October 14, 2022

Robert Cain
Associate Planner
County of Santa Clara
Department of Planning and Development – Planning Office
70 West Hedding Street, East Wing, 7th Floor
San Jose, California 95110

Re: Request for Additional Information, and Complete and Issues of Concern for Grading Abatement
13565 Foothill Avenue, San Martin, California (APN: 825-26-071)

Dear Mr. Cain:

Roux Associates, Inc. (Roux) has prepared this letter on behalf of David and Doris Bliven in response to the County of Santa Clara Department of Planning and Development, Planning Office (Planning Office) letters regarding the grading application for the property located 13565 Foothill Avenue, San Martin, California (APN: 825-26-071) (Figure 1). Specifically, this letter provides a summary of the background information, environmental screening levels, laboratory analytical results for soil samples, and planned next steps.

Background

According to civil engineering plans prepared by Survey Construction Staking, Co., Inc dated March 15, 2002, a grading plan to construct a house and modify the grade at the property was submitted by a previous owner and approved by the Planning Office. That owner (Whiteside) completed the access road before selling the property to Pedro Romero in February 2004. In approximately 2006, Pedro Romero constructed the house and imported approximately 900 cubic yards of soil that were placed over 48,055 square feet (1.1 acre) of the property in unapproved locations (Attachment 1 – drawing C-2). While in negotiations to purchase the property, the Blivens had the property assessed for potential environmental concerns and discovered that dieldrin was potentially present at the site. Because of the heterogeneous nature of the soil, a four-point composite soil sample (E1-a,b,c,d) comprised of aliquots of the imported soil in the southwestern portion of the property was collected by Earth Systems Pacific on April 2, 2010, and analyzed for organochlorine pesticides by U.S. Environmental Protection Agency (EPA) Method 8080, eight Resource Conservation and Recovery Act metals by EPA Method 6020, halogenated volatile organics by EPA Method 8010, total petroleum hydrocarbons (TPH) as gasoline by EPA Method 8015M, and total extractable petroleum hydrocarbons by EPA Method 8015B. Only dieldrin was detected at a concentration greater than the San Francisco Regional Water Quality Control Board (RWQCB) Tier I Environmental Screening Level (ESL). Sample E1-a,b,c,d was also analyzed for the soluble threshold limit concentration (STLC) of dieldrin by EPA Method 8081 using extraction method SW3510. Soluble dieldrin was not detected in the sample. A second four-point composite sample (E3-a,b,c,d) was collected from the native soil in the northern portion of the property on April 16, 2010, and analyzed for organochlorine pesticides. No analytes were detected at concentrations greater than the Tier I ESLs.

In July 2010, the Blivens took ownership of the property with the understanding that there was a grading violation which needed to be corrected and there were concentrations of dieldrin in the imported soil. Prior to purchasing the property, Mr. Bliven began communications with the Planning Office to determine what was required to correct the grading violation. During his communications with the Planning Office, he communicated the presence of dieldrin in the imported soil at the property and his desire to treat the soil in place. Mr. Bliven was informed by the Planning office that he could treat the soil and then submit

555 12th Street, Suite 250 ■ Oakland, California 94607 ■ +1.415.967.6000 ■ www.rouxinc.com
California ■ Illinois ■ Massachusetts ■ New Jersey ■ New York ■ Texas ■ Virginia

a grading application to correct the grading violations. On April 9, 2011, Mr. Bliven proceeded to treat the soil with microbes in the solution applied Petrox™ by CL Solutions. No communications or requirements from the Santa Clara County Department of Environmental Health were received by Mr. Bliven prior to or since commencing the soil treatment.

Extent of Imported Soil
Surveys of the property were conducted prior to construction of the house and after the impacted soil had been imported. Based on the differences in the property surface elevations, the thickness of the imported fill was estimated and ranges from less than 0.1 feet to at the perimeter of the area to 1.9 feet in the southeast portion of the fill area. Attachment 1 provides engineer drawing sheets C-2 and C-3 of the property showing the surveyed soil elevations, area of the imported soil (grading violation), and depths of the imported fill.

Environmental Screening Levels
The initial analytical data for the soil samples were compared to the Tier 1 ESLs; however, the appropriate ESLs for the property are the Direct Exposure Human Health Risk Levels (Table S-1), Residential: Shallow Soil Exposure, Cancer Risk (Residential ESL). The Tier 1 ESL are the lowest of the ESLs and assumes all media at a site have been impacted, including the surface soil, subsurface soil, and groundwater. The Residential ESL is the most appropriate ESL for the following reasons:

- The data indicate only the shallow imported soil has been impacted at the property.
- Downward leaching through the soil profile is not anticipated because of dieldrin's high soil adsorption coefficients and it tendency to bind strongly to and be immobile in soils.[1][2]
- Based on available data from sites located two miles south-southwest[3] and a half mile west of the site[4], groundwater at the property is likely deeper than 50 feet below the ground surface (bgs).

The Residential ESL for dieldrin is 0.037 milligrams per kilogram (mg/kg).

Analytical Data Summary
As noted above, two composite samples were collected prior to the purchase of the property: one within the imported soil and one in the northern portion of the property outside the imported soil area. These samples indicated the imported soil was impacted with concentrations of dieldrin at 0.005 mg/kg.

Mr. Bliven collected an additional composite soil sample on October 24, 2020, in an effort to determine current pesticide concentrations in the imported material. The sample was comprised of two 6-point composite samples collected from the imported soil at approximately 6 to 12 inches bgs. The composite soil sample aliquots were collected on a five-foot radius from two surveyed stakes at the property (Figure 1). These two composite samples were then composited prior to shipment to McCampbell Analytical, Inc. laboratory for analyses for organochlorine pesticides by EPA Method 8081. All pesticides were less than the Rsidential ESL, including dieldrin with a concentration of 0.027 mg/kg. Table 1 presents the analytical data for the composite soil samples and Attachment 2 provides copies of the laboratory analytical reports. Attachment 3 provides the surveyed map of the October 2020 sample locations.

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[1] EPA, 2003. "Health Effects Support Document for Aldrin/Dieldrin." February. EPA document number: 822-R-03-001

[2] Agency for Toxic Substances and Disease Registry, 2022. "Toxicological Profile for Aldrin and Dieldrin." June 2022.

[3] Advance Soil Technology, Inc. 2011. "Subsurface Investigation – Tank Area Monitoring Well Report, Former underground Storage Tank Area, Soil & Groundwater Investigation, 11595 Center Avenue, Gilroy, California." October. https://documents.geotracker.waterboards.ca.gov/esi/uploads/geo_report/8368163347/T10000002443.PDF

[4] Krazan & Associates, Inc., 1998. "Groundwater Sampling and Analyses at the Bear Ranch, 2045 San Martin Avenue, San Martin, California." January 21. https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/3240712046/0001.pdf

Summary
Based on the current and planned uses as a residential property, the estimated depth to groundwater, and the lack of available soluble dieldrin from the STLC analysis showing no leachability, the appropriate ESL for dieldrin at the property is the Residential ESL of 0.035 mg/kg. The most recent analytical data for the property indicates the concentrations of dieldrin in the soil are 0.027 mg/kg, which is less than the Residential ESL and do not pose a risk to human health. Grading at the property to correct the grading violations can proceed in accordance with standard best management practices without risk of exposure to dieldrin by residents at the property or adjacent properties.

Please feel free to call if you have any questions or require additional information.

Sincerely,

ROUX ASSOCIATES, INC.

Michael Friedman, P.G.
Senior Engineer

Richard Maxwell
Principal Geologist/ Office Manager

Enclosures:

Figure 1. Soil Sample Locations and Grading Violation Area
Table 1. Summary of Pesticide concentrations

Attachments
Attachment 1. Engineer Drawing
Attachment 2. Laboratory Analytical Reports
Attachment 3. Surveyed Map of the October 2020 Sample Locations

cc:
David Bliven
Edward Kraus, Silicon Valley Law Group
Travis Flora, Santa Clara County, Hazardous Materials Compliance Division


Figure 1. Soil Sample Locations and Grading Violation Area
13565 Foothill Avenue, San Martin, California
Legend
Center Point for Composite Samples
Grading Violation Area
E3-a,b,c,d
E2
SE points 1-6 of sample SW_SE_A_6
E1-a,b,c,d and SW points 1-6 of sample SW_SE_A_6
Google Earth
100 ft
N

Table1. Summary of Pesticide Concentrations

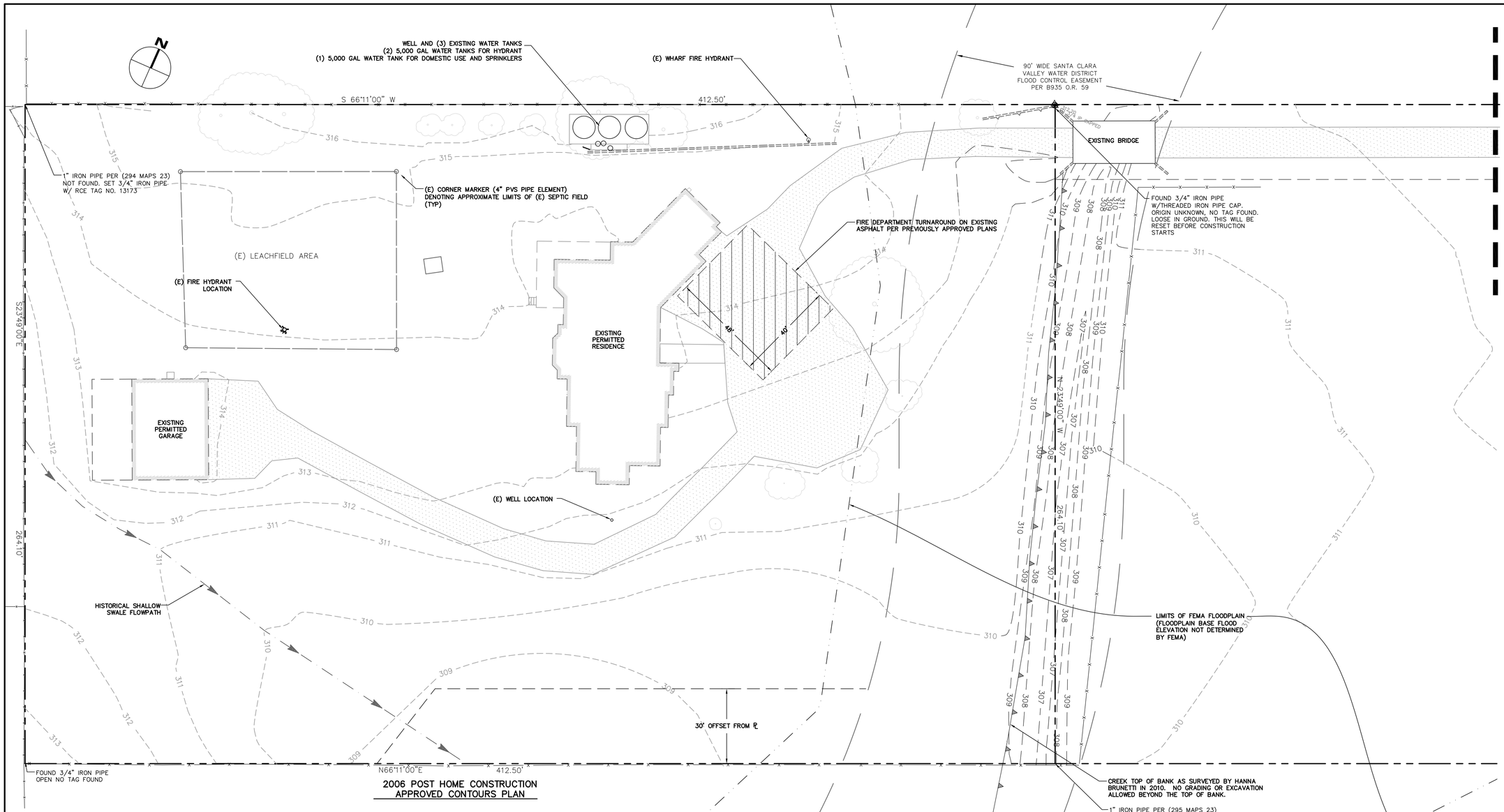
Sample ID	Depth (ft bgs)	Sample Date	4,4'-DDD 72-54-8 mg/kg	4,4'-DDE 72-55-9 mg/kg	4,4'-DDT 50-29-3 mg/kg	α-BHC 319-84-6 mg/kg	β-BHC 319-85-7 mg/kg	γ-BHC (Lindane) 58-89-9 mg/kg	δ-BHC 319-86-8 mg/kg	α-Chlordane 5103-71-9 mg/kg	γ-Chlordane 5103-74-2 mg/kg	Dieldrin 60-57-1 mg/kg	Endosulfan I 959-98-8 mg/kg	Endosulfan II 33213-65-9 mg/kg	Endosulfan sulfate 1031-07-8 mg/kg	Endrin 72-20-8 mg/kg	Endrin aldehyde 7421-93-4 mg/kg	Endrin ketone 53494-70-5 mg/kg
ESLs Residential - Cancer			2.7E+00	1.8E+00	1.9E+00	ne	ne	5.5E-01	ne	ne	ne	3.7E-02	ne	ne	ne	ne	ne	ne
ESLs Residential - Non-cancer			ne	ne	3.7E+01	ne	ne	2.1E+01	ne	ne	ne	3.5E+00	ne	ne	ne	2.1E+01	ne	ne
Minimum Value			2.7E+00	1.8E+00	1.9E+00	ne	ne	5.5E-01	ne	ne	ne	3.7E-02	ne	ne	ne	2.1E+01	ne	ne
Discrete Samples																		
E1-a,b,c,d	0.75-1	4/2/2010	<0.005	0.025	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0054	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E3-a,b,c,d	0.5-1	4/2/2010										0.005						
SW_SE_A_6	0.5-1	10/24/2020	0.0017	0.071	0.04	<0.0001	<0.0003	0.00012	<0.0002	0.012	0.0082	0.027	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Table1. Summary of Pesticide Concentrations (cont'd)

Sample ID	Depth (ft bgs)	Sample Date	Heptachlor 76-44-8 mg/kg	Heptachlor epoxide 1024-57-3 mg/kg	Hexachlorobenzene 118-74-1 mg/kg	Hexachlorocyclopentadiene 77-47-4 mg/kg	Isodrin 465-73-6 mg/kg	Methoxychlor 72-43-5 mg/kg	Toxaphene 8001-35-2 mg/kg
ESLs Residential - Cancer			1.2E-01	6.2E-02	1.8E-01	ne	ne	ne	5.1E-01
ESLs Residential - Non-cancer			3.5E+01	9.1E-01	5.6E+01	ne	ne	3.5E+02	ne
Minimum Value			1.2E-01	6.2E-02	1.8E-01	ne	ne	3.5E+02	5.1E-01
Discrete Samples									
E1-a,b,c,d	0.75-1	4/2/2010	<0.005	<0.005	<0.5	<0.1		<0.005	<0.25
E3-a,b,c,d	0.5-1	4/2/2010							
SW_SE_A_6	0.5-1	10/24/2020	0.00016	0.0014	<0.001	<0.002		<0.0002	<0.005

Notes:
Yellow highlighted concentration exceeds the residential ESLs
Pesticides analyzed by Environmental Protection Agency Method SW8081A.
ne = not established
<X = Not detected at or above laboratory reporting limit X.
ft bgs = Feet below ground surface.

[1]San Francisco Bay Regional Water Quality Control Board 2019. *Environmental Screening Levels (ESLs): Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Exposure.* January 2019.



2006 POST HOME CONSTRUCTION APPROVED CONTOURS PLAN

2002 TOPOGRAPHIC SURVEY

THE TOPOGRAPHIC SURVEY PROVIDED HEREON ON THIS PLAN SHEET WAS COMPLETED BY SURVEY CONSTRUCTION STAKING CO., INC. THE SURVEY IS ASSUMED TO HAVE BEEN COMPLETED IN 2002 OR PRIOR AND WAS USED TO CREATE THE IMPROVEMENT PLANS BY SURVEY CONSTRUCTION STAKING CO. INC.

RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS SURVEY.

NOTE: THIS SHEET HAS ADJUSTED 2002 DATA, SEE SHEET C-1 FOR MORE INFORMATION

MARCH 2002 APPROVED DESIGN PLAN

THE HOME LOCATION AND PROPOSED CONTOURS SHOWN ON THIS PLAN ARE BASED UPON THE CIVIL ENGINEERING PLANS BY SURVEY CONSTRUCTION STAKING CO., INC REVISION 1 DATED MARCH 15, 2002. Co. FILE No. 7062-74-32-98B.

2006 APRROVED GRADING LEGEND

- (E) AC
- (E) RETAINING WALL
- PROPERTY LINE
- 312 ASSUMED POST-CONSTRUCTION APPROVED CONTOURS CIRCA 2006
- (E) SANTA CLARA VALLEY WATER DISTRICT FLOOD CONTROL EASEMENT

2006 TOPOGRAPHIC INFORMATION

THE CONTOURS SHOWN ON THIS PLAN REPRESENT APPROVED GRADING DONE TO CONSTRUCT THE HOUSE, BRIDGE, GARAGE, DRIVEWAY, AND SEPTIC FIELD. THE CONTOURS SHOWN ARE ASSUMED TO HAVE BEEN APPROVED BY THE COUNTY OF SANTA CLARA IN 2006 POST-CONSTRUCTION. THIS PLAN IS THE BASIS OF ELEVATION ON THE PROPERTY BEFORE THE GRADING VIOLATION OCCURRED.

THE TOPOGRAPHIC INFORMATION PROVIDED ON THIS PLAN SHEET SHOWS ASSUMED CONTOURS IN 2006 FOLLOWING THE HOME CONSTRUCTION AND ASSOCIATED GRADING. THE 2002 SURVEY AND IMPROVEMENT PLANS BY SURVEY CONSTRUCTION STAKING CO., INC. ARE THE BASIS FOR THE SHOWN ELEVATIONS.

RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF THE INTERPRETATION OF THE TOPOGRAPHY IN 2006.

BASIS OF BEARINGS

THE BASIS OF BEARINGS USED BY SURVEY CONSTRUCTION STAKING CO., INC. IS S66°11'W, AS DELINEATED ON THAT CERTAIN PARCEL MAP, RECORDED IN BOOK 295 OF MAPS AT PAGE 23, SANTA CLARA COUNTY RECORDS, WAS TAKEN AS THE BASIS OF BEARINGS AS ESTABLISHED IN THE FIELD BETWEEN THE TWO FOUND IRON PIPE MONUMENTS, AS NOTED HEREON.

BASIS OF ELEVATION

THE BASIS OF ELEVATION FOR THIS PLAN SET AND THE HANNA BRUNETTI 2010 SURVEY IS
SANTA CLARA WATER DISTRICT
BRASS DISK
BENCHMARK ID: BM537
ELEVATION=303.36 (1998)

DESCRIPTION: BRASS DISK ON NORTHERLY SIDE OF SAN MARTIN AVENUE; ON TOP OF 12' WIDE HEADRAIL FOR NORTHWEST CORNER OF BRIDGE; 0.8 FEET EASTERLY OF WESTERLY END OF WALL; 0.1 MILE WESTERLY OF FOOTHILL AVENUE; UNINCORPORATED SANTA CLARA COUNTY.

THE BASE FOR ELEVATION FOR THE 2002 PRE-CONSTRUCTION SURVEY BY CONSTRUCTION STAKING CO. WAS ASSUMED. THEY SET A NAIL AND SHINER AT THE CL(S) OF FOOTHILL AVENUE AND THE ACCESS DRIVE TO THE PROPERTY. IT IS LABELED EL=317.00.

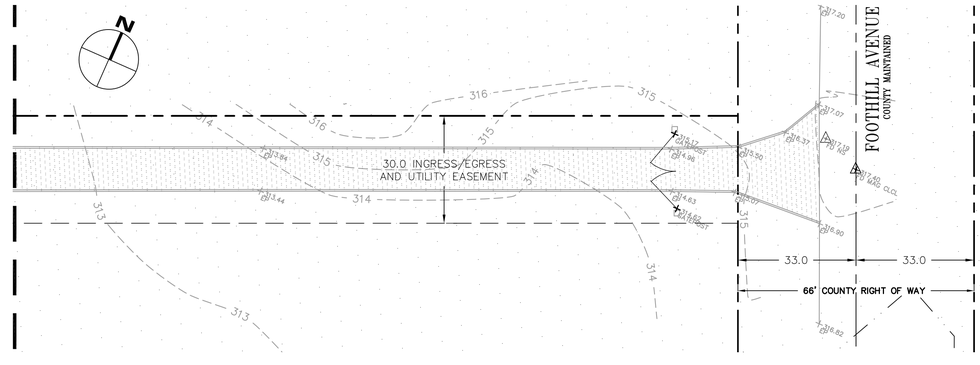
THE 2010 AFTER CONSTRUCTION AND VIOLATION SURVEY BY HANNA BRUNETTI CALCULATED THE ABOVE NAIL AND SHINER AT ELEVATION=317.40.

THE 2002 PLANS WERE DIGITIZED AND 0.40 FT. WAS ADDED TO THE LABELED ELEVATION VALUES, THEN USED FOR HISTORICAL AND TARGET GRADES ON SHEETS IN THIS PLAN SET.

RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF THESE SURVEYS OR THEIR ADJUSTED DATA.

ABBREVIATIONS

BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA, ø	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
(E)	EXISTING
EL	ELEVATION
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FIRE SERVICE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
N.T.S.	NOT TO SCALE
RW	RETAINING WALL
RIM	RIM ELEVATION
S	SLOPE
SCCO	SANTA CLARA COUNTY
SSCO	SANITARY SEWER CLEANOUT
SDCO	STORM DRAIN CLEANOUT
TYP	TYPICAL
TW	TOP OF WALL
WS	WATER SERVICE



APPLICANT: DAVID BLIVEN ROAD: FOOTHILL AVENUE COUNTY FILE NO.: PLN21-132-PRE GRADING ABATEMENT PLANS

1 REVISED PER PLN21-132--PRE COMMENTS 1/11/2022
2 REVISED PER PLN22-031 COMMENTS 6/24/2022

REGISTERED PROFESSIONAL ENGINEER
MARK M. GROFCSIK
No. 83644
Exp. 3-31-23
CIVIL
STATE OF CALIFORNIA
6/24/2022

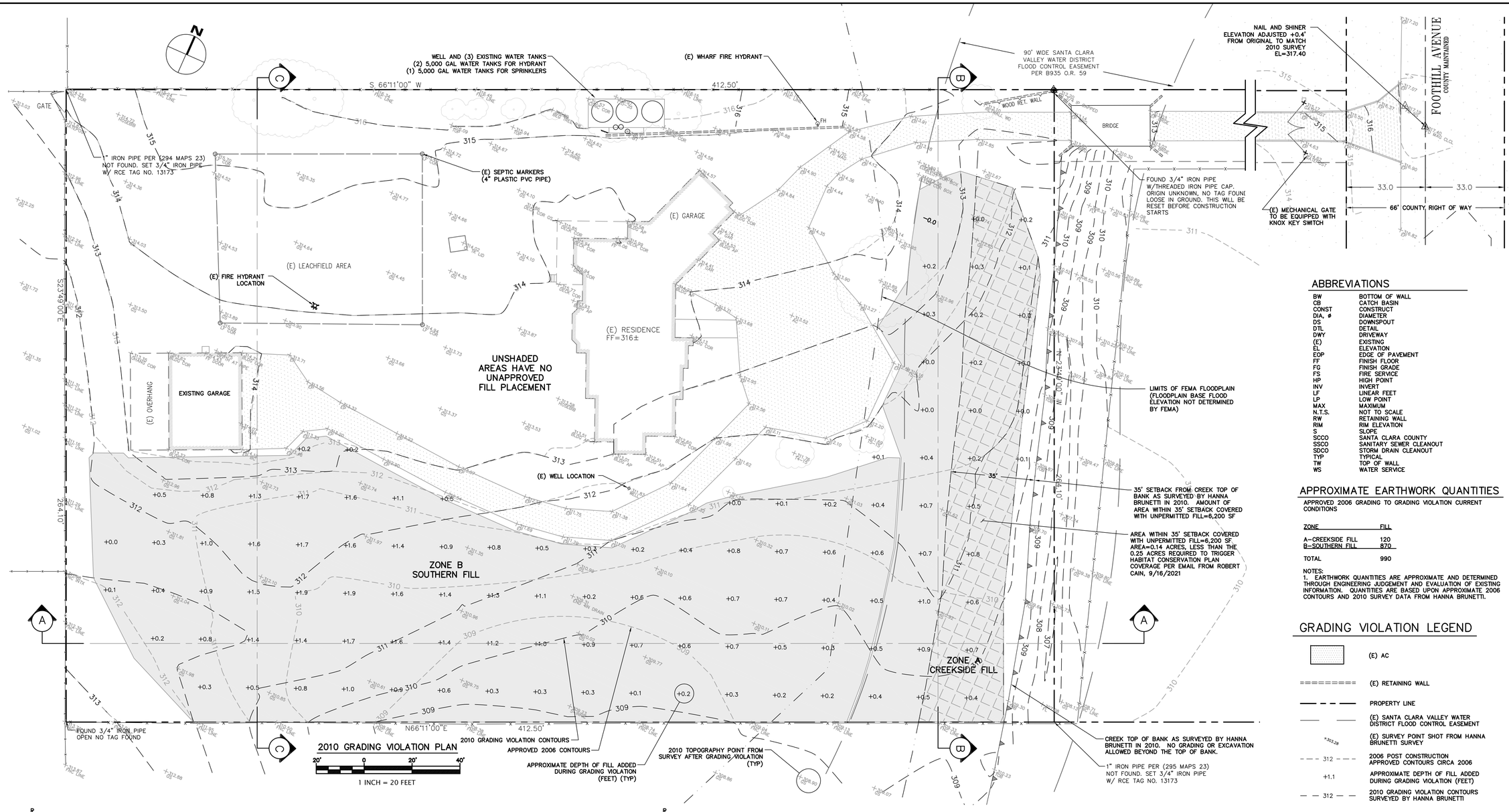
R.I Engineering, Inc.
303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com

GRADING ABATEMENT PLAN
FOR
DAVID BLIVEN
13565 FOOTHILL AVE
SAN MARTIN, CA 95046
APN 825-26-071

2006 APPROVED POST-CONSTRUCTION TOPOGRAPHY PRE-GRADING VIOLATION

project no. 15-099-1
date JUNE 2022
scale AS SHOWN
dwg name CIVIL9.DWG

C-2



ABBREVIATIONS

BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA, ø	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DWY	DRIVEWAY
(E)	EXISTING
EL	ELEVATION
EOP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FIRE SERVICE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
N.T.S.	NOT TO SCALE
RW	RETAINING WALL
RIM	RIM ELEVATION
S	SLOPE
SCCO	SANTA CLARA COUNTY
SSCO	SANITARY SEWER CLEANOUT
SDCO	STORM DRAIN CLEANOUT
TYP	TYPICAL
TW	TOP OF WALL
WS	WATER SERVICE

APPROXIMATE EARTHWORK QUANTITIES

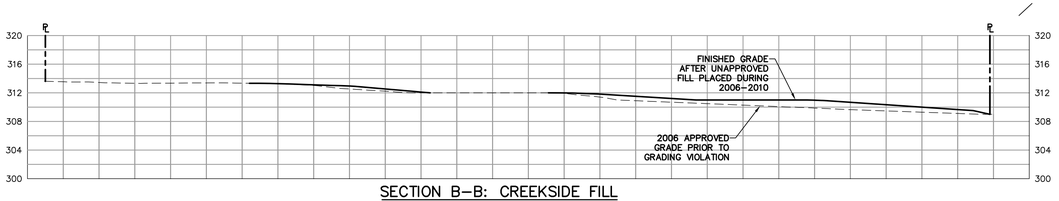
APPROVED 2006 GRADING TO GRADING VIOLATION CURRENT CONDITIONS

ZONE	FILL
A–CREEKSIDE FILL	120
B–SOUTHERN FILL	870
TOTAL	990

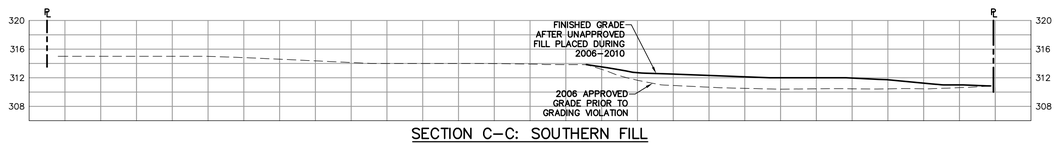
NOTES:
1. EARTHWORK QUANTITIES ARE APPROXIMATE AND DETERMINED THROUGH ENGINEERING JUDGEMENT AND EVALUATION OF EXISTING INFORMATION. QUANTITIES ARE BASED UPON APPROXIMATE 2006 CONTOURS AND 2010 SURVEY DATA FROM HANNA BRUNETTI.

GRADING VIOLATION LEGEND

- (E) AC
- (E) RETAINING WALL
- PROPERTY LINE
- (E) SANTA CLARA VALLEY WATER DISTRICT FLOOD CONTROL EASEMENT
- ×303.28 — (E) SURVEY POINT SHOT FROM HANNA BRUNETTI SURVEY
- 312 — 2006 POST CONSTRUCTION APPROVED CONTOURS CIRCA 2006
- +1.1 — APPROXIMATE DEPTH OF FILL ADDED DURING GRADING VIOLATION (FEET)
- 312 — 2010 GRADING VIOLATION CONTOURS SURVEYED BY HANNA BRUNETTI



SECTION B–B: CREEKSIDE FILL
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL
(2:1 VERTICAL TO HORIZONTAL)



SECTION C–C: SOUTHERN FILL
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL
(2:1 VERTICAL TO HORIZONTAL)

SECTION A–A: SOUTHERN & CREEKSIDE FILL
SCALE: 1"=20' HORIZONTAL
1"=10' VERTICAL
(2:1 VERTICAL TO HORIZONTAL)

2010 TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC SURVEY AND BOUNDARY INFORMATION PROVIDED HEREON THIS SHEET WAS COMPLETED BY HANNA BRUNETTI IN 2010. RI ENGINEERING INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF BOTH. THE CONTRACTOR SHALL VERIFY THE BOUNDARY LOCATION AND TOPOGRAPHIC INFORMATION PRIOR TO COMMENCING WORK.

APPLICANT: DAVID BLIVEN ROAD: FOOTHILL AVENUE COUNTY FILE NO.: PLN21–132–PRE

GRADING ABATEMENT PLANS

1 REVISED PER PLN21–132–PRE COMMENTS 1/11/2022
2 REVISED PER PLN22–031 COMMENTS 6/24/2022

REGISTERED PROFESSIONAL ENGINEER
MARK M. GROFCSIK
No. 83644
Exp. 3–31–23
CIVIL
STATE OF CALIFORNIA
6/24/2022

R.I Engineering, Inc.
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831-425-3901 www.riengineering.com

GRADING ABATEMENT PLAN
FOR
DAVID BLIVEN
13565 FOOTHILL AVE
SAN MARTIN, CA 95046
APN 825-26-071

2010 SURVEYED GRADING VIOLATION

project no. 15-099-1
date JUNE 2022
scale AS SHOWN
dwg name CIVIL9.DWG

C-3

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
400 Park Center Drive, Suite 1		Date Received: 04/05/10
	Client Contact: Chris Cecile	Date Reported: 04/12/10
Hollister, CA 95023	Client P.O.:	Date Completed: 04/12/10

WorkOrder: 1004079

April 12, 2010

Dear Chris:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#SH-11212-EA; Foothill Ave Residen**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1004079

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

☐ GeoTracker EDF ☒ PDF ☐ Excel ☐ Write On (DW)

Report To: Chris Lecce Bill To: Earth Systems Pacific

Company: Earth Systems Pacific

400 Park Center Dr. Suite #1

Hollister, CA 95023 E-Mail: CLecce@earthsys.com

Tele: (831) 637-2153 Fax: (831) 637-0510

Project #: SH-11212-EA Project Name: Foothill Ave Residence

Project Location: Foothill Ave, San Martin

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
E1-a		4/2/10	11:13	1			✓							
E1-b			11:19	1			✓							
E1-c			11:27	1			✓							
E1-d			11:35	1			✓							
E-2		4/2/10	11:43am	1			✓							

Analysis Request

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015) + TPH-SG	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: RCRA(8) Metals	Comments: Filter Samples for Metals analysis: Yes / No
			X		X	X										X	
			X		X	X										X	
			X		X	X										X	
			X		X	X										X	
			X														

Relinquished By:	Date:	Time:	Received By:
	4/2/10	12:45	
Relinquished By:	Date: 4/6/10	Time: 0820	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 20.0

GOOD CONDITION ✓

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS ✓

PRESERVED IN LAB

COMMENTS: REC'D SEALED & INTACT VIA Golden State Overnight

PRESERVATION	VOAs	O&G	METALS	OTHER
	✓		pH<2	

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1004079 **ClientCode: ESC**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Chris Cecile
Earth Systems Pacific
400 Park Center Drive, Suite 1
Hollister, CA 95023
(831) 637-2133 FAX (831) 637-0510

Email: ccecile@earthsys.com
cc:
PO:
ProjectNo: #SH-11212-EA; Foothill Ave Residence

Bill to:
Accounts Payable
Earth Systems Pacific
400 Park Center Drive, Suite 1
Hollister, CA 95023

Requested TAT: 5 days

Date Received: **04/05/2010**
Date Printed: **04/05/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1004079-001	E1-a,b,c,d	Soil	4/2/2010	☐	A	A	A	A								
1004079-002	E-2	Soil	4/2/2010 11:43	☐			A									

Test Legend:

1	8010BMS_S	2	8081_S	3	G-MBTEX_S	4	RCRAMS_S	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Earth Systems Pacific**
Date and Time Received **4/5/2010 8:48:24 AM**

Project Name: **#SH-11212-EA; Foothill Ave Residence**
Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **1004079** Matrix Soil
Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	N ☐
Chain of custody signed when relinquished and received?	Yes ☑	N ☐
Chain of custody agrees with sample labels?	Yes ☑	N ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	N ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	N ☐	
Samples in proper containers/bottles?	Yes ☑	N ☐	
Sample containers intact?	Yes ☑	N ☐	
Sufficient sample volume for indicated test?	Yes ☑	N ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	N ☐	
Container/Temp Blank temperature	Cooler Temp: 20.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	N ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	N ☐	NA ☑
Samples Received on Ice?	Yes ☑	N ☐	

(Ice Type: BLUE ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
		Date Received: 04/05/10
400 Park Center Drive, Suite 1	Client Contact: Chris Cecile	Date Extracted: 04/05/10
Hollister, CA 95023	Client P.O.:	Date Analyzed: 04/07/10

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1004079

					Reporting Limit for DF =1	
Lab ID	1004079-001A					
Client ID	E1-a,b,c,d					
Matrix	S				S	W
DF	1					
Compound	**Concentration**				mg/kg	µg/L
Bromodichloromethane	ND				0.005	NA
Bromoform	ND				0.005	NA
Bromomethane	ND				0.005	NA
Carbon Tetrachloride	ND				0.005	NA
Chlorobenzene	ND				0.005	NA
Chloroethane	ND				0.005	NA
Chloroform	ND				0.005	NA
Chloromethane	ND				0.005	NA
Dibromochloromethane	ND				0.005	NA
1,2-Dibromoethane (EDB)	ND				0.004	NA
1,2-Dichlorobenzene	ND				0.005	NA
1,3-Dichlorobenzene	ND				0.005	NA
1,4-Dichlorobenzene	ND				0.005	NA
Dichlorodifluoromethane	ND				0.005	NA
1,1-Dichloroethane	ND				0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND				0.004	NA
1,1-Dichloroethene	ND				0.005	NA
cis-1,2-Dichloroethene	ND				0.005	NA
trans-1,2-Dichloroethene	ND				0.005	NA
1,2-Dichloropropane	ND				0.005	NA
cis-1,3-Dichloropropene	ND				0.005	NA
trans-1,3-Dichloropropene	ND				0.005	NA
Freon 113	ND				0.1	NA
Methylene chloride	ND				0.005	NA
1,1,1,2-Tetrachloroethane	ND				0.005	NA
1,1,2,2-Tetrachloroethane	ND				0.005	NA
Tetrachloroethene	ND				0.005	NA
1,1,1-Trichloroethane	ND				0.005	NA
1,1,2-Trichloroethane	ND				0.005	NA
Trichloroethene	ND				0.005	NA
Trichlorofluoromethane	ND				0.005	NA
Vinyl Chloride	ND				0.005	NA
Surrogate Recoveries (%)						
%SS1:	93					
%SS2:	115					
%SS3:	118					
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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Angela Rydelius, Lab Manager

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Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
400 Park Center Drive, Suite 1		Date Received: 04/05/10
	Client Contact: Chris Cecile	Date Extracted: 04/05/10
Hollister, CA 95023	Client P.O.:	Date Analyzed: 04/07/10

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3550B Analytical Method: SW8081A Work Order: 1004079

					Reporting Limit for DF =1	
Lab ID	1004079-001A					
Client ID	E1-a,b,c,d					
Matrix	S				S	W
DF	5					
Compound	**Concentration**				mg/kg	µg/L
Aldrin	ND<0.0050				0.001	NA
a-BHC	ND<0.0050				0.001	NA
b-BHC	ND<0.0050				0.001	NA
d-BHC	ND<0.0050				0.001	NA
g-BHC	ND<0.0050				0.001	NA
Chlordane (Technical)	ND<0.12				0.025	NA
a-Chlordane	ND<0.0050				0.001	NA
g-Chlordane	ND<0.0050				0.001	NA
p,p-DDD	ND<0.0050				0.001	NA
p,p-DDE	0.025				0.001	NA
p,p-DDT	0.011				0.001	NA
Dieldrin	0.0054				0.001	NA
Endosulfan I	ND<0.0050				0.001	NA
Endosulfan II	ND<0.0050				0.001	NA
Endosulfan sulfate	ND<0.0050				0.001	NA
Endrin	ND<0.0050				0.001	NA
Endrin aldehyde	ND<0.0050				0.001	NA
Endrin ketone	ND<0.0050				0.001	NA
Heptachlor	ND<0.0050				0.001	NA
Heptachlor epoxide	ND<0.0050				0.001	NA
Hexachlorobenzene	ND<0.050				0.01	NA
Hexachlorocyclopentadiene	ND<0.10				0.02	NA
Methoxychlor	ND<0.0050				0.001	NA
Toxaphene	ND<0.25				0.05	NA
Surrogate Recoveries (%)						
%SS:	106					
Comments						

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak/sample contains surrogate.

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Angela Rydelius, Lab Manager

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Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
		Date Received: 04/05/10
400 Park Center Drive, Suite 1	Client Contact: Chris Cecile	Date Extracted: 04/05/10
Hollister, CA 95023	Client P.O.:	Date Analyzed 04/05/10-04/12/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1004079

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	E1-a,b,c,d	S	ND	1	83	
002A	E-2	S	ND	1	80	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

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Angela Rydelius, Lab Manager

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Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
		Date Received: 04/05/10
400 Park Center Drive, Suite 1	Client Contact: Chris Cecile	Date Extracted: 04/05/10
Hollister, CA 95023	Client P.O.:	Date Analyzed: 04/07/10

RCRA 8 Metals*

Extraction Method: SW3050B | Analytical Method: 6020A | Work Order: 1004079

					Reporting Limit for DF =1	
Lab ID	1004079-001A					
Client ID	E1-a,b,c,d					
Matrix	Soil					
DF	1					
Extraction Type	TOTAL				S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	6.7				0.5	NA
Barium	180				5.0	NA
Cadmium	ND				0.25	NA
Chromium	91				0.5	NA
Lead	12				0.5	NA
Mercury	0.13				0.05	NA
Selenium	ND				0.5	NA
Silver	ND				0.5	NA
Surrogate Recoveries (%)						
%SS:	112					
Comments						

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

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Earth Systems Pacific	Client Project ID: #SH-11212-EA; Foothill Ave Residence	Date Sampled: 04/02/10
		Date Received: 04/05/10
400 Park Center Drive, Suite 1	Client Contact: Chris Cecile	Date Extracted: 04/05/10
Hollister, CA 95023	Client P.O.:	Date Analyzed: 04/07/10-04/08/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C Analytical methods: SW8015B Work Order: 1004079

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1004079-001A	E1-a,b,c,d	S	3.3	24	1	92	e7,e2
1004079-002A	E-2	S	ND	ND	1	89	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49610 WorkOrder 1004079

EPA Method SW8081A **Extraction SW3550B** **Spiked Sample ID: 1003836-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	ND<0.10	0.020	NR	NR	NR	117	119	1.31	70 - 130	30	70 - 130	30
g-BHC	ND<0.10	0.020	NR	NR	NR	86.9	87.9	1.10	70 - 130	30	70 - 130	30
p,p-DDT	1.8	0.050	NR	NR	NR	80.7	82.3	2.00	70 - 130	30	70 - 130	30
Dieldrin	ND<0.10	0.050	NR	NR	NR	103	104	1.46	70 - 130	30	70 - 130	30
Endrin	ND<0.10	0.050	NR	NR	NR	93.1	98.1	5.25	70 - 130	30	70 - 130	30
Heptachlor	ND<0.10	0.020	NR	NR	NR	95.3	96.2	0.958	70 - 130	30	70 - 130	30
%SS:	109	0.050	90	99	9.40	108	109	0.560	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49610 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004079-001A	04/02/10	04/05/10	04/07/10 11:20 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix inteference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49724 WorkOrder 1004079

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1004093-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	119	119	0	102	104	1.50	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	103	100	3.32	86.2	92.6	7.16	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	110	107	2.38	96.8	99.8	3.03	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	120	115	4.56	92.3	89.1	3.48	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	123	122	1.06	106	105	0.662	70 - 130	30	70 - 130	30
%SS1:	92	0.13	89	88	1.49	87	84	3.57	70 - 130	30	70 - 130	30
%SS2:	118	0.13	109	109	0	104	105	0.940	70 - 130	30	70 - 130	30
%SS3:	92	0.013	112	109	3.00	105	94	10.5	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49724 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004079-001A	04/02/10	04/05/10	04/07/10 3:02 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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AR QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49707 WorkOrder 1004079

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1004059-014A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	94.9	96.6	1.78	90.1	98.6	8.99	70 - 130	20	70 - 130	20
MTBE	ND	0.10	76.9	79.9	3.80	85.3	82.8	2.93	70 - 130	20	70 - 130	20
Benzene	ND	0.10	81.6	84.6	3.54	91.6	83.8	8.92	70 - 130	20	70 - 130	20
Toluene	ND	0.10	80.7	82.6	2.31	88.5	82.5	7.02	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	79.8	82	2.70	85.4	81.9	4.18	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	79.9	82.6	3.29	86.1	82.4	4.46	70 - 130	20	70 - 130	20
%SS:	87	0.10	97	102	5.33	108	94	13.1	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49707 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004079-001A	04/02/10	04/05/10	04/05/10 4:35 PM	1004079-002A	04/02/10 11:43 AM	04/05/10	04/12/10 1:10 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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Web: www.mccampbell.com E-mail: main@mccampbell.com
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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1004079

EPA Method 6020A	Extraction SW3050B					BatchID: 49705			Spiked Sample ID: 1004037-003A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	6.2	50	95.4	93.1	2.21	10	99.3	108	8.03	75 - 125	20	75 - 125	20
Barium	51	500	105	105	0	100	95.1	101	6.17	75 - 125	20	75 - 125	20
Cadmium	0.54	50	102	101	0.331	10	101	108	6.90	75 - 125	20	75 - 125	20
Chromium	64	50	NR	NR	NR	10	97.4	106	8.09	75 - 125	20	75 - 125	20
Lead	2.8	50	98.5	98.3	0.192	10	95.5	102	6.99	75 - 125	20	75 - 125	20
Mercury	ND	1.25	100	104	3.57	0.25	102	114	10.9	75 - 125	20	75 - 125	20
Selenium	ND	50	103	104	1.45	10	98.4	107	8.08	75 - 125	20	75 - 125	20
Silver	ND	50	100	101	0.0597	10	103	108	5.41	75 - 125	20	75 - 125	20
%SS:	110	250	110	111	0.831	250	99	107	7.23	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49705 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004079-001A	04/02/10	04/05/10	04/07/10 10:28 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49629 WorkOrder 1004079

EPA Method SW8015B **Extraction SW3550C** **Spiked Sample ID: 1003877-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	40	106	94.6	11.1	97.3	101	3.85	70 - 130	30	70 - 130	30
%SS:	87	25	90	90	0	94	90	3.80	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49629 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004079-001A	04/02/10	04/05/10	04/08/10 7:31 PM	1004079-002A	04/02/10 11:43 AM	04/05/10	04/07/10 4:56 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Northern California ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

04/21/10

Technical Report for

Earth Systems Pacific

Foothill Avenue Residence-San Martin,CA

SH-11212-EA

Accutest Job Number: C10660

Sampling Date: 04/16/10

Report to:

Earth Systems Pacific
400 Park Center Drive #1
Hollister, CA 95023
ccecile@earthsys.com

ATTN: Chris Cecile

Total number of pages in report: **12**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Diane Theesen 408-588-0200

Certifications: CA (08258CA)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

-1-

Accutest Laboratories

Sample Summary

Earth Systems Pacific

Job No: C10660

Foothill Avenue Residence-San Martin,CA
Project No: SH-11212-EA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C10660-1	04/16/10	15:00	CC	04/16/10	SO	Soil	E3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	E3		
Lab Sample ID:	C10660-1	Date Sampled:	04/16/10
Matrix:	SO - Soil	Date Received:	04/16/10
Method:	SW846 8081A SW846 3545A	Percent Solids:	n/a [a]
Project:	Foothill Avenue Residence-San Martin,CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OO11175.D	1	04/20/10	NB	04/19/10	OP2037	GOO382
Run #2							

	Initial Weight	Final Volume
Run #1	9.80 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	26	10	ug/kg	
319-84-6	alpha-BHC	ND	26	11	ug/kg	
319-85-7	beta-BHC	ND	26	3.6	ug/kg	
319-86-8	delta-BHC	ND	26	3.6	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	26	7.7	ug/kg	
12789-03-6	Chlordane	ND	100	100	ug/kg	
60-57-1	Dieldrin	ND	26	3.1	ug/kg	
72-54-8	4,4'-DDD	ND	26	3.6	ug/kg	
72-55-9	4,4'-DDE	ND	26	3.1	ug/kg	
50-29-3	4,4'-DDT	ND	26	3.1	ug/kg	
72-20-8	Endrin	ND	26	3.1	ug/kg	
7421-93-4	Endrin aldehyde	ND	26	6.1	ug/kg	
959-98-8	Endosulfan-I	ND	26	3.6	ug/kg	
33213-65-9	Endosulfan-II	ND	26	3.6	ug/kg	
1031-07-8	Endosulfan sulfate	ND	26	8.2	ug/kg	
76-44-8	Heptachlor	ND	26	6.1	ug/kg	
1024-57-3	Heptachlor epoxide	ND	26	4.1	ug/kg	
72-43-5	Methoxychlor	ND	26	3.6	ug/kg	
8001-35-2	Toxaphene	ND	100	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		35-132%
877-09-8	Tetrachloro-m-xylene	61%		35-132%
2051-24-3	Decachlorobiphenyl	78%		35-132%
2051-24-3	Decachlorobiphenyl	79%		35-132%

(a) All results reported on wet weight basis.

ppb

4/16/10 No
E3 NO Dieldrin

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Northern California ACCUTEST Laboratories

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

ESGCAM2683

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest NC Job #: C C10660

Client / Reporting Information

Company Name: Earth Systems Pacific
Address: 400 Park Center Dr. Suite #1
City: Hollister State: CA Zip: 95023
Project Contact: CHRIS CECILE
Phone #: 831 637 2133
Sampler's Name: CHRIS Cecile

Project Information

Project Name: Foothill Avenue Residence
Street: 13565 Foothill Avenue
City: San Martin State: CA
Project #: SH-11212-EA
EMAIL: ccecile@earthsys.com
Client Purchase Order #:

Requested Analysis

8260 Full List ☐ | 624 ☐ TPH as Gasoline ☐ | 8260Petro (includes BTEX / MtBE / TBA / EtBE / DIPE / TAME / 1,2-DCA / EDB ☐ TPH as Gas ☐ | 8270 ☐ PAHs only ☐ 625 ☐ +TICs ☐ | TPH-Extractable - Diesel - Motor Oil - Other With Silica Gel Cleanup ☐ | METALS: CAM-17 ☐ PPM-13 ☐ LUFT-5 ☐ RCRA-8 ☐ | Pesticides-8081 ☐ PCBs-8082 ☐ 608 ☐ | BTEX-MtBE-TPH as Gasoline by GC/PID-FID ☐

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	HNO3	H2SO4	NONE	MEOH	ENCORE	LAB USE ONLY
-1	E3	4/1/16	1500	CC	SO	1				1			

3 DAYS

Turnaround Time (Business days)

- ☐ Standard TAT 15 Business Days
- ☐ 10 Day (Workload dependent)
- ☐ 5 Day (Workload dependent)
- ☒ 3 Day (125% markup)
- ☐ 2 Day (150% markup)
- ☐ 1 Day (200% markup)
- ☐ Same Day (300% markup)

Approved By/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" - Results only
- ☑ Commercial "B" - Results with QC summaries
- ☐ Commercial "B+" - Results, QC, and chromatograms
- ☐ FULT1 - Level 4 data package
- ☐ EDF for Geotracker ☐ EDD Format
- Provide EDF Global ID:
- Provide EDF Logcode:

Comments / Remarks

1-Ziploc bag (to soil sample)

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		4/6/16 16:10		2		2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Preservation Y / N	Headspace Y / N N/A

Labels match COC Y / N | Separate Receipt Log Y / N | On Ice Y / N | Cooler Temp: 15.9 + 0.3 = 16.2 °C

C10660: Chain of Custody
Page 1 of 2

Accutest Laboratories Northern California
Sample Receiving Check List

Job#: C10660
Sample Control Rep. Initial: EK

ESGCAM 2683

Review Chain of Custody Chain of Custody is to be complete and legible.

- ☑ Are these regulatory ~~(NPDES)~~ samples? ~~CWA~~ (Yes) / No
- ☑ Is pH requested? Yes / (No)
- N/A ☐ Was Client informed that hold time is 15 min? Yes / No Continue Yes / No
- N/A ☐ Was ortho-Phosphate filtered with in 15 min? Yes / No Continue Yes / No
- ☑ Are sample within hold time? (Yes) / No
  Are sample in danger of exceeding hold-time Yes / (No)
- ☑ Existing Client? (Yes) / No Existing Project? Yes / (No)
  If No: Is Report to info complete and legible, including;
  ☑ deliverable ☑ Name ☑ Address ☑ phone ☑ e-mail
  Is Bill to info complete and legible, including;
  ☐ PO# ☐ Credit card ☐ Contact ☐ address ☐ phone ☐ e-mail
  Is Contact and/or Project Manager identified, including;
  ☑ phone ☑ e-mail
- ☑ Project name / number ☐ Special requirements? (Yes) / No
- ☑ Sample IDs / date & time of collection provided? (Yes) / No
- ☑ Is Matrix listed and correct? (Yes) / No
- ☑ Analyses listed we do or client has authorized a subcontract? (Yes) / No
- ☑ Chain is signed and dated by both client and sample custodian? (Yes) / No
- ☑ TAT requested available? (Yes) / No Approved by pm

Review Coolers: Samples not Iced

- ☑ Were Coolers temperatures measured at ≤6°C? Cooler # — Temp 16.7°C
  - If cooler is outside the ≤6°C; note down below the affected bottles in that cooler
  - Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)
- ☑ Shipment Received Method walk In
- ☑ Custody Seals: Present: Yes / (No) If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- ☑ Chain matches bottle labels? (Yes) / No ☑ Sample bottle intact? (Yes) / No
- ☑ Is there enough sample volume in proper bottle for requested analyses? (Yes) / No
- N/A ☐ Proper Preservatives? Yes / No Check pH on preserved samples except 1664, 625, 8270 and VOAs.
- ☐ Headspace-VOAs? Greater than 6mm in diameter Yes / No
  List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues
		1x zip loc Bag to soil.

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

\\Anc-srv-file1\d$\Entech-Data\Laboratory\SOPs\SOP_CompleteListing\SC001F1_1_Form1_SampleControl_SampleReceivingChecklist_2010-02-15.doc

C10660: Chain of Custody
Page 2 of 2

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C10660
Account: ESGCAM Earth Systems Pacific
Project: Foothill Avenue Residence-San Martin,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2037-MB	OO11178.D	1	04/20/10	NB	04/19/10	OP2037	GOO382

The QC reported here applies to the following samples: Method: SW846 8081A

C10660-1

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	25	10	ug/kg	
319-84-6	alpha-BHC	ND	25	11	ug/kg	
319-85-7	beta-BHC	ND	25	3.5	ug/kg	
319-86-8	delta-BHC	ND	25	3.5	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	25	7.5	ug/kg	
12789-03-6	Chlordane	ND	100	100	ug/kg	
60-57-1	Dieldrin	ND	25	3.0	ug/kg	
72-54-8	4,4'-DDD	ND	25	3.5	ug/kg	
72-55-9	4,4'-DDE	ND	25	3.0	ug/kg	
50-29-3	4,4'-DDT	ND	25	3.0	ug/kg	
72-20-8	Endrin	ND	25	3.0	ug/kg	
7421-93-4	Endrin aldehyde	ND	25	6.0	ug/kg	
959-98-8	Endosulfan-I	ND	25	3.5	ug/kg	
33213-65-9	Endosulfan-II	ND	25	3.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	25	8.0	ug/kg	
76-44-8	Heptachlor	ND	25	6.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	25	4.0	ug/kg	
72-43-5	Methoxychlor	ND	25	3.5	ug/kg	
8001-35-2	Toxaphene	ND	100	100	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	69%	35-132%
877-09-8	Tetrachloro-m-xylene	67%	35-132%
2051-24-3	Decachlorobiphenyl	87%	35-132%
2051-24-3	Decachlorobiphenyl	87%	35-132%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C10660
Account: ESGCAM Earth Systems Pacific
Project: Foothill Avenue Residence-San Martin,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2037-BS	OO11179.D	1	04/20/10	NB	04/19/10	OP2037	GOO382
OP2037-BSD	OO11180.D	1	04/20/10	NB	04/19/10	OP2037	GOO382

The QC reported here applies to the following samples: Method: SW846 8081A

C10660-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	100	64.4	64	65.4	65	2	40-140/30
319-84-6	alpha-BHC	100	68.6	69	70.6	71	3	40-140/30
319-85-7	beta-BHC	100	74.3	74	72.7	73	2	40-140/30
319-86-8	delta-BHC	100	69.3	69	67.2	67	3	40-140/30
58-89-9	gamma-BHC (Lindane)	100	69.3	69	70.7	71	2	40-140/30
60-57-1	Dieldrin	100	74.3	74	72.3	72	3	40-145/30
72-54-8	4,4'-DDD	100	87.3	87	86.2	86	1	40-140/30
72-55-9	4,4'-DDE	100	79.6	80	78.0	78	2	40-140/30
50-29-3	4,4'-DDT	100	91.1	91	91.6	92	1	40-140/30
72-20-8	Endrin	100	79.1	79	77.3	77	2	40-140/30
7421-93-4	Endrin aldehyde	100	88.9	89	90.0	90	1	40-140/30
959-98-8	Endosulfan-I	100	72.2	72	71.6	72	1	40-140/30
33213-65-9	Endosulfan-II	100	83.1	83	83.6	84	1	40-140/30
1031-07-8	Endosulfan sulfate	100	87.8	88	88.3	88	1	40-140/30
76-44-8	Heptachlor	100	70.8	71	72.3	72	2	40-140/30
1024-57-3	Heptachlor epoxide	100	69.5	70	69.3	69	0	40-140/30
72-43-5	Methoxychlor	100	95.6	96	97.9	98	2	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	72%	73%	35-132%
877-09-8	Tetrachloro-m-xylene	69%	71%	35-132%
2051-24-3	Decachlorobiphenyl	89%	91%	35-132%
2051-24-3	Decachlorobiphenyl	90%	92%	35-132%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C10660
Account: ESGCAM Earth Systems Pacific
Project: Foothill Avenue Residence-San Martin,CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2037-MS	OO11176.D	1	04/20/10	NB	04/19/10	OP2037	GOO382
OP2037-MSD	OO11177.D	1	04/20/10	NB	04/19/10	OP2037	GOO382
C10660-1	OO11175.D	1	04/20/10	NB	04/19/10	OP2037	GOO382

The QC reported here applies to the following samples: Method: SW846 8081A

C10660-1

CAS No.	Compound	C10660-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		99	74.0	75	70.1	70	5	40-140/40
319-84-6	alpha-BHC	ND		99	69.1	70	63.7	64	8	40-140/40
319-85-7	beta-BHC	ND		99	84.9	86	86.2	86	2	40-140/40
319-86-8	delta-BHC	ND		99	79.7	80	81.4	81	2	40-140/40
58-89-9	gamma-BHC (Lindane)	ND		99	75.6	76	72.5	73	4	40-140/40
60-57-1	Dieldrin	ND		99	81.7	83	81.8	82	0	40-145/40
72-54-8	4,4'-DDD	ND		99	87.9	89	90.8	91	3	40-140/40
72-55-9	4,4'-DDE	ND		99	89.3	90	88.7	89	1	40-140/40
50-29-3	4,4'-DDT	ND		99	89.9	91	89.6	90	0	40-140/40
72-20-8	Endrin	ND		99	85.0	86	86.2	86	1	40-145/40
7421-93-4	Endrin aldehyde	ND		99	79.1	80	79.8	80	1	40-140/40
959-98-8	Endosulfan-I	ND		99	84.8	86	84.0	84	1	40-140/40
33213-65-9	Endosulfan-II	ND		99	82.8	84	83.4	83	1	40-140/40
1031-07-8	Endosulfan sulfate	ND		99	83.9	85	85.3	85	2	40-140/40
76-44-8	Heptachlor	ND		99	76.0	77	71.3	71	6	40-140/40
1024-57-3	Heptachlor epoxide	ND		99	80.8	82	79.1	79	2	40-140/40
72-43-5	Methoxychlor	ND		99	90.7	92	93.5	94	3	40-140/40

CAS No.	Surrogate Recoveries	MS	MSD	C10660-1	Limits
877-09-8	Tetrachloro-m-xylene	63%	57%	63%	35-132%
877-09-8	Tetrachloro-m-xylene	62%	56%	61%	35-132%
2051-24-3	Decachlorobiphenyl	81%	84%	78%	35-132%
2051-24-3	Decachlorobiphenyl	81%	84%	79%	35-132%

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2010G43

Report Created for: David Bliven

P.O. Box 2407
Morgan Hill, CA 95038

Project Contact: David Bliven
Project P.O.:
Project: Grading and Soil Clean Up

Project Received: 10/30/2020

Analytical Report reviewed & approved for release on 11/10/2020 by:

Yen Cao
Project Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: David Bliven
Project: Grading and Soil Clean Up
WorkOrder: 2010G43

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: David Bliven
Project: Grading and Soil Clean Up
WorkOrder: 2010G43

Analytical Qualifiers

P	Agreement between quantitative confirmation results exceed method recommended limits.
a2	Sample diluted due to cluttered chromatogram.

McCampbell Analytical, Inc.
"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	David Bliven	**WorkOrder:**	2010G43
Date Received:	10/30/2020 9:29	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	11/04/2020	**Analytical Method:**	SW8081A
Project:	Grading and Soil Clean Up	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SW_SE_A_6	2010G43-001A	Soil	10/24/2020 13:00	GC40 11062087.d	208759

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.00010	1	11/07/2020 07:01
a-BHC	ND		0.00010	1	11/07/2020 07:01
b-BHC	ND		0.00030	1	11/07/2020 07:01
d-BHC	ND		0.00020	1	11/07/2020 07:01
g-BHC	**0.00012**		0.00010	1	11/07/2020 07:01
Chlordane (Technical)	**0.13**		0.025	10	11/09/2020 17:01
a-Chlordane	**0.012**	P	0.00010	1	11/07/2020 07:01
g-Chlordane	**0.0082**	P	0.00010	1	11/07/2020 07:01
p,p-DDD	**0.0017**	P	0.00010	1	11/07/2020 07:01
p,p-DDE	**0.071**		0.0010	10	11/09/2020 17:01
p,p-DDT	**0.040**		0.0010	10	11/09/2020 17:01
Dieldrin	**0.027**		0.0010	10	11/09/2020 17:01
Endosulfan I	ND		0.00010	1	11/07/2020 07:01
Endosulfan II	ND		0.00010	1	11/07/2020 07:01
Endosulfan sulfate	ND		0.00010	1	11/07/2020 07:01
Endrin	ND		0.00010	1	11/07/2020 07:01
Endrin aldehyde	ND		0.00010	1	11/07/2020 07:01
Endrin ketone	ND		0.00010	1	11/07/2020 07:01
Heptachlor	**0.00016**	P	0.00010	1	11/07/2020 07:01
Heptachlor epoxide	**0.0014**		0.00010	1	11/07/2020 07:01
Hexachlorobenzene	ND		0.0010	1	11/07/2020 07:01
Hexachlorocyclopentadiene	ND		0.0020	1	11/07/2020 07:01
Methoxychlor	ND		0.00020	1	11/07/2020 07:01
Toxaphene	ND		0.0050	1	11/07/2020 07:01

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	106	20-145	11/07/2020 07:01

Analyst(s): BRV, CN

Analytical Comments: a2

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Quality Control Report

Client:	David Bliven	**WorkOrder:**	2010G43
Date Prepared:	11/04/2020	**BatchID:**	208759
Date Analyzed:	11/09/2020	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC40	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	Grading and Soil Clean Up	**Sample ID:**	MB/LCS/LCSD-208759

QC Summary Report for SW8081A/8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.0000360	0.000100	-	-	-
a-BHC	ND	0.0000250	0.000100	-	-	-
b-BHC	ND	0.000250	0.000300	-	-	-
d-BHC	ND	0.000130	0.000200	-	-	-
g-BHC	ND	0.0000660	0.000100	-	-	-
Chlordane (Technical)	ND	0.000430	0.00250	-	-	-
a-Chlordane	ND	0.0000950	0.000100	-	-	-
g-Chlordane	ND	0.0000470	0.000100	-	-	-
p,p-DDD	ND	0.0000430	0.000100	-	-	-
p,p-DDE	ND	0.0000940	0.000100	-	-	-
p,p-DDT	ND	0.0000920	0.000100	-	-	-
Dieldrin	ND	0.0000610	0.000100	-	-	-
Endosulfan I	ND	0.0000480	0.000100	-	-	-
Endosulfan II	ND	0.0000760	0.000100	-	-	-
Endosulfan sulfate	ND	0.0000780	0.000100	-	-	-
Endrin	ND	0.0000350	0.000100	-	-	-
Endrin aldehyde	ND	0.0000670	0.000100	-	-	-
Endrin ketone	ND	0.0000840	0.000100	-	-	-
Heptachlor	ND	0.0000400	0.000100	-	-	-
Heptachlor epoxide	ND	0.0000540	0.000100	-	-	-
Hexachlorobenzene	ND	0.000110	0.00100	-	-	-
Hexachlorocyclopentadiene	ND	0.000340	0.00200	-	-	-
Methoxychlor	ND	0.000130	0.000200	-	-	-
Toxaphene	ND	0.00340	0.00500	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.00370			0.005	74	28-170

(Cont.)

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Quality Control Report

Client:	David Bliven	**WorkOrder:**	2010G43
Date Prepared:	11/04/2020	**BatchID:**	208759
Date Analyzed:	11/09/2020	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC40	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	Grading and Soil Clean Up	**Sample ID:**	MB/LCS/LCSD-208759

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.00427	0.00470	0.0050	85	94	31-155	9.77	20
a-BHC	0.00408	0.00450	0.0050	82	90	32-160	9.74	20
b-BHC	0.00409	0.00450	0.0050	82	90	44-149	9.49	20
d-BHC	0.00432	0.00476	0.0050	86	95	37-157	9.65	20
g-BHC	0.00398	0.00439	0.0050	80	88	43-154	9.59	20
a-Chlordane	0.00430	0.00475	0.0050	86	95	39-150	10.1	20
g-Chlordane	0.00423	0.00468	0.0050	85	94	39-151	10.0	20
p,p-DDD	0.00435	0.00483	0.0050	87	97	30-158	10.4	20
p,p-DDE	0.00433	0.00476	0.0050	87	95	47-149	9.53	20
p,p-DDT	0.00395	0.00441	0.0050	79	88	56-166	10.9	20
Dieldrin	0.00481	0.00531	0.0050	96	106	50-163	9.92	20
Endosulfan I	0.00432	0.00477	0.0050	86	95	45-159	9.89	20
Endosulfan II	0.00448	0.00496	0.0050	89	99	41-155	10.3	20
Endosulfan sulfate	0.00397	0.00441	0.0050	79	88	45-156	10.4	20
Endrin	0.00400	0.00445	0.0050	80	89	54-154	10.5	20
Endrin aldehyde	0.00449	0.00493	0.0050	90	99	27-159	9.35	20
Endrin ketone	0.00413	0.00458	0.0050	83	92	40-147	10.3	20
Heptachlor	0.00418	0.00461	0.0050	84	92	52-165	9.73	20
Heptachlor epoxide	0.00434	0.00489	0.0050	87	98	46-145	12.0	20
Hexachlorobenzene	0.00363	0.00399	0.0050	73	80	22-156	9.56	20
Hexachlorocyclopentadiene	0.00294	0.00315	0.0050	59	63	43-173	7.00	20
Methoxychlor	0.00380	0.00421	0.0050	76	84	49-150	10.4	20
Surrogate Recovery								
Decachlorobiphenyl	0.00430	0.00456	0.0050	86	91	28-170	5.87	20

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CHAIN-OF-CUSTODY RECO

WorkOrder: 2010G43 **ClientCode: DBM**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ EQuIS ☐ Dry-Weight ☐ Email ☐ Hard
☐ Detection Summary ☐ Excel

Report to:
David Bliven
David Bliven
P.O. Box 2407
Morgan Hill, CA 95038
408-996-2473 FAX:

Email: davebliven@gmail.com
cc/3rd Party:
PO:
Project: Grading and Soil Clean Up

Bill to:
Accounts Payable
David Bliven
P.O. Box 2407
Morgan Hill, CA 95038
davebliven@gmail.com

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See le 1	2	3	4	5	6	7
2010G43-001	SW_SE_A_6	Soil	10/24/2020 13:00	☐	A	A					

Test Legend:

1	8081_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		1	

Project Manager: Angela Rydelius

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 3
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: DAVID BLIVEN
Client Contact: David Bliven
Contact's Email: davebliven@gmail.com

Project: Grading and Soil Clean Up
Comments:

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☐ Email ☐ HardCopy ☐

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collectio & Ti
2010G43-001A	SW_SE_A_6	Soil	SW8081A (OC Pesticides)	1	Small Mason Jar	☐	10/24/202

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is complete in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI c the sample prior to sample preparation unless requested in writing by the client.

MAI Work Order # 2010643

ELL ANALYTICAL, INC.

w Pass Rd. Pittsburg, Ca. 94565-1701
(877) 252-9262 / Fax: (925) 252-9269
com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD | Quote #
J-Flag / MDL | ESL | Cleanup Approved | Dry Weight | Bottle Order #
Delivery Format: PDF | GeoTracker EDF | EDD | Write On (DW) | Detect Summary

Bill To: Same

5038
Tele: 408-996-2473
Project #: None
Martin, CA PO # None

Sampling Date	Sampling Time	#Containers	Matrix	Preservative
/24/20	13:00	1	Soil	7

Analysis Requested

Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis			
							●											

own to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. he client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.
volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions
Target Dieldrin LT .0023 PPM

me	Date	Time	Received By / Company Name	Date	Time
			Fed-Ex/Nancy Palacios	10/30/20	0929

=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

10-28-20

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Sample Receipt Checklist

Client Name:	**David Bliven**	Date and Time Received:	**10/30/2020 09:29**
Project:	**Grading and Soil Clean Up**	Date Logged:	**10/30/2020**
		Received by:	Nancy Palacios
WorkOrder №:	**2010G43** Matrix: Soil	Logged by:	Nancy Palacios
Carrier:	FedEx		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☐	No	☑		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

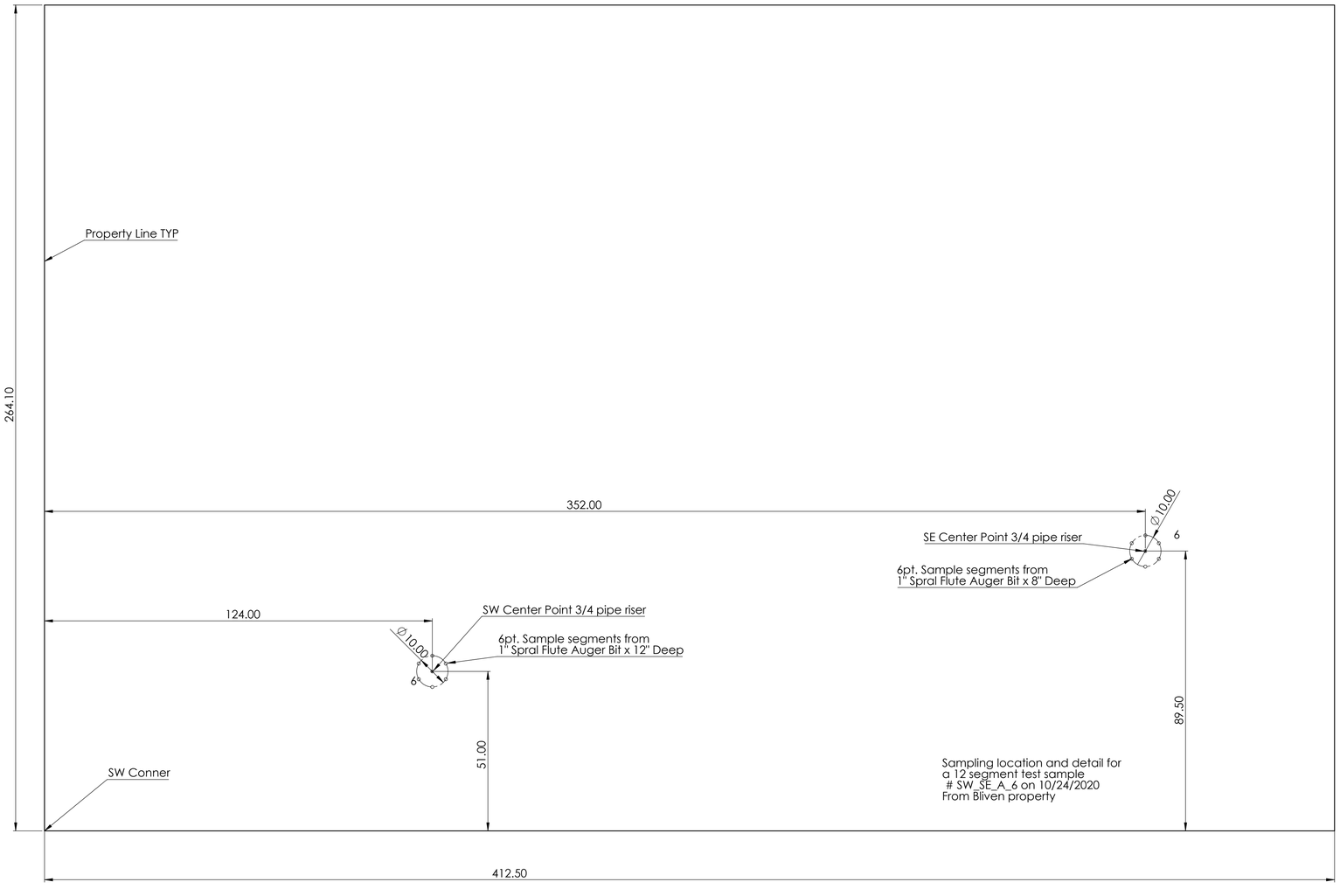
Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☐	No	☑		
Sample/Temp Blank temperature	Temp:				NA	☑
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:


Property Line TYP
264.10
352.00
Ø10.00
6
SE Center Point 3/4 pipe riser
6pt. Sample segments from
1" Spral Flute Auger Bit x 8" Deep
124.00
SW Center Point 3/4 pipe riser
Ø10.00
6pt. Sample segments from
1" Spral Flute Auger Bit x 12" Deep
6
89.50
51.00
SW Conner
Sampling location and detail for
a 12 segment test sample
SW_SE_A_6 on 10/24/2020
From Bliven property
412.50