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FILED
APR 6 1962

ENTERED
APR 6 1962

IN THE UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF CALIFORNIA
SOUTHERN DIVISION

UNITED STATES OF AMERICA,
Plaintiff,
vs.
FALLBROOK PUBLIC UTILITY
DISTRICT, et al.,
Defendants.

No. 1247-SD-C

FINDINGS OF FACT,
CONCLUSIONS OF LAW, AND
INTERLOCUTORY JUDGMENT NO. 37

NAVAL ENCLAVE

FINDINGS OF FACT

1.

Lands of the United States
Within the Naval Enclave

The United States of America is the owner in fee simple of the lands which comprise Camp Pendleton, United States Naval Ammunition Depot and the United States Naval Hospital, all of which are referred to as the Naval Enclave. There follows a brief statement respecting the several tracts which comprise the Naval Enclave.

United States Ammunition Depot

The United States of America on January 21, 1942, by condemnation, acquired in San Diego County, California, fee simple title to the lands now constituting that segment of the

LJ #37
PP 42-43
p. 54
Exhibit B

1 Stipulation; and their rights and the rights of all parties in
2 this case shall be and are determined by the laws of the State
3 of California.

4 That notwithstanding said Stipulation set forth in
5 Finding of Fact 47 above, there is no Federal water law as such
6 and of necessity this Court would be required to determine the
7 rights of all parties to the use of the waters of the Santa
8 Margarita River and its tributaries and to the use of the waters
9 which add to and support said River and its tributaries, pursuant
10 to the applicable laws of the State of California.

11 51.

12 Opinion Construing Stipulation

13 That heretofore this Court entered an Opinion dated
14 August 8, 1958, reported in United States of America v. Fall-
15 brook Public Utility District, et al., 165 Fed.Supp. 806, which
16 concerned the meaning, application and scope of the Stipulation
17 referred to in Finding of Fact 47 hereinabove, and also certain
18 pre-trial rulings. That to the extent that said Opinion is
19 not inconsistent with any finding entered herein, all rulings
20 as are set forth in said Opinion are adopted herewith.

21 52.

22 Prima Facie Evidence

23 That on Exhibit B attached to and made a part of
24 these findings there appear certain factual statements con-
25 cerning lands of the United States of America within the Naval
26 Enclave which concern such matters as wells, surface diver-
27 sions, gross acreages, ~~irrigated acreages~~, irrigable acreages
28 and water duty. Said factual statements which pertain to
29 wells and surface diversions are as of the date of this Inter-
30 locutory Judgment true. The factual statements contained in
31 said Exhibit B which pertain to gross acreages, ~~irrigated~~

1 ~~acres~~, irrigable acres and water duty are based on evi-
2 dence introduced in this case by the United States of America
3 with an express assurance by its counsel that apportionment
4 was not being sought at this stage of the litigation. Because
5 of this fact and the fact that this Court is not at this time
6 making any Order apportioning or regulating the use of the
7 waters involved herein, said facts pertaining to gross acres,
8 ~~irrigated acres~~, irrigable acres and water duty are not
9 material to any issue decided by Interlocutory Judgment No. 37
10 entered herewith. That in the exercise of this Court's
11 continuing jurisdiction in this cause said facts may well
12 be material to an issue presented to this Court in the future;
13 therefore, this Court finds that such factual statements which
14 are contained in said Exhibit B which pertain to gross acres,
15 ~~irrigated acres~~, irrigable acres and water duty are sup-
16 ported by the evidence in this case and such factual statements
17 shall be prima facie evidence as to gross acres, ~~irrigated~~
18 ~~acres~~, irrigable acres and water duty in any subsequent
19 proceedings before this Court in this cause; as used herein prima
20 facie evidence is that which suffices for the proof of the parti-
21 cular fact until contradicted or overcome by other evidence.

22
23 53.

24 Reference to Interlocutory Decree No. 25

25 That this Court has previously entered Findings of Fact,
26 Conclusions of Law and Interlocutory Decree No. 25 pertaining
27 to a State court judgment in the case of Rancho Santa Margarita
28 v. Vail, et al., Case No. 42850 in the records of the Superior
29 Court of the State of California, in and for the County of
30 San Diego.

31 - - - -

32 - - - -

1 Santa Margarita River, DeLuz Creek and Fallbrook Creek, such
2 lands have not been specifically considered in these findings,
3 but they can be readily ascertained in the future should it be
4 necessary to do so by reference to the areas of younger alluvial
5 deposits as depicted on said U. S. Exhibits 37, 69 and 70,
6 and the watershed line as depicted on Exhibit A attached hereto.

7 34.

8 That the exercise of the correlative riparian rights
9 as provided in Conclusions of Law 30, 31, 32 and 33 to the use
10 of such specified waters is subject to the continuing juris-
11 diction of this Court. That all uses of the waters of the
12 Santa Margarita River, DeLuz Creek, Fallbrook Creek and their
13 tributaries are subject to the continuing jurisdiction of this
14 Court.

15 35.

16 That all ground waters found within areas of deposits
17 of consolidated rocks, basement complex or weathered basement
18 complex as said deposits are depicted on U. S. Exhibits 37,
19 67 and 70 and within the Santa Margarita River watershed and the
20 Naval Enclave do not add to, support nor contribute to the Santa
21 Margarita River or any tributary thereto, and are local, vagrant,
22 percolating waters not a part of said River or any tributary
23 thereto.

24 36.

25 Such facts as are set forth on Exhibit B attached hereto
26 which pertain to gross acreages, irrigated acreages, irrigable
27 acreages and water duty shall be prima facie evidence as to such
28 matters in any subsequent proceeding before this Court in this
29 cause. As used herein, prima facie evidence is that which suf-
30 fices for the proof of the particular fact until contradicted
31 or overcome by other evidence.

54

TABULATION OF GROSS AND IRRIGABLE LANDS

AND

WATER POINTS WITHIN THE

SANTA MARGARITA RIVER WATERSHED

OF THE

NAVAL ENCLAVE

By Office of Ground Water Resources

INDEX

Page

1	Table I	- Gross and Irrigable Acreage
2	Table II	- Wells
3	Table III	- Water Duty
4	Description of Naval Ammunition Depot Diversions	
5-6	Description of Lake O'Neill Diversion	
7	Table IV	- Applied Duty of Water

TABLE I
GROSS AND IRRIGABLE ACREAGE

	<u>Irrigable</u>	<u>Non-Irrigable</u>	<u>Total</u>
Naval Ammunition Depot Acquired by Decree Filed 21 January 1942	4,858	2,080	6,938
Fallbrook Creek Watershed	2,952	856	3,808
Riparian to Santa Margarita River	624	1,081	1,705
Remainder	1,282	143	1,425
Camp Pendleton Acquired by Decree Filed 5 January 1943	13,974	14,575	28,549
Acquired by Decree Filed 22 December 1943	115	1,583	1,698
Riparian to Roblar Creek	33		
Riparian to De Luz Creek	39		
Acquired by Public Land Order No. 293 Dated 8 August 1945	0	1,509	1,509
Totals	18,947	19,747	38,694

TABLE II
WELLS WITHIN THE UNITED STATES NAVAL ENCLAVE
 AND WITHIN THE SANTA MARGARITA RIVER WATERSHED

<u>Well Number</u>	<u>Use</u>
9/4 14N1	Camp Supply
9/4 26M1	Camp Supply
9/4 29L1	Camp Supply
10/4 5D1	Camp Supply
10/4 7A2	Camp Supply
10/4 7H2	Camp Supply
10/4 7R2	Camp Supply
10/4 18E1	Camp Supply
10/4 18M4	Camp Supply
10/5 13R2	Camp Supply
10/5 23J1	Camp Supply
10/5 23K1	Camp Supply
10/5 26C1	Irrigation
10/5 26F1	Irrigation
10/5 35K1	Irrigation
11/5 2A1	Camp Supply
11/5 2D3	Irrigation
11/5 2E1	Irrigation
11/5 2F1	Irrigation

TABLE III

WATER DUTY FOR AGRICULTURAL CROPS
Grown in the Santa Margarita Watershed

CROP	YEARLY WATER DUTY Ac-Ft/Acre
Truck Gardening	1.67
Avocados	2.35
Citrus	1.86
Alfalfa	3.00
Deciduous	1.07
Mixed, Citrus Deciduous Avocados	2.35
Pasture	3.83
Row Crops (Commercial)	4.00
Small Grains (Oat, Wheat, Barley, etc.)	1.75

NAVAL AMMUNITION DEPOT DIVERSION
ON SANTA MARGARITA RIVER

The Naval Ammunition Depot water supply system consists of a diversion located on the Santa Margarita River in T9S, R4W, 14N. This diversion consists of an infiltration gallery laid beneath the river bed. The gallery extends approximately 164 feet from the west bank to the east bank of the river. It is composed of a horizontal concrete pipe entrenched normal to the river bed and averaging 15 to 19 feet in depth. This pipe is an 18 inch reinforced concrete pipe with 4 inch openings on the top half, spaced 90 degrees apart, and at two foot intervals. Around the pipe is a rock filled envelope consisting of 1 cubic foot or larger rocks. The water is discharged from the gallery through the pipe to a collecting well on the east bank of the stream.

The collecting well is 60 inches in diameter, 40 feet deep, and has a 60 inch precast concrete casing on the portion of the well above bedrock.

The water is pumped from the collecting well to a steel desanding tank which discharges into a 20 foot diameter wooden surge tank. From here it is pumped through an 8 inch cement lined, cement covered pipe, approximately 3,000 feet in length, into a 1,000,000 gallon concrete reservoir. From the reservoir the water passes through a chlorinator and into a 10 inch pipeline to the water distribution system. Tied to this water system is an emergency 100,000 gallon capacity elevated tank situated at T9S, R4W, 23J.

LAKE O'NEILL DIVERSION DITCH

The Lake O'Neill Diversion Ditch, henceforth called O'Neill Ditch rises in the Southwest Quarter of the Northwest Quarter of Section 5, Township 10 South, Range 4 West, San Bernardino Base and Meridian, where water is diverted from the Santa Margarita River by means of a weir dam. This dam is a barrier of quarried rock normal to the stream and embedded in the river bed for approximately sixteen feet. The weir dam will divert a maximum of 100 c.f.s. into O'Neill Ditch. From its point of beginning the ditch runs Southerly through the said Southwest Quarter of the Northwest Quarter of Section 5, said Township and Range for a distance of approximately 300 feet where it passes through a control structure composed of two 36 inch culverts with control gates on them. These gates can vary the flow from zero to 100 c.f.s. The ditch continues in a Southerly direction for a distance of about 400 feet where it passes through a modified five foot Parshall flume whose theoretical capacity is 100 c.f.s. The head on the flume is recorded continuously by a Stevens Water Level Recorder installed at the flume. The ditch then continues in its Southerly direction for a distance of about 600 feet into the Northwest Quarter of the Southwest Quarter of said Section 5 where it passes through a division box which allows water to be diverted into the off-channel spreading basins, continue down the ditch, or both. Then the ditch runs Southeasterly for a distance of about 350 feet where it passes through a three foot Parshall Flume with an approximate capacity of 75 c.f.s. and the water level is recorded by a Stevens Water Level Recorder installed at the flume. The ditch continues Southeasterly for a distance of approximately 825 feet; thence Southerly for a distance of approximately 1600 feet through the Southwest Quarter of the Southwest Quarter of said Section 5, said Township and Range and into the Northwest Quarter of the Northwest Quarter of Section 8, said Township and Range into a division box where water may be diverted through a culvert into Lake O'Neill, allowed to pass on into the Lake O'Neill spillway ditch, or both. At the end of the culvert where it empties into the lake there is a gate that will control the flow into the lake as desired.

Lake O'Neill lies within Sections 5 and 8, Township 10 South, Range 4 West, San Bernardino Base and Meridian, the bounds of which at maximum capacity are as follows: Beginning in the South line of the Northeast Quarter of the Northwest Quarter of Section 8, said Township and Range; thence Northeasterly through said Northeast Quarter of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of said Section 8 and into the Southwest Quarter of the Southeast Quarter of Section 5, said Township and Range; thence continuing North and Easterly touching the Southeast Quarter of the Southeast Quarter of said Section 5 and thence Northwesterly through the said Southwest Quarter of the Southeast Quarter and the Northwest Quarter of the Southeast Quarter, the Southeast

Corner of the Southeast Quarter of the Northwest Quarter; thence South through said Southeast Quarter of the Northwest Quarter; Northeast Quarter of the Southwest Quarter and the Southeast Quarter of the Southwest Quarter of said Section 5, said Township and Range and into the Northwest Corner of the Northeast Quarter of the Northwest Quarter of Section 8, said Township and Range; thence Southwesterly into the Northeast Corner of the Northwest Quarter of the Northwest Quarter; thence Southeasterly through said Northwest Quarter of the Northwest Quarter and the Northeast Quarter of the Northwest Quarter to the point of beginning.

TABLE IV
Applied Duty of Water

Santa Margarita Watershed within Camp Pendleton, California

	Acres	Irrigation Requirements Acre Feet												Total Requirement Ac Ft/Yr				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Total			
Row Crops (2 Crops)	6,502	0.25	0.25	0.25	0.25	0.50	0.50	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	4.00	26,008.0
		1,625.5	1,625.5	1,625.5	1,625.5	3,251	3,251	3,251	3,251	1,625.5	1,625.5	1,625.5	1,625.5	1,625.5	1,625.5	1,625.5		
Citrus	2,140	0.00	0.00	0.00	0.12	0.26	0.26	0.28	0.28	0.28	0.28	0.26	0.26	0.12	0.00	0.00	1.86	3,980.4
		-	-	-	256.8	556.4	556.4	599.2	599.2	599.2	599.2	556.4	556.4	256.8	-	-		
Avocados	7,246	0.00	0.00	0.00	0.17	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.17	-	-	2.35	17,028.0
		-	-	-	1,231.8	2,391.2	2,391.2	2,463.6	2,463.6	2,463.6	2,463.6	2,391.2	2,391.2	1,231.8	-	-		
Irrigated Pastures	3,059	0.00	0.00	0.20	0.40	0.40	0.43	0.60	0.60	0.60	0.60	0.40	0.40	0.20	0.00	0.00	3.83	11,716.0
		-	-	611.8	1,223.6	1,223.6	1,315.4	1,835.4	1,835.4	1,835.4	1,835.4	1,223.6	1,223.6	611.8	-	-		
Total Irrigable	18,947	1,625.5	1,625.5	2,237.3	4,337.7	7,422.2	7,514	8,149.2	8,149.2	8,149.2	6,523.7	5,796.7	3,725.9	1,625.5	2.8	2.8	58,732.4*	
Percent of Water Used		2.8	2.8	3.8	7.4	12.5	12.8	13.9	13.9	13.9	11.1	9.9	6.3	2.8			100%	
Grazing	19,605																	
Fresh Water Surfaces	142																	
Total Area	38,694																	

*Add 10% for Project Duty to take care of losses from point of diversion to the field.

OFFICE OF GROUND WATER RESOURCES
November 1958



UNITED STATES MARINE CORPS
MARINE CORPS BASE
BOX 555010
CAMP PENDLETON CALIFORNIA 92055-5010

IN REPLY REFER TO:
5090.5A
ENVSEC/512

JUN 23 2000

From: Commanding General, Marine Corps Base, Camp Pendleton
To: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Pendleton (Attn: Mr. Larry Carlson)

Subj: DECISION MEMORANDUM, CATEGORICAL EXCLUSION - REVISION;
INSTALL SIX MONITORING WELLS FOR PERMIT 15000 FEASIBILITY
STUDY, CHAPPO/UPPER YSIDORA GROUNDWATER BASINS (NEPA
200044R)

Ref: (a) AC/S FAC ltr 11330 FACWATER of 23 Mar 00
(b) MCO P5090.2A, Chapter 12
(c) CPMN BO 5090.2

Encl: (1) Acknowledgment of Receipt Form

1. This Categorical Exclusion cancels Categorical Exclusion
NEPA 200044.

2. In response to reference (a), this document satisfies the
National Environmental Policy Act (NEPA) review requirement for
the subject action in compliance with references (b) and (c).
The subject action qualifies as a categorical exclusion under
paragraph 12104.3b (26) of reference (b) which states:

(26) "Engineering effort undertaken to define the elements of
a proposal or alternatives sufficiently so that the
environmental effects may be assessed."

3. To avoid environmental impacts, the following shall be
incorporated into the project work scope:

a. The project includes the following monitoring well
locations: Monitoring Well Site 1; Monitoring Well Site 2 will
be moved north to grid coordinates 693885 to avoid a known
archaeological site; Monitoring Well Site 3; Monitoring Well
Site 4; Monitoring Well Site 9; and Monitoring Well Site 10.

b. The project work and lay down areas shall be limited to
the sites specified in paragraph 3.a above and shall not be
permitted to encroach on the surrounding undisturbed areas.

c. Access to the project sites shall utilize existing Base
roads to the greatest extent possible; off-road vehicle

Subj: DECISION MEMORANDUM, CATEGORICAL EXCLUSION - REVISION;
INSTALL SIX MONITORING WELLS FOR PERMIT 15000 FEASIBILITY
STUDY, CHAPPO/UPPER YSIDORA GROUNDWATER BASINS (NEPA
200044R)

operations shall be conducted in such a manner as to minimize
the impact on the existing vegetation, wildlife and terrain.

d. To minimize impacts to known nesting Least Bell's Vireos,
the contractor must contact AC/S, ES, Wildlife Management Branch
at 725-9729/30 for guidance with the placement of each
monitoring well before implementation of the proposed project.

e. During drilling and monitoring well installation, any
holes, trenches, or piles of fill, soil, or sand shall have a
silt fence constructed around them at the end of the day to
prevent toads from falling into holes or trenches and prevent
them from burrowing into the disturbed soil and being harmed
when the soil is used. Contact AC/S, ES, Wildlife Management
Branch at 725-9729 for additional guidance. Excess soil from
the drill hole is to be spread around the area in a thin layer.

f. In the event that archaeological materials (e.g. shell,
bone or stone tools) are found during project operations, work
must be halted and the AC/S ES Archaeology Branch notified at
725-9738, as soon as practicable, but no longer than 24 hours
after the discovery. Project work at the discovery site shall
not proceed until approved by the Base Archaeologist.

g. The contractor is responsible for their own and
subcontractors hazardous material accidents in accordance with
Base, local, state, and federal laws and regulations including
reporting, clean up, and associated costs.

4. If the subject action is not executed within one year of the
date of this document (ground-breaking, demolition, other
physical activity) or if the scope of the action changes from
the description provided in the submittal, this categorical
exclusion shall become void and further environmental review
will be required to determine appropriate National Environmental
Policy Act documentation.

5. For further information regarding this matter, please
contact the AC/S ES, NEPA Branch at 725-9763/9759.



T.P. LHUILLIER
By direction

ACKNOWLEDGMENT OF RECEIPT
for
DECISION MEMORANDUM

From: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Pendleton (Attn: Larry Carlson)

To: Assistant Chief of Staff, Environmental Security, Marine Corps Base, Camp Pendleton (Attn: NEPA Branch)

Subj: DECISION RECORD, CATEGORICAL EXCLUSION - REVISION; INSTALL SIX MONITORING WELLS FOR PERMIT 15000 FEASIBILITY STUDY, CHAPPO/UPPER YSIDORA GROUNDWATER BASINS (NEPA 200044R)

Ref: (a) CG, MCB ltr 5090.5A ENVSEC/512 of June 2000

1. I hereby acknowledge receipt of the Decision Memorandum issued June 2000, for the subject proposed action and I have read and understand the provisions/conditions set forth in reference (a).

Name, Rank & Title of Action Sponsor

Signature of Action Sponsor

Date

ENCLOSURE (1)



STETSON ENGINEERS INC.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901
Email: stevenp@stetsonengineers.com
Telephone: 415-457-0701

Date: June 16, 2000

Ms. Marisue Crystal
County of San Diego
Department of Environmental Health Land and Water Quality Division
PO Box 129261,
San Diego, CA 92112-9261

Dear Ms. Crystal:

Enclosed you will please find the completed permit application, a check for \$900.00 and site location map for the observation wells at Camp Pendelton.

Because this project is now on the fast track anything we can do to help expedite it would be greatly appreciated. We are scheduled to start drilling on the 26th of June. If your office cannot issue the permit before this time please let me know as soon as possible.

Thank you for your prompt attention to this matter.

Regards,

Steven Plunkett

Staff Geologist
Stetson Engineers

WATER RESOURCES ENGINEERS



PERMIT # W99110
A.P.N. # 101-000-00
EST # H05939

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: AREA 2671, SO. & S.W. OF HOSPITAL AND O'NEILL LAKE

SITE ADDRESS: MCB CAMP PENDLETON, CAMP PENDLETON, CA 92055

PERMIT FOR: INSTALL 6 GROUNDWATER MONITORING WELLS

PERMIT APPROVAL DATE: JUNE 23, 2000

PERMIT EXPIRES ON: OCTOBER 21, 2000

PERMIT CONDITIONS:

1. All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 74-90.
2. All wash water must be contained and disposed of properly.
3. Submit complete laboratory data for both soil and groundwater with the well logs.
4. Submit all the information specified in the 2000 SAM Manual in:
Section 5, Page 3 (1)
5. All water and soil placed in drums must be labeled and stored as specified in the 2000 SAM Manual in:
Section 5, Page 7, (5)
6. This office must be given 48 hour notice of any drilling activity on this site. Please contact Marisue Crystal at (619) 338-2339.
7. This office must be given advanced notification of drilling cancellation. Please contact Marisue Crystal at (619) 338-2339.

NOTE:

This permit does not constitute approval of a workplan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Workplans are required for all unauthorized release investigations in San Diego County.

APPROVED BY: _____

DATE: 06/23/00

Notified: by Fax 6/23/00



PERMIT APPLICATION
GROUNDWATER

RECEIVED

MAY 21 11 19 AM '00

ENVIRONMENTAL
HEALTH SERVICES

OFFICE USE ONLY

PERMIT #W 99110
SAM CASE # 05939
DATE RECEIVED: 6-2-00
FEE PAID: \$900.- #11695

VADOSE MONITORING WELLS
AND EXPLORATORY OR TEST BORINGS

RECEIVED
JUN 20 11 00 AM '00

A. RESPONSIBLE PARTY STETSON ENGINEERS INC. Phone (415) 457-0701
Mailing Address 2172 E FRANCISCO BLVD. City SAN RAFAEL State CA Zip 94901
Contact Person STEPHEN REICH/STEVEN PLUNKETT Phone (415) 457-0701 ext. _____

B. SITE ASSESSMENT PROJECT IF APPLICABLE #H _____

C. CONSULTING FIRM STETSON ENGINEERS INC.
Mailing Address 2171 E. FRANCISCO BLVD, STEK City SAN RAFAEL State CA Zip 94901
Registered Professional STEPHEN REICH Registration # 58713 (RG, RCE, CEG)
Contact Person STEVEN PLUNKETT Phone (415) 457-0701 ext. 41

D. DRILLING COMPANY GREGG IN-SITU INC. C57# 485165 Phone (562) 427-6899
Mailing Address 2726 WALNUT AVE City SIGNAL HILL State CA Zip 90755

E. CONSTRUCTION INFORMATION

TYPE OF WELLS/ BORINGS TO BE CONSTRUCTED	MATERIALS TO BE USED		PROPOSED CONSTRUCTION
<input checked="" type="checkbox"/> Groundwater <u>6</u> <input type="checkbox"/> Vadose _____ <input type="checkbox"/> Boring _____ <input type="checkbox"/> Other _____	CASING Type <u>PVC</u> Gauge _____ Diameter _____ Well Screen Size _____ Filter Pack _____ (Specify) <u>#3 SAND</u>	SEAL <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Cement & Bentonite <input type="checkbox"/> Sand-Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Estimated ground water depth <u>10</u> ft. CEMENT SEAL <u>0</u> to <u>20'</u> BENTONITE SEAL _____ to _____ FILTER PACK <u>78'</u> to <u>100'</u> PERFORATION <u>80'</u> to <u>100'</u> PROPOSED DRILLING DATE <u>4/00</u>
NUMBER OF WELLS TO BE DESTROYED # _____	Drilling Method <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Air Rotor <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Percussion <input type="checkbox"/> Other _____	NOTE: For wells with multiple completion attach a well construction diagram	

I agree to comply with the requirements of the current Site Assessment and Mitigation Manual, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction.

DRILLER'S SIGNATURE [Signature] DATE 6/19/00

Within 30 days of completion, I will furnish the Monitoring Well Permit Clerk with a complete and accurate well/boring log. I will certify the design and construction/or destruction of the well/borings in accordance with the permit application.

PERMITS/CEG SIGNATURE [Signature] DATE 4/28/00

5/12/00 T/C TO S. Plunkett - left v.m. msg - W need Driller Signature

2) need better description of location of wells. MSU

F. SITE INFORMATION

101-000-00
1. ASSESSOR'S PARCEL NUMBER TOWNSHIP 10S RANGE 4W SECTION 7
Site Name 2671
Site Address UNITED STATES MARINE CORPS BASE City OCEANSIDE Zip _____

PROPERTY OWNER UNITED STATES Phone _____
Mailing Address _____ City OCEANSIDE State _____ Zip _____

NUMBER OF WELLS 1 TYPE OF WELLS OBSERVATION _____

101-000-00
2. ASSESSOR'S PARCEL NUMBER TOWNSHIP 10S RANGE 4W SECTION 8
Site Name 2671
Site Address UNITED STATES MARINE CORPS BASE City OCEANSIDE Zip _____

PROPERTY OWNER UNITED STATES Phone _____
Mailing Address _____ City OCEANSIDE State _____ Zip _____

NUMBER OF WELLS 1 TYPE OF WELLS OBSERVATION _____

101-000-00
3. ASSESSOR'S PARCEL NUMBER TOWNSHIP 10S RANGE 5W SECTION 14
Site Name _____
Site Address MCB CAMP PENDELTON City OCEANSIDE Zip _____

PROPERTY OWNER UNITED STATES Phone _____
Mailing Address _____ City OCEANSIDE State _____ Zip _____

NUMBER OF WELLS 1 TYPE OF WELLS OBSERVATION _____

4. ASSESSOR'S PARCEL NUMBER TOWNSHIP 10S RANGE 5W SECTION 26
Site Name _____
Site Address MCB CAMP CAMP PENDELTON City _____ Zip _____

PROPERTY OWNER UNITED STATES Phone _____
Mailing Address _____ City OCEANSIDE State _____ Zip _____

NUMBER OF WELLS 1 TYPE OF WELLS OBSERVATION _____

G. FEES:

ACTIVITY	FEE SCHEDULE	AMOUNT
Permit for Well Installations Only (Groundwater Monitoring Wells Vadose, Vapor Extraction Wells)	\$150.00 each	(<u> 5 </u> x \$150.00) \$ <u>900</u>
Permit for Borings Only (CPT's, Hydropunch, Geoprobos, Temp. Well Points, etc.)	\$150.00 for the first boring \$90.00 for each additional boring	\$ _____ (_____ x \$ 90.00) \$ _____
Permit for Well Destructions Only	\$150.00 for the first destruction \$140.00 for each additional destruction	\$ _____ (_____ x \$140.00) \$ _____
Permit for any Combination of Well Installations, Borings & Destructions	The first activity (of any type) will be \$150.00. Additional activities will be as follows: \$150.00 for each well \$90.00 for each boring \$140.00 for each well destruction	\$ _____ (_____ x \$150.00) \$ _____ (_____ x \$ 90.00) \$ _____ (_____ x \$140.00) \$ _____
	TOTAL COST OF PERMIT	\$ _____ _____

H. APPLICATION SUBMITTAL, PLAN APPROVAL, PERMIT ISSUANCE, AND REQUIRED INSPECTIONS

Submit one (1) original and two (2) copies of this application package, including plan drawings with the required fee to the Monitoring Well Permit Clerk, Department of Environmental Health, Site Assessment and Mitigation Program (SAM). 1255 Imperial Avenue, San Diego, CA 92101. Or mail to P. O. Box 129261, San Diego, CA 92112-9261. Checks should be made payable to the County of San Diego.

A permit will be issued by SAM upon review and approval of the application and plans. The required fees must be submitted with the application package. Information in addition to that presented in the application package may be needed in order to obtain final approval. No work is to begin on the proposed project until a permit has been issued. The required inspections cannot be scheduled until a permit is issued.

Once the permit has been issued, it is the responsibility of the permittee to notify SAM at least two (2) working days in advance to schedule each required inspection.

USE ONE APPLICATION PACKAGE FOR A SINGLE SITE PROJECT. A SINGLE PERMIT WILL BE ISSUED FOR A SINGLE SITE PROJECT, EVEN IF WELLS/BORINGS ARE COMPLETED ON MORE THAN ONE PROPERTY. FOR MULTIPLE SITE PROJECT'S, USE SEPARATE APPLICATIONS.

PERMIT APPLICATION FOR
GROUND WATER AND VADOSE MONITORING WELLS
EXPLORATORY OR TEST BORINGS

- For well destruction, complete only #1 below.
- Well design, logging and construction must be supervised by a Geologist, Engineering Geologist or Civil Engineer who is registered or certified by the State of California.
- Well driller must have an active C-57 License and current \$2,500 bond with the County.
- Provide a plot plan giving location of property lines, existing improvements such as structures, underground tanks, underground utilities, underground piping, and the proposed monitoring and/or observation wells.
- If applicable, provide a signed copy of the Property Owner Responsibility form for each property listed in Section "F".
- If applicable, provide a signed copy of the Property Owner Responsibility form for each property listed in Section "F". Provide encroachment/excavation permit and/or traffic control permit for work to be done in street or public right of way.

1. If wells are to be destroyed, provide a description of method of destruction. _____

2. What is the proposed purpose of the well/boring? The purpose of the borings is to obtain a continuous sample to determine lithology and to monitor static water levels.

3. What procedures will be used to prevent the well/boring from providing an avenue to contamination during construction?

The wells will be located a sufficient distance from any known contamination source and where possible, the wells will be located upgradient from potential contamination sources. Upon completion, the annular space between the top of the filter pack and the
(see back)

4. What field procedures will be utilized to determine if contamination exists?

A grab sample will be obtained and sent to a registered laboratory of analysis.

5. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving?

A split spoon auger rig will be used to obtain a continuous sample. Samples will then be sent to a registered laboratory for analysis.

6. What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)?
A basic suite of cations and anions, combined with VOCs and metallic elements.
7. How will samples be transported and preserved? Samples will be transported in sealed inert containers and sent to a registered laboratory.
8. What sampling methods will be used? A split spoon auger rig will be used for well drilling and a grab batch sample will be separated from the cutting.
9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction of Vadose and Ground Water Monitoring Wells (Current SAM Manual Requirements). If yes, specify these variations.
There will be no variation for the current SAM guidelines.
10. What procedures will be used to ensure no contamination will be introduced by the drilling equipment?
The drilling tools will be sanitized with steam cleaning before the drilling program begins.
11. What methods will be used to clean sampling equipment? The sampling equipment will be sanitized with steam cleaning methods.
12. What cleaning method will be used to clean casing and screen prior to installation? The PVC casing will be sanitized with steam cleaning methods.