CLIENT COPY

PERCOLATION TEST RESULTS TRANSMITTAL

County of Sonoma, Permit and Resource Management Department
2550 Ventura Avenue, Santa Rosa, CA 95403

Adobe
Associates, Inc.
Civil Engineering,
Land Surveying &
Land Development
Services

September 7, 2006

Att: Samantha Baumgartner

Site Address: 1880 Highway 1, APN 100-210-057
Job Number: 06144

Enclosures: Assessors Parcel Map, Soil Survey Map, Soil Profile Log, Soil Laboratory Analysis Results, Percolation Test Data, and Percolation Test Map,

These tests were run in order to establish subsurface wastewater disposal system potential for this 12+-acre parcel in Bodega Bay. The site is located on the east side of Highway 1 approximately 400 to 700 feet east of the intersection of Highway 1 and Eastshore Road. Site soils in the area of consideration are identified as RrC and RrD – Rhonerville loam, per the Soil Survey of Sonoma County. The areas of the property selected for percolation testing are located on a west-facing slope located in the center of the property. Area A, the lower area, is defined by Profile Holes A, B, C, and D. Area B, the upper area, is defined by Profile Holes E and F. The test sites slope approximately 8 to 15 percent. A site review was conducted with you on June 22, 2006. A soil sample was taken from profile E at 36" to show 15% silt and clay. Soil Profile logs and site map are attached. The percolation test was run during the dry weather test period.

Test Area A (lower area):

On August 8, 2006, eight 24-inch deep holes were tested with an average percolation rate of 40 minutes per inch corresponding to a Soil Loading Rate of 0.487 gallons per square foot per day. The site is considered suitable for installation of an engineered fill system in accordance with Sonoma County Rule V1. System design should provide 143 lineal feet of trench per bedroom. Trenches should be 36 inches deep (including 121 inches of fill), 24 inches wide, with 12 inches of drain rock below the disposal line. The site is also suitable for installation of a mound septic system utilizing a linear rate of 6.

Test Area B (upper area):

On August 8, 2006, six 24-inch deep holes were tested with an average percolation rate of 45 minutes per inch corresponding to a Soil Loading Rate of 0.450 gallons per square foot per day. The site is considered suitable for installation of an engineered fill system in accordance with Sonoma County Rule V1. System design should provide 150 lineal feet of trench per bedroom. Trenches should be 36 inches deep (including 12 inches of fill), 24 inches wide, with 12 inches of drain rock below the disposal line. The site is also suitable for installation of a mound septic system utilizing a linear rate of 6.

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li
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SA1.2360

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Land Surveying &
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Maintain all applicable setbacks including:
Separation to existing or proposed structures
100 ft from nearby wells
Adequate distance from property lines.

The attached percolation test data was generated from percolation tests run in conformance with the methods and procedures of the Sonoma County Permit and Resource Management Department, Well and Septic Division. The results are a true and accurate account of the tests. Recommendations made in this report are subject to review and approval of the Well and Septic Division staff. A response to this report will be on file at the PRMD office.

Signed:

Steven R. Brown, RCE 43825
my license expires 6/30/07

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nta Rosa,
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COUNTY ASSESSOR'S PARCEL MAP

LEBARON SUBDIVISION
Rec. 6-20-03, Bk. 649, Pgs. 42-44

PARCEL MAP NO. 877-A
BOOK 136 PAGE 8
Rec. 9-3-69

Parcel Map No. PLP-00-0020
Bk. 629, Pgs. 29-30, Rec. 12-17-01

"RANCH ROAD" Not a county road

* B/E = BIOTIC EASEMENT

STATE HIGHWAY No. 1
(RDI No. 3)
Conveyed to Sonoma Co. in OR 106-Pg. 364

Parcel Map No. 7986
Bk. 361 Pg. 11, Rec. 08/23/84

TAX RATE AREA 100-21
57-008
57-009
57-007

57-009

BAY HILL ROAD

STATE OF CALIFORNIA

EASTSHORE

BAY TRACT
(See Map No. 20)

Assessment Line

Parcel Map No. 2217
Bk. 154 pg. 25 Rec. 3/3/71

Parcel Map No. 7802
Bk. 369 Pg. 10, REC. 2/28/85

57-007

Part of the
BODEGA RANCHO

Windy Lane

First Addition to
THE TAYLOR TRACT

LOT 1A

57-009
57-008

DETAIL

Revised
9-25-74
10-10-84=53
2-28-85=55
2-28-88=LSL
1-3-90=58LSL
7-1-91=58 BF
9-22-92=59 BF
2-6-02=61 KT
2-19-03=B/E RM
10-1-03=63 RM

NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON.

1" = 300'

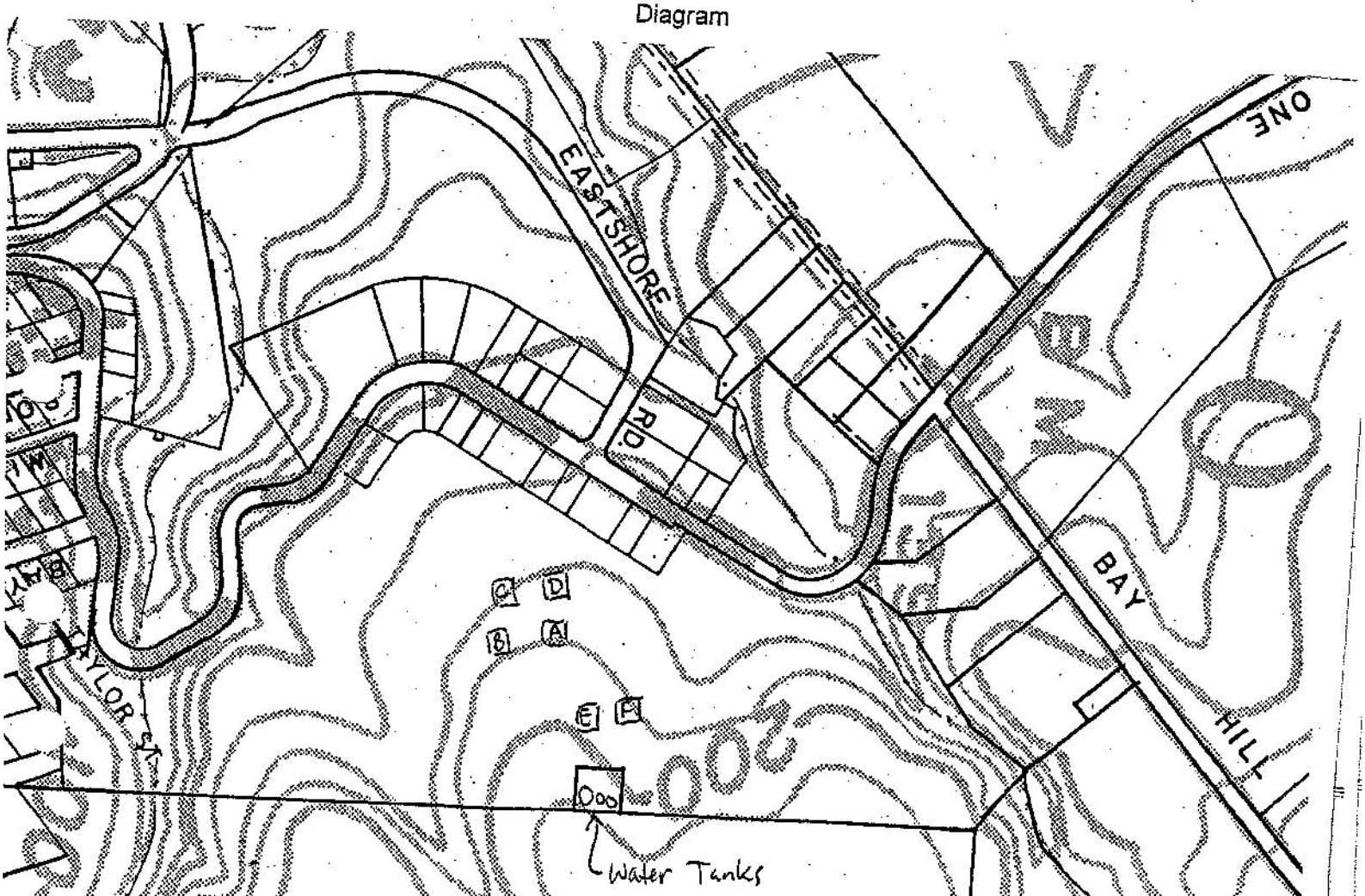
Assessor's Map Bk. 100 Pg. 21
Sonoma County, Calif.

Pre-Perc Field Notes

Address: 1330 Hwy 1	Test Date: 6/22/06 Time: 11:00
AP #: 100-210-057	Site review by: Samantha Baumgartner
Test conducted by: Dale Davis	Subdivision: Yes ☐ No ☒
Test verified by: Steve Brown	Water availability zone:
Special standards area:	SCS soil type:

Topography: Ridge ☐ Slope ☒ Saddle ☐ Basin ☐ Convex ☒ Planar ☐ Concave ☐
Setbacks: Grade break ☐ Wells ☐ Springs ☐ Streams ☐
Areas of concern: Trees ☐ Drainage ☐ Geology report ☐ Rock outcrops ☐ % Rock ☐
Hydrometer test: Yes ☒ No ☐ Depth E-36" Bulk density: Yes ☐ No ☒ Depth _____
Wet-weather perc required: Yes ☐ No ☒ Wet-weather ground water required: Yes ☐ No ☒
Perc depth: 24" Possible trench & rock depth: _____ Pump system: Yes ☐ No ☐
Mound ☐ PD ☐ Eng. Design ☒ Fill system, mound, or at grade w/ pretreatment
Comments:

Diagram



Profile: A Average Ground Slope: 8-10%

Depth	Munsell Color	% Rock	Texture	Structure	Consistency	Moist	Pores	Roots
-18	10YR 3/3	—	L	BL	Fr	Dry	MM	MF
-50	10YR 4/6	—	SCL	BL	Fr/F	SL Damp	MF	—

Mottling: Reduction ☐ Oxidation ☐ Depth to groundwater: Perc depth: 24" Fill

Other:

Profile: B Average Ground Slope: 8% ±

Depth	Munsell Color	% Rock	Texture	Structure	Consistency	Moist	Pores	Roots
-12	10YR 3/3	—	L	BL	Fr	D	MM	MF
-48	10YR 4/6	—	SCL	BL	F	D	MF	—

Mottling: Reduction ☐ Oxidation ☐ Depth to groundwater: Perc depth: 24" Fill

Other:

Profile: C Average Ground Slope: 10% ±

Depth	Munsell Color	% Rock	Texture	Structure	Consistency	Moist	Pores	Roots
-13	10YR 3/3	—	L	BL	Fr	Dry	MM	MF
~~-24~~	↓	Transition		↓	Fr/F	Damp	MF	FF
-44	10YR 4/6	—	SCL	BL	F	Damp	MF	—

Mottling: Reduction ☐ Oxidation ☐ Depth to groundwater: Perc depth: 24" Fill

Other: of Mound

Abbreviations:

USDA Texture: Gravel=G, Sand=S, Loamy Sand=LS, Sandy Loam=SL, Sandy Clay Loam=SCL, Sandy Clay=SC, Silt Loam=SiL, Loam=L, Clay Loam=CL, Silty Clay Loam=SiCL, Clay=C

Structure: Granular=G, Platy=p, Blocky=B, Prismatic=Pr, Massive=M, Columnar=C

Consistency: Loose=L, Very Friable=VFr, Friable=Fr, Firm= F, Very Firm=VF, Extremely Firm=EF, Solid (BH refusal)=S

Status: Dry=Dr, Damp=D, Very Damp=VD, Saturated=S, Seepage=Sp

Profile D — Average Ground Slope: 10% ±

Depth	Color	% Rock	Texture	Structure	Consis-tency	Moist	Pores	Roots
-12	10YR 3/3	—	L	BL	Fr	Dry	MM	MF
-27	——	Transition	—	BL	Fr/F	Sl Damp	MF	FF
-58	10YR 4/6	—	SCL	BL	F	Damp	MF	—

Mottling:

Other: Depth to ground water:

Profile E — Average Ground Slope: 10% ±

Depth	Color	% Rock	Texture	Structure	Consis-tency	Moist	Pores	Roots
-22	10YR 3/3		L	BL	Fr	Dry	MM	MF
-36	10YR 4/4		LS	BL/G	VFr/L	Damp	MM	—
-52	——	50% ±	Rocky	Layer	——	——		—
-58	10YR 5/6		C	BL/M	Plastic ~~BL/M~~	Damp	—	—

Mottling:

Other: Sample from 36" for silt & clay — Depth to ground water:

Profile F — Average Ground Slope: 10-15%

Depth	Color	% Rock	Texture	Structure	Consis-tency	Moist	Pores	Roots
-20	10YR 3/3		L	BL	Fr	Dry	MM	MF
-52	10YR 4/4		SL	BL	Fr	Damp	MF	FF
-65	10YR 5/6		SC/SCL	BL	F	Damp	—	—

Mottling:

Other: Depth to ground water:

Abbreviations:

Texture: Gravel = G, Sand = S, Sandy Loam = SL. Sandy Clay Loam = SCL, Sandy Clay = SC, Silt Loam = SIL, Loam = I, Clay Loam = CL, Silty Clay Loam = SiCL, Clay = C

Structure: Granular = G, Platy = P, Blocky = B, Prismatic = Pr, Massive = M

Consistency: Loose = L, Vary Friable = VFr, Friable = Fr, Firm = F, Very Firm = VF, Extremely Firm = EF

Oakley Laboratory & Field Services
1645 Chapman Way • Santa Rosa , CA 95403 • Telephone 707-575-1075

June 24, 2006
Job No. 06-105.311

Adobe Associates
1220 North Dutton Avenue
Santa Rosa, Calif. 95401

Attention: Mr. Steve Brown

Re: Results of Soil Texture Analysis
By Bouyoucos Hydrometry Method

Client Address: 1880 Highway 1, #06144

The results of the soil texture analysis on sample received on June 23, 2006 are as follows:

Sample Location	E @ 36"
% Plus No. 10 (WT)	24.3
% Sand	82.8
% Clay	11.8
% Silt	5.4
Db g/cc	--

We are pleased to provide laboratory services for you and look forward to your continued work. If you have any questions, please call.

Oakley Laboratory and Field Services

By: _____
Wayne G. Oakley
Laboratory Director

SONOMA COUNTY PERMIT & RESOURCE MANAGEMENT DEPARTMENT
WELL & SEPTIC DIVISION
2550 VENTURA AVENUE SANTA ROSA CA 95403

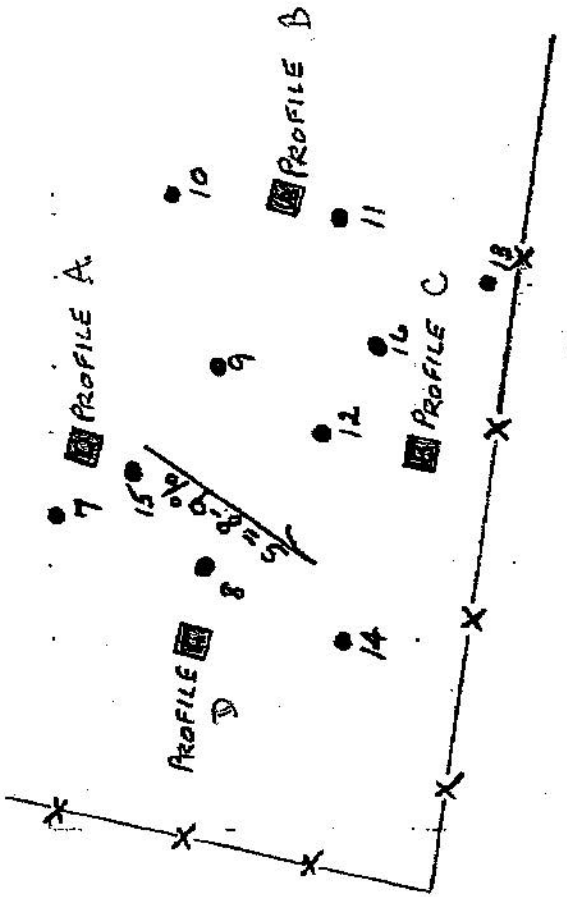
SOIL PERCOLATION TEST DATA

Address of Percolation Test: 1880 HWY 1 BODEGA BAY	A.P. No. 100-210-057	Date Received:	"Wet-weather perc" Yes (No)
Owner: JOHN & GAYE LEBARON		Field Check: Yes No	By: Time: Date:
Address: 613 CODDING DR		Review of Data: Rates Acceptable Yes No	
City: SANTA ROSA, CA 95405	Phone No.	Remarks:	
Water Supply: (Private) Public	Size of Lot or Parcel:		
Test Conducted By: DAVIS "PERK" TESTING			
Address: 9466 BURNSIDE ROAD SEBASTOPOL, CALIF. 95472 Telephone: 823-9123			
Type of Soil:	Date of Test: 8/8/06	Sanitarian:	

Hole No.	Depth of Hole	Time Length	Presoak Remaining	Start Time	Start Inches	First Measurement Time	First Measurement Inches	Second Measurement Time	Second Measurement Inches	Third Measurement Time	Third Measurement Inches	Fourth Measurement Time	Fourth Measurement Inches	Fifth Measurement Time	Fifth Measurement Inches	Sixth Measurement Time	Sixth Measurement Inches	RATE
1	24	36	0	1145	23	1245	28 1/8	1345	30 3/4	1445	32 3/8	1545 R	34/24	1645	27 5/8	1745	30 1/4	37
2	24	36	0		23		30 3/4		32 7/8	R	34 1/2/24		30 1/4		32 1/4		34	37
3	24	36	0		24		27 1/2		30 1/2		32 5/8		33 7/8	R	34 3/4/24		27 1/4	69
4	24	36	0		23		31 1/4		33 3/4	R	35/24		30 3/4		33 1/8		34 3/4	48
5	24	36	0		23		30 1/4		32 5/8	R	34 3/8/23		30		32 1/4		33 7/8	37
6	24	36	0		24		28		30 7/8		33	R	34 1/2/24		27 5/8		30 1/2	40
7	24	36	0	1200	24	1300	28 1/8	1400	31 3/8	1500	33	1600	34 5/8/24	1700	28	1800	30 7/8	37
8	24	36	0		24		30 1/8	R	34/24		29 1/4		32 3/4	R	34 1/2/24		29	34
9	24	36	0		23		31 1/4		33 1/2	R	35/24		30 7/8		33 1/8		34 5/8	40
10	24	36	0		23		29 3/8		31		32 1/4		33 1/4	R	34/24		29 1/4	80
11	24	36	0		24		30 1/2		32 5/8	R	34 1/2/24		30		32		33 3/4	40
12	24	36	0		24		31 1/8		32 7/8	R	34 1/2/24		30 3/4		32 1/2		34 1/8	37
13	24	36	0		24		30 1/2		32 3/8	R	34 1/2/23		29 7/8		31 1/2		33 1/8	37
	24	36	0		24		32 3/4	R	36/24		32	R	36/24		31 5/8		35 3/4	15
15	36	48	0		35		39 1/4		41 1/2		43		44 1/8		45		45 3/4	80
16	36	48	0		35		39 5/4		42 1/4		44		45 1/8	R	46/36		39 1/2	69

Form PHS - EH-4a (Revised 3/79) (1000)

SOIL PERCOLATION TEST MAP
(LOWER AREA)
1880 STATE HWY 1, BODEGA BAY
APN 100-210-057
AUG 8, 2006



SOIL PERCOLATION TEST MAP
(UPPER AREA)
1880 STATE HWY 1, BODEGA BAY
APN 100-210-057
AUG 8, 2006