



**MONTEREY PENINSULA
WATER MANAGEMENT DISTRICT**

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STATE WATER RESOURCES
CONTROL BOARD

2003 AUG -8 PM 2:18

DIVISION OF WATER RIGHTS
SACRAMENTO

August 7, 2003

Steve Herrera
Chief, Water Rights Permitting Section
Division of Water Rights
State Water Resources Control Board
P.O. Box 2000
Sacramento, CA 95812-2000

Subject: Application for Temporary Permit for Diversion and Use of Water from the Carmel River for the Seaside Basin Test Injection Well Project

Dear Mr. Herrera:

This letter transmits an application for Temporary Permit for the above-referenced project, in accordance with Section 1425 et seq. of the California Water Code (Temporary Permits). Enclosed are two checks, \$100 to the State Water Resources Control Board (SWRCB) and \$850 to the California Department of Fish and Game. The project map, titled "Seaside Basin Pilot Injection/Storage Project" and dated August 1997, is on file with your office under Application T30676/Permit 20963.

This application is submitted to allow continued testing of the Monterey Peninsula Water Management District's (MPWMD's) test injection well project in the Seaside Basin during the upcoming Water Year (WY) 2004 recharge season. The requested diversion rates and quantities are not changed from those in our application and permit for the WY 2003 season (Application T031359, Temporary Permit 21143). A significant change from last year's application is that we propose to conform to the instream flow regime presented in the report titled Instream Flow Needs for Steelhead in the Carmel River, Bypass flow recommendations for water supply projects using Carmel River waters (National Marine Fisheries Service, Southwest Region, Santa Rosa Field Office, June 3, 2002). These recommendations were the basis of the instream flows specified in Condition 7 of the permit issued for testing during the WY 2003 season (Temporary Permit 21143).

A brief summary of our injection testing program to date, relative to the SWRCB permitting process, is provided below.

WY 1998 Season: Planning work for the MPWMD's Seaside Basin pilot injection well began in 1997, as discussed in our letter to your office dated May 6, 1997. MPWMD submitted an application for Temporary Urgency Permit on January 26, 1998 (Application T30676). A permit was issued on April 6, 1998 (Temporary Permit 20963). Because of the

3/8/03
AS 550.00
AS 100.00

timing of permit issuance and subsequent well drilling delays, we were only able to conduct minimal well testing at the close of the WY 1998 recharge season. The pilot injection well was constructed with perforations within the shallower aquifer zone of the Seaside Basin, the Paso Robles Formation. Accordingly, this well is now referred to as the Paso Robles Test Injection Well (PRTIW). Injection wells completed into this shallower zone are less expensive than wells penetrating into the deeper zone, the Santa Margarita Sandstone, so our testing program focused on this zone first.

WY 1999 Season: In the hopes of conducting a full season of testing at the PRTIW, we submitted an application for renewal of the temporary permit on August 21, 1998 (Application T30769). Upon completion of the required noticing and responses to objections that were filed, this permit was issued on December 14, 1998 (Temporary Permit 20983). Carmel River flow conditions became acceptable for diversions under this permit in late January 1999, and we were able to inject a total of 195 acre-feet of Carmel River system water prior to the end of the recharge season on May 31, 1999. Much was learned during this first full season of injection testing. Most importantly, we gained a firmer understanding of the limitations of the shallower Paso Robles aquifer zone. The results of the injection testing during this season revealed that the aquifer characteristics of the shallower zone are not sufficient for effective backflushing to prevent well plugging. Accordingly, in March 1999 we began seeking the necessary approvals from local jurisdictions to install a full-scale test injection well into the deeper Santa Margarita aquifer zone. The proposed location for the new test well is adjacent to the PRTIW on former Fort Ord lands that are presently under the ownership of the U.S. Army. This test well location is within 1/4 mile of the PRTIW.

WY 2000 Season: In anticipation of more expanded injection testing this season, we submitted a new temporary permit application to your office on August 25, 1999 (Application 30951T). Subsequent to completion of the noticing requirements and responses to objections, this permit was issued on December 13, 1999 (Temporary Permit 21016). Unfortunately, securing land use permit and access approvals for the full-scale test well proved to be more complex than originally envisioned, and we did not have the necessary approvals from the City of Seaside (the local land use authority) and the Army (the land owner) before the Carmel River flows became acceptable for diversions in late January 2000. Consequently, we began testing again at the PRTIW and continued until flow conditions diminished to 40 cubic feet per second in late May 2000. During this period, we injected approximately 170 acre-feet of water at the PRTIW. A more complete summary of testing during this season was provided in our letter to your office dated June 30, 2000. This testing allowed us to gain valuable experience with the operational aspects of ground-water injection in the Seaside Basin, and provided additional information regarding likely ongoing maintenance efforts and costs that would be encountered with a long-term injection program. During WY 2000, no testing was conducted at an alternate site, the Ord Grove #1 well, which is an inactive Cal-Am production well that has perforations within the Santa Margarita aquifer zone. The condition of this well was investigated, but a decision to conduct injection testing was deferred due to the poor condition of the well casing.

WY 2001 Season: In anticipation of securing approvals for the next phase of feasibility investigations (i.e., testing of the Santa Margarita aquifer zone), MPWMD submitted an application for temporary permit to your office on August 24, 2000 (Application 31100T), and a permit was issued on January 11, 2001 (Temporary Permit 21080). Although MPWMD had obtained local land use approval for the new full-scale injection well from the City of Seaside in April 2000, final approvals were not secured from the U.S. Army due to ordnance clearance delays until the beginning of the recharge season in late January 2001. Injection testing of the PRTIW was conducted January through May, but had to be suspended intermittently once drilling of the new well began in February. The new test well was completed in April, and preliminary testing of the new well was conducted that month. The new full-scale test well is now referred to as the Santa Margarita Test Injection Well (SMTIW). A total of 77 acre-feet of water from the Carmel River basin was injected in the Seaside Basin in WY 2001. A more complete summary of testing during this season is provided in our letter to you dated July 10, 2001.

WY 2002 Season: MPWMD submitted an application for the WY 2002 season on July 16, 2002 (Application T031230), and a permit was issued on December 3, 2001 (Temporary Permit 21116). Based on the results from the preliminary testing of the SMTIW at the close of the WY 2001 season, it was determined that significant modifications would be required to the Cal-Am distribution system in Seaside to accommodate the desired flow rates for injection testing at the SMTIW during WY 2002. Accordingly, MPWMD developed the design plans and worked with Cal-Am to complete installation of the required modifications in February 2002. Immediately upon completion, formal testing of the SMTIW was conducted for approximately six weeks until Carmel River flow conditions declined below the permitted limits in April 2002. Despite the brief testing period at the SMTIW, the results exceeded initial injection capacity expectations and allowed for additional understanding about future operation of an expanded injection well field in the Seaside Basin. During WY 2002, approximately 310 acre-feet of Carmel River Basin water were diverted for injection in the Seaside Basin. WY 2002 testing is more completely described in our letter to you dated June 26, 2002.

WY 2003 Season: MPWMD submitted an application for the WY 2003 season on September 6, 2003 (Application T031359), and a permit was issued on January 22, 2003 (Temporary Permit 21143). The principal reason for the length of time taken to issue the permit was that objections were submitted by NOAA Fisheries and the California Department of Fish and Game regarding MPWMD's proposed use of the instream flow requirements that had been specified in permits for prior years' testing. The objections were withdrawn when MPWMD agreed to the instream flow recommendations regime presented in the report titled Instream Flow Needs for Steelhead in the Carmel River, Bypass flow recommendations for water supply projects using Carmel River waters (National Marine Fisheries Service, Southwest Region, Santa Rosa Field Office, June 3, 2002). Injection testing of the SMTIW commenced on January 24, 2003, and continued intermittently until May 15, 2003. During the WY 2003

Steve Herrera
August 7, 2003
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recharge season, a total of 168 acre-feet were diverted from Carmel River sources through the Cal-Am distribution system for injection testing purposes at the SMTIW. The District and Cal-Am are currently working with the California Department of Health Services (CDHS) to secure approval to conduct the recovery phase of testing this season. The recovery phase will assist in evaluating the "recovery efficiency" (i.e., the percentage of injected water that can effectively be recovered) for a larger Aquifer Storage and Recovery (ASR) project in the basin. As part of this testing, injected water from the SMTIW will be pumped back out and into the Cal-Am distribution system while conducting water quality monitoring. The focus of water quality monitoring will center on sampling for Disinfection By-Products (DBPs) to assist in determining the fate of DBPs in the recovered water, as recently requested by the CDHS. WY 2003 testing is more completely described in our letter to you dated July 1, 2003.

We are encouraged by the results of the past five full years of injection testing in the Seaside Basin, and would like to expand the scope of our testing, but within the same diversion limits, during the upcoming WY 2004 season. We believe this project concept is consistent with the California Department of Water Resources' emphasis on the importance of conjunctive use as a critical component of water supply augmentation statewide, as described in Bulletin 160-98, The California Water Plan Update. In addition, this project concept has been identified by the California Public Utilities Commission as a key component in the long-term water supply contingency plan (Plan B) for the Monterey Peninsula.

MPWMD is assembling information in support of our Petition for Change to Permits 7130B and 20808 for a full-scale Seaside Basin injection and recovery project. These materials will be submitted not later than September 30, 2003.

If any additional information is required in order to process this permit application, please do not hesitate to contact Andy Bell, MPWMD District Engineer (831-658-5620), or Joe Oliver, MPWMD Water Resources Manager (831-658-5640). We appreciate the continued cooperation and assistance from your office on this project.

Sincerely,



Fran Farina
Acting General Manager

Enclosures

cc: David C. Laredo, MPWMD General Counsel
Joe Oliver, Darby Fuerst, Andy Bell, MPWMD

MINIMUM FILING FEE: \$100.00
 FILE ORIGINAL & ONE COPY
 TYPE OR PRINT IN BLACK INK
 (For explanation of entries required, see
 booklet "How to file an Application for
 Appropriate Water in California")

State of California
 State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
 Info: (916) 341-5300, FAX: (916) 341-5400, Web: <http://www.waterrights.ca.gov>

Temporary Permit

APPLICATION TO APPROPRIATE WATER

APPLICATION No. _____
 (Leave Blank)

1. APPLICANT

Monterey Peninsula Water Management District _____ (831) 658 5650
 (Name of applicant) (Telephone - between 8 a.m. and 5 p.m.)

P.O. Box 85 _____ Monterey _____ CA _____ 93942-0085
 (Mailing address) (City or town) (State) (Zip code)

2. SOURCE

a. The name of the source at the point of diversion is Carmel River
 (If unnamed, state that it is an unnamed stream, spring, etc.)

tributary to Pacific Ocean at Carmel Bay

b. In a normal year does the stream dry up at any point downstream from your project? YES NO

If yes, during what months is it usually dry? From July to October

What alternate sources are available to your project should a portion of your requested direct diversion season be excluded because of a dry stream or nonavailability of water? None

3. POINTS of DIVERSION and REDIVERSION

a. The point(s) of diversion will be in the County of Monterey
 and within Assessor's Parcel Number (APN #) _____

b.

List all points giving coordinate distances from section corner or other tie as allowed by SWRCB regulations i.e. California Coordinate System	Point is within (40-acre subdivision)	Section	Township	Range	Base and Meridian
San Clemente Dam	¼ of ¼				
19 wells in Carmel Valley Aquifer	¼ of ¼				
Injection wells in Seaside Groundwater Basin	¼ of ¼				

c. Does applicant own the land at the point of diversion? YES NO

d. If applicant does not own the land at point of diversion, state name and address of owner and what steps have been taken to obtain right of access: California-American Water Co., P.O. Box 951, Monterey, CA 93942
Cal-Am has agreed to provide water through their system, which includes the points of diversion.

"The energy challenge facing California is real. Every California needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at <http://www.swrcb.ca.gov>".
 Additional copies of this form and water right information can be obtained at www.waterrights.ca.gov.

4. PURPOSE of USE, AMOUNT and SEASON

a. In the table below, state the purpose(s) for which water is to be appropriated, the quantities of water for each purpose, and the dates between which diversions will be made. Use gallons per day if rate is less than 0.025 cubic foot per second (approximately 16,000 gallons per day).

PURPOSE OF USE (Irrigation, Domestic, etc.)	DIRECT DIVERSION				STORAGE		
	QUANTITY		SEASON OF DIVERSION		AMOUNT	COLLECTION SEASON	
	RATE (Cubic feet per second or gallons per day)	AMOUNT (Acre-feet per year)	Beginning Date (Mo. & Day)	Ending Date (Mo. & Day)	Acre-feet per annum	Beginning Date (Mo. & Day)	Ending Date (Mo. & Day)
Groundwater recharge/municipal	4.5 cfs	750 AF per annum	Dec. 1	May 31			

b. Total combined amount taken by direct diversion and storage during any one year will be 750 acre-feet.

5. JUSTIFICATION of AMOUNT

a. IRRIGATION: Maximum area to be irrigated in any one year is N/A acres.

CROP	ACRES	METHOD OF IRRIGATION (Sprinklers, flooding, etc.)	ACRE-FEET PER YEAR	NORMAL SEASON	
				Beginning Date	Ending Date

b. DOMESTIC: Number of residences to be served is N/A. Separately owned? YES NO
 Total number of people to be served is _____. Estimated daily use per person is _____ (Gallons per day)
 Total area of domestic lawns and gardens is _____ square feet.
 Incidental domestic uses are _____
 (Dust control area, number and kind of domestic animals, etc.)

c. STOCKWATERING: Kind of stock N/A Maximum number _____
 Describe type of operation: _____
 (Feed lot, dairy, range, etc.)

d. RECREATIONAL: N/A Type of recreation: Fishing Swimming Boating Other

e. MUNICIPAL: (Estimated projected use)

POPULATION		MAXIMUM MONTH		ANNUAL USE		
5-Year periods until use is completed		Average daily use (gal. per capita)	Rate of diversion (cfs)	Average daily use (gal. per capita)	Acre-foot (per capita)	Total acre feet
PERIOD	POP.					
Present						750

Month of maximum use during year is _____. Month of minimum use during year is _____.

f. HEAT CONTROL: The total area to be heat protected is N/A net acres.
 Type of crop protected is _____
 Rate at which water is applied to use is _____ gpm per acre.
 The heat protection season will begin about _____ and end about _____.

g. FROST PROTECTION: The total area to be frost protected is N/A net acres.
 Type of crop protected is _____
 Rate at which water is applied to use is _____ gpm per acre.
 The frost protection season will begin about _____ and end about _____.

h. INDUSTRIAL: Type of industry is N/A
 Basis for determination of amount of water needed is _____

i. MINING: The name of the claim is N/A. Patented Unpatented
 The nature of the mine is _____. Mineral to be mined is _____
 Type of milling or processing is _____
 After use, the water will be discharged into _____
 (Name of stream)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M.
 (40-acre subdivision)

j. POWER: The total fall to be utilized is N/A feet. The maximum amount of water to be used through the penstock is _____ cubic feet per second. The maximum theoretical horsepower capable of being generated by the works is _____. Electrical capacity is _____ kilowatts at _____ % efficiency.
 (Cubic feet per second x fall + 8.8) (Hp x 0.746 + efficiency)
 After use, the water will be discharged into _____
 (Name of stream)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M. FERC No. _____
 (40-acre subdivision)

k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: YES NO If yes, list specific and habitat type that will be preserved or enhanced in item 10 of Environmental Information form APP-ENV.

l. OTHER: Describe use: Groundwater recharge. Basis for determination of amount of water needed is (1) "Reconnaissance-Level Feasibility Study for Seaside Basin Injection/Recovery Project" prepared for MPWMD by Fugro West, Inc., February 1997; (2) Water Years 1999 through 2003 testing of Seaside Basin Test Injection Wells

6. PLACE OF USE

a. Does applicant own the land where the water will be used? YES NO Is land in joint YES NO ownership?
 (All joint owners should include their names as applicants and sign the application.)

If applicant does not own land where the water will be used, give name and address of owner, and state what arrangements have been made with the owner. Water will be used for recharge of the Seaside Groundwater Basin and pumped by existing Seaside Basin wells for municipal uses within the boundaries of MPWMD.

b. USE IS WITHIN (40-ACRE SUBDIVISION)	SECTION	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Number of acres	Presently cultivated (Y/N)
NE 1/4 of NE 1/4	23	15 S.	1 E.	MD		
1/4 of 1/4	(This is the location of the points of injection to the Seaside Groundwater Basin)					
1/4 of 1/4	and 110,000 acres within boundaries of MPWMD					
1/4 of 1/4						
1/4 of 1/4						

(If area is unsurveyed, state the location as if lines of the public land survey were projected, or contact the Division of Water Rights. If space does not permit listing all 40-acre tracts, include on another sheet or state sections, townships and ranges, and show detail on map.)

7. DIVERSION WORKS

a. Diversion will be by gravity by means of existing pipeline from San Clemente Dame; and

b. Diversion will be by pumping from 19 wells in Carmel Valley (Dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
 Pump discharge rate various Horsepower various
 (Depth of the well _____) (Sump, offset well, channel, reservoir, etc.) (cfs or gpd)
 N/A

c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (Pipe or channel)	MATERIAL (Type of pipe or channel lining) (Indicate if pipe is buried or not)	CROSS SECTIONAL DIMENSION (Pipe diameter or ditch depth and top and bottom width)	LENGTH (Feet)	TOTAL LIFT OR FALL		CAPACITY (Estimate)
				Feet	+ or -	

d. Storage reservoirs: (For underground storage, complete Supplement I to APP, available upon request.) See Suppl 1, attached

Name or number of reservoir, if any	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (ft.)	Construction material	Dam length (ft.)	Freeboard Dam height above spillway crest (ft.)	Approximate surface area when full (acres)	Approximate capacity (acre-feet)	Maximum water depth (ft.)

e. Outlet pipe: (For storage reservoirs having a capacity of 10 acre-feet or more.)

Diameter of outlet pipe (inches)	Length of Outlet pipe (feet)	FALL (Vertical distance between entrance and exit of outlet pipe in feet)	HEAD (Vertical distance from spillway to outlet pipe in reservoir in feet)	Estimated storage below outlet pipe entrance (dead storage)
24"	20 ft.	45 ft.	55 ft.	76 AF

f. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to offstream storage will be N/A cfs. Diversion to offstream storage will be made by: Pumping Gravity

8. COMPLETION SCHEDULE

a. Year work will start 2003 b. Year work will be completed 2004

c. Year water will be used to the full extent intended N/A d. If completed, year of first use Project is the continuation of a feasibility study.

9. GENERAL

a. Name of the post office most used by those living near the proposed point of diversion is Carmel Valley

Does any part of the place of use comprise a subdivision on file with the Department of Real Estate? YES NO

If yes, state name of the subdivision N/A

If no, is subdivision of these lands contemplated? YES NO

Is it planned to individually meter each service connection? YES NO If yes, when? N/A

b. List the names and addresses of diverters of water from the source of supply downstream from the proposed point of diversion: Various. See listing in SWRCB Decision No. 1632, Table 13.

c. Is the source used for navigation, including use by pleasure boats, for a significant part of each year at the point of diversion, or does the source substantially contribute to a waterway which is used for navigation, including use by pleasure boats? YES NO If yes, explain _____

10. EXISTING WATER RIGHT

Do you claim an existing right for the use of all or part of the water sought by this application? YES NO
 If yes, complete table below:

Nature of Right (riparian, appropriative, groundwater)	Year of First Use	Purpose of use made in recent years including amount, if known	Season of Use	Source	Location of Point of Diversion

11. AUTHORIZED AGENT (Optional)

With respect to all matters concerning this water right application those matters designated as follows:

(Name of agent) ()
 (Telephone number of agent between 8 a.m. and 5 p.m.)

(Mailing address) (City or town) (State) (Zip code)

is authorized to act on my behalf as my agent.

12. SIGNATURE OF APPLICANT

I (we) declare under penalty of perjury that the above is true and correct to the best of my (our) knowledge and belief.

Dated August 7 2003 at Monterey, California

Ms. Mr.
 Miss. Mrs. Fran Farina
 (Signature of applicant)

Fran Farina, Acting General Manager, MPWMD

(If there is more than one owner of the project, please indicate their relationship.)

Ms. Mr.
 Miss. Mrs. _____
 (Signature of applicant)

Additional information needed for preparation of this application may be found in the Instruction Booklet entitled "HOW TO FILE AN APPLICATION TO APPROPRIATE WATER IN CALIFORNIA". If there is insufficient space for answers in this form, attach extra sheets. Please cross-reference all remarks to the numbered item of the application to which they may refer. Send original application and one copy to the STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER RIGHTS, P.O. Box 2000, Sacramento, CA 95812-2000, with \$100 minimum filing fee.

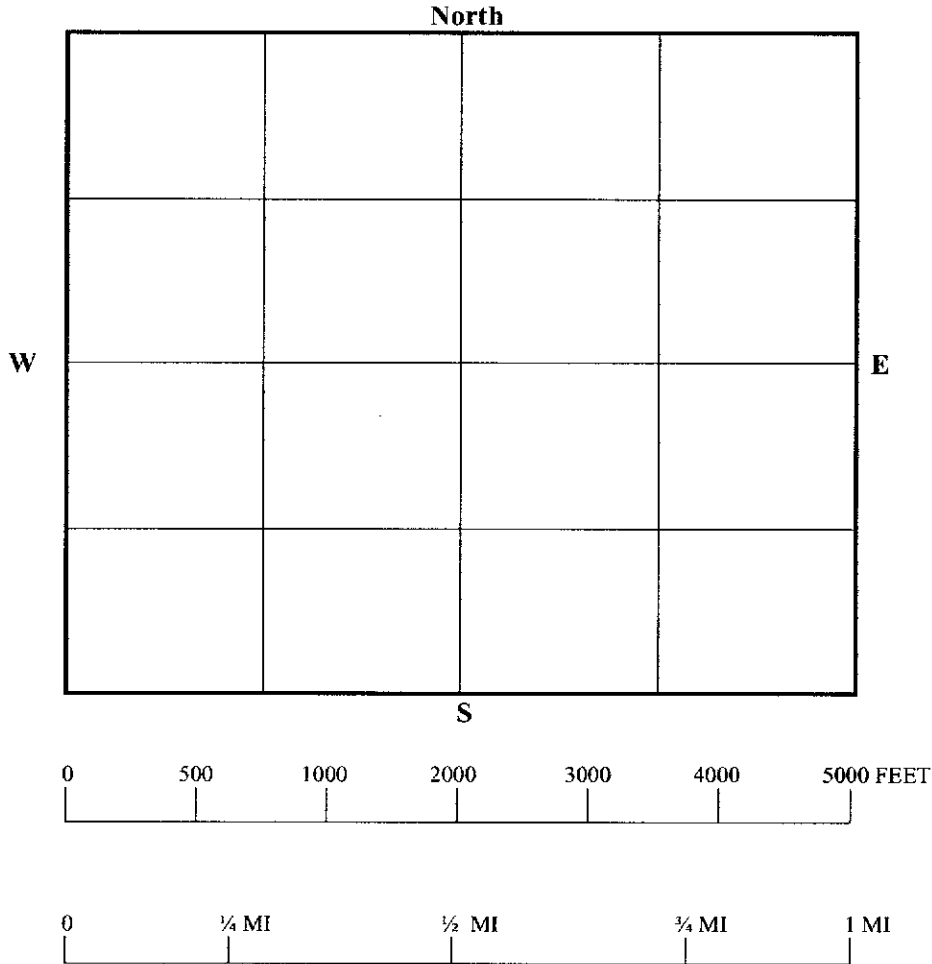
NOTE:

If this application is approved for a permit, a minimum permit fee of \$100 will be required before the permit is issued.

13. MAP

(Please complete legibly, with as much detail as possible, or attach a suitable alternative. See example in instruction booklet.)
 See Project Map, Seaside Basin Pilot Injection/Storage Project, dated August 1997 (on file with Application T30676/Permit 20963).

SECTION(S) _____ TOWNSHIP _____ RANGE _____, _____ B. & M.



- (1) Show location of the stream or spring, and give name.
- (2) Locate and describe the point of diversion (i.e. the point at which water is to be taken from the stream or spring) in the following way: Begin at the most convenient known corner of the public land survey, such as a section or quarter section corner (if on unsurveyed land more than two miles from a section corner, begin at a mark or some natural object or permanent monument that can be readily found and recognized) and measure directly north or south until opposite the point which it is desired to locate; then measure directly east or west to the desired point. Show these distances in figures on the map as shown in the instructions.
- (3) Show location of the main ditch or pipeline from the point of diversion.
- (4) Indicate clearly the proposed place of use of the water.

14. SUPPLEMENTAL INFORMATION

- a. If you are applying for a permit, Environmental Information form APP-ENV should be completed and attached to this form. Form APP-ENV is attached.
- b. If you are applying for underground storage, supplemental to APP (available upon request) should be completed and attached to this form. N/A
- c. If you are applying for underground storage, Supplement 1 to WR 1 (available upon request) should be completed and attached to this form. Supplement 1 to WR 1 is attached.

APPLICATION FOR TEMPORARY URGENCY PERMIT

**FORM WR 1, ITEM 3. LOCATIONS OF
POINTS OF DIVERSION AND REDIVERSION**

POINTS OF DIVERSION

San Clemente Dam

Point is approximately 1,700 feet North, 100 feet East of the SW corner of Section 24, T.17S., R.2E., MDB&M. Point is within the NW 1/4 of SW 1/4 of Section 24.

Carmel Valley Aquifer

Points are 19 wells owned by California-American Water Co. that are integrated into the production and distribution system delivering water from Carmel Valley. A listing of the wells and their locations is given on the following page.

POINTS OF INJECTION TO UNDERGROUND STORAGE

Paso Robles Test
Injection Well (PRTIW)

Point is approximately 100 feet South, 1,200 feet West of the NE corner of projected Section 23, T.15S., R.1E., MDB&M. Point is within the NE 1/4 of NE 1/4 of projected Section 23.

Santa Margarita Test
Injection (SMTIW)

Point is approximately 200 feet South, 500 feet West of the NE corner of projected Section 23, T.15S., R.1E., MDB&M. Point is within the NE 1/4 of NE 1/4 of projected Section 23.

Ord Grove #1 Well

Point is approximately 900 feet South, 2,200 feet West of the NE corner of projected Section 23, T.15S., R.1E., MDB&M. Point is within the NW 1/4 of NE 1/4 of projected Section 23.

**LOCATIONS OF WELLS IN CARMEL VALLEY AQUIFER
(POINTS OF DIVERSION)**

Common Name	Approximate Coordinate Distances From Section Corner	Section	Township	Range
1. Cañada	2,000' N, 2,000' E of SW corner	17	16 S	1 E
2. San Carlos	1,700' N, 900' W of SE corner	17	16 S	1 E
3. Cypress	2,200' S, 600' E of NW corner	22	16 S	1 E
4. Pearce	2,500' S, 2,200' E of NW corner	22	16 S	1 E
5. Schulte	2,300' S, 100' E of NW corner	23	16 S	1 E
6. Manor #2	2,000' N, 2,100' E of SW corner	23	16 S	1 E
7. Begonia #2	1,300' N, 300' E of SW corner	24	16 S	1 E
8. Berwick #7	200' N, 800' E of SW corner	24	16 S	1 E
9. Berwick #8	300' N, 1,700' E of SW corner	24	16 S	1 E
10. Scarlett #8	400' N, 900' E of SW corner	19	16 S	2 E
11. Los Laureles #5	1,700' N, 2,500' W of SE corner	29	16 S	2 E
12. Los Laureles #6	900' N, 700' W of SE corner	29	16 S	2 E
13. West Garzas #4	2,200' N, 2,000' E of SW corner	33	16 S	2 E
14. Garzas Creek #3	500' N, 1,900' W of SE corner	33	16 S	2 E
15. Panetta #2	800' S, 200' E of NW corner	3	17 S	2 E
16. Panetta #1	1,000' S, 100' E of NW corner	3	17 S	2 E
17. Robles #3	600' S, 100' W of NE corner	10	17 S	2 E
18. Russell #4	0' S, 800' W of NE corner	14	17 S	2 E
19. Russell #2	400' S, 800' W of NE corner	14	17 S	2 E

Note: All townships are referenced to Mount Diablo Base Line and Meridian.

**COORDINATES OF
POINTS OF DIVERSION AND INJECTION TO UNDERGROUND STORAGE**

<u>Point of Diversion/ Injection</u>	<u>California Coordinate System of 1927 (CCS27)-- California Zone 4 Northing</u>	<u>Easting</u>
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Dam/Reservoir

San Clemente Dam	412,600 feet North	1,203,650 feet East
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Wells in Carmel Valley Aquifer

1. Cañada	451,600	1,153,800
2. San Carlos	451,250	1,156,600
3. Cypress	447,200	1,163,250
4. Pearce	446,950	1,164,750
5. Schulte	447,000	1,167,850
6. Manor #2	446,050	1,169,950
7. Begonia #2	445,100	1,173,350
8. Berwick #7	444,050	1,173,900
9. Berwick #8	444,100	1,174,700
10. Scarlett #8	444,100	1,179,200
11. Los Laureles #5	439,900	1,187,200
12. Los Laureles #6	439,100	1,188,050
13. West Garzas #4	434,850	1,190,800
14. Garzas Creek #3	433,200	1,191,650
15. Panetta #2	431,700	1,193,350
16. Panetta #1	431,550	1,193,250
17. Robles #3	426,700	1,198,100
18. Russell #4	421,400	1,202,650
19. Russell #2	421,000	1,202,650

Points of Injection to Underground Storage

1. Paso Robles Test Injection		
Well (PRTIW)	480,600	1,173,300
2. Santa Margarita Test Injection		
Well (SMTIW)	480,550	1,173,700
3. Ord Grove #1		
Well	479,850	1,172,150

STATE OF CALIFORNIA
State Water Resources Control Board
DIVISION OF WATER RIGHTS
901 P Street, Sacramento, Ca 95814
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APPLICATION NO. _____

**UNDERGROUND STORAGE SUPPLEMENT
to APPLICATION TO APPROPRIATE WATER BY PERMIT**

1. State amount of water to be diverted to underground storage from each pint of diversion in item 3b of form WR1. Total diversion from San Clemente Dam and wells in Carmel Valley Aquifer:
 - a. Maximum Rate of diversions (1) 4.5 (2) _____ (3) _____ cfs
 - b. Maximum Annual Amount (1) 750 (2) _____ (3) _____ acre-feet

2. Describe any works used to divert to offstream spreading grounds or injection wells not identified in item 7 of form WR1.
 - a. Cal-Am water treatment, transmission and distribution system, including Cañada de la Segunda pipeline.
 - b. Test injection wells in Seaside Groundwater Basin

3. Describe spreading grounds and identify its location and number of acres or location of upstream and downstream limits if onstream. N/A

4. State depth of groundwater table in spreading grounds or immediate vicinity: N/A _____ feet below ground surface on _____ 19 _____ measured at a point located within the _____ ¼ of ¼ of Section _____ T _____ R _____ B&M.

5. Give any historic maximum and/or minimum depths to the groundwater table in the area

Location	<u>Paralta Well</u>	Maximum	<u>384</u>	Feet below ground surface on	<u>6/26/97</u>	(date)
Location	<u>Playa #3 Well</u>	Minimum	<u>53</u>	Feet below ground surface on	<u>2/29/96</u>	(date)

6. Describe proposed spreading operation. N/A

7. Describe location, capacity and features of proposed pretreatment facilities and/or injection wells.
 - a. Cal-Am Carmel Valley Filter Plant – maximum capacity 27.9 AF/day
 - b. Begonia Iron Removal Plant – maximum capacity 55.0 AF/day
 - c. Santa Margarita Test Injection Well – anticipated maximum capacity 9.0 AF/day

8. Reference any available engineering reports, studies or data on the aquifer involved.
 - a. "Summary of Operations, Well Construction and testing, Seaside Basin Pilot Injection Well", prepared for MPWMD by Fugro West, Inc., July 1998.
 - b. "Summary of Operations Report, Seaside Pilot Injection Well Project, Monterey, California", prepared for MPWMD by Fugro West, Inc., October 1999
 - c. "Summary of Operations, Well Construction and Testing, Santa Margarita Test Injection Well", prepared for MPWMD by Padre Associates, Inc., May 2002

9. Describe underground reservoir and attach a map or sketch of its location.
Seaside Basin covers approximately 24 square miles underlying most of the City of Seaside and a portion of the former Fort Ord Military Reservation. The basin contains two main aquifer units, the Paso Robles Formation and the Santa Margarita Sandstone.

10. State estimated storage capacity of underground reservoir.
Up to 7,000 AF available in coastal subareas due to historical storage depletion.
11. Describe existing use of the underground storage reservoir and any proposed change in its use.
Seaside Basin is presently used for both municipal and non-municipal water supply. No changes in its use are proposed.
12. Describe the proposed method and location of measurement of water placed into and withdrawn from underground storage.
 - a. Method of flow measurement – All wells are equipped with flow meters.
 - b. Method of water level measurement – Production and dedicated monitor wells will be used to collect either continuous or non-continuous water level records.
 - c. Location – The injection wells and all production and monitor wells are located within the Seaside Basin.

**APPLICATION TO APPROPRIATE WATER BY PERMIT
ENVIRONMENTAL INFORMATION**

(THIS IS NOT A CEQA DOCUMENT)

APPLICATION NO.

The following information will aid in the environmental review of your application as required by the California Environmental Quality Act (CEQA). IN ORDER FOR YOUR APPLICATION TO BE ACCEPTED AS COMPLETED, ANSWERS TO THE QUESTIONS LISTED BELOW MUST BE COMPLETED TO THE BEST OF YOUR ABILITY. Failure to answer all questions may result in your application being returned to you, causing delays in processing. If you need more space, attach additional sheets. Additional information may be required from you to amplify further or clarify the information requested in this form.

PROJECT DESCRIPTION

1. Provide a description of your project, including but not limited to, type of construction activity, structures existing or to be built, area to be graded or excavated and project operation, including how the water will be used.

Please see attached text.

APPLICATION FOR TEMPORARY URGENCY PERMIT

FORM WR 1-2. ENVIRONMENTAL INFORMATION

ITEM 1. PROJECT DESCRIPTION

SEASIDE BASIN TEST INJECTION WELL PROJECT

The Monterey Peninsula Water Management District (MPWMD) proposes to divert surplus water from the Carmel River Basin for underground injection and storage in the Seaside Ground Water Basin, as part of a feasibility project during the Water Year (WY) 2004 precipitation season. This is a continuation of the pilot feasibility project conducted by MPWMD upon completion of the Paso Robles Test Injection Well (PRTIW) in May 1998. Testing at the PRTIW has been conducted during the last five full recharge seasons (WYs 1999 through 2003). A second test well, the Santa Margarita Test Injection well (SMTIW), was completed in April 2001. Testing at the SMTIW was conducted in WYs 2002 and 2003. The proposed test project will utilize the existing Carmel River diversion, treatment, and transmission facilities owned and operated by the California-American Water Company (Cal-Am) to transport treated surface and subsurface water from the Carmel River to one or more of three injection wells located within Cal-Am's production wellfield in the Seaside Basin. The three injection wells are the PRTIW, the SMTIW, and the Ord Grove #1 Well, an inactive Cal-Am production well. The production and distribution systems for the two basins are linked via the existing Cañada de la Segunda pipeline, which is a 16- to 30-inch diameter water transmission line approximately 3 miles long, extending from Carmel Valley to the Seaside portion of the Cal-Am distribution system at Highway 68 southeast of the City of Seaside.

Under the test project, up to 4.5 cubic feet per second (2,000 gallons per minute) will be diverted from the Carmel River to underground storage in the Seaside Basin, for a maximum of 750 acre-feet during the winter and spring high flow months. The proposed season of diversion is December 1 through May 31. Diversions will only be made during periods when there is adequate instream flow. The minimum instream flow requirements will be as described in Condition 7 of Temporary Permit 21143. These flows are consistent with the instream flow requirements presented in the report titled Instream Flow Needs for Steelhead in the Carmel River, Bypass flow recommendations for water supply projects using Carmel River waters (National Marine Fisheries Service, Southwest Region, Santa Rosa Field Office, June 3, 2002).

The water will be used for groundwater recharge. Injection testing will be performed to determine the rate of injection, fate of injected water, and possible chemical interaction between the injected water and the native groundwater. It is also planned to conduct recovery testing of the SMTIW to determine recovery efficiency and quality characteristics of the recovered water.

GOVERNMENTAL REQUIREMENTS

Before a final decision can be made on your water right application, we must consider the information contained in an environmental document prepared in compliance with the requirements of CEQA. If an environmental document has been prepared, a determination must be made as to who is responsible for the preparation of the environmental document for your project. The following questions are designed to aid us in that determination.

2. Contact your county planning or public works department for the following information:

- a. Person contacted Linda Weiland Date of contact July 16, 1997
Department Monterey County Planning Dept. Telephone (831) 755-5306
- b. Assessor's Parcel No. Various
- c. County Zoning Designation Various
- d. Are any county permits required for your project? No
If yes, check appropriate space below:
 Grading Permit, Use Permit, Watercourse
Obstruction Permit, Change of Zoning, General Plan
Change, Other (explain):

- e. Have you obtained any of the required permits described above? N/A
If yes, provide a complete copy of each permit obtained.

3. Are any additional state or federal permits required for your project? No (i.e., from Federal Energy Regulatory Commission, U.S. Forest Service, Bureau of Land Management, Soil Conservation Service, Department of Water Resources (Division of Safety of Dams), Reclamation Board, Coastal Commission, State Lands Commission, etc.) For each agency from which a permit is required provide the following information:

Permit type N/A
Person (s) contacted _____ Agency _____
Date of contact _____ Telephone () _____

4. Has any public agency prepared an environmental document for any aspect of your project?
Yes

If so, please submit a copy of the latest environmental document (s) prepared, including a copy of the notice of determination adopted by the public agency. If not, explain below whether you expect that a public agency other than the State Water Resources Control Board will be preparing

an environmental document for your application or whether the applicant, if it is a California public agency, will be preparing the environmental document for your project:

Monterey Peninsula Water Management District (applicant) prepared and filed a Notice of Exemption, pursuant to CEQA Guidelines, Sec. 15262 (Statutory Exemption for feasibility and planning studies). City of Seaside prepared a mitigated Negative Declaration and filed a Notice of Determination to that effect. These materials have been sent under separate cover to Steve Herrera of the SWRCB staff.

Note: When completed, please submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Resources Control Board. Processing of your application cannot proceed until such documents are submitted.

5. Will your project, during construction or operation, generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or cause erosion, turbidity or sedimentation? No If so, explain: _____

If yes or you are unsure of your answer, contact your local Regional Water Quality Control Board for the following information (See attachment for address and telephone number):

Will a waste discharge permit be required for your project? _____

Person contacted _____ Date of contact _____

What method of treatment and disposal will be used? _____

6. Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No

Do you know of any archeological or historic sites located within the general project area?

No If so, explain: _____

ENVIRONMENTAL SETTING

7. Attach **THREE COMPLETE SETS** of color photographs, clearly dated and labeled, showing the vegetation currently existing at the following locations:
- a. Along the stream channel immediately downstream from the proposed point(s) of diversion
 - b. Along the stream channel immediately upstream from the proposed point(s) of diversion
 - c. At the place(s) where the water is to be used

Note: It is very important that you submit no less than three complete sets of photographs as required above. If less than three sets are submitted, processing of your application will be delayed until you furnish the remaining sets!

8. From the list given below, mark or circle the general plant community types which best describe those which occur within you project area (Note: See footnote denoted by * under Question 11 below):

Tree Dominated Communities

Subalpine Conifer
Red Fir
Lodgepole Pine
Mixed Conifer
 Sierran Mixed Conifer
 White Fir
 Klamath Mixed Conifer
Douglas-Fir
Jeffrey Pine
Ponderosa Pine
Eastside Pine
Redwood
Pinyon-Juniper
Juniper
Aspen
Closed-Cone Pine-Cypress
Montane Hardwood-Conifer
Montane Hardwood
Valley Foothill Hardwood
 Blue Oak Woodland
 Valley Oak Woodland
 Coastal Oak Woodland
Valley Foothill Hardwood-Conifer
 Blue Oak-Digger Pine
Eucalyptus
Montane Riparian
Valley Foothill Riparian
Desert Riparian
Palm Oasis
Joshua Tree

Shrub Dominated Communities

Alpine Dwarf-Shrub
Low Sage
Bitterbrush
Sagebrush
Montane Chaparral
Mixed Chaparral
Chamise-Redshank Chaparral
Coastal Scrub
Desert Succulent Shrub
Desert Wash
Desert Scrub
Alkali Desert Scrub

Herbaceous Dominated Communities

Annual Grassland
Perennial Grassland
Wet Meadow
Fresh Emergent Wetland
Saline Emergent Wetland
Pasture

Aquatic Communities

Riverine
Lacustrine
Estuarine
Marine

Developed Communities

Cropland
Orchard-Vineyard
Urban

Literature source: Mayer, K.E., and W.F. Laudenslayer, Jr., (eds). 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection, Sacramento. 166 pp. (Note: You may view a copy of this document at our public counter at the address given at the top of this form or you may purchase a copy by calling the California Department of Fish and Game, Wildlife Habitat Relationships (WHR) Program at (916) 653-7203).

9. Provide below an estimate of the type, number, and size (trunk/stem diameter at chest height) of trees and large shrubs that are planned to be removed or destroyed due to implementation of the proposed changes. Consider all aspects of your application, including changes in diversion structures, water distribution and use facilities, and changes in the place of use due to additional water development.

None

FISH AND WILDLIFE CONCERNS

10. Identify the typical species of fish which occur in the source(s) from which you propose to divert water and discuss whether or not any of these fish species or their habitat has been or would be affected by your proposed changes. (Note: See footnote denoted by * under Question 11 below):

Steelhead and others. Refer to Final EIR/EIS for Monterey Peninsula Water Supply Project (March 1994), Chapter 8 (Fish and Aquatic Life) and Draft Supplemental EIR for the Carmel River Dam and Reservoir Project (November 1998), Appendix D (Fish and Aquatic Life), for descriptions of existing fish resources in the Carmel River. None of these resources would be affected by the proposed diversion and storage.

11. Identify the typical species of riparian and terrestrial wildlife in the project area and discuss whether or not any of these species and/or their habitat has been or would be affected by your project through construction of water diversion and distribution works and/or changes in the place of water use. (Note: See footnote denoted by * below):

California red-legged frog and others. Refer to Final EIR/EIS for the Monterey Peninsula Water Supply Project (March 1994), Chapter 9 (Vegetation and Terrestrial Wildlife), and Draft Supplemental EIR for the Carmel River Dam and Reservoir Project (November 1998), Appendix E (Vegetation and Terrestrial Wildlife update), for descriptions of existing riparian and terrestrial wildlife in the Carmel River. None of these resources would be affected by the proposed diversion and storage.

*Note: The purposes of Question 10 and 11 are to provide a preliminary assessment of the presence of typical plant and animal species in the area and whether these species might be affected by your project. Detailed site surveys to quantify populations of specific species or determine the presence of rare or endangered species may be required at a later date. It is very important that you answer these questions accurately. If you are unable to obtain appropriate answers from your local California Department of Fish and Game biologists (See attachment for address and telephone number) or you do not have adequate information or expertise to complete your answers, you should hire a fishery consultant and/or a wildlife consultant to review your project and prepare suitable answers for you. For information on available qualified fishery or wildlife consultants near you, consult your local telephone directory yellow pages under Environmental and Ecological Services, or call the California Environmental Protection Agency, Registered Environmental Assessor (REA) Program, at (916) 324-6881 or the University of California, Cooperative Extension Service (See your local telephone directory white pages).

12. Does your proposed project involve any construction or grading-related activity which has significantly altered or would significantly alter the bed or bank of any stream or lake? No
If so, explain: _____

CERTIFICATION

I hereby certify that the statements I have furnished above and in the attached exhibits are complete to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge.

Date

August 7, 2003

Signature

Fran Farina

Fran Farina, Acting General Manager, MPWMD