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Sample Summary

Client:	Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023	Work Order:	18-05-1110
		Project Name:	998-059.200 BALBOA COVES
		PO Number:	
		Date/Time Received:	05/11/18 16:02
		Number of Containers:	8
Attn:	Jorge Tomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
BALBOA COVE #2-REPLENISHMENT	18-05-1110-4	05/11/18 13:00	1	Sediment

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Analytical Report

Associated Pacific Constructors, Inc.		Date Received:	05/11/18
2901 West Coast Hwy, Suite 374		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 #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

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

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PARTICLE SIZE SUMMARY

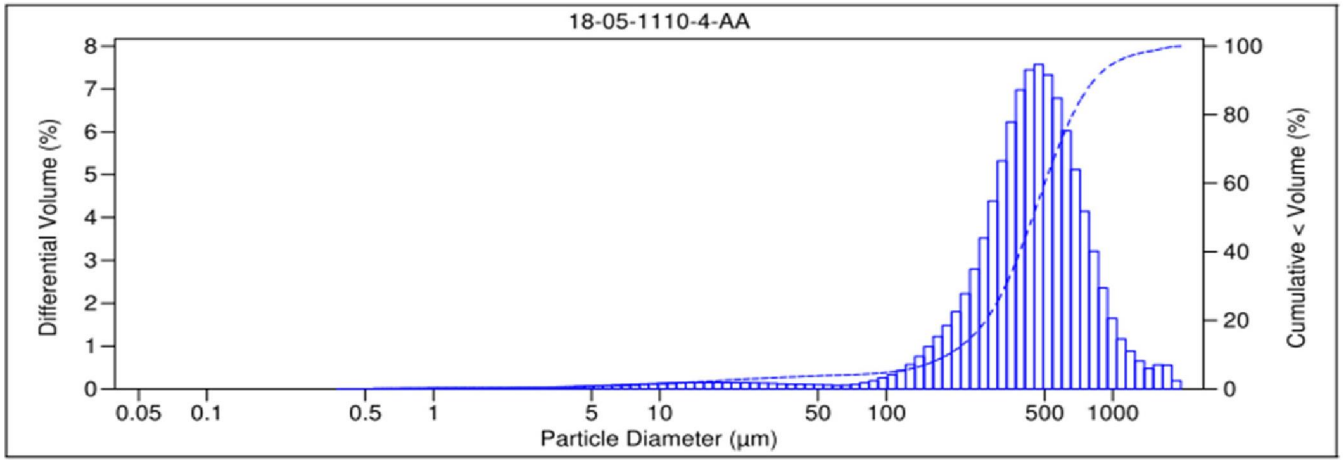
(ASTM D422 / D4464M)

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 4 of 8

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

Particle Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
0.00	5.22	34.93	43.25	10.84	1.72	3.48	0.55	4.03



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Glossary of Terms and Qualifiers

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

Qualifiers	Definition
*	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.
B	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.
X	% 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.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **18-05-1110**

DATE: 5-11-2018

PAGE: 1 OF 1

LABORATORY CLIENT: ASSOCIATED PACIFIC CONSTRUCTORS	CLIENT PROJECT NAME / NUMBER: 998-059.200 BALBOA COVES
ADDRESS: 2901 WEST COAST HIGHWAY, SUITE 374	P.O. NO.: 998-059.200
CITY: NEWPORT BEACH STATE: CA ZIP: 92663	PROJECT CONTACT: JORGE TOMAS - 9492206387 - JTOMAS@ASSOCIATEDPACIFIC.COM
TEL: 949-258-4410 E-MAIL: JTOMAS@ASSOCIATEDPACIFIC.COM	SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Please provide indivdual anaylsis report for each sample.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	ASTM D4464(M) Particle Size Laser
1	BALBOA COVE #1 - DREDGING	4-30-2018	13.10	S	1				X
2	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	1				X
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S	1				X
4	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S	1				X
5	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S	1				X
6	BALBOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S	1				X
7	BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S	1				X
8	BALBOA COVE #4 - REPLENISHMENT	5-11-2018	13.20	S	1				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 5/11/18	Time: 1602
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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WORK ORDER NUMBER: 18-05~~-0~~9 dpo

SAMPLE RECEIPT CHECKLIST

COOLER 1 **OF** 1

CLIENT: Associated Pacific Constructors

DATE: 05/11/2018

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 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ 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

Ambient Temperature: ☐ Air ☐ Filter Checked by: gw

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: gw

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
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	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
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	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ 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	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ 2802 (Full) ☐ _____ ☐ _____

(-1) (-3) (-5) (-7)

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____) ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1052

Reviewed by: TH

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Supplemental Report 4

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

Kathleen M. Burney FOR

Approved for release on 05/25/2018 by:
Carla Hollowell
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: 998-059.200 BALBOA COVES
Work Order Number: 18-05-1110

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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.

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Sample Summary

Client:	Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023	Work Order:	18-05-1110
		Project Name:	998-059.200 BALBOA COVES
		PO Number:	
		Date/Time Received:	05/11/18 16:02
		Number of Containers:	8
Attn:	Jorge Tomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
BALBOA COVE #3-DREDGING	18-05-1110-5	04/30/18 13:30	1	Sediment

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Analytical Report

Associated Pacific Constructors, Inc.		Date Received:	05/11/18
2901 West Coast Hwy, Suite 374		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 #3-DREDGING	**18-05-1110-5-AA**	**04/30/18 13:30**	**Sediment**	**LPSA 1**	**N/A**	**05/23/18 20:03**	

Parameter	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

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

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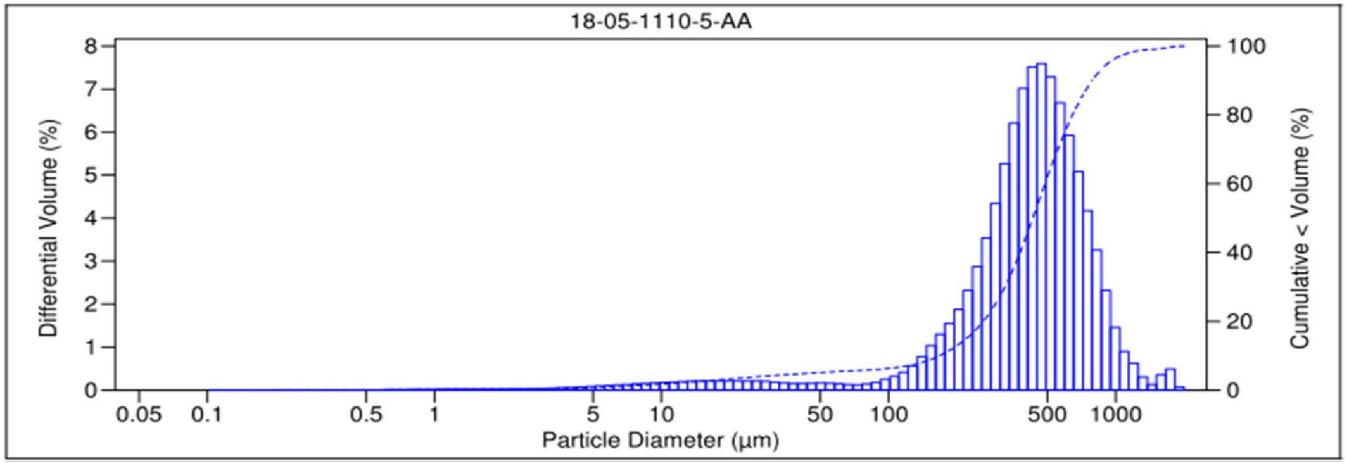
PARTICLE SIZE SUMMARY

(ASTM D422 / D4464M)

Associated 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 Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
0.00	3.56	34.58	43.30	11.29	1.75	4.90	0.62	5.52



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Glossary of Terms and Qualifiers

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

Qualifiers	Definition
*	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.
B	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.
X	% 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.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **18-05-1110**

DATE: 5-11-2018

PAGE: 1 OF 1

LABORATORY CLIENT: ASSOCIATED PACIFIC CONSTRUCTORS	CLIENT PROJECT NAME / NUMBER: 998-059.200 BALBOA COVES
ADDRESS: 2901 WEST COAST HIGHWAY, SUITE 374	P.O. NO.: 998-059.200
CITY: NEWPORT BEACH STATE: CA ZIP: 92663	PROJECT CONTACT: JORGE TOMAS - 9492206387 - JTOMAS@ASSOCIATEDPACIFIC.COM
TEL: 949-258-4410 E-MAIL: JTOMAS@ASSOCIATEDPACIFIC.COM	SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Please provide indivdual anaylsis report for each sample.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	ASTM D4464(M) Particle Size Laser
1	BALBOA COVE #1 - DREDGING	4-30-2018	13.10	S	1				X
2	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	1				X
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S	1				X
4	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S	1				X
5	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S	1				X
6	BALBOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S	1				X
7	BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S	1				X
8	BALBOA COVE #4 - REPLENISHMENT	5-11-2018	13.20	S	1				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 5/11/18	Time: 1602
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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WORK ORDER NUMBER: 18-05~~-0~~9 dpo

SAMPLE RECEIPT CHECKLIST

COOLER 1 **OF** 1

CLIENT: Associated Pacific Constructors

DATE: 05/11/2018

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 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ 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

Ambient Temperature: ☐ Air ☐ Filter Checked by: gw

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: gw

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
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	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
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	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ 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	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ 2802 (Full) ☐ _____ ☐ _____

(-1) (-3) (-5) (-7)

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____) ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1052

Reviewed by: TH

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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

Kathleen M. Burney FOR

Approved for release on 05/25/2018 by:
Carla Hollowell
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: 998-059.200 BALBOA COVES
Work Order Number: 18-05-1110

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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.

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Sample Summary

Client:	Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023	Work Order:	18-05-1110
		Project Name:	998-059.200 BALBOA COVES
		PO Number:	
		Date/Time Received:	05/11/18 16:02
		Number of Containers:	8
Attn:	Jorge Tomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
BALBOA COVE #3-REPLENISHMENT	18-05-1110-6	05/11/18 13:10	1	Sediment

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Analytical Report

Associated Pacific Constructors, Inc.		Date Received:	05/11/18
2901 West Coast Hwy, Suite 374		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 #3-REPLENISHMENT	**18-05-1110-6-AA**	**05/11/18 13:10**	**Sediment**	**LPSA 1**	**N/A**	**05/23/18 20:14**	

Parameter	Result	Qualifiers
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

Return to Contents

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

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PARTICLE SIZE SUMMARY

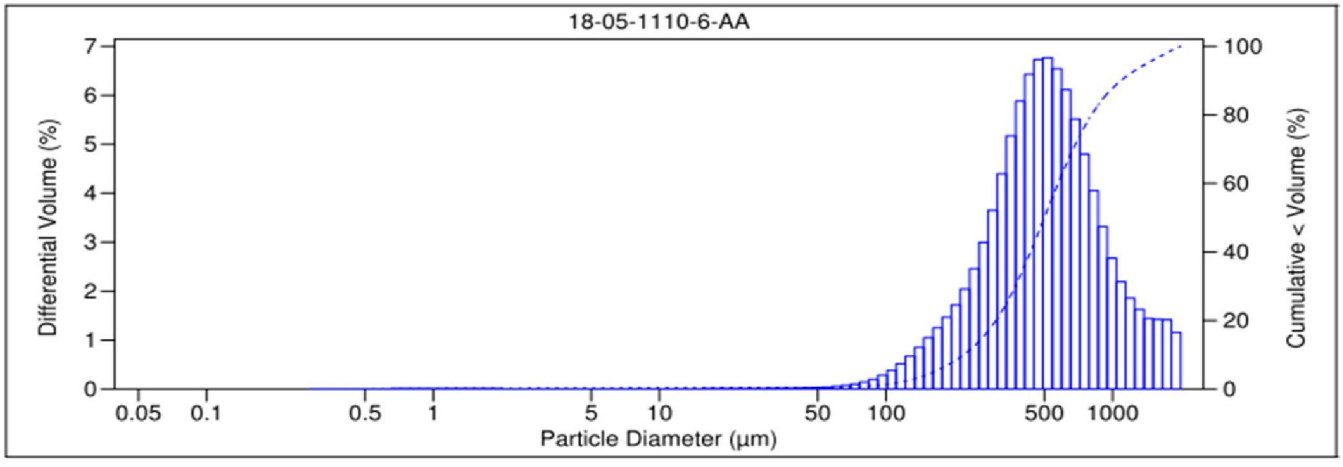
(ASTM D422 / D4464M)

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 Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
3.23	11.91	36.49	35.70	10.26	1.84	0.37	0.21	0.58



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Glossary of Terms and Qualifiers

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

Qualifiers	Definition
*	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.
B	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.
X	% 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.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **18-05-1110**

DATE: 5-11-2018

PAGE: 1 OF 1

LABORATORY CLIENT: ASSOCIATED PACIFIC CONSTRUCTORS	CLIENT PROJECT NAME / NUMBER: 998-059.200 BALBOA COVES
ADDRESS: 2901 WEST COAST HIGHWAY, SUITE 374	P.O. NO.: 998-059.200
CITY: NEWPORT BEACH STATE: CA ZIP: 92663	PROJECT CONTACT: JORGE TOMAS - 9492206387 - JTOMAS@ASSOCIATEDPACIFIC.COM
TEL: 949-258-4410 E-MAIL: JTOMAS@ASSOCIATEDPACIFIC.COM	SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Please provide indivdual anaylsis report for each sample.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	ASTM D4464(M) Particle Size Laser
1	BALBOA COVE #1 - DREDGING	4-30-2018	13.10	S	1				X
2	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	1				X
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S	1				X
4	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S	1				X
5	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S	1				X
6	BALBOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S	1				X
7	BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S	1				X
8	BALBOA COVE #4 - REPLENISHMENT	5-11-2018	13.20	S	1				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 5/11/18	Time: 1602
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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WORK ORDER NUMBER: 18-05~~-0~~9 dpo

SAMPLE RECEIPT CHECKLIST

COOLER 1 **OF** 1

CLIENT: Associated Pacific Constructors

DATE: 05/11/2018

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 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ 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

Ambient Temperature: ☐ Air ☐ Filter Checked by: gw

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: gw

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
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	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
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	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ 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	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ 2802 (Full) ☐ _____ ☐ _____

(-1) (-3) (-5) (-7)

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____) ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1052

Reviewed by: TH

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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

Kathleen M. Burney FOR

Approved for release on 05/25/2018 by:
Carla Hollowell
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: 998-059.200 BALBOA COVES
Work Order Number: 18-05-1110

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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.

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Sample Summary

Client:	Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023	Work Order:	18-05-1110
		Project Name:	998-059.200 BALBOA COVES
		PO Number:	
		Date/Time Received:	05/11/18 16:02
		Number of Containers:	8
Attn:	Jorge Tomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
BALBOA COVE #4-DREDGING	18-05-1110-7	04/30/18 13:40	1	Sediment

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Analytical Report

Associated Pacific Constructors, Inc.		Date Received:	05/11/18
2901 West Coast Hwy, Suite 374		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-DREDGING	**18-05-1110-7-AA**	**04/30/18 13:40**	**Sediment**	**LPSA 1**	**N/A**	**05/23/18 20:48**	

Parameter	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	79.6 % Sand
Very Coarse Sand (1 to 2mm)	ND	
Gravel (greater than 2mm)	ND	

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

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PARTICLE SIZE SUMMARY

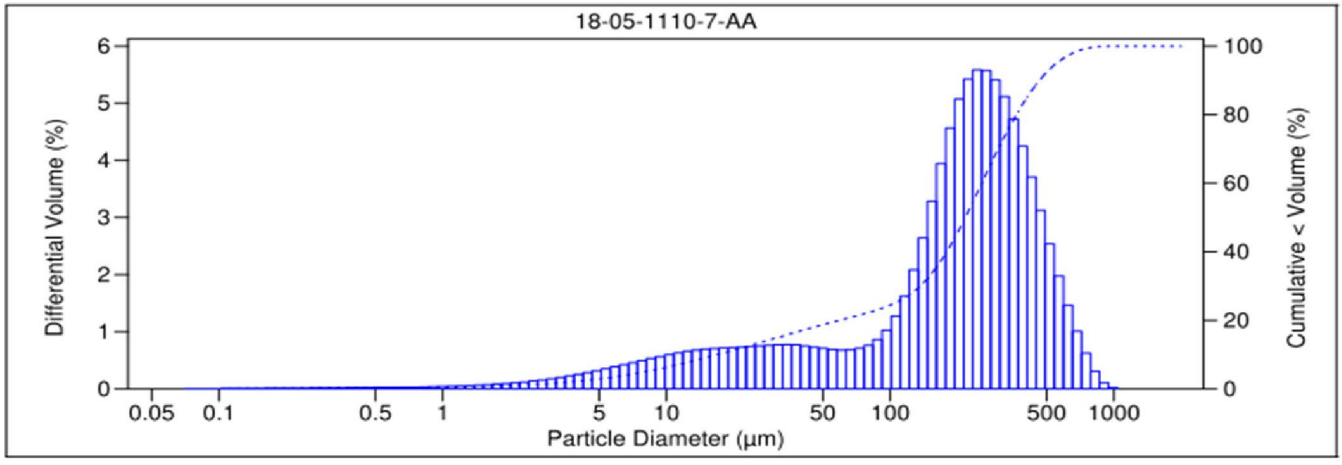
(ASTM D422 / D4464M)

Associated 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 7 of 8

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

Particle Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
0.00	0.01	7.71	33.93	30.35	7.61	18.24	2.15	20.39



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PARTICLE SIZE SUMMARY

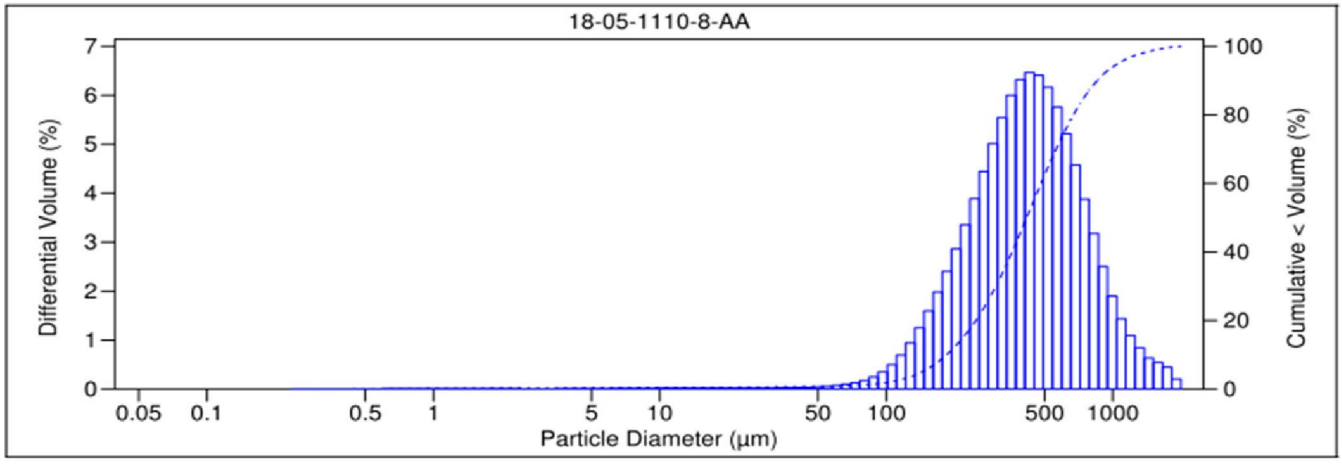
(ASTM D422 / D4464M)

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 Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
3.52	5.84	30.42	40.69	16.27	2.37	0.65	0.24	0.89



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Glossary of Terms and Qualifiers

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

Qualifiers	Definition
*	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.
B	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.
X	% 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.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **18-05-1110**

DATE: 5-11-2018

PAGE: 1 OF 1

LABORATORY CLIENT: ASSOCIATED PACIFIC CONSTRUCTORS	CLIENT PROJECT NAME / NUMBER: 998-059.200 BALBOA COVES
ADDRESS: 2901 WEST COAST HIGHWAY, SUITE 374	P.O. NO.: 998-059.200
CITY: NEWPORT BEACH STATE: CA ZIP: 92663	PROJECT CONTACT: JORGE TOMAS - 9492206387 - JTOMAS@ASSOCIATEDPACIFIC.COM
TEL: 949-258-4410 E-MAIL: JTOMAS@ASSOCIATEDPACIFIC.COM	SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Please provide indivdual anaylsis report for each sample.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	ASTM D4464(M) Particle Size Laser
1	BALBOA COVE #1 - DREDGING	4-30-2018	13.10	S	1				X
2	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	1				X
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S	1				X
4	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S	1				X
5	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S	1				X
6	BALBOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S	1				X
7	BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S	1				X
8	BALBOA COVE #4 - REPLENISHMENT	5-11-2018	13.20	S	1				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 5/11/18	Time: 1602
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 18-05~~-0000~~10/9/10

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Associated Pacific Constructors

DATE: 05/11/2018

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 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ 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

Ambient Temperature: ☐ Air ☐ Filter Checked by: BR

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
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	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
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	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ 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	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ 2802 (2) ☐ _____ ☐ _____

(-1) (-3) (-5) (-7)

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____) ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1052

Reviewed by: TH

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Supplemental Report 7

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

Kathleen M. Burney FOR

Approved for release on 05/25/2018 by:
Carla Hollowell
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: 998-059.200 BALBOA COVES
Work Order Number: 18-05-1110

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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.

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Sample Summary

Client:	Associated Pacific Constructors, Inc. 2901 West Coast Hwy, Suite 374 Newport Beach, CA 92663-4023	Work Order:	18-05-1110
		Project Name:	998-059.200 BALBOA COVES
		PO Number:	
		Date/Time Received:	05/11/18 16:02
		Number of Containers:	8
Attn:	Jorge Tomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
BALBOA COVE #4-REPLENISHMENT	18-05-1110-8	05/11/18 13:20	1	Sediment

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Analytical Report

Associated Pacific Constructors, Inc.		Date Received:	05/11/18
2901 West Coast Hwy, Suite 374		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**	

Parameter	Result	Qualifiers
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

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

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PARTICLE SIZE SUMMARY

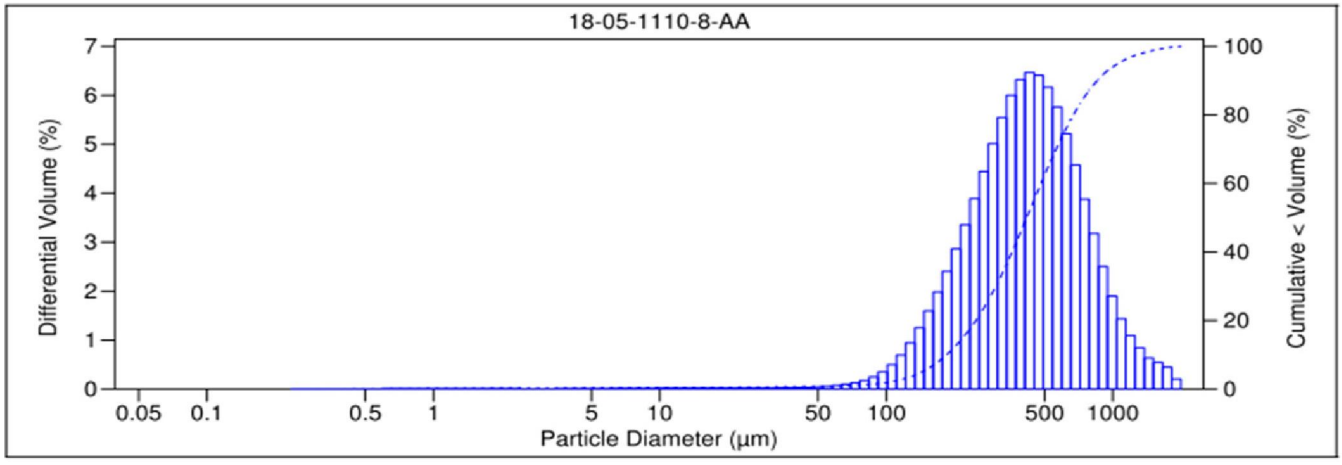
(ASTM D422 / D4464M)

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 Size Distribution, wt by percent								
Total Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Total Silt & Clay
3.52	5.84	30.42	40.69	16.27	2.37	0.65	0.24	0.89



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Glossary of Terms and Qualifiers

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

Qualifiers	Definition
*	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.
B	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.
X	% 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.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **18-05-1110**

DATE: 5-11-2018

PAGE: 1 OF 1

LABORATORY CLIENT: ASSOCIATED PACIFIC CONSTRUCTORS	CLIENT PROJECT NAME / NUMBER: 998-059.200 BALBOA COVES
ADDRESS: 2901 WEST COAST HIGHWAY, SUITE 374	P.O. NO.: 998-059.200
CITY: NEWPORT BEACH STATE: CA ZIP: 92663	PROJECT CONTACT: JORGE TOMAS - 9492206387 - JTOMAS@ASSOCIATEDPACIFIC.COM
TEL: 949-258-4410 E-MAIL: JTOMAS@ASSOCIATEDPACIFIC.COM	SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Please provide indivdual anaylsis report for each sample.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	ASTM D4464(M) Particle Size Laser
1	BALBOA COVE #1 - DREDGING	4-30-2018	13.10	S	1				X
2	BALBOA COVE #1 - REPLENISHMENT	5-11-2018	12.45	S	1				X
3	BALBOA COVE #2 - DREDGING	4-30-2018	13.20	S	1				X
4	BALBOA COVE #2 - REPLENISHMENT	5-11-2018	13.00	S	1				X
5	BALBOA COVE #3 - DREDGING	4-30-2018	13.30	S	1				X
6	BALBOA COVE #3 - REPLENISHMENT	5-11-2018	13.10	S	1				X
7	BALBOA COVE #4 - DREDGING	4-30-2018	13.40	S	1				X
8	BALBOA COVE #4 - REPLENISHMENT	5-11-2018	13.20	S	1				X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 5/11/18	Time: 1602
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 18-05~~-0~~9 dpo

SAMPLE RECEIPT CHECKLIST

COOLER 1 **OF** 1

CLIENT: Associated Pacific Constructors

DATE: 05/11/2018

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 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ 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

Ambient Temperature: ☐ Air ☐ Filter Checked by: gw

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: gw

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
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	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
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	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ 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	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☑ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ 2802 (Full) ☐ _____ ☐ _____

(-1) (-3) (-5) (-7)

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____) ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1052

Reviewed by: TH