</u>	Client Sample #:	Site 42 (SJC) Mi	dpoint	\$	Sample Type	e:		
Analyte		Result	DF	RDL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139959
Total Suspended Solids		16	1	5	mg/L	09/17/13	ame	
Matrix: Water	Client:	Chambers Group)		Collecto	r: client		
Sampled: 09/17/2013 12:56	Site:				s Sves		75	
Sample #: <u>329162-003</u>	Client Sample #:	Site 42 (SJC) D/	S	S	ample Type	e:		Village in
Analyte	-	Result	DF	RDL	Units	Analyzed	Ву	Notes
rinaryto								
Method: SM 2540-D	Prep Method: SM	2540-D					QCBatchID:	QC1139959

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #329162

QCBatchID: QC1139959	Analyst: ame	Method: SM 2540-D		
Matrix: Water	Analyzed: 09/17/2013	Instrument: CHEM (group)		.cod

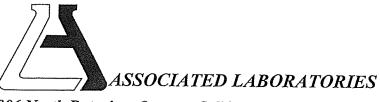
	3-44-74 as 13-44-74	Blank Summ	ary		
	Blan	k			
Analyte	Resu	ult Units	RDL	Notes	
QC1139959MB1					
Total Suspended Solids		ND mg/L	5		

Total Suspended Solids	610	612	mg/L	0.3	5		
QC1139959DUP1						Source: 329094-0	002
Analyte	Amount	Amount	Units	RPD	RPD	Notes	
	Sample	Duplicate			Limits		
	Dup	olicate Summa	iry		20.8	e fyla	



Notes and Definitions

В	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
С	Laboratory Contamination.
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DF	Dilution Factor
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
MDL	Method Detection Limit
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
ND	Analyte was not detected or was less than the detection limit.
Р	Sample was received without proper preservation according to EPA guidelines.
Q1	Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.
RDL	Reporting Detection Limit
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
Т	Sample was extracted/analyzed past the holding time.
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.



806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client:			1973 h
Cooler Temperature:			
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample≤10 Deg. (al on ice	
Section 3	YES	NO	N/A
Was a COC received?	V		
Is it properly completed? (IDs, sampling date and time, signature, test)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Were custody seals present?		V	
If Yes – were they intact?			V
Were all samples sealed in plastic bags?		V	
Did all samples arrive intact? If no, indicate below.	V		
Did all bottle labels agree with COC? (ID, dates and times)	V		
Were correct containers used for the tests required?	V		
Was a sufficient amount of sample sent for tests indicated?	V		
Was there headspace in VOA vials?			V
Were the containers labeled with correct preservatives?			V
Was total residual chlorine measured (Fish Bioassay samples only)? *			1/
*: If the answer is no, please inform Fish Bioassay Dept. immediately.	- 2		
Section 4 Explanations/Comments			
		W-FF-W	
Section 5 Was Project Manager notified of discrepancies: Y / N N/A Project Manager's response:			
Completed By: Date:			•

ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868

Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Lab Job No. 329162 이 _

Date: Time:	Time: Da	Date:	Time:	Date:	Time;		Date:		Parts. 7/1/2	Date: 'Time: '1/1/1/3' 14\0)
Printed Name:	Pri	Printed Name:		Printed Name:		Printed Name:	Printec	で生く	Printed Name	
Signature:	Sig	Signature:		Signature:	(O)	лге:	Signature	1	Signature	Signature:
Received By: 3.	3. Re	Relinquished by	2.	Received By:	2. F	Relinquished by '	1. Reling		Received By:	Chambers Group 1.
5 =NaOH 6 =Other	4 =H ₂ SO ₄ 5 =	2 =HCl 3 =HNO ₃	1= lce 2 =	Preservative:		ehvery	ipment: a	Method of Shipment: delivery	1	Total No. of Samples: 3
										15
	HALL COLUMN TO A STATE OF THE S									14
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				7			M Lhll		9/17/13	1 Site 42 (SSC) U/S
Test Instructions & Comments	Test Instri				iner Pres.	x Container Number/Size	Time Matrix	Date Ti	<u> </u>	Sample ID
			\ \ \	ALYSI		ž	EDBY: C. Varg	SAMPLED BY:		PHONE: 865-207-4912 FAX:
	\	/ / /	/	SRE						Sents Ana cx 92707
			\ \ \	QUES					TWE STE 7	ADDRESS: J. HAADA CT- DOWN STE 750
				/ * /			58 70634		Vane	EMAIL: (), COREY VO
24 Hours:			72 Hours:	y	NUMBER: FMD SGR FEASIBILITY STUDY	D SGR F	CT NAME:	PROJECT I	Group	, [
d: Eur	ME: Standard:	REQUIRED TURN AROUND TIME:	REQUIRED		ATION	PROJECT INFORMATION	PROJ		RMATION	CUSTOMER INFORMATION
- Alberton.						***************************************				



Associated Laboratories

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Client: Address: Chambers Group

5 Hutton Centre Drive

Suite 750

Santa Ana, CA 92707

Attn:

Corey Vane

Comments: RMD SGR Feasibility Report

#20654

Lab Request: 329261 Report Date: 09/20/2013 Date Received: 09/18/2013

Client ID:

14294

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
329261-001	Site 42 (SJC) V/S
329261-002	Site 42 (SJC) Midpoint
329261-003	Site 42 (SJC) D/S
329261-004	Site 98 (WC) V/S
329261-005	Site 98 (WC) Midpoint
329261-006	Site 98 (WC) D/S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Nina Prasad President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Matrix: Water Sampled: 09/18/2013 14:41	Site:	Chambers Group				Collector			
Sample #: <u>329261-001</u>	Client Sample #:	Site 42 (SJC) V/S	js.		S	ample Type	:		
Analyte		Result	DF	R	DL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM		~~~~					QCBatchID:	QC1140015
Total Suspended Solids		25	1		5	mg/L	09/19/13	ame	
Matrix: Water	Client:	Chambers Group				Collector	: client		
Sampled: 09/18/2013 15:04	Site:				16.54 16.54				
Sample #: 329261-002	Client Sample #:	Site 42 (SJC) Mid	lpoint		s	ample Type	:		
Analyte	<u> </u>	Result	DF	R	DL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D						QCBatchID:	QC1140015
Total Suspended Solids		19	1		5	mg/L	09/19/13	ame	
Matrix: Water	Client:	Chambers Group				Collector	: client		
Sampled: 09/18/2013 15:19	Site:								
Sample #: 329261-003	Client Sample #:	Site 42 (SJC) D/S	}		s	ample Type	:		
Analyte		Result	DF	R	DL	Units	Analyzed	Ву	Notes
Method: SM 2540-D	Prep Method: SM	2540-D						QCBatchID:	QC1140015
Total Suspended Solids		18	1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	5	mg/L	09/19/13	ame	
Matrix: Water Sampled: 09/18/2013 16:16 Sample #: 329261-004	Client: Site: Client Sample #:	Chambers Group Site 98 (WC) V/S			s	Collector			X II
Analyte		Result	DF	R	DL	Units	Analyzed	Bv	Notes
Method: SM 2540-D	Prep Method: SM		<u> </u>		<u> </u>	Omto	Analyzea		QC1140015
Total Suspended Solids		ND	1		5	mg/L	09/19/13	ame	
Matrix: Water	Client	Chambers Group				Collector	: client		30
Sampled: 09/18/2013 16:35	Site:							902° (40.	
Sample #: 329261-005	Client Sample #:	Site 98 (WC) Mid	point		s	ample Type	2	,	
				D				Dv.	Notos
Analyte Method: SM 2540-D	Prep Method: SM	Result	DF	K	DL	Units	Analyzed	By QCBatchID:	Notes OC1140015
Total Suspended Solids	1 rep metriod. On	6	1		5	mg/L	09/19/13	ame	
Total Suspended Solids	•	6			5			ame	
Total Suspended Solids Matrix: Water	Client:	6 Chambers Group			5	mg/L Collector		ame	
Total Suspended Solids Matrix: Water Sampled: 09/18/2013 16:55	Client: Site:	6 Chambers Group				Collector	: client	ame	
Total Suspended Solids Matrix: Water Sampled: 09/18/2013 16:55 Sample #: 329261-006	Client:	6 Chambers Group A Site 98 (WC) D/S			s	Collector	:: client		Notas
Total Suspended Solids Matrix: Water Sampled: 09/18/2013 16:55	Client: Site:	6 Chambers Group Site 98 (WC) D/S Result		R		Collector	: client	By QCBatchID:	Notes QC1140015

ND = Not Detected or < RDL

RDL = Reporting Detection Limit DF = Dilution Factor



ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #329261

QC	BatchI): QC1140015	Analyst:	ame	Method:	SM 2540-D			
	Matrix	:: Water	Analyzed:	09/19/2013	Instrument:	CHEM (group)			
	i i				Blank Summa	ry			
	economic (Circle Internet			Blank					
		Analyte		Resu	t Units		RDL	Notes	
QC	1140015	MB1							
To	otal Susp	ended Solids		ı	ND mg/L		5		

	Dup	olicate Summa	ary			
A 800	Sample	Duplicate			Limits	
Analyte	Amount	Amount	Units	RPD	RPD	Notes
QC1140015DUP1						Source: 329250-001
Total Suspended Solids	38	37	mg/L	2.7	5	

Notes and Definitions

B Analyte was present in an associated method blank. Associated sample data was reported with

qualifier.

C Laboratory Contamination.

D The sample duplicate RPD was not within control limits, the sample data was reported without further

clarification.

DF Dilution Factor

DW Sample result is calculated on a dry weigh basis

J Reported value is estimated

L The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control

limits. Associated sample data was reported with qualifier.

M The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix

interference. The associated LCS and/or LCSD was within control limits and the sample data was

reported without further clarification.

MDL Method Detection Limit

NC The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike

recovery and limits do not apply.

ND Analyte was not detected or was less than the detection limit.

P Sample was received without proper preservation according to EPA guidelines.

Q1 Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.

RDL Reporting Detection Limit

S The surrogate recovery was out of control limits due to matrix interference. The associated method

blank surrogate recovery was within control limits and the sample data was reported without further

clarification.

T Sample was extracted/analyzed past the holding time.

T2 Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.





806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1	. 0 = -			
Client: CHAMBERS GROUP Project: RNDS Date Received: 911813 Sampler's Nam	ak te	ASIBI	HTYF	EPOR
	ie: Kes) N	o '	•
Sample temperature:				
Sample(s) received in cooler: Yes No (Skip Section 2	2)			
Shipping Information:			··········	
Section 2		***************************************		
	, XX/	04	C	_
Was the cooler packed with: Ice Ice Packs Bubble Paper None Other_	e wrap	SI	yro10ar	n
Cooler Temperature:				
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample < 1	0 Deg. C	or arrive	al on ice)
Section 3	1 - 18	YES	NO	N/A
Was a COC received?		V		1
Is it properly completed? (IDs, sampling date and time, signature, test)	-		
Were custody seals present?			V	
If Yes – were they intact?				1,/
Were all samples sealed in plastic bags?		***************************************	V	
Did all samples arrive intact? If no, indicate below.		V		
Did all bottle labels agree with COC? (ID, dates and times)		√		
Were correct containers used for the tests required?		V		
Was a sufficient amount of sample sent for tests indicated?				
Was there headspace in VOA vials?				
Were the containers labeled with correct preservatives?				V
Was total residual chlorine measured (Fish Bioassay samples only)? *				
*: If the answer is no, please inform Fish Bioassay Dept. immediately				·
Section 4				
Explanations/Comments				
Section 5				
Was Project Manager notified of discrepancies: Y / N N/A				
Project Manager's response:				
				.
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Completed By: Date:9/18/	(3			
Completed By: Date:Date:	<u>ι</u>			
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ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868

Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Lab Job No.
Page _____ 329261

Time:		Time: Date:		Date:	D,	Time:			Date:	Time:	=	Date:			Page: N		Date: / Time: / *** *
	Printed Name:	Prír	ne:	Printed Name:	Pr			Printed Name:	Printe		me:	Printed Name:	5	12 J	Printed Name:		Printed Name:
	Signature:	Sig		Signature:	Si			ture:	Signature:			Signature:			Signature:	/	Signature:
μ	Received By:	3. Rec	ed by	Relinquished by	2. Re			Received By:	2. Recei		ned bý	Relinquished by]	,	Received By:	6100P 1.	Relinquished by Chamber 5
er	5=NaOH 6=Other	$4 = H_2SO_4 = 5 =$		2 =HCl 3 =HNO ₃	2 =H(1 = lce		Preservative:	-0		very	nt: D21	Method of Shipment: Delivesy	Method		amples: 6	Total No. of Samples:
																	15
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								5			-	3	1509	51/31/5		Site 42(55c) midbint	-
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nts	Test Instructions & Comments	Test Instru						755 755	Pres.		Container Number/Size	Matrix	Time	Date		Sample ID	Sa
				\	\		<u> </u>	PLYSI			Vane	Corey	SAMPLED BY:			805-207-4912 FAX:	PHONE: 805-
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	24 Hours:		_48 Hours:	1	72 Hours:	72 H		1	John	ولجدارطية	Find SGR Frasibility report		PROJECT NAME:		9	SEND REPORT TO:	SEND REPORT TO:
		ΛΕ: Standard:	REQUIRED TURN AROUND TIME:	JRN AR	IRED TO	REQU				2	PROJECT INFORMATION				TION	CUSTOMER INFORMATION	CL
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