



A.M. BAIRD
ENGINEERING & SURVEYING

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1257 Main Street • P.O. Box 396 • Fortuna, CA 95540 • (707) 725-5182 • Fax (707) 725-5591

CONSULTING - LAND DEVELOPMENT - DESIGN - SURVEYING

August 20, 2004

Patrick Owen
Humboldt County Environmental Health Department
100 H Street, Suite 100
Eureka, CA 95501

Subject: **SEPTIC REVIEW LETTER**

APN: 210-051-070
33865 State Highway 36
Bridgeville, CA

At the request of Arthur Vanloon, A.M. Baird Engineering has sampled soils for textural analysis, at the above referenced property to determine if the existing septic system is suitable for the residence.

In August of this year, samples taken by Mr. Vanloon at depths of 4 feet revealed Zone 2 sandy loam and sandy clay loam at test holes (TH) 1 and 2, respectively. The existing septic system consists of (1) 50-foot line each for the primary and reserve field and a 750 gallon storage tank. See the enclosed site detail for locations of the existing septic system and test holes 1 and 2. The existing septic system appears suitable for a 1 bedroom cabin.

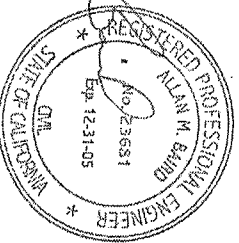
Enclosed are the following items:

- Site & Location maps with disposal field locations
- Soil texture sheet for TH#1, TH#2

If you have any questions concerning this letter or the percolation test results, please call our office at (707) 725-5182.

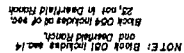
Sincerely,

Allan M. Baird
Principal Engineer



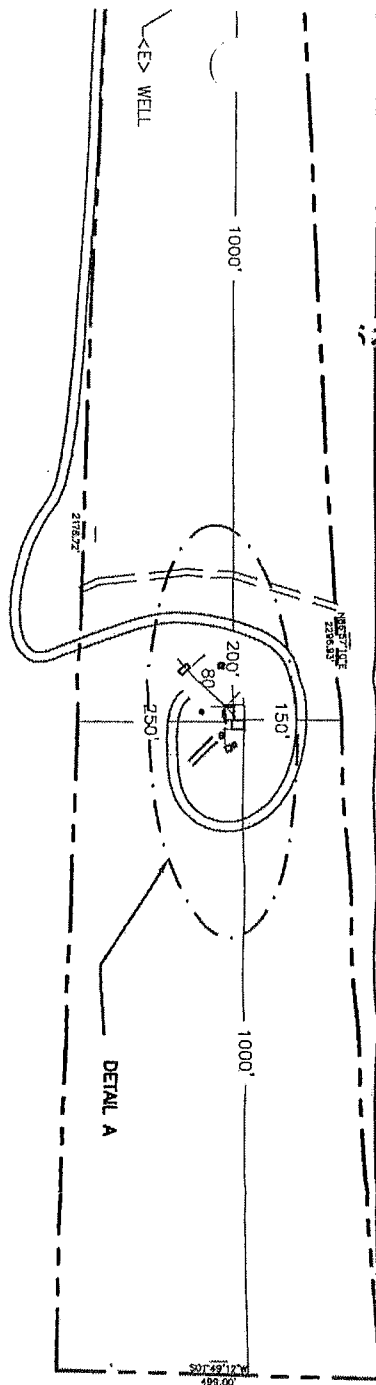
0027

TIN, R4E, HB&M



P.M. 1 Pg. 5 Deerfield Ranch (No. 3)
23 Pg. 118-117 Deerfield Ranch Unit No.
24 Pg. 79
Pot P.M. No. 1695 of P.M. BK 15, Pgs. 4-6

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles



RUTH VANLOON 5 STATE HIGHWAY 36 SITE PLAN		DRAWN BY CHECKED DATE	MADE BY DATE	A.M. Baird Engineering & Surveying 1257 Main St., P.O. Box 286, Fortuna, CA 95540, (707)725-5102	NO. DATE	DESCRIPTION REVISIONS	BY
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A.M. BAIRD ENGINEERING & SURVEYING

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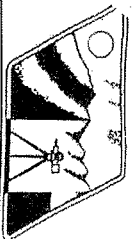
CONSULTING - LAND DEVELOPMENT - DESIGN - SURVEYING

WORKSHEET FOR SOIL TEXTURE

Project: Vanloon, Art
AP# 210-051-070

by: LLB
Lab Test Date: 8/10/2004

1	2	SAMPLE NUMBER
1	2	TEST HOLE
4'	4'	Depth
917.6	928.1	TOTAL SAMPLE WEIGHT
377.3	256.1	Coarse Weight
75	75	A. Overdry Weight (gm)
3:20pm	3:21pm	B. Starting Time (hr:min:sec)
78	78	C. Temp @ 40 sec. (F)
38	41	D. Hydrometer Reading @ 40 sec. (gm/l)
-4.5	-4.5	E. Composite Correction (gm/l)
33.5	36.5	F. True Density @ 40sec. (gm/l), (D-E)
77	77	G. Temp @ 2 hrs. (F)
15	21	H. Hydrometer Reading @ 2hrs. (gm/l)
-4.7	-4.7	I. Composite Correction (gm/l)
10.3	16.3	J. True Density @ 2 hrs. (gm/l), (H-I)
55.3	51.3	K. % Sand = $100 - [(F/A) \times 100]$
13.7	21.7	L. % Clay = $(J/A) \times 100$
30.9	26.9	M. % Silt = $100 - (K + L)$
sandy loam	sandy clay loam	N. USDA Texture



A.M. BAIRD

Engineering & Surveying

125 7MAIN STREET

• P.O. BOX 396 • FORTUNA, CA 95540 • (707) 725-5182

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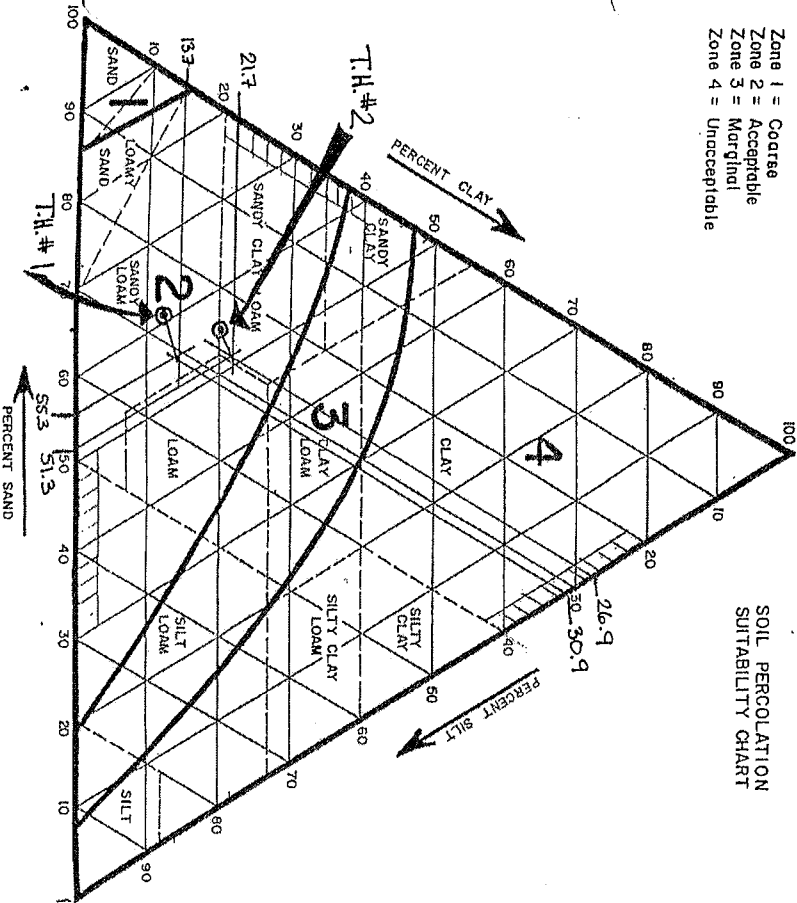
CLIENT: Vanborn, A

APN: 210-051-070

DATE: 8-11-04

Zone 1 = Coarse
Zone 2 = Acceptable
Zone 3 = Marginal
Zone 4 = Unacceptable

SOIL PERCOLATION
SUITABILITY CHART



1. COARSE ADJUSTMENT: T.H.#1 = 5.5, T.H.#2 = 3.5
2. BULK-DENSITY ADJUSTMENT:



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NOV 11 2004

1257 Main Street • P.O. Box 366 • Fortuna, CA. 95540 • (707) 725-1800 • Fax (707) 725-1801
OFFICE OF ENVIRONMENTAL HEALTH

CONSULTING - LAND DEVELOPMENT - DESIGN - SURVEYING

November 11, 2004

Patrick Owen
Humboldt County Environmental Health Department
100 H Street, Suite 100
Eureka, CA 95501

Subject: SEPTIC REVIEW LETTER

APN: 210-051-070
33865 State Highway 36
Bridgeville, CA

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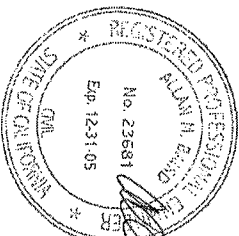
Enclosed are the following items:

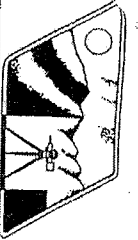
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Sincerely,

Allan M. Baird
Principal Engineer





K.M. BAIRD

Engineering & Surveying

125 MAIN STREET

• P.O. BOX 396 • FORTUNA, CA 95540 • (707) 725-5182

CONSULTING — LAND DEVELOPMENT — DESIGN — SURVEYING

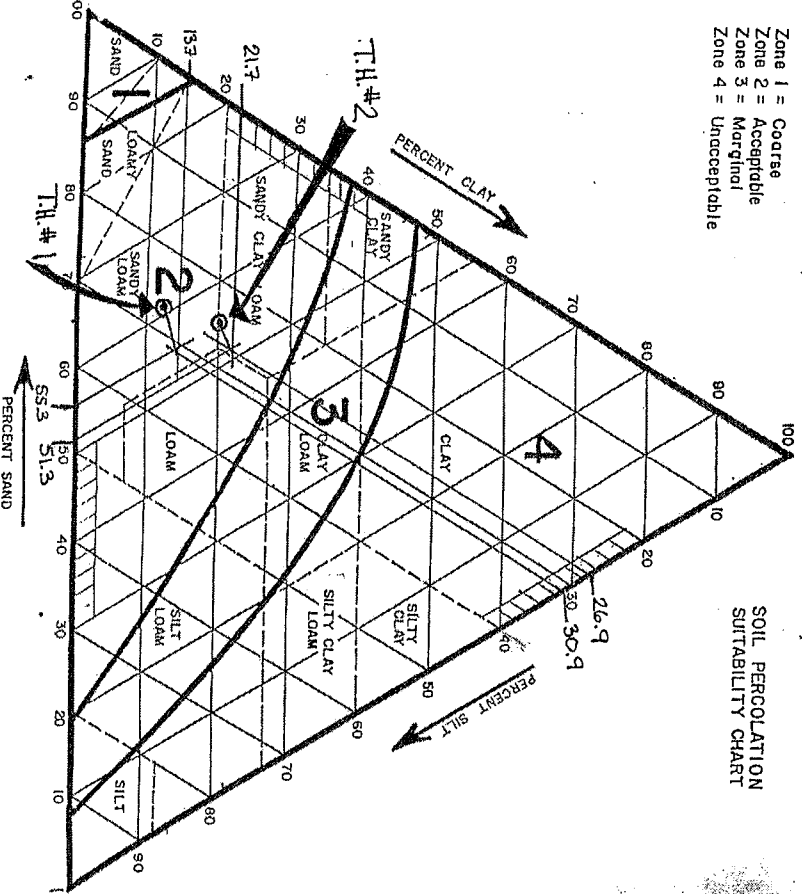
CLIENT: Vanloon, A

APN: 210-051-070

DATE: 8-11-04

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by: LLB
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30.9	26.9	M. % Silt = $100 - (K + L)$
sandy loam	sandy clay loam	N. USDA Texture
2	2	O. Soil Percolation Suitability Chart Zone
44.7	48.7	P. Combined % Silt and Clay
41.1	27.6	Q. Coarse % by weight
5.5	3.5	R. % Coarse Adjustment*

* [(2)(.00003Q^3+.0006Q^2+.5968Q-.0941)]

SECS. 13, 14, 23, 24, & POR. 10, 11, & 15
T1N, R4E, HB&M

210-05

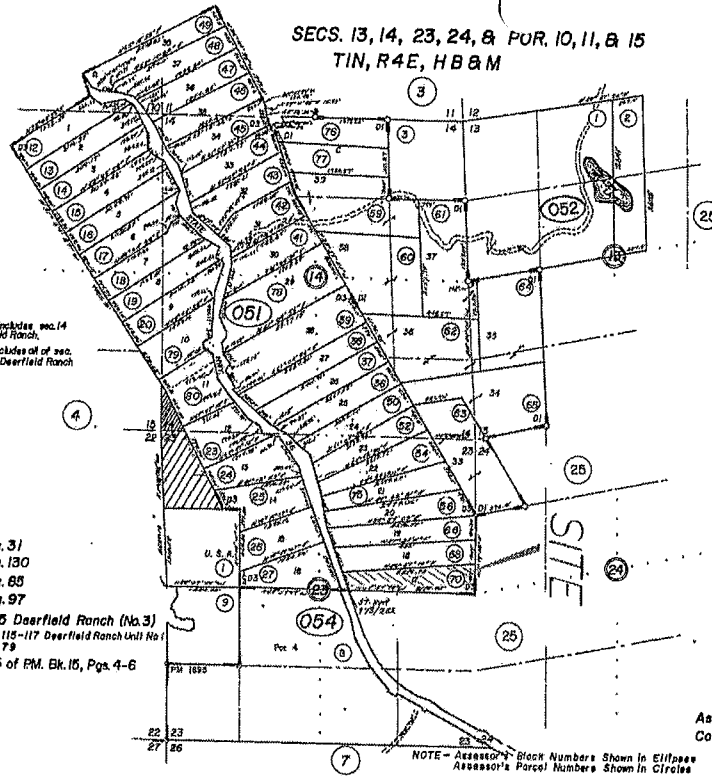
NOTE: Block 051 includes sec. 14
and Deerfield Ranch;
Block 054 includes all of sec.
23, not in Deerfield Ranch

L.S. 13 Pg. 31
15 Pg. 130
16 Pg. 68
22 Pg. 97

P.M. 1 Pg. 5 Deerfield Ranch (No. 3)
23 Pg. 115-117 Deerfield Ranch Unit No. 1
24 Pg. 78
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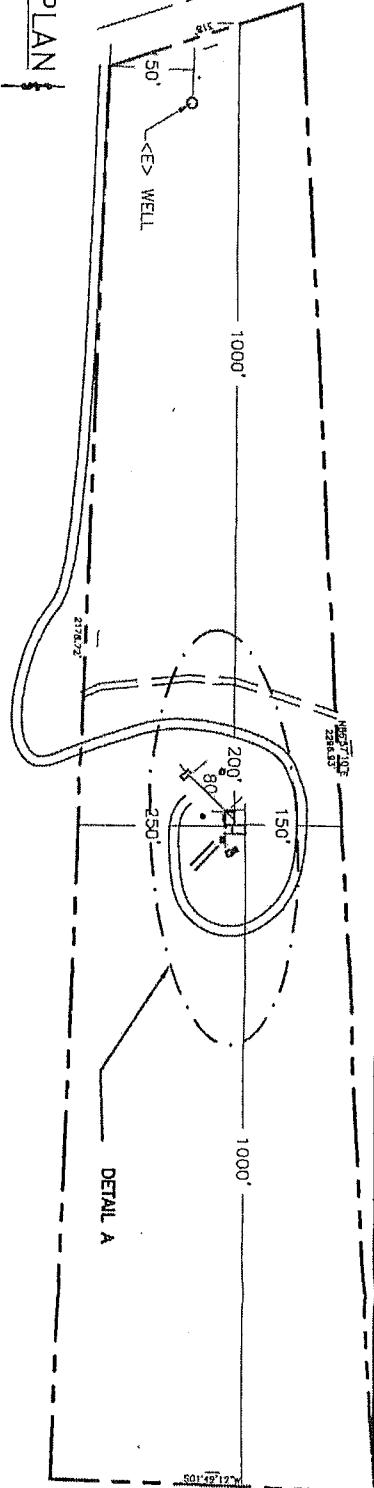
Assessor's Maps Bk. 210 - Pg. 05
County of Humboldt, Calif.

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles



SITE PLAN

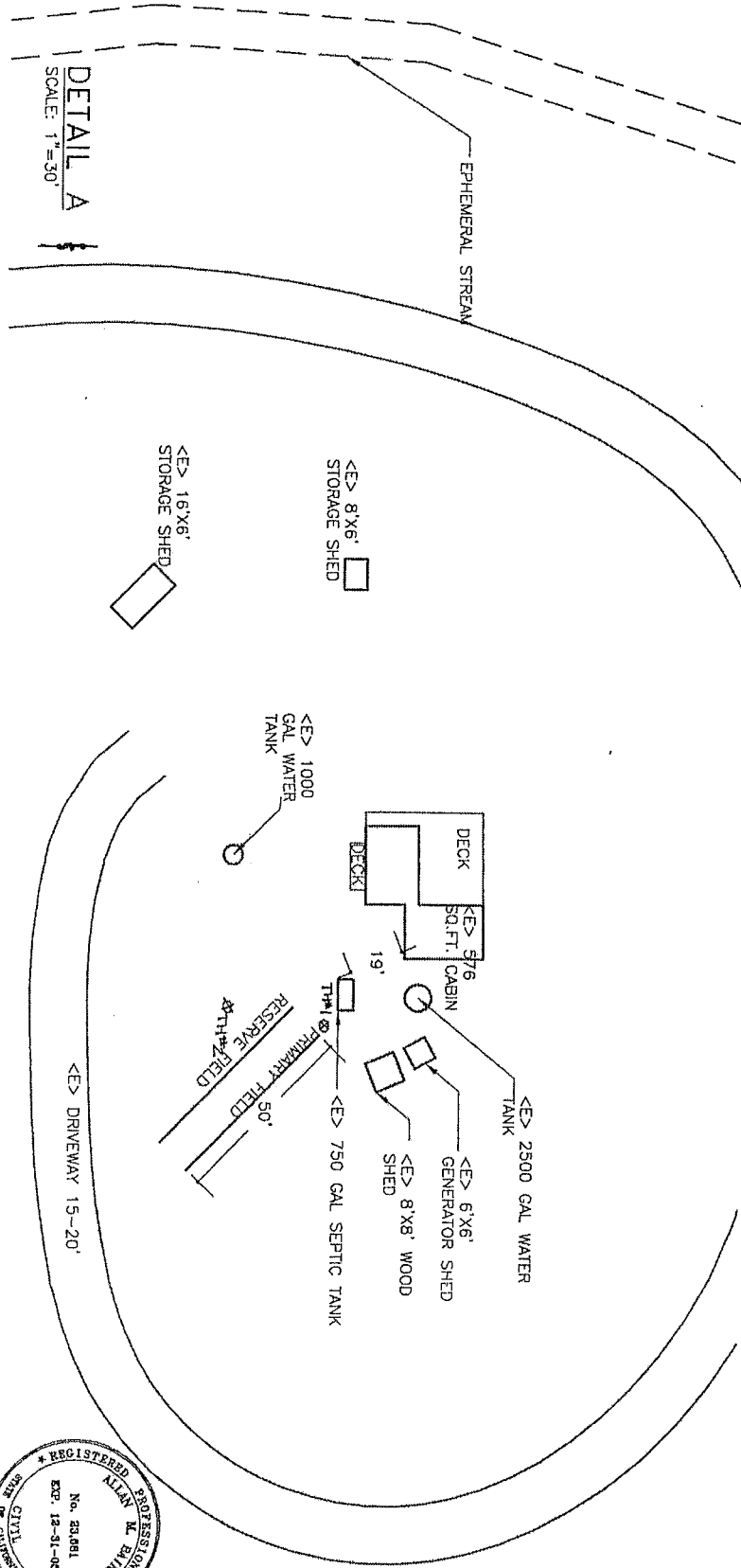
SCALE: NTS



DETAIL A

DETAIL A

SCALE: 1"=30'



ARTHUR VANLOON 33865 STATE HIGHWAY 36		A.M. Baird Engineering & Surveying 1237 Main St., P.O. Box 364, Fortuna, CA 95540, (707)773-5182		NO. DATE DESCRIPTION REVISIONS BY	
SITE PLAN					