



Sample Summary

Client: Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Work Order:

Project Name:

PO Number:

Date/Time Received:

Number of

Containers:

18-05-1110

998-059.200 BALBOA COVES

05/11/18 16:02

8

Attn: Jorge Tomas

Sample Identification Matrix Lab Number **Collection Date and Time** Number of Containers BALBOA COVE #2-REPLENISHMENT 18-05-1110-4 05/11/18 13:00 Sediment





Analytical Report

Associated Pacific Constructors, Inc.

Date Received:

Work Order:

18-05-1110

Newport Beach, CA 92663-4023

Preparation:

Method:

Units:

%

Project: 998-059.200 BALBOA COVES Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BALBOA COVE #2-REPLENISHMENT	18-05-1110-4-AA	05/11/18 13:00	Sediment	LPSA 1	N/A	05/23/18 19:53	
Parameter		•	•	Result		Qualifiers	
Clay (less than 0.00391mm)				0.55			
Silt (0.00391 to 0.0625mm)				3.48			
Total Silt and Clay (0 to 0.0625mm)				4.03			
Very Fine Sand (0.0625 to 0.125mm)				1.72			
Fine Sand (0.125 to 0.25mm)				10.84			
Medium Sand (0.25 to 0.5mm)				43.25			
Coarse Sand (0.5 to 1mm)				34.93			
Very Coarse Sand (1 to 2mm)				5.22			
Gravel (greater than 2mm)				ND			

95.96 % Sand

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



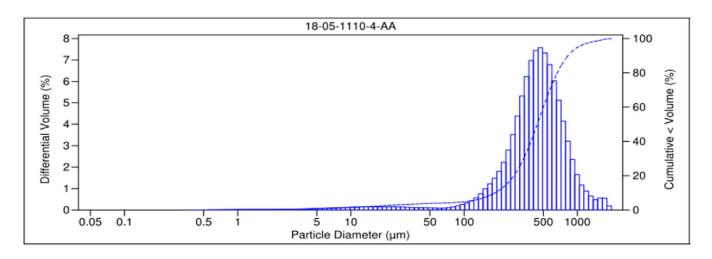
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	Pacific Constructors, Inc.	Date Sampled:	05/11/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Proiect:	998-059.200 BALBOA COVES		Page 4 of 8

	Sample ID	Depth ft	Description	Mean Grain Size mm
,	BALBOA COVE #2-REPLENISHMENT	•	Medium Sand	0.488

		Particle	e Size Distributio	n, wt by perce	ent			
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
0.00	5.22	34.93	43.25	10.84	1.72	3.48	0.55	4.03



V 3.0



Glossary of Terms and Qualifiers

Work Order: 18-05-1110 Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

e reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

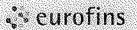
A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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•		Calsoleinos				S CONTRACTOR	ליה ולאם נספר לאורן	DATE:	5-11-2018	18	1
40 Lin	40 Lincoln Way, Carden Grove, CA 92841:1427 • (• (714) 895-5494 ontact us26 sales@euro	linsus.com of	call us.			18-05-1110	PAGE	05		ı
ABOR	ABORATORY CLIENT ASSOCIATED PACIFIC CONSTRUCTORS	CIFIC CONS	RUCTO	RS		ေလ	OLIENTPROJECTIONMETROPHER SON ENTRES 998-059, 200 BALBOA COVES	A COVES)-866 088-(998-059.200	
ADDRESS.	SSS 2901 WEST COAST HIGHWAY, SUITE	ST HIGHWAY	, SUITE	374		lo.	PROJECT CONTACT		SAMPLER(S): (PRINT)		ı
XII)	NEWPORT BEACH		STATE: CA	ZIP 92663	53	×	JORGE TOMAS - 9492208387 - JTOMAS@ASSOCIATEDPACIFIC,COM	CIATEDPACIFIC COM			
TEL 149-2	E. E-MAIL JTOMA	EMIL JTOMAS@ASSOCIATEDPACIFIC.COM	FEDPACI	FIC.COM			REQUI	REQUESTED ANALYSES	SES.		
MAN S	TURNAROUND TIME (Rush surchanges may apply to any TAT not. 'STANDARD'		- E-04VG	O STANDADD	000		Please check box or fill in blank as needed	n blank as needed.			
∂ Ö 3 □	Ω		2		HOG CODE						
SPECIFICAL PIECE	secdar instructions: Please provide indivdual anayisis report for each samole	sch samble.					Sic atoline4 (M), bat				
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	BALBOA COVE#1 - DREDGING 4-30-2018	13.10	S			×					
Λ	BALBOA COVE #1 - REPLENISHMENT 5-11-2018	12.45	S	1		×					
~	BALBOA COVE #2 - DREDGING 4-30-2018	13.20	S	ŀ		×					
1	BALBOA COVE #2 - REPLENISHMENT 5-11-2018	13.00	S			×					
4	BALBOA COVE #3 - DREDGING 4-30-2018	13.30	S	1		×					
1	BALBOA COVE #3 - REPLENISHMENT 5-11-2018	13.10	S	·		×					NAME OF THE PROPERTY OF THE PR
ľ	BALBOA COVE #4- DREDGING 4-30-2018	ив 13.40	S	•		×					
∞	BALBOA COVE#4: REPLENISHMENT 5-11-2018	13.20	S			×					
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06/02/14 Revision



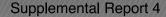
WORK ORDER NUMBER: 18-05-9 1/0

Calscience

SAMPLE RECEIPT CHECKLIST

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CLIENT: Hissocialed Pacific Constructors	DATE: <u>05</u>	<u> </u>	2018
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.8 □ Sample(s) outside temperature criteria (PM/APM contacted by:)		k Ø	l'Sample
☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of samplir☐ Sample(s) received at ambient temperature; placed on ice for transport by courier Ambient Temperature: ☐ Air ☐ Filter	ng Checke	ed by: _	8v
CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Sample(s) □ Present and Intact □ Present but Not Intact □ Not Present □ N/A			Qv 1053
SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	ø	D	
COC document(s) received complete			
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished	time		
Sampler's name indicated on COC		ø/	
Sample container label(s) consistent with COC		O	
Sample container(s) intact and in good condition	**************************************	П	О
Proper containers for analyses requested			
Sufficient volume/mass for analyses requested		D	
Samples received within holding time		D	D
Aqueous samples for certain analyses received within 15-minute holding time			
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen	🗖	П	ø
Proper preservation chemical(s) noted on COC and/or sample container		D	ď
Unpreserved aqueous sample(s) received for certain analyses			
□ Volatile Organics □ Total Metals □ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	🖸		Ø,
Container(s) for certain analysis free of headspace.		□	ø
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			1
Tedlar™ bag(s) free of condensation	□		ᅜ
CONTAINER TYPE: (Trip Blank Lot Nu)
Aqueous: □ VOA □ VOAh □ VOAna₂ □ 100PJ □ 100PJna₂ □ 125AGB □ 125AGBh □ 125AGBp □ □ 250AGB □ 250CGB □ 250CGBs (pH 2) □ 250PB □ 250PBn (pH 2) □ 500AGB □ 500AGJ □ 500AGJ	125PB □ 125I 500AGJs (pH	PB <mark>znna</mark> _2) □ 5	i (pH9) 500PB
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □	ा राजामिंगो	_ 🛛 🔙	
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □ Solid: □ 4ozCGJ □ 8ozCGJ ☑ 16ozCGJ □ Sleeve () □ EnCores® () □ TerraCores® () □ Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ Other Matrix () □	<u> </u>	U. O.	
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziplo Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na ₂ = Na ₂ S ₂ O ₃ , p = H ₃ PO ₄ . L2 S = H ₂ SO ₄ , u = ultra-pure, x = Na ₂ SO ₃ +NaHSO ₄ ; H ₂ O ₃ , znna = Zn (CH ₃ CO ₂) ₂ + NaOH	abeled/Checke	ed by:	<u>1053</u> 708





Calscience



WORK ORDER NUMBER: 18-05-1110

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Associated Pacific Constructors, Inc.

Client Project Name: 998-059.200 BALBOA COVES

Attention: Jorge Tomas

2901 West Coast Hwy

Suite 374

Newport Beach, CA 92663-4023

Hathleen M. Burney For

Approved for release on 05/25/2018 by:

Carla Hollowell Project Manager

ResultLink ▶

Email your PM >

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name:	998-059.200 BALBOA COVES

Work Order Number: 18-05-1110

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2	Sample Summary	4
3	Client Sample Data	5 5
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5	Glossary of Terms and Qualifiers	14
6	Chain-of-Custody/Sample Receipt Form	15



Work Order Narrative

Work Order: 18-05-1110 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/11/18. They were assigned to Work Order 18-05-1110.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.





Sample Summary

Client: Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Work Order:

Project Name:

PO Number:

Date/Time Received:

Number of

Containers:

18-05-1110

998-059.200 BALBOA COVES

05/11/18 16:02

Matrix

8

Attn: Jorge Tomas

Sample Identification Lab Number Collection Date and Time Number of Containers

BALBOA COVE #3-DREDGING 18-05-1110-5 04/30/18 13:30 1 Sediment



Analytical Report

Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023 Date Received: Work Order:

05/11/18

Preparation:

18-05-1110 N/A

Method:

ASTM D4464 (M)

Units:

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Project: 998-059.200 BALBOA COVES

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BALBOA COVE #3-DREDGING	18-05-1110-5-AA	04/30/18 13:30	Sediment	LPSA 1	N/A	05/23/18 20:03	
<u>Parameter</u>		•	•	Result	•	Qualifiers	
Clay (less than 0.00391mm)				0.62			
Silt (0.00391 to 0.0625mm)				4.90			
Total Silt and Clay (0 to 0.0625mm)				5.52			
Very Fine Sand (0.0625 to 0.125mm)				1.75			
Fine Sand (0.125 to 0.25mm)				11.29			
Medium Sand (0.25 to 0.5mm)				43.30			
Coarse Sand (0.5 to 1mm)				34.58			
Very Coarse Sand (1 to 2mm)				3.56			
Gravel (greater than 2mm)				ND			

94.48% Sand

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



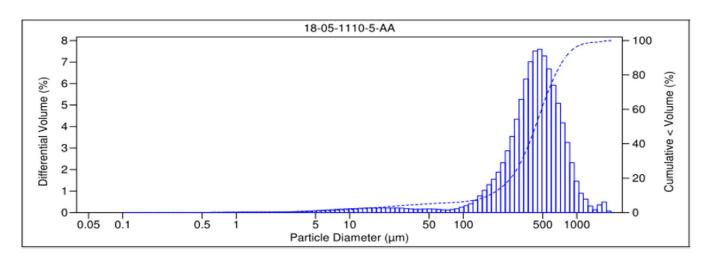
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	l Pacific Constructors, Inc.	Date Sampled:	04/30/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Project:	998-059-200 BALBOA COVES		Page 5 of 8

	Sample ID	Depth ft	Description	Mean Grain Size mm
_	BALBOA COVE #3-DREDGING		Medium Sand	0.464

		Particle	e Size Distributio	n, wt by perce	ent			
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
0.00	3.56	34.58	43.30	11.29	1.75	4.90	0.62	5.52



V 3.0



Glossary of Terms and Qualifiers

Work Order: 18-05-1110 Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
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3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
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HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
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JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
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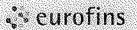
A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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ADDRESS.	SSS 2901 WEST COAST HIGHWAY, SUITE	ST HIGHWAY	, SUITE	374		l _o	PROJECT CONTACT		SAMPLER(S): (PRINT)		ı
XII)	NEWPORT BEACH		STATE: CA	ZIP 92663	53	×	JORGE TOMAS - 9492208387 - JTOMAS@ASSOCIATEDPACIFIC,COM	CIATEDPACIFIC COM			
TEL 149-2	E. E-MAIL JTOMA	EMIL JTOMAS@ASSOCIATEDPACIFIC.COM	FEDPACI	FIC.COM			REQUI	REQUESTED ANALYSES	SES.		
MAN S	TURNAROUND TIME (Rush surchanges may apply to any TAT not. 'STANDARD'		- E-04VG	O STANDADD	000		Please check box or fill in blank as needed	n blank as needed.			
∂ Ö 3 □	Ω		2		HOG CODE						
SPECIFICAL PIECE	secdar instructions: Please provide indivdual anayisis report for each samole	sch samble.					Sic atoline4 (M), bat				
148		SAMPLING		ON	keseu	əlli∓ b					
USE	SAMPLEID	TIME	MATRIX	cont.							
	BALBOA COVE#1 - DREDGING 4-30-2018	13.10	S			×					
Λ	BALBOA COVE #1 - REPLENISHMENT 5-11-2018	12.45	S	1		×					
~	BALBOA COVE #2 - DREDGING 4-30-2018	13.20	S	ŀ		×					
1	BALBOA COVE #2 - REPLENISHMENT 5-11-2018	13.00	S			×					
4	BALBOA COVE #3 - DREDGING 4-30-2018	13.30	S	1		×					
1	BALBOA COVE #3 - REPLENISHMENT 5-11-2018	13.10	S	·		×					NAME OF THE PROPERTY OF THE PR
ľ	BALBOA COVE #4- DREDGING 4-30-2018	ив 13.40	S	•		×					
∞	BALBOA COVE#4: REPLENISHMENT 5-11-2018	13.20	S			×					
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06/02/14 Revision



WORK ORDER NUMBER: 18-05-9 1/0

Calscience

SAMPLE RECEIPT CHECKLIST

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CLIENT: Hissocialed Pacific Constructors	DATE: <u>05</u>	<u> </u>	2018
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.8 □ Sample(s) outside temperature criteria (PM/APM contacted by:)		k Ø	l'Sample
☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of samplir☐ Sample(s) received at ambient temperature; placed on ice for transport by courier Ambient Temperature: ☐ Air ☐ Filter	ng Checke	ed by: _	8v
CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Sample(s) □ Present and Intact □ Present but Not Intact □ Not Present □ N/A			Qv 1053
SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	ø	D	
COC document(s) received complete			
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished	time		
Sampler's name indicated on COC		ø/	
Sample container label(s) consistent with COC		O	
Sample container(s) intact and in good condition	**************************************	П	О
Proper containers for analyses requested			
Sufficient volume/mass for analyses requested		D	
Samples received within holding time		D	D
Aqueous samples for certain analyses received within 15-minute holding time			
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen	🗖	П	ø
Proper preservation chemical(s) noted on COC and/or sample container		D	ď
Unpreserved aqueous sample(s) received for certain analyses			
□ Volatile Organics □ Total Metals □ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	🖸		Ø,
Container(s) for certain analysis free of headspace.		□	ø
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			1
Tedlar™ bag(s) free of condensation	□		ᅜ
CONTAINER TYPE: (Trip Blank Lot Nu)
Aqueous: □ VOA □ VOAh □ VOAna₂ □ 100PJ □ 100PJna₂ □ 125AGB □ 125AGBh □ 125AGBp □ □ 250AGB □ 250CGB □ 250CGBs (pH 2) □ 250PB □ 250PBn (pH 2) □ 500AGB □ 500AGJ □ 500AGJ	125PB □ 125I 500AGJs (pH	PB <mark>znna</mark> _2) □ 5	i (pH9) 500PB
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □	ा राजामिंगो	_ 🛛 🔙	
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □ Solid: □ 4ozCGJ □ 8ozCGJ ☑ 16ozCGJ □ Sleeve () □ EnCores® () □ TerraCores® () □ Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ Other Matrix () □	<u> </u>	U. O.	
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziplo Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na ₂ = Na ₂ S ₂ O ₃ , p = H ₃ PO ₄ . L2 S = H ₂ SO ₄ , u = ultra-pure, x = Na ₂ SO ₃ +NaHSO ₄ ; H ₂ O ₃ , znna = Zn (CH ₃ CO ₂) ₂ + NaOH	abeled/Checke	ed by:	<u>1053</u> 708



Calscience

Supplemental Report 5



WORK ORDER NUMBER: 18-05-1110

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Associated Pacific Constructors, Inc.

Client Project Name: 998-059.200 BALBOA COVES

Attention: Jorge Tomas

2901 West Coast Hwy

Suite 374

Newport Beach, CA 92663-4023

Hathleen M. Burney For

Approved for release on 05/25/2018 by:

Carla Hollowell Project Manager

ResultLink >

Email your PM >

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name:	998-0
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998-059.200 BALBOA COVES

Work Order Number: 18-05-1110

1	Work Order Narrative	3
2	Sample Summary	4
3	Client Sample Data	5
4	Particle Size Summary - 18-05-1110	6
5	Glossary of Terms and Qualifiers	14
6	Chain-of-Custody/Sample Receipt Form	15



Work Order Narrative

Work Order: 18-05-1110 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/11/18. They were assigned to Work Order 18-05-1110.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.





Sample Summary

Client: Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Work Order:

Project Name:

PO Number:

Date/Time Received:

Number of

18-05-1110

998-059.200 BALBOA COVES

05/11/18 16:02

8

Containers:

Attn: Jorge Tomas

BALBOA COVE #3-REPLENISHMENT

Sample Identification Lab Number

18-05-1110-6

Collection Date and Time

05/11/18 13:10

Number of Containers Matrix

Sediment



05/11/18

18-05-1110

Page 1 of 1



Analytical Report

Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Date Received:
Work Order:
Preparation:

Preparation: N/A Method: ASTM D4464 (M)

Units: %

Project: 998-059.200 BALBOA COVES

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BALBOA COVE #3-REPLENISHMENT	18-05-1110-6-AA	05/11/18 13:10	Sediment	LPSA 1	N/A	05/23/18 20:14	
<u>Parameter</u>				Result		<u>Qualifiers</u>	
Clay (less than 0.00391mm)				0.21			
Silt (0.00391 to 0.0625mm)				0.37			
Total Silt and Clay (0 to 0.0625mm)				0.58			
Very Fine Sand (0.0625 to 0.125mm)				1.84			
Fine Sand (0.125 to 0.25mm)				10.26			
Medium Sand (0.25 to 0.5mm)				35.70			
Coarse Sand (0.5 to 1mm)				36.49			
Very Coarse Sand (1 to 2mm)				11.91			
Gravel (greater than 2mm)				3.23			

96.2% SAnd

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



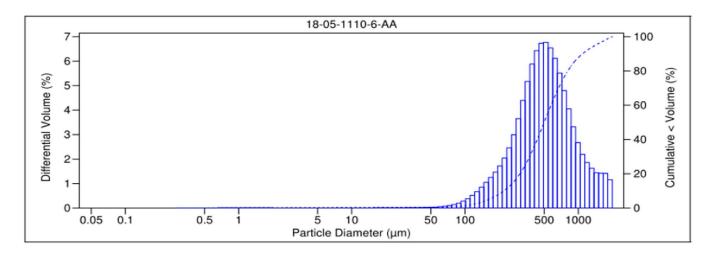
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	Pacific Constructors, Inc.	Date Sampled:	05/11/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Project:	998-059 200 BALBOA COVES		Page 6 of 8

	Sample ID	Depth ft	Description	Mean Grain Size mm
•	BALBOA COVE #3-REPLENISHMENT	•	Coarse Sand	0.687

		Particle	e Size Distributio	n, wt by perce	ent			
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
3.23	11.91	36.49	35.70	10.26	1.84	0.37	0.21	0.58



V 3.0



Glossary of Terms and Qualifiers

Work Order: 18-05-1110 Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

e reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

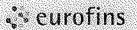
A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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•		Calsoleinos				S CONTRACTOR	ליה ולאם נספר לאורן	DATE:	5-11-2018	18	1
40 Lin	40 Lincoln Way, Carden Grove, CA 92841:1427 • (• (714) 895-5494 ontact us26 sales@euro	linsus.com of	call us.			18-05-1110	PAGE	05		ı
ABOR	ABORATORY CLIENT ASSOCIATED PACIFIC CONSTRUCTORS	CIFIC CONS	RUCTO	RS		ေလ	OLIENTPROJECTIONMETROPHER SON ENTRES 998-059, 200 BALBOA COVES	A COVES)-866 088-(998-059.200	
ADDRESS.	SSS 2901 WEST COAST HIGHWAY, SUITE	ST HIGHWAY	, SUITE	374		l _o	PROJECT CONTACT		SAMPLER(S): (PRINT)		ı
XII)	NEWPORT BEACH		STATE: CA	ZIP 92663	53	×	JORGE TOMAS - 9492208387 - JTOMAS@ASSOCIATEDPACIFIC,COM	CIATEDPACIFIC COM			
TEL 149-2	E. E-MAIL JTOMA	EMIL JTOMAS@ASSOCIATEDPACIFIC.COM	FEDPACI	FIC.COM			REQUI	REQUESTED ANALYSES	SES.		
MAN S	TURNAROUND TIME (Rush surchanges may apply to any TAT not. 'STANDARD'		- E-04VG	O STANDADD	000		Please check box or fill in blank as needed	n blank as needed.			
∂ Ö 3 □	Ω		2		HOG CODE						
SPECIFICAL PIECE	secdar instructions: Please provide indivdual anayisis report for each samole	sch samble.					Sic atoline4 (M), bat				
148		SAMPLING		ON	keseu	əlli∓ b					
USE	SAMPLEID	TIME	MATRIX	cont.							
	BALBOA COVE#1 - DREDGING 4-30-2018	13.10	S			×					
Λ	BALBOA COVE #1 - REPLENISHMENT 5-11-2018	12.45	S	1		×					
~	BALBOA COVE #2 - DREDGING 4-30-2018	13.20	S	ŀ		×					
1	BALBOA COVE #2 - REPLENISHMENT 5-11-2018	13.00	S			×					
4	BALBOA COVE #3 - DREDGING 4-30-2018	13.30	S	1		×					
1	BALBOA COVE #3 - REPLENISHMENT 5-11-2018	13.10	S	·		×					NAME OF THE PROPERTY OF THE PR
ľ	BALBOA COVE #4- DREDGING 4-30-2018	ив 13.40	S	•		×					
∞	BALBOA COVE#4: REPLENISHMENT 5-11-2018	13.20	S			×					
Relin	Relinquished by: (Signalume)		Λ	Rec	Received by: (Signature/Affiliation)	nature/Aff	ation)	Date	8"/"/3	Time (602	Page
Rein	Reinquished by: (Signature)			Rec	Received by: (Signature/Affiliation	inature/Aff	ialion	Date		Time	8 of 9
Relin	Reinquished by: (Signature)			Rec	Received by: (Signature/Affiliation)	mature/Aff	ilation)	Date		Time:)

06/02/14 Revision



WORK ORDER NUMBER: 18-05-9 1/0

Calscience

SAMPLE RECEIPT CHECKLIST

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									N	Š			4							-

CLIENT: Hissocialed Pacific Constructors	DATE: <u>05</u>	<u> </u>	2018
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.8 □ Sample(s) outside temperature criteria (PM/APM contacted by:)		k Ø	l'Sample
☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of samplir☐ Sample(s) received at ambient temperature; placed on ice for transport by courier Ambient Temperature: ☐ Air ☐ Filter	ng Checke	ed by: _	8v
CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Sample(s) □ Present and Intact □ Present but Not Intact □ Not Present □ N/A			Qv 1053
SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	ø	D	
COC document(s) received complete			
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished	time		
Sampler's name indicated on COC		ø/	
Sample container label(s) consistent with COC		O	
Sample container(s) intact and in good condition	**************************************	П	О
Proper containers for analyses requested			
Sufficient volume/mass for analyses requested		D	
Samples received within holding time		D	D
Aqueous samples for certain analyses received within 15-minute holding time			
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen	🗖	П	ø
Proper preservation chemical(s) noted on COC and/or sample container		D	ď
Unpreserved aqueous sample(s) received for certain analyses			
□ Volatile Organics □ Total Metals □ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	🖸		Ø,
Container(s) for certain analysis free of headspace.		□	ø
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			1
Tedlar™ bag(s) free of condensation	□		ᅜ
CONTAINER TYPE: (Trip Blank Lot Nu)
Aqueous: □ VOA □ VOAh □ VOAna₂ □ 100PJ □ 100PJna₂ □ 125AGB □ 125AGBh □ 125AGBp □ □ 250AGB □ 250CGB □ 250CGBs (pH 2) □ 250PB □ 250PBn (pH 2) □ 500AGB □ 500AGJ □ 500AGJ	125PB □ 125I 500AGJs (pH	PB <mark>znna</mark> _2) □ 5	i (pH9) 500PB
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □	ा राजामिंगो	_ 🛛 🔙	
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □ Solid: □ 4ozCGJ □ 8ozCGJ ☑ 16ozCGJ □ Sleeve () □ EnCores® () □ TerraCores® () □ Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ Other Matrix () □	<u> </u>	U. O.	
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziplo Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na ₂ = Na ₂ S ₂ O ₃ , p = H ₃ PO ₄ . L2 S = H ₂ SO ₄ , u = ultra-pure, x = Na ₂ SO ₃ +NaHSO ₄ ; H ₂ O ₃ , znna = Zn (CH ₃ CO ₂) ₂ + NaOH	abeled/Checke	ed by:	<u>1053</u> 708



Calscience

Supplemental Report 6



WORK ORDER NUMBER: 18-05-1110

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Associated Pacific Constructors, Inc.

Client Project Name: 998-059.200 BALBOA COVES

Attention: Jorge Tomas

2901 West Coast Hwy

Suite 374

Newport Beach, CA 92663-4023

Hathleen M. Burney For

Approved for release on 05/25/2018 by:

Carla Hollowell Project Manager

ResultLink >

Email your PM >

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Cli	ent P	roje	ect N	ame:	998-

998-059.200 BALBOA COVES

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3	Client Sample Data	5
4	Particle Size Summary - 18-05-1110	6
5	Glossary of Terms and Qualifiers	14
6	Chain-of-Custody/Sample Receipt Form	15



Work Order Narrative

Work Order: 18-05-1110 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/11/18. They were assigned to Work Order 18-05-1110.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.





Sample Summary

Client: Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Work Order:

Project Name:

PO Number:

Date/Time Received:

Number of

Containers:

18-05-1110

998-059.200 BALBOA COVES

05/11/18 16:02

8

Attn: Jorge Tomas

BALBOA COVE #4-DREDGING

Sample Identification Lab Number

18-05-1110-7

Collection Date and Time

Number of Containers Matrix

04/30/18 13:40

1

Sediment



Analytical Report

Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023 Date Received: Work Order:

05/11/18

Preparation:

18-05-1110 N/A

Method:

ASTM D4464 (M)

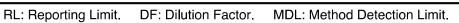
Units:

0/_

Project: 998-059.200 BALBOA COVES

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BALBOA COVE #4-DREDGING	18-05-1110-7-AA	04/30/18 13:40	Sediment	LPSA 1	N/A	05/23/18 20:48	
<u>Parameter</u>		•	-	Result	•	Qualifiers	
Clay (less than 0.00391mm)				2.15			
Silt (0.00391 to 0.0625mm)				18.24			
Total Silt and Clay (0 to 0.0625mm)				20.39			
Very Fine Sand (0.0625 to 0.125mm)				7.61			
Fine Sand (0.125 to 0.25mm)				30.35			
Medium Sand (0.25 to 0.5mm)				33.93			
Coarse Sand (0.5 to 1mm)				7.71	7	79.6 % Sand	
Very Coarse Sand (1 to 2mm)				ND			
Gravel (greater than 2mm)				ND			





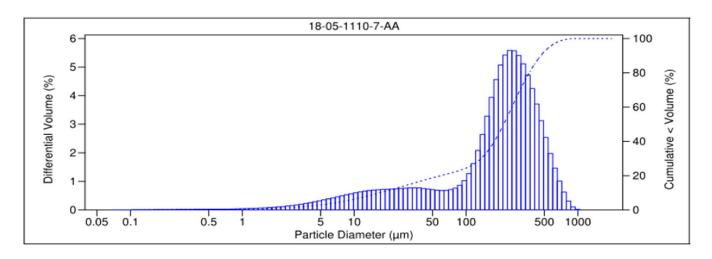
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	d Pacific Constructors, Inc.	Date Sampled:	04/30/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Proiect:	998-059.200 BALBOA COVES		Page 7 of 8

Sample ID	Depth ft	Description	Mean Grain Size mm
BALBOA COVE #4-DREDGING	-	Fine Sand	0.234

		Particle	e Size Distributio	n, wt by perce	ent			
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
0.00	0.01	7.71	33.93	30.35	7.61	18.24	2.15	20.39



V 3.0



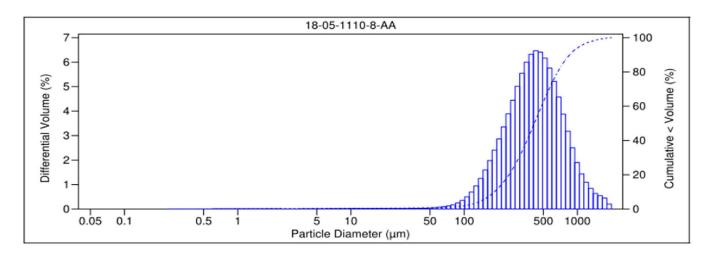
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	Pacific Constructors, Inc.	Date Sampled:	05/11/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Project:	998-059 200 BALBOA COVES		Page 8 of 8

	Sample ID	Depth ft	Description	Mean Grain Size mm
,	BALBOA COVE #4-REPLENISHMENT		Coarse Sand	0.588

	•	Particle	e Size Distributio	n, wt by perce	ent		•	
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
3.52	5.84	30.42	40.69	16.27	2.37	0.65	0.24	0.89



V 3.0



Glossary of Terms and Qualifiers

Work Order: 18-05-1110 Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

9 S											ರ	CHAIN
ø			Q) W					WO#/LAGUSEONL	ONLY	Ω	DATE:	
7440 L For con	7440 Lincom Way, Garden Grove, CA 92841-1427 • (714) 895-5494 For couner service / sample drop off information, contact us 25-seles@	1.1427 • (714) 8 alion, contact us2	95-5494 6_sales@eurofii	nsus.com of c	zall us.			52	18-05-1110	o.	PAGE:	
LABO	LABORATORY CLIENT ASSOCIATED PACIFIC CONSTRUCTORS	TED PACIF	ED PACIFIC CONSTRUCTORS	RUCTOF	કર			OLIENTRROUE 998-05	OLIENTPROJECT NUMBER 998-059 200 BALBOA COVES	O	ြ	/ES
ADDRESS	ress 2901 WES	ST COAST HIGHWAY, SUITE 374	HGHWAY,	SUITE 3	74			PROJECT CONTAC	lor.			
CITY	NEWPORT BEA	CH.		STATE: CA	ZIP 92663	33		JORGE TOMA:	JORGE TOMAS - 9492208387 - JTOMAS@ASSOCIATEDPACIFIC.COM	SSOCIA	TEDPACIF	FIC.COM
TEL 949	TEL 949-258-4410	E-MAIL JTOMAS@/	E-MAIL ITOMAS@ASSOCIATEDPACIFIC.COM	EDPACIF	IC.COM				RE	QUES	REQUESTED ANAL)	(NAL)
TURN	TURNAROUND TIME (Rush surcharges may apply	ly to any TAT not "SYANDARD"	ANDARD")						Please check box or fill in blank as needed.	ofill in bla	ank as ne	papa
Ö	OSAMEDAY O24HR 04	8 HR	□ 72 HR □ 5	0 5 DAYS [Z STANDARD	ARD						
ă	D COELT EDF GOBALID					FOG CODE	ŭ	iəseş a				
SPE	SPECIAL INSTRUCTIONS:							zič eloli				
<u>Q</u>	Please provide indivdual anaylsis report for each sample	port for each se	ımple.					hs4 (M)				
						pe/ erved	beneti	†9†† (
1.48		SAMPLING	JING	MATOLX	2.5	szeu bkez		I W I				
S CS	SAMPLE IS	DATE	TIME		CONT.			sv				
	BALBOA COVE#1 - DREDGING	4-30-2018	13.10	S	Ų			X				
N	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	,			×				
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S				×				
7	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S				l X				
7	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S				×				
	BALSOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S				×				
	7 BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S				×				
×	SALSOA COVE#4 - REPLENISHMENT	5-11-2018	13.20	S				×				

CHAIN OF CUSTODY RECORD 998-059.200 5-11-2018 SAMPLER(S): (PRINT) Ö

REQUESTED ANALYSES

06/02/14 Raviston

Dale:

Page 9 of 10

209

Received by: (Signature/Affiliation)

Received by: (Signature/Affiliation)

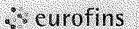
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Relinquished by: (Signature)

Reinquished by: (Signature)

Relinquished by (Signature

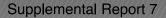
Return to Contents



WORK ORDER NUMBER: 18-05-10/9/10

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Calscience SAMPLE RECEIPT CHECKLIST (COOLER	
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	L. <u> </u>	11,2010
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)		
Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.8 °C;	□ Blank	☑ Sample
☐ Sample(s) outside temperature criteria (PM/APM contacted by:)		Office
☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling		
☐ Sample(s) received at ambient temperature; placed on ice for transport by courier		20-
Ambient Temperature	Checked	d by: <u>812 </u>
CUSTODY SEAL:		
Cooler ☐ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A	Checker	aby. <u>Go</u>
±/ '		d by: <u>1053</u>
Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A	<u> </u>	
SAMPLE CONDITION:	Yes	No N/A
Chain-of-Custody (COC) document(s) received with samples	ø	
COC document(s) received complete	. ਰ	
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers		
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished tim	e	· · ·
Sampler's name indicated on COC	🗆	
Sample container label(s) consistent with COC	. p/	
Sample container(s) intact and in good condition		
Proper containers for analyses requested		
Sufficient volume/mass for analyses requested		
Samples received within holding time		
Aqueous samples for certain analyses received within 15-minute holding time		
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen	🗆	
Proper preservation chemical(s) noted on COC and/or sample container	🛮	
Unpreserved aqueous sample(s) received for certain analyses		
□ Volatile Organics □ Total Metals □ Dissolved Metals		
Acid/base preserved samples - pH within acceptable range	D	o e/
Container(s) for certain analysis free of headspace.		
□ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500)		ļ
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)		/
Tedlar™ bag(s) free of condensation	., 🖾	
Tedia: bag(s) free or condendation		

□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen			Ø
Proper preservation chemical(s) noted on COC and/or sample container Unpreserved aqueous sample(s) received for certain analyses			ď
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range			Ø
Container(s) for certain analysis free of headspace.			Ø
□ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			/
Fedlar™ bag(s) free of condensation			Ø
CONTAINER TYPE: (Trip Blank Lot Numbe		620060000000000000000000000000000000000	
Aqueous: VOA VOAh VOAna2 100PJ 100PJna2 125AGB 125AGBh 125AGBp 125Pl 250AGB 250CGB 250CGBs (pH_2) 250PB 250PBn (pH_2) 1500AGB 500AGJ 600 60	Js (pH 、	_2) □ 500 □)PB
1AGB	ם ቫ ወ፤	B	
Container: $A = Amber$, $B = Bottle$, $C = Clear$, $E = Envelope$, $G = Glass$, $J = Jar$, $P = Plastic$, and $Z = Ziploc/Reservative$. $b = buffered$, $f = filtered$, $h = HCl$, $n = HNO_3$, $na = NaOH$, $na_2 = Na_2S_2O_3$, $p = H_3PO_4$. Labeled $s = H_2SO_4$, $u = ultra-pure$, $x = Na_2SO_3+NaHSO_4$. H_2O , $znna = Zn$ (CH_3CO_2) $_2 + NaOH$	t/Check	Bag led by: <u>//</u> red by:	<u>252</u> 228
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Calscience



WORK ORDER NUMBER: 18-05-1110

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Associated Pacific Constructors, Inc.

Client Project Name: 998-059.200 BALBOA COVES

Attention: Jorge Tomas

2901 West Coast Hwy

Suite 374

Newport Beach, CA 92663-4023

Hathleen M. Burney For

Approved for release on 05/25/2018 by:

Carla Hollowell Project Manager

ResultLink ▶

Email your PM >

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name:	998-0
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998-059.200 BALBOA COVES

Work Order Number: 18-05-1110

1	Work Order Narrative	3
2	Sample Summary	4
3	Client Sample Data	5
4	Particle Size Summary - 18-05-1110	6
5	Glossary of Terms and Qualifiers	14
6	Chain-of-Custody/Sample Receipt Form	15



Work Order Narrative

Work Order: 18-05-1110 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/11/18. They were assigned to Work Order 18-05-1110.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.





Sample Summary

Client: Associated Pacific Constructors, Inc.

2901 West Coast Hwy, Suite 374

Newport Beach, CA 92663-4023

Work Order:

Project Name:

PO Number:

Date/Time Received:

Number of

Containers:

18-05-1110

998-059.200 BALBOA COVES

05/11/18 16:02

8

Attn: Jorge Tomas

BALBOA COVE #4-REPLENISHMENT

Sample Identification Lab Number

18-05-1110-8

Collection Date and Time

Number of Containers Matrix

05/11/18 13:20 Sediment





Analytical Report

Associated Pacific Constructors, Inc.

Date Received:

Work Order:

18-05-1110

Newport Beach, CA 92663-4023

Preparation:

N/A

Method:

ASTM D4464 (M)

Units: %

Project: 998-059.200 BALBOA COVES

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BALBOA COVE #4-REPLENISHMENT	18-05-1110-8-AA	05/11/18 13:20	Sediment	LPSA 1	N/A	05/23/18 21:06	
<u>Parameter</u>				Result		<u>Qualifiers</u>	
Clay (less than 0.00391mm)				0.24			
Silt (0.00391 to 0.0625mm)				0.65			
Total Silt and Clay (0 to 0.0625mm)				0.89			
Very Fine Sand (0.0625 to 0.125mm)				2.37			
Fine Sand (0.125 to 0.25mm)				16.27			
Medium Sand (0.25 to 0.5mm)				40.69			
Coarse Sand (0.5 to 1mm)				30.42			
Very Coarse Sand (1 to 2mm)				5.84			
Gravel (greater than 2mm)				3.52	95.59%	sand	





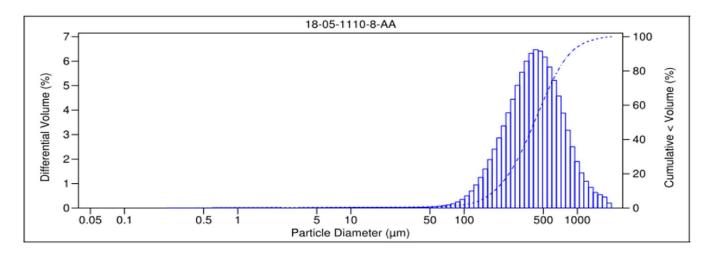
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated	Pacific Constructors, Inc.	Date Sampled:	05/11/18
		Date Received:	05/11/18
		Work Order No:	18-05-1110
		Date Analyzed:	05/23/18
		Method:	ASTM D4464M
Project:	998-059 200 BALBOA COVES		Page 8 of 8

	Sample ID	Depth ft	Description	Mean Grain Size mm
,	BALBOA COVE #4-REPLENISHMENT		Coarse Sand	0.588

	•	Particle	e Size Distributio	n, wt by perce	ent			
	Very				Very			Total
Total	Coarse	Coarse	Medium	Fine	Fine			Silt &
Gravel	Sand	Sand	Sand	Sand	Sand	Silt	Clay	Clay
3.52	5.84	30.42	40.69	16.27	2.37	0.65	0.24	0.89



V 3.0



Glossary of Terms and Qualifiers

Work Order: 18-05-1110 Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

e reported on a wet weight basis.

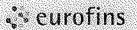
Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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140 Lift	40 Lincoln Way, Garden Grove, CA 92841-1427 • (7)	• (714) 895-5494 ontact us26 sales@eurof	insus.com of	call us.			18-05-1110	PAGE:	1 OF		r
ABOR	ABORATORY CLENT ASSOCIATED PACIFIC CONSTRUCTORS	SIFIC CONST	RUCTO	RS		© ©)	OLIENTPROJECTION/INSTRUCTION COVES 998-059,200 BALBOA COVES	OA COVES	P.O. NO	998-059.200	
ADDRESS.	.ss. 2901 WEST COAST HIGHWAY, SUITE	T HIGHWAY,	SUITE	374		1 0-	PROJECT CONTACT		SAMPLE		
ÇIII.	NEWPORT BEACH		STATE	ZIP 92663	53	¥	JORGE TOMAS - 9492208387 - JTOMAS@ASSOCIATEDPACIFIC,COM	SOCIATEDPACIFIC.COM			
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0 Ŭ 3 □			2		E CODE						
SPECIFICAL PIERS	secdar instructions: Please provide indivdual anayisis report for each samole	h samble.					Sič atorins9 (M),b8t				
LAB		SAMPLING		ON	servec kesen	əlli∓ b					
USE	SAMPLEID	TIME	MATRIX	CONT.							
	BALBOA COVE#1 - DREDGING 4-30-2018	8 13.10	S			×					
Λ	BALBOA COVE #1 - REPLENISHMENT 5-11-2018	8 12.45	S	1		×					
~	BALBOA COVE #2 - DREDGING 4-30-2018	8 13.20	S	ŀ		×					
4	BALBOA COVE #2 - REPLENISHMENT 5-11-2018	8 13.00	S			×					
4	BALBOA COVE #3 - DREDGING 4-30-2018	8 13.30	S	1		×					
1	BALBOA COVE #3 - REPLENISHMENT 5-11-2018	8 13.10	တ	·		×					NAVA
1	BALBOA COVE #4- DREDGING 4-30-2018	13.40	S	•		×					
∞	BALBOA COVE#4: REPLENISHMENT 5-11-2018	13.20	S			×					
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06/02/14 Revision



WORK ORDER NUMBER: 18-05-9 9 100

Calscience

SAMPLE RECEIPT CHECKLIST

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CLIENT: HISSOCIATED Pacific Linistructura	DATE: U5		2010
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue) Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.8 Sample(s) outside temperature criteria (PM/APM contacted by:) Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling temperature criteria.		k Ø	Śample
☐ Sample(s) received at ambient temperature; placed on ice for transport by courier Ambient Temperature. ☐ Air. ☐ Filter	Checke	ed hv	en
Ambient remperature. U.A.ii. U.T. inter			
CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact □ Not Present □ N/A Sample(s) □ Present and Intact □ Present but Not Intact □ Not Present □ N/A			<u>gr</u>
Sample(s) Diffesent and make Diffesent dut not make parties and account during the contract of			
SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	ø		
COC document(s) received complete	ப		□
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
□ No analysis requested □ Not relinquished □ No relinquished date □ No relinquished	time		
Sampler's name indicated on COC		Ø	
Sample container label(s) consistent with COC		O	
Sample container(s) intact and in good condition	ष्र∕्र		
Proper containers for analyses requested	ba/,		
Sufficient volume/mass for analyses requested	🗹	Ð	
Samples received within holding time			0
Aqueous samples for certain analyses received within 15-minute holding time			
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen	D		Ø
Proper preservation chemical(s) noted on COC and/or sample container	🛛	D	ď
Unpreserved aqueous sample(s) received for certain analyses			
□ Volatile Organics □ Total Metals □ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	D		ø,
Container(s) for certain analysis free of headspace.			Ø
□ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			/
Tedlar™ bag(s) free of condensation	🛮		Π.
	umber:		Y
CONTAINER TYPE: (Trip Blank Lot Ni Aqueous: U VOA U VOAna2 U 100PJ U 100PJna2 U 125AGB U 125A			
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH_2) ☐ 250PB ☐ 250PBn (pH_2) ☐ 500AGB ☐ 500AGJ ☐	500AGJs (pH	2) 🗆 5	00PB
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □		□	
□ 1AGB □ 1AGBna₂ □ 1AGBs (pH_2) □ 1AGBs (O&G) □ 1PB □ 1PBna (pH_12) □ Solid: □ 4ozCGJ □ 8ozCGJ □ 16ozCGJ □ Sleeve () □ EnCores® () □ TerraCores® () □ 25	<u>roz 1074"'')</u>	U_	
Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ Other Matrix (). ☐	🛮	O	
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziplo	ic/Resealable B	ag	
Preservative: $b = buffered$, $f = filtered$, $h = HCI$, $n = HNO_3$, $na = NaOH$, $na_2 = Na_2S_2O_3$, $p = H_3PO_4$.	abeled/Checke	ed by: _	<u> 105 1</u>
$s = H_2SO_4$, $u = ultra-pure$, $x = Na_2SO_3+NaHSO_4$, H_2O_7 , $znna = Zn (CH_3CO_2)_2 + NaOH$	Reviewe	ed by: _	<i>728</i>