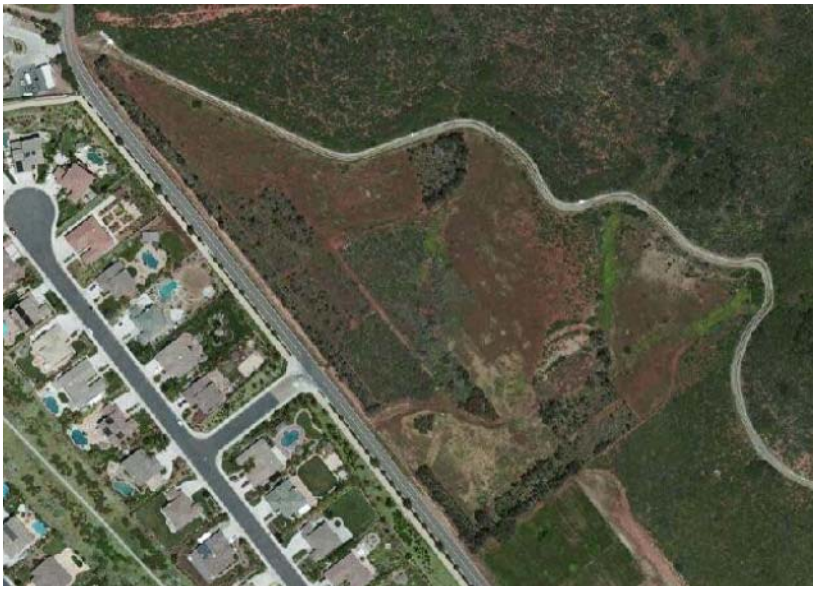
PHASE II ENVIRONMENTAL SITE ASSESSMENT
Undeveloped Land (Proposed Orchard Hills Residential Tract)
Richland Road (Approximately 1000 and 1100 blocks [odd])
San Marcos, California



C2C Project Number: 2012-118

Prepared for:

Northstar Pacific Partners, Inc.
on behalf of
Bank of the West
2527 Camino Ramon, NC-B07-1B-L
San Ramon, California 94583

Prepared by:

Coast 2 Coast Environmental, Inc.
13964 Boquita Drive
Del Mar, California 92014
(619) 889-6232
C2CEnvironmental@AOL.com

December 17, 2012

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1.0 INTRODUCTION

1.1 Purpose

Coast 2 Coast Environmental, Inc. (Coast 2 Coast) performed a Phase II Environmental Site Assessment of an undeveloped lot located on Richland Road (Approximately 1000 and 1100 blocks [odd]), San Marcos, San Diego County, California on November 30, 2012 (see Figure 1). The assessment was performed under contract with Northstar Pacific Partners, Inc. on behalf of Bank of the West. Coast 2 Coast's proposal, dated November 15, 2012, was accepted by C. Blair Pruett, Principal of Northstar Pacific Partners, Inc. on behalf of Bank of the West, on November 26, 2012.

During a Phase I ESA completed in March 2010 by Coast 2 Coast Environmental (C2C Project #2010-031), a review of historic aerial photographs depict the southwestern half of the Property as being used for agricultural row crops between 1928/29 and the mid-1960s. The Property did not appear to have a specific use from the mid-1960s until 1996. In 1996 the entire site appeared to have been cleared and planted with trees and possibly plants in containers as a commercial landscape nursery. This use appeared to have continued until approximately 2005 or 2006. Plans to develop a subdivision on the Property known as Orchard Hills were submitted to the County of San Diego Department of Planning and Land Use (DPLU) in March 2007 and again in January 2012.

The purpose of this Phase II ESA was to investigate possible environmental impairment to the Property associated with the past use of agricultural pesticides and herbicides. Methods employed in this assessment included installing five borings using a direct push soil probe or hand auguring and then analyzing selected soil samples.

1.2 User Reliance

This report has been prepared on behalf of, and for the exclusive use of Northstar Pacific Partners, Inc. on behalf of Bank of the West. The contents of this report may not be relied upon by any party other than the aforementioned client without the express written consent of Coast 2 Coast Environmental, Inc.

2.0 SITE GEOLOGY AND HYDROLOGY

2.1 Geology

The Property lies within the Central Mountain-Valley Physiographic Region in San Diego County. This area is bounded by the Coastal Plain section on the west and by the Elsinore fault zone and the drainage divide of the San Diego Region on the east. The valley floors in this region are underlain by at least 100 feet of residuum which may be covered in part by a relatively thin cover of alluvial sediments. The Property is underlain by Cretaceous-age rocks (San Marcos grabbo) which are described as massive, coarse-grained, dark-gray and black biotite-hornblende-hypersthene gabbro. (*Geologic Map of the Oceanside 30x60-minute Quadrangle*, Kennedy, Tan, et al, 2007)

Soils encountered during drilling were generally consistent from boring to boring and consisted of a surface layer of reddish-brown, non-plastic clay containing gravel or rocks up to two inches in diameter, underlain by gravelly to sandy, greenish clay. The lower unit was for the most part very dry and powdery, which prevented the recovery of soil samples from the planned depth of 5 feet in hand auger borings B-3 and B-4. The lower unit had a somewhat different appearance in B-5, being more sandy and less dry and powdery; consequently, sampling at the full planned depth of 5 feet was feasible at this location.

2.2 Hydrology

The Property is in the Richland Hydrologic Subunit of the San Marco Hydrologic Area of the Carlsbad Hydrologic Unit of the San Diego Hydrologic Basin (904.52). The groundwater within the Richland Hydrologic Subunit is listed as having beneficial uses for municipal, agricultural and industrial purposes by the San Diego Region California Regional Water Quality Control Board (SDRWQCB) [SDRWQCB Basin Plan, 1994, amended 1995). Data on groundwater depth in the Property area was not found.

3.0 SUBSURFACE INVESTIGATION

3.1 Permitting and Utilities Clearance

On November 27, 2012, Coast 2 Coast contacted Underground Service Alert for Southern California and requested a markout of underground utilities on the Property (Ticket #A23321266). On November 30, 2012, Coast 2 Coast observed that the proposed boring locations had been cleared by the utility companies.

A permit to install soil borings was not required from the County of San Diego Department of Environmental Health (DEH) because groundwater was not expected to be encountered during sampling activities.

3.2 Drilling and Sampling

On November 30, 2012, Coast 2 Coast performed a subsurface investigation on the Property using a direct push soil probe and hand auguring to collect samples from five borings. Coast 2 Coast contracted with H&P Mobile Geochemistry, Inc. to perform the probing and sampling. The drilling was overseen by Robert Olsen, P.G., R.E.A. II of AECOM Technology Corporation, under subcontract to Coast 2 Coast. The locations of the borings were placed so as to avoid intersection with buried utility lines. Coast 2 Coast's protocols for the probing and sampling are presented in Appendix B.

The probing and soil sampling were performed as follows:

1. The borings were placed so as to obtain representative samples of the soils in the southwestern part of the Property, where the historical agricultural activities took place. The locations of the borings are shown on an aerial photograph in Appendix A. GPS coordinates for the samples are as follows:

	Latitude	Longitude
Boring 1 (B1)	N 33.16248	W 117.1439
Boring 2 (B2)	N 33.1624	W 117.1429
Boring 3 (B3)	N 33.16298	W 117.1441
Boring 4 (B4)	N 33.16357	W 117.1443
Boring 5 (B5)	N 33.1639	W 117.1451

2. Borings 1 and 2 were advanced using hollow stainless steel rods equipped with a 1 3/8-inch probe bit. All rod sections and probe bits were decontaminated between borings in order to prevent cross-contamination. Soil samples were collected with using a Geoprobe® sampler lined with acetate sleeves. At the point on the sleeve corresponding to the appropriate depth, a six-inch portion of the sleeve was cut out, sealed with a plastic cap and appropriately labeled.

3. Due to access limitations (i.e. the access road through the center of the Property was blocked by a pile of soil) the rig-mounted Geoprobe® sampler was not available for Borings 3, 4 and 5. Those three borings were advanced using a hand auger equipped with a 2-inch bucket. All rod sections and buckets were decontaminated between borings in order to prevent cross-contamination. Soil samples were collected using a two-inch core sampler and transferred into glass jars which were immediately capped and labeled.

4. The soil samples were immediately placed on ice and delivered the same day to Calscience Laboratories of Garden Grove, California, a state-certified analytical testing laboratory, using standard sample-preservation and chain-of-custody protocols. The analytical results are presented in Section 3.3. The Chain of Custody log and the laboratory report are included in Appendix D.

5. A log of the subsurface exploration (boring log) was compiled by the geologist in the field for each of the soil borings. The log contains observations of soil types and conditions, indications of contamination, and other pertinent information. The soil boring logs are presented in Appendix C.

6. Indications of contamination, such as staining or odors, were not identified in the soil samples.

3.3 Analytical Results

Analytical Methods

The soil samples from all five borings were analyzed for RCRA 8 Metals by USEPA method 6010B, organochlorine pesticides by USEPA 8081A and chlorinated herbicides by USEPA method 8151A.

Summary of Results

The laboratory report of the analytical testing is presented in Appendix D. Table 1 includes the soil sample concentrations for metals expressed in mg/kg (milligrams per kilogram), and organochlorine pesticides (OCPs) and chlorinated herbicides (Herbs) expressed in µg/kg (micrograms per kilogram).

TABLE 1
ANALYTICAL RESULTS FROM SOIL SAMPLING

Sample No.	OCPs (µg /kg)	Herbs (µg /kg)	As[1] (mg/kg)	Ba[1] (mg/kg)	Cr[1] (mg/kg)	Pb[1] (mg/kg)	Se[1] (mg/kg)	Cd, Hg, Ag (mg/kg)
B1-2	All BDL	All BDL	BDL	45.4	25.0	2.29	0.806	All BDL
B1-5	All BDL	All BDL	BDL	42.0	11.3	0.604	1.15	All BDL
B2-2	All BDL	All BDL	BDL	60.1	47.2	11.0	1.52	All BDL
B2-5	All BDL	All BDL	BDL	15.4	113	1.09	BDL	All BDL
B3-2	All BDL	All BDL	BDL	57.0	9.64	2.34	0.891	All BDL
B3-3	All BDL	All BDL	BDL	74.1	5.59	1.56	ND	All BDL
B4-2	All BDL	All BDL	BDL	39.2	13.8	1.84	BDL	All BDL
B4-4	All BDL	All BDL	BDL	20.6	2.98	1.28	0.762	All BDL
B5-2	All BDL	All BDL	1.43	81.4	51.2	3.48	BDL	All BDL
B5-5	All BDL	All BDL	BDL	17.7	14.0	1.39	BDL	All BDL

BDL Below detection levels for the analytical method. Refer to laboratory report in Appendix D for the method detection limits for each analyzed constituent.

1 Preliminary Remediation Goals (PRGs) established by USEPA Region IX for metals in soils for residential use include 0.39 mg/kg for arsenic, 5,400 mg/kg for barium (Ba), 210 mg/kg for chromium (Cr), 150 mg/kg for lead (Pb) and 390 mg/kg for selenium (Se).

3.4 Conclusions

Organochlorine pesticides and chlorinated herbicides were not detected in the soil samples.

Barium, chromium and lead were detected in various concentrations in the soil samples but none of the results were above the PRGs for these metals. (See footnote 1 to Table 1 for PRGs for these metals.) Arsenic was detected in one sample (B5-2) above its PRG of 0.39 mg/kg. Although this value is above the PRG it is within the documented range of natural concentrations for California (Bradford, G.R. et al, *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation Special Report, University of California, Riverside, March 1996). The presence of arsenic in the shallow soils at this Property therefore does not appear to be of significant concern.

4.0 RECOMMENDATIONS

Based upon our review of the information presented in the report, and our resulting conclusions, we recommend the following:

- It is our opinion that further environmental investigation of this property is not warranted at this time.

5.0 QUALIFICATIONS

Coast 2 Coast's professional services were performed, findings obtained and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. Coast 2 Coast is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and/or laboratory data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Subsequent field investigations may differ from the conditions defined by this investigation. Additionally, the passage of time may result in a change in the environmental characteristics at this site.

It must be noted that no investigation can absolutely rule out the existence of any hazardous materials at a given site. This assessment was based upon prior site history and observable conditions and activities. Existing hazardous materials and contaminants can escape detection using these methods.

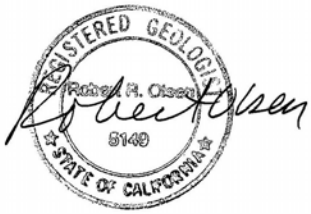
The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and location given. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

Respectfully submitted,

Coast 2 Coast Environmental

Marybeth Norgren
Principal

Reviewed by,



Robert R. Olsen, R.G. 5149
Senior Project Geologist

APPENDIX A

FIGURES

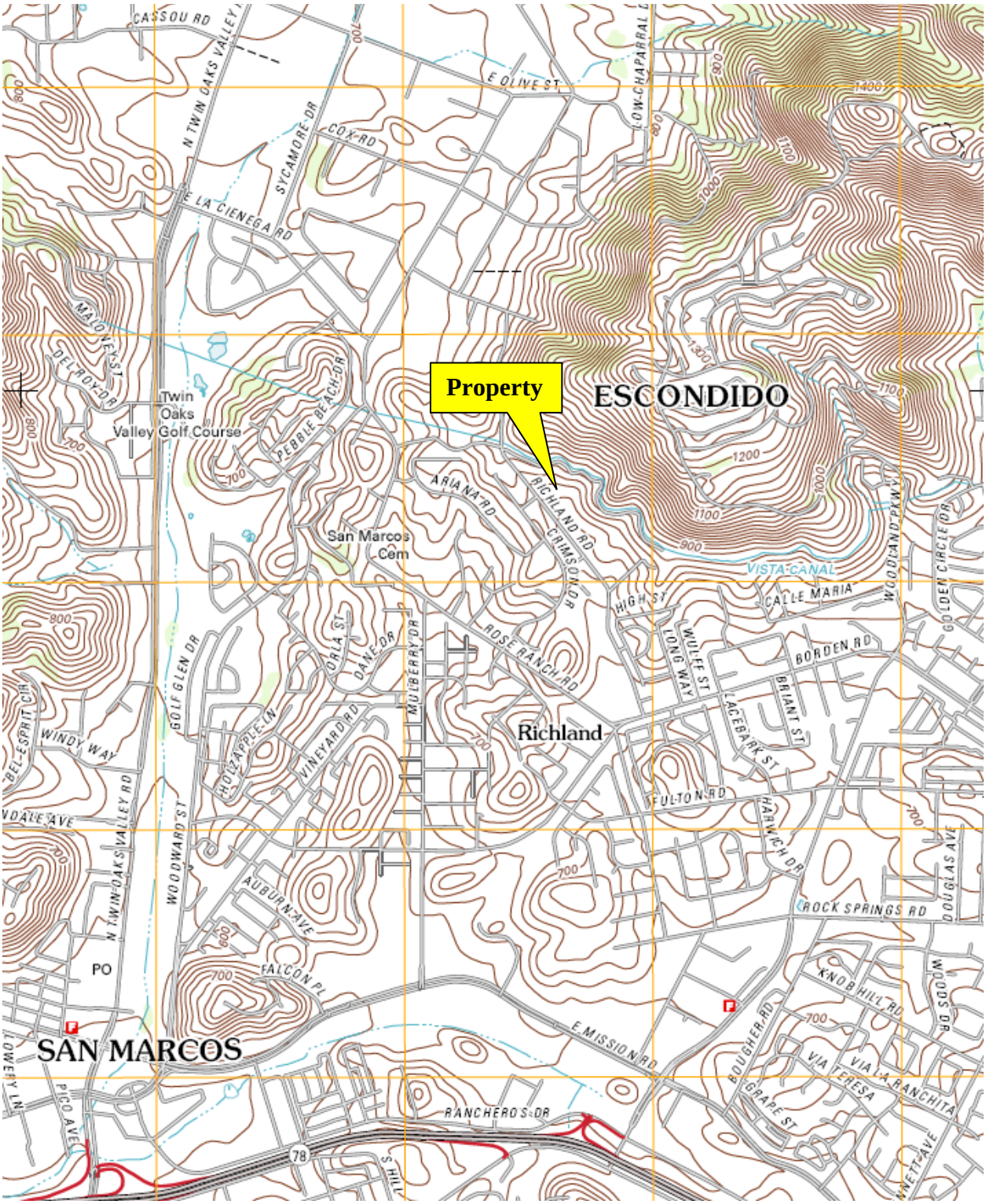


FIGURE 1 - SITE LOCATION & TOPOGRAPHIC MAP	North
USGS 7.5 Minute Quad Names: San Marcos, California	
Scale: 1″ = 2,000′ Edition: 2012	↑

FIGURE 2 - PROPERTY PLAN	North	Legend: **B#** = Boring Number
Approximate Scale: 1″ = 200′	↑	

APPENDIX B

FIELD PROTOCOLS

BORING AND SOIL SAMPLING PROTOCOL - SOIL PROBING

The following procedures are followed during soil-sampling operations utilizing soil-probing techniques:

1. 1.375-inch diameter stainless-steel rods four feet long are used to drill soils.

2. Steel rods, sampling tools, and all associated downhole equipment are decontaminated prior to use and between borings to minimize the potential for cross-contamination.

3. All drilling work, visual logging of soils, and sample collection will be performed by or under the supervision of a Registered Geologist or Professional Engineer.

4. The Unified Soils Classification System (USCS) is used to classify soils encountered. The textural and compositional makeup of the soils is determined.

5. Soil samples are collected with a probe driven into the soil by the probing equipment. The sampling probe is equipped with a decontaminated inner sleeve which retains the soil sample; the sleeve consists either of a 24-inch length of acetate tubing, or four 6-inch brass tubes. When acetate is used, a six-inch section of the tube is cut out using a knife.

6. Sampling tubes are pre-cleaned by hand washing with brush and Alconox® or equivalent cleaning solution.

7. Used tubes are field washed in Alconox®, or equivalent, and rinsed in clean tap water prior to re-use.

8. After recovered soil-sample tubes are removed from the sampler, the sampler is completely disassembled and brush scrubbed in an Alconox®, or equivalent, wash. The sampler components are then rinsed in two separate tap water baths and reassembled with clean tubes.

9. Soils from each downhole sample interval are visually logged and described on boring logs by the on-site geologist. The soil-sample tube for laboratory analysis is processed by immediately capping the tube ends with teflon- or foil-lined plastic caps and labeled.

10. The processed soil-sample tubes are maintained on site in clean ice chests chilled by ice or chemical ice ("blue ice") to an approximate temperature of 4ºC until delivery to the analytical laboratory, unless an on-site laboratory is utilized where samples are analyzed immediately. A thermometer with a protected bulb is carried in each ice chest.

11. When possible, the soil samples are delivered to the analytical laboratory the same day they were collected. Otherwise, samples are maintained in a refrigerated condition at 4ºC for next-day delivery.

12. Sample control is maintained by completed Chain of Custody forms which accompany all samples to the analytical laboratory. These forms document the time, date, and responsible person during each step in the transportation process.

13. Borings are backfilled to surface level.

BORING AND SOIL SAMPLING PROTOCOL – HAND AUGER

The following procedures are followed during soil-sampling operations a hand auger:

1. Two-inch diameter stainless-steel rods, three feet long are used to drill soils.

2. Steel rods, sampling tools, and all associated downhole equipment are decontaminated prior to use and between borings to minimize the potential for cross-contamination.

3. All drilling work, visual logging of soils, and sample collection will be performed by or under the supervision of a Registered Geologist or Professional Engineer.

4. The Unified Soils Classification System (USCS) is used to classify soils encountered. The textural and compositional makeup of the soils is determined.

5. Soil samples are collected with a sampler driven into the soil by the hand auger. The sampling probe is equipped with a decontaminated inner sleeve which retains the soil sample; the sleeve consists of a 6-inch brass tube.

6. Sampling tubes are pre-cleaned by hand washing with brush and TSP® or equivalent cleaning solution.

7. Used tubes are field washed in TSP®, or equivalent, and rinsed in clean tap water prior to re-use.

8. After recovered soil-sample tubes are removed from the sampler, the sampler is completely disassembled and brush scrubbed in an TSP®, or equivalent, wash. The sampler components are then rinsed in two separate tap water baths and reassembled.

9. Soils from each downhole sample interval are visually logged and described on boring logs by the on-site geologist. The soil-sample tube for laboratory analysis is processed by immediately capping the tube ends with Teflon- or foil-lined plastic caps and labeled. Where appropriate soils sampled for non-volatile constituents are transferred to glass jars and labeled.

10. The processed soil-sample tubes or jars are maintained on site in clean ice chests chilled by ice or chemical ice ("blue ice") to an approximate temperature of 4ºC until delivery to the analytical laboratory, unless an on-site laboratory is utilized where samples are analyzed immediately. A thermometer with a protected bulb is carried in each ice chest.

11. When possible, the soil samples are delivered to the analytical laboratory the same day they were collected. Otherwise, samples are maintained in a refrigerated condition at 4ºC for next-day delivery.

12. Sample control is maintained by completed Chain of Custody forms which accompany all samples to the analytical laboratory. These forms document the time, date, and responsible person during each step in the transportation process.

13. Borings are backfilled to surface level and resurfaced as necessary with asphalt or cement.

APPENDIX C

BORING LOGS

SUB-SURFACE EXPLORATION LOG

Client: **Northstar Pacific Partners, Inc. on behalf of Bank of the West**

Project Description: Phase II Environmental Site Assessment Number: B-1

Project Location: Vacant Land, Richland Avenue, San Marcos, CA Sheet No: 1 of 1

DRILLING and SAMPLING INFORMATION

C2C Rep:	Drilling Company/Driller:	Project No.	Date:
Robert Olsen	H&P Mobile Geochemistry	2012-118	12/3/12

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia:	Surface Elevation:
11/30/12	11/30/12	Geoprobe	1.375"	N/A

Sample Log: **Borehole Log:**

Sample No:		Lab Results (Pesticides)	Time	Depth in Feet		USCS Symbol		Geologic Description (Soil type, color, grains, soil component, moisture, density, odor, etc.)
			0829	0				
				1		CL		Clay (CL), reddish brown, dense, stiff, with scattered sand grains, slightly moist, no odor or stain.
B-1-2		All ND	0830	2				
				3				
								Change at 3.5 ft.
				4		CL		Clay (CL), light green to light brown, loose, powdery, dry, sandy, no odor or stain.
B-1-5		All ND	0832	5				
								Total depth 5 feet; no groundwater, no odor or stain.

SUB-SURFACE EXPLORATION LOG

Client: **Northstar Pacific Partners, Inc. on behalf of Bank of the West**

Project Description: Phase II Environmental Site Assessment Number: B-2

Project Location: Vacant Land, Richland Avenue, San Marcos, CA Sheet No: 1 of 1

DRILLING and SAMPLING INFORMATION

C2C Rep:	Drilling Company/Driller:	Project No.	Date:
Robert Olsen	H&P Mobile Geochemistry	2012-118	12/3/12

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia:	Surface Elevation:
11/30/12	11/30/12	Geoprobe	1.375"	N/A

Sample Log: **Borehole Log:**

Sample No:		Lab Results (Pesticides)	Time	Depth in Feet		USCS Symbol		Geologic Description (Soil type, color, grains, soil component, moisture, density, odor, etc.)
			0838	0				
				1		CG		Clay (CG), light greenish brown, powdery, dry, with 20% coarse sand to fine-gravel, subangular, compact, no odor or stain.
B-2-2		All ND	0839	2				
				3				*Change to reddish brown color, 2.5 to 4 ft.: similar formation.*
				4				
						CL		Clay (CL), green, crumbly, slightly moist, slightly sandy, soft, no odor or stain.
B-2-5		All ND	0841	5				
								Total depth 5 feet; no groundwater, no odor or stain.

SUB-SURFACE EXPLORATION LOG

Client: **Northstar Pacific Partners, Inc. on behalf of Bank of the West**

Project Description: Phase II Environmental Site Assessment Number: B-3

Project Location: Vacant Land, Richland Avenue, San Marcos, CA Sheet No: 1 of 1

DRILLING and SAMPLING INFORMATION

C2C Rep:	Drilling Company/Driller:	Project No.	Date:
Robert Olsen	H&P Mobile Geochemistry	2012-118	12/3/12

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia:	Surface Elevation:
11/30/12	11/30/12	Hand auger	2"	N/A

Sample Log: **Borehole Log:**

Sample No:		Lab Results (Pesticides)	Time	Depth in Feet		USCS Symbol		Geologic Description (Soil type, color, grains, soil component, moisture, density, odor, etc.)
			0857	0				
				1		CG		Clay (CG), reddish brown, slightly crumbly, slightly moist, scattered small gravel (5%, to 1"), no odor or stain.
B-3-2		All ND	0858	2				
								Change at 2.5 ft.
B-3-3		All ND	0903	3		CS		Clay (CS), light reddish brown, dry, loose, running into hole, unable to sample below 3'.
								Total depth 3 feet; no groundwater, no odor or stain.

SUB-SURFACE EXPLORATION LOG

Client: **Northstar Pacific Partners, Inc. on behalf of Bank of the West**

Project Description: Phase II Environmental Site Assessment Number: B-4

Project Location: Vacant Land, Richland Avenue, San Marcos, CA Sheet No: 1 of 1

DRILLING and SAMPLING INFORMATION

C2C Rep:	Drilling Company/Driller:	Project No.	Date:
Robert Olsen	H&P Mobile Geochemistry	2012-118	12/3/12

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia:	Surface Elevation:
11/30/12	11/30/12	Hand auger	2"	N/A

Sample Log: **Borehole Log:**

Sample No:		Lab Results (Pesticides)	Time	Depth in Feet		USCS Symbol		Geologic Description (Soil type, color, grains, soil component, moisture, density, odor, etc.)
			0902	0				Clay (CL), reddish brown, loose, dry to slightly moist, with 25% rocks to 2" diameter, no odor or stain.
				1				*Change at 1.25 ft.*
						CL		
B-4-2		All ND	0905	2				Clay (CL), greenish tan, dry, powdery, 30% rocks to 2" diameter as above, loose, no odor or stain.
				3				
						CL		
B-4-4		All ND	0910	4				Unable to sample below 4 feet due to formation running into hole.
								Total depth 4 feet; no groundwater, no odor or stain.

SUB-SURFACE EXPLORATION LOG

Client: **Northstar Pacific Partners, Inc. on behalf of Bank of the West**

Project Description: Phase II Environmental Site Assessment Number: B-5

Project Location: Vacant Land, Richland Avenue, San Marcos, CA Sheet No: 1 of 1

DRILLING and SAMPLING INFORMATION

C2C Rep:	Drilling Company/Driller:	Project No.	Date:
Robert Olsen	H&P Mobile Geochemistry	2012-118	12/3/12

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia:	Surface Elevation:
11/30/12	11/30/12	Hand auger	2"	N/A

Sample Log: **Borehole Log:**

Sample No:		Lab Results (Pesticides)	Time	Depth in Feet		USCS Symbol		Geologic Description (Soil type, color, grains, soil component, moisture, density, odor, etc.)
			0916	0				
				1		CG		Clay (CG), reddish brown, slightly moist, ;loose, somewhat powdery, 10% rocks to 2" diameter, no odor or stain.
B-5-2		All ND	0918	2				
				3				
								Change at 4 ft.
				4				
						SC		Sand (SC), light greenish red, coarse to medium-grained, clayey, trace of gravel, soft, moist, no odor or stain.
B-5-5		All ND	0928	5				
								Total depth 5 feet; no groundwater, no odor or stain.

APPENDIX D

LABORATORY REPORT AND CHAIN OF CUSTODY

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-11-2026

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Coast 2 Coast Environmental

Client Project Name: Undeveloped Land / 2012-118

Attention: Marybeth Norgren
13964 Boquita Drive
Del Mar, CA 92014-3108

Approved for release on 12/11/2012 by:
Don Burley
Project Manager

ResultLink

Email your PM

Accredited in accordance with nelac

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC 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.

Calscience Environmental Laboratories, Inc.

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Work Order Number: 12-11-2026

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Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Undeveloped Land / 2012-118			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**12-11-2026-1-A**	**11/30/12 08:37**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 19:15**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	50-135		2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

B1-5	**12-11-2026-2-A**	**11/30/12 08:39**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 19:29**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: Undeveloped Land / 2012-118

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-2	**12-11-2026-3-A**	**11/30/12 08:46**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 15:54**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

B2-5	**12-11-2026-4-A**	**11/30/12 08:49**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 19:43**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

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Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**12-11-2026-5-A**	**11/30/12 08:57**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 16:09**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-3	**12-11-2026-6-A**	**11/30/12 09:01**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 19:58**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	50-135		2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

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Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**12-11-2026-7-A**	**11/30/12 09:08**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 20:12**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	50-135		2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

B4-4	**12-11-2026-8-A**	**11/30/12 09:14**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 20:26**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	50-135		2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

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Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**12-11-2026-9-A**	**11/30/12 09:18**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 20:41**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-5	**12-11-2026-10-A**	**11/30/12 09:23**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 20:55**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-135		2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

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Calscience Environmental Laboratories, Inc.

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Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Undeveloped Land / 2012-118			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1,300**	**N/A**	**Solid**	**GC 51**	**12/03/12**	**12/04/12 13:46**	**121203L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aldrin	ND	5.0	1		Endosulfan II	ND	5.0	1	
Alpha-BHC	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Beta-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Chlordane	ND	50	1		Endrin Aldehyde	ND	5.0	1	
4,4'-DDD	ND	5.0	1		Endrin Ketone	ND	5.0	1	
4,4'-DDE	ND	5.0	1		Gamma-BHC	ND	5.0	1	
4,4'-DDT	ND	5.0	1		Heptachlor	ND	5.0	1	
Delta-BHC	ND	5.0	1		Heptachlor Epoxide	ND	5.0	1	
Dieldrin	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Toxaphene	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135		2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

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Calscience Environmental Laboratories, Inc.

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Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 8151A
		Method:	EPA 8151A
		Units:	ug/kg

Project: Undeveloped Land / 2012-118

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**12-11-2026-1-A**	**11/30/12 08:37**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 19:03**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	99	30-130	

B1-5	**12-11-2026-2-A**	**11/30/12 08:39**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 19:29**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	124	30-130	

B2-2	**12-11-2026-3-A**	**11/30/12 08:46**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 19:54**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	130	30-130	

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Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 8151A
		Method:	EPA 8151A
		Units:	ug/kg
Project: Undeveloped Land / 2012-118			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-5	**12-11-2026-4-A**	**11/30/12 08:49**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 20:19**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	69	30-130	

B3-2	**12-11-2026-5-A**	**11/30/12 08:57**	**Solid**	**GC 40**	**12/05/12**	**12/11/12 13:39**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	56	30-130	

B3-3	**12-11-2026-6-A**	**11/30/12 09:01**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 21:10**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	89	30-130	

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Calscience Environmental Laboratories, Inc.

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Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 8151A
		Method:	EPA 8151A
		Units:	ug/kg

Project: Undeveloped Land / 2012-118

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-2	**12-11-2026-7-A**	**11/30/12 09:08**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 21:36**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	82	30-130	

B4-4	**12-11-2026-8-A**	**11/30/12 09:14**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 22:01**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	109	30-130	

B5-2	**12-11-2026-9-A**	**11/30/12 09:18**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 22:26**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	119	30-130	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 8151A
		Method:	EPA 8151A
		Units:	ug/kg
Project: Undeveloped Land / 2012-118			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-5	**12-11-2026-10-A**	**11/30/12 09:23**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 22:52**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	123	30-130	

Method Blank	**095-01-033-1,067**	**N/A**	**Solid**	**GC 40**	**12/05/12**	**12/10/12 17:47**	**121205L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
2,4-Dichlorophenylacetic acid	59	30-130	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B / EPA 7471A Total
		Method:	EPA 6010B / EPA 7471A
		Units:	mg/kg
Project: Undeveloped Land / 2012-118			Page 1 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-2	**12-11-2026-1-A**	**11/30/12 08:37**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:19**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:22 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	2.29	0.500	1	
Barium	45.4	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	0.806	0.750	1	
Chromium	25.0	0.250	1		Silver	ND	0.250	1	

B1-5	**12-11-2026-2-A**	**11/30/12 08:39**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:10**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:08 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	0.604	0.500	1	
Barium	42.0	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	1.16	0.750	1	
Chromium	11.3	0.250	1		Silver	ND	0.250	1	

B2-2	**12-11-2026-3-A**	**11/30/12 08:46**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:20**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:24 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	11.0	0.500	1	
Barium	60.1	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	1.52	0.750	1	
Chromium	47.2	0.250	1		Silver	ND	0.250	1	

B2-5	**12-11-2026-4-A**	**11/30/12 08:49**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:21**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:26 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	1.09	0.500	1	
Barium	15.4	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	ND	0.750	1	
Chromium	113	0.250	1		Silver	ND	0.250	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B / EPA 7471A Total
		Method:	EPA 6010B / EPA 7471A
		Units:	mg/kg
Project: Undeveloped Land / 2012-118			Page 2 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-2	**12-11-2026-5-A**	**11/30/12 08:57**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:22**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:29 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	2.34	0.500	1	
Barium	57.0	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	0.891	0.750	1	
Chromium	9.64	0.250	1		Silver	ND	0.250	1	

B3-3	**12-11-2026-6-A**	**11/30/12 09:01**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:23**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:31 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	1.56	0.500	1	
Barium	74.1	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	ND	0.750	1	
Chromium	5.59	0.250	1		Silver	ND	0.250	1	

B4-2	**12-11-2026-7-A**	**11/30/12 09:08**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:24**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:38 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	1.84	0.500	1	
Barium	39.2	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	ND	0.750	1	
Chromium	13.8	0.250	1		Silver	ND	0.250	1	

B4-4	**12-11-2026-8-A**	**11/30/12 09:14**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:28**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:40 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	1.28	0.500	1	
Barium	20.6	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	0.762	0.750	1	
Chromium	2.98	0.250	1		Silver	ND	0.250	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B / EPA 7471A Total
		Method:	EPA 6010B / EPA 7471A
		Units:	mg/kg
Project: Undeveloped Land / 2012-118			Page 3 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-2	**12-11-2026-9-A**	**11/30/12 09:18**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:29**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:42 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	1.43	0.750	1		Lead	3.48	0.500	1	
Barium	81.4	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	ND	0.750	1	
Chromium	51.2	0.250	1		Silver	ND	0.250	1	

B5-5	**12-11-2026-10-A**	**11/30/12 09:23**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:30**	**121205L01**

Comment(s): -Mercury analysis was performed on 12/05/12 15:44 with batch 121205L02.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	1.39	0.500	1	
Barium	17.7	0.500	1		Mercury	ND	0.0835	1	
Cadmium	ND	0.500	1		Selenium	ND	0.750	1	
Chromium	14.0	0.250	1		Silver	ND	0.250	1	

Method Blank	**099-04-007-9,019**	**N/A**	**Solid**	**Mercury**	**12/05/12**	**12/05/12 14:40**	**121205L02**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 7471A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-16,392**	**N/A**	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12 20:06**	**121205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Arsenic	ND	0.750	1		Lead	ND	0.500	1	
Barium	ND	0.500	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-5	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12**	**121205S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	25.00	26.41	106	25.69	103	75-125	3	0-20	
Barium	42.03	25.00	67.31	101	60.45	74	75-125	11	0-20	3
Cadmium	ND	25.00	24.92	100	24.12	96	75-125	3	0-20	
Chromium	11.35	25.00	37.34	104	36.18	99	75-125	3	0-20	
Lead	0.6037	25.00	26.13	102	25.04	98	75-125	4	0-20	
Selenium	1.162	25.00	24.98	95	24.99	95	75-125	0	0-20	
Silver	ND	12.50	12.98	104	12.53	100	75-125	4	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

Coast 2 Coast Environmental		Date Received	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
B1-5	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12**	**121205S01**

Parameter	SAMPLE CONC	SPIKE ADDED	PDS CONC	PDS %REC	PDSD CONC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	ND	25.00	26.00	104	24.73	99	75-125	5	0-20	
Barium	42.03	25.00	67.72	103	66.36	97	75-125	2	0-20	
Cadmium	ND	25.00	23.65	95	23.32	93	75-125	1	0-20	
Chromium	11.35	25.00	35.63	97	34.84	94	75-125	2	0-20	
Lead	0.6037	25.00	24.94	97	24.11	94	75-125	3	0-20	
Selenium	1.162	25.00	25.32	97	24.69	94	75-125	3	0-20	
Silver	ND	12.50	12.07	97	11.75	94	75-125	3	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-2	**Solid**	**Mercury**	**12/05/12**	**12/05/12**	**121205S02**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.6281	75	0.6296	75	71-137	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 8151A
		Method:	EPA 8151A

Project Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B4-4	**Solid**	**GC 40**	**12/05/12**	**12/11/12**	**121205S03**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	ND	400.0	322.0	80	267.9	67	30-130	18	0-30	
2,4,5-T	ND	40.00	19.90	50	16.40	41	30-130	19	0-30	
2,4-DB	ND	400.0	204.7	51	165.6	41	30-130	21	0-30	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Coast 2 Coast Environmental		Date Received:	11/30/12
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A

Project Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-11-2082-6	**Solid**	**GC 51**	**12/03/12**	**12/04/12**	**121203S09**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.36	85	21.56	86	50-135	1	0-25	
Alpha-BHC	ND	25.00	20.49	82	21.50	86	50-135	5	0-25	
Beta-BHC	ND	25.00	21.52	86	22.36	89	50-135	4	0-25	
4,4'-DDD	ND	25.00	21.99	88	22.65	91	50-135	3	0-25	
4,4'-DDE	ND	25.00	22.53	90	23.33	93	50-135	4	0-25	
4,4'-DDT	ND	25.00	21.64	87	22.43	90	50-135	4	0-25	
Delta-BHC	ND	25.00	20.99	84	22.04	88	50-135	5	0-25	
Dieldrin	ND	25.00	21.83	87	22.46	90	50-135	3	0-25	
Endosulfan I	ND	25.00	22.32	89	22.88	92	50-135	3	0-25	
Endosulfan II	ND	25.00	22.20	89	22.96	92	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	22.54	90	23.19	93	50-135	3	0-25	
Endrin	ND	25.00	21.78	87	22.89	92	50-135	5	0-25	
Endrin Aldehyde	ND	25.00	22.05	88	22.63	91	50-135	3	0-25	
Gamma-BHC	ND	25.00	20.55	82	21.33	85	50-135	4	0-25	
Heptachlor	ND	25.00	22.07	88	22.78	91	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	21.19	85	21.90	88	50-135	3	0-25	
Methoxychlor	ND	25.00	22.82	91	23.27	93	50-135	2	0-25	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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Coast 2 Coast Environmental		Date Received:	N/A
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-16,392	**Solid**	**ICP 7300**	**12/05/12**	**12/05/12**	**121205L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	25.25	101	25.66	103	80-120	2	0-20	
Barium	25.00	26.43	106	26.58	106	80-120	1	0-20	
Cadmium	25.00	26.09	104	26.22	105	80-120	0	0-20	
Chromium	25.00	25.63	103	25.46	102	80-120	1	0-20	
Lead	25.00	26.43	106	26.63	107	80-120	1	0-20	
Selenium	25.00	24.43	98	24.46	98	80-120	0	0-20	
Silver	12.50	12.51	100	12.42	99	80-120	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Coast 2 Coast Environmental		Date Received:	N/A
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project: Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-9,019	**Solid**	**Mercury**	**12/05/12**	**12/05/12**	**121205L02**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	0.8723	104	0.8713	104	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Coast 2 Coast Environmental	Date Received:	N/A
13964 Boquita Drive	Work Order No:	12-11-2026
Del Mar, CA 92014-3108	Preparation:	EPA 8151A
	Method:	EPA 8151A

Project: Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-1,067	**Solid**	**GC 40**	**12/05/12**	**12/10/12**	**121205L03**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	400.0	345.4	86	452.4	113	30-130	27	0-30	
2,4,5-T	40.00	29.60	74	39.10	98	30-130	28	0-30	
2,4-DB	400.0	280.0	70	303.5	76	30-130	8	0-30	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Coast 2 Coast Environmental		Date Received:	N/A
13964 Boquita Drive		Work Order No:	12-11-2026
Del Mar, CA 92014-3108		Preparation:	EPA 3545
		Method:	EPA 8081A

Project: Undeveloped Land / 2012-118

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-1,300	**Solid**	**GC 51**	**12/03/12**	**12/04/12**	**121203L09**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Aldrin	25.00	23.55	94	23.55	94	50-135	36-149	0	0-25	
Alpha-BHC	25.00	23.53	94	22.95	92	50-135	36-149	3	0-25	
Beta-BHC	25.00	23.69	95	24.02	96	50-135	36-149	1	0-25	
4,4'-DDD	25.00	22.92	92	23.02	92	50-135	36-149	0	0-25	
4,4'-DDE	25.00	23.30	93	23.32	93	50-135	36-149	0	0-25	
4,4'-DDT	25.00	22.52	90	22.73	91	50-135	36-149	1	0-25	
Delta-BHC	25.00	23.18	93	22.92	92	50-135	36-149	1	0-25	
Dieldrin	25.00	23.84	95	23.68	95	50-135	36-149	1	0-25	
Endosulfan I	25.00	24.95	100	24.88	100	50-135	36-149	0	0-25	
Endosulfan II	25.00	24.14	97	24.10	96	50-135	36-149	0	0-25	
Endosulfan Sulfate	25.00	23.93	96	23.94	96	50-135	36-149	0	0-25	
Endrin	25.00	22.90	92	23.07	92	50-135	36-149	1	0-25	
Endrin Aldehyde	25.00	25.13	101	24.81	99	50-135	36-149	1	0-25	
Gamma-BHC	25.00	23.30	93	22.75	91	50-135	36-149	2	0-25	
Heptachlor	25.00	24.07	96	24.02	96	50-135	36-149	0	0-25	
Heptachlor Epoxide	25.00	22.72	91	22.43	90	50-135	36-149	1	0-25	
Methoxychlor	25.00	22.94	92	23.32	93	50-135	36-149	2	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-11-2026

Qualifier	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 matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
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.
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.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
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.
MPN - Most Probable Number

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Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 11/30/12

PAGE: 1 OF 1

LABORATORY CLIENT: Coast 2 Coast Environmental, Inc.
ADDRESS: 13964 Boquita Drive
CITY: Del Mar, CA 92014
TEL: 619-889-6232 FAX: 858-755-6232 E-MAIL: C2CEnvironmental@aol.com

CLIENT PROJECT NAME / NUMBER: Undeveloped Land / 2012-118
Richland Road,San Marcos, CA

P.O. NO.: 2012-118
QUOTE NO.:

SAMPLER(S): (SIGNATURE)

LAB USE ONLY: 12-11-2026

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☒ 5 DAYS ☒ 10 DAYS as needed for standard T/A

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS
Project contact: Marybeth Norgren at above numbers/email
Results may also be released to Bob Olsen with AECOM at robert.olsen@aecom.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TRPH (418.1)	TPH-g	TPH-d	VOCs 8260B	Title 22 Metals	TPH - Carbon Chain	VOCs 8260B w/MTBE	8260B PCE only	Pesticides 8081A	Herbicides 8151A	FCRA 8 Metals 6010B	Total Cyanide	8310 PNAs	Perchlorate (314.0)	Arsenic	Lead	PCBs 8080A	Asbestos	Lead in Drinking Water	ARCHIVE
1	B1-2		11/30/12	0837	S										X	X	X									
2	B1-5		11/30/12	0839	S										X	X	X									
3	B2-2		11/30/12	0846	S										X	X	X									
4	B2-5		11/30/12	0845	S										X	X	X									
5	B3-2		11/30/12	0857	S										X	X	X									
6	B3-3		11/30/12	0901	S										X	X	X									
7	B4-2		11/30/12	0908	S										X	X	X									
8	B4-4		11/30/12	0911	S										X	X	X									
9	B5-2		11/30/12	0918	S										X	X	X									
10	B5-5		11/30/12	0923	S										X	X	X									

Relinquished by: (Signature)	Received by: (Signature)	Date: 11/30/12	Time: 1102
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-11-2026

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: COAST 2 COAST ENV'L., INC.

DATE: 11/30/12

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.9 °C - 0.3 °C (CF) = 3.6 °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.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve (P) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na_2** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na_2** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na_2** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** PS

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** YC

Preservative: h: HCL **n:** HNO_3 **na_2:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** YC

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