

TYPE OR PRINT
IN BLACK INK
(For instructions, see
booklet: "How to File an
Application to
Appropriate Water in
California")



California Environmental Protection Agency

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
www.waterrights.ca.gov

STATE WATER RESOURCES
CONTROL BOARD

2009 DEC 17 PM 2:52

DIV OF WATER RIGHTS
SACRAMENTO

APPLICATION NO. A031722

APPLICATION TO APPROPRIATE WATER

1. APPLICANT/AGENT

	APPLICANT	ASSIGNED AGENT (if any)
Name	South Coast Water District	Lead Agency
Mailing Address	P.O. Box 30205	
City, State & Zip	Laguna Niguel, Ca. 92607-0205	
Telephone	(949) 499-4555	
Fax	(949) 499-4256	
E-mail		

2. OWNERSHIP INFORMATION (Please check type of ownership.)

- Sole Owner
- Limited Partnership*
- Corporation
- Limited Liability Company (LLC)
- Business Trust
- Joint Venture
- General Partnership*
- Husband/Wife Co-Ownership
- Other _____

*Please identify the names, addresses and phone numbers of all partners.

3. PROJECT DESCRIPTION (Provide a detailed description of your project, including, but not limited to, type of construction activity, area to be graded or excavated, and how the water will be used.) Add additional pages if needed and check box below and label as an attachment.

This project proposes to use abandoned urban runoff water recovered from Aliso Creek and treated with a reverse osmosis (RO) and a filtration package system to provide a low total dissolved solids/salts (TDS) addition to existing recycled water supplies. Concentrated effluent from the RO system and backwash from the filtration package will be discharged in the ocean outfall for the Coastal Treatment Plant.

The Project will be located 1.5 miles inland from the Pacific Coast Highway in the City of Laguna Beach, California. The area is within the Aliso Creek Watershed downstream of the Aliso and Wood Canyons Wilderness Park and approximately 1.5 miles from the confluence of the creek into the Pacific Ocean at Aliso Beach County Park.

The water intake equipment will be located next to the bridge that provides access to the coastal treatment plant as illustrated in Figure 2-1 (see attachment no. 3). Urban runoff water will be recovered from Aliso Creek using a creek-side submersible pump with a

For continuation, see Attachment No. 1 "Sec. A, Quest. 3"

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a. PURPOSE OF USE (irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)
IRRIGATION	1.23 cfs	87.8	1/1	12/31	N/A	N/A	N/A
		890 Collect 9/27 12/11/08					
	Total afa		Total afa				

- See Attachment No. ____ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).
- b. Total combined amount taken by direct diversion and storage during any one year will be 87.8 890 acre-feet.
- c. Reservoir storage is: onstream offstream underground (If underground storage, attach Underground Storage Form.)
- d. County in which diversion is located: ORANGE County in which water will be used: ORANGE

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

- a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):
 - POD / PORD # ALISO CREEK tributary to PACIFIC OCEAN thence _____
 - POD / PORD # _____ tributary to _____ thence _____
 - POD / PORD # _____ tributary to _____ thence _____
 - POD / PORD # _____ tributary to _____ thence _____

If needed, attach additional pages, check box below and label attachment
 See Attachment No. 2 "USGS Fig. 1 and 2"

b. State Planar and Public Land Survey Coordinate Description:

1-5-08
per CLK/MS
KLN

POD/PORD #	CALIFORNIA COORDINATES (NAD 83)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWNSHIP	RANGE	BASE AND MERIDIAN
	NAD 83	6	NE 1/4 of SW 1/4	32	7S	8W	5B
	N 235196 A E 6108022 A		1/4 of 1/4				
			1/4 of 1/4				
			1/4 of 1/4				

If needed, attach additional pages, check box below and label attachment
 See Attachment No. 1 "Sec. A, Quest. 5.b"

- c. Name of the post office most often used by those living near the proposed point(s) of diversion: _____

6. WATER AVAILABILITY

- a. Have you attached a water availability analysis for this project? YES NO
 If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: If needed, attach additional pages, check box below and label attachment.

Information contained in "Attachment No. 4" Hydrology Report

See Attachment No. ____

- b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board (State Water Board) during your proposed season of diversion?
 YES NO
- c. In an average year, does the stream dry up at any point downstream of your project? YES NO
 If YES, during which months? Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
- d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) If needed, attach additional pages, check box below and label attachment

Advanced Wastewater Treatment System at the coastal Treatment Plant already in, existent, constructed in 1982.

See Attachment No. ____

7. PLACE OF USE

a.

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated?
1/4 of 1/4	N/A	N/A	N/A	N/A	30	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
Total Acres:						

*Please indicate if section is projected with a "(P)" following the section number.

See Attachment No. 1 Please provide the Assessor's Parcel Number(s) for the place of use:
 APN No. 120-191-661

8. PROJECT SCHEDULE

- a. Project is: proposed. Year construction will begin: 2008
 partially complete. Extent of completion: _____
- complete. Year completed: _____
- b. Year of first use: 2009 Year water will be used to the full extent intended: 2009

9. JUSTIFICATION OF AMOUNTS REQUESTED

- a. IRRIGATION: Maximum area to be irrigated in any one year: Approx. 30 acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-foot/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
TURF	30	SPRINKLERS	87.8	1/1	12/31
			89.0 12/1/88		

See Attachment No. 1 "Sec. B, Quest. 1.a"

b. DOMESTIC: Number of residences to be served: _____ Separately owned?
 YES NO Number of people to be served: _____ Estimated daily use per person is:
 _____ gallons per day Area of domestic lawns and gardens: _____ square feet
 Incidental domestic uses: _____

(dust control area, number and kind of domestic animals, etc.)

c. STOCKWATERING: Kind of stock: _____ Maximum number: _____
 Describe type of operation: _____
 (feedlot, dairy, range, etc.)

d. RECREATIONAL: Type of recreation: Fishing Swimming Boating Other _____

e. MUNICIPAL:

POPULATION List for 5-year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)
Present						

See Attachment No. _____

Month of maximum use during year: _____

Month of minimum use during year: _____

f. HEAT CONTROL: Area to be heat controlled: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 Heat protection season will begin _____ and end _____
 (month and day) (month and day)

g. FROST PROTECTION: Area to be frost protected: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 The frost protection season will begin _____ and end _____
 (month & day) (month & day)

h. INDUSTRIAL: Type of industry: _____
 Basis for determination of amount of water needed: _____

i. MINING: Name of the claim: _____ Patented Unpatented

Nature of the mine: _____ Mineral(s) to be mined: _____
 Type of milling or processing: _____
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M.

- j. POWER: Total head to be utilized: _____ feet
 Maximum flow through the penstock: _____ cfs Maximum theoretical horsepower capable of
 being generated by the works (cfs x fall + 8.8): _____
 Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____% efficiency
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B&M. FERC No.: _____
- k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and
 habitat type that will be preserved or enhanced: _____
- l. OTHER: Describe use: _____
 Basis for determination of amount of water needed: _____

10. DIVERSION AND DISTRIBUTION METHOD

- a. Diversion will be by gravity by means of: _____
 (dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
- b. Diversion will be by pumping from: CHANNEL BY SUBMERSIBLE PUMP _____
 (sump, offset well, channel, reservoir, etc)
 Pump discharge rate: 500 at 40 PSI cfs or gpd Horsepower: 7.5
 Pump Efficiency: _____

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-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	
PIPE	PVC	4 INCHES	200	17	+	1.23 CFS

See Attachment No. 3 "Fig. 2-1 and 2-2", See also Attachment 1 "Sec. B, Ques. 2"

d. Storage reservoirs: (For underground storage, complete and attach underground storage form)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)

See Attachment No. _____

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR NAME OR NUMBER	OUTLET PIPE				
	Diameter in inches	Length in feet	Fall: Vertical distance between entrance and exit of outlet pipe in feet	Head: Vertical distance from spillway to entrance of outlet pipe in feet	Dead Storage: Storage below entrance of outlet pipe in acre-feet

See Attachment No. ____

e. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be _____ cfs. Diversion to offstream storage will be made by:
 Pumping Gravity

11. CONSERVATION AND MONITORING

a. What methods will you use to conserve water? Explain.

Water will not be recovered during high flows or very low flows. The water intake system is equipped with controls and sensors to monitor not only system operations but also external operating parameters. This system will be tied into a web based control system.

b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? Weir Meter Periodic sampling Other (describe)

Water will not be recovered during high flows or very low flows. The water intake system is equipped with controls and sensors to monitor not only system operations but also external operating parameters. This system will be tied into a web based control system.

12. RIGHT OF ACCESS

a. Does the applicant own all the land where the water will be diverted, transported and used?
 YES NO

If NO, I do do not have a recorded easement or written authorization allowing me access.

b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access:

Applicant's property is adjacent to Aliso Creek and applicant will access the creek from applicant's own property. Water will be diverted from Aliso Creek by submerged pump and conduit owned by applicant for irrigation use for water service clients in applicant's service area.

See Attachment No. 1 "Sec. B, Quest. 4.a"

13. EXISTING WATER RIGHTS AND RELATED FILINGS

a. Do you claim an existing right for the use of all or part of the water sought by this application?
 YES NO

If YES, please specify: Riparian Pre-1914 Registration Permit License Percolating groundwater Adjudicated Other (specify) _____

b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of water diversion and use, if applicable.

N/A

See Attachment No. ____

c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that utilize the same point(s) of diversion.

NONE

See Attachment No. ____

14. OTHER SOURCES OF WATER

Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? Yes No If yes, please explain: _____

15. MAP REQUIREMENTS

The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the quarter/quarter, section, township, range, and meridian of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet at <http://topomaps.usgs.gov>. A certified engineering map is required when (1) appropriating more than three cubic feet per second by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1,000 acre-feet per annum by underground storage. See the instruction booklet for more information.

See Attachment No. 2 "USGS Fig. 1"

ENVIRONMENTAL INFORMATION

Note: Before a water right permit may be issued for your project, the State Water Board must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared for your project, a determination must be made of who is responsible for its preparation. If the State Water Board is determined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs associated with the environmental evaluation and preparation of the required documents. Please answer the following questions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project. See Attachment No. 4 "Hydrology Report"

16. COUNTY PERMITS

a. Contact your county planning or public works department and provide the following information:

Person contacted: MARY ANNE SKORPANICH Date of contact: JAN-JULY 2008
 Department: WATERSHED & COASTAL RESOURCES DIVISION Telephone: (_____) MARYANNE.SKORPANICH@RDMD.OCGOV.COM
 County Zoning Designation: _____

Are any county permits required for your project? YES NO If YES, check appropriate box below:

- Grading permit Use permit Watercourse Obstruction permit Change of zoning
- General plan change Other (explain): _____

b. Have you obtained any of the required permits described above? YES NO

If YES, provide a complete copy of each permit obtained.

See Attachment No. ____

17. STATE/FEDERAL PERMITS AND REQUIREMENTS

- a. Check any additional state or federal permits required for your project:
 Federal Energy Regulatory Commission U.S. Forest Service U.S. Bureau of Land Management U.S. Corps of Engineers U.S. Natural Res. Conservation Service Calif. Dept. of Fish and Game State Lands Commission Calif. Dept. of Water Resources (Div. of Safety of Dams) Calif. Coastal Commission State Reclamation Board Other (specify)

b. For each agency from which a permit is required, provide the following information:

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.
CDFG	1602 Notice	Matthew Chirdon	10/29/2007	(760) 757-3734

See Attachment No. ____

- c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? YES NO

If YES, explain:

See Attachment No. ____

- d. Have you contacted the California Department of Fish and Game concerning your project?

YES NO If YES, name, telephone number and date of contact:

MATTHEW CHIRDON, (760) 757-3734

18. ENVIRONMENTAL DOCUMENT

- a. Has any California public agency prepared an environmental document for your project?
 YES NO
- b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency: _____
- c. If NO, check the appropriate box and explain below, if necessary:
 The applicant is a California public agency and will be preparing the environmental document.*
 I expect that the State Water Board will be preparing the environmental document.**
 I expect that a California public agency other than the State Water Board will be preparing the environmental document.* Public agency: _____
 See Attachment No. ____

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Board, Division of Water Rights and proof of payment of the State Clearinghouse filing fee. Processing of your application cannot be completed until these documents are submitted.

** Note: CEQA requires that the State Water Board, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the State Water Board, Division of Water Rights.

19. WASTE/WASTEWATER

- a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation? YES NO
 If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

See Attachment No. ____ See Attachment 1 "Sec C, Quest.

- b. Will a waste discharge permit be required for your project? YES NO 4.b"
 Person contacted: BRENNON FLAHIVE, South Orange County Wastewater Authority Date of contact: Nov. 17, 2008

- c. What method of treatment and disposal will be used? _____
 • Sediment from areas disturbed by construction shall be retained on-site using structural controls to the maximum extent practicable.

See Attachment No. 1 "Sec. C, Ques. 4.b & 4.c"

20. ARCHEOLOGY

- a. Have any archeological reports been prepared on this project? YES NO
- b. Will you be preparing an archeological report to satisfy another public agency? YES NO
- c. Do you know of any archeological or historic sites located within the general project area?
 YES NO If YES, explain:

See Attachment No. ____

21. ENVIRONMENTAL SETTING

Attach **two complete sets of color photographs**, clearly dated and labeled, showing the vegetation that exists at the following three locations:

- Along the stream channel immediately downstream from the proposed point(s) of diversion.
- Along the stream channel immediately upstream from the proposed point(s) of diversion.
- At the place(s) where the water is to be used.
- See Attachment No. 4 "Hydrology Report"

SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. If the application fees are not received, your application will not be accepted and will be returned to you. Please check the fee schedule for any fee changes prior to submitting the application.

SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.



Signature of Applicant

Betty C. Burnett

Director of Administration/District Counsel

7.25.08

Title or Relationship

Date

Signature of Co-Applicant (if any)

Title or Relationship

Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely in Sections A, B, and C.
- Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- Enclose a \$850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.
- Sign and date the application in Section E.

Send the original and one copy of the entire application to:

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000