BWD WEBSITE
http://www.bvgsp.org/sewer.html

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SEWER SERVICES

BWD maintains a sewer collection, transmission and treatment system for approximately 800 homes and businesses in Borrego Springs. Sewage collected is treated at BWD's Waste Water Treatment Plant and then spread in basins for evaporation. BWD is currently studying the feasibility of reusing the water treated at the Plant for recreational or groundwater recharge uses. To apply for sewer service, contact the BWD office at
760-767-5806.

Sewer Rates

Fats Oils and Grease Program - PROPOSED

BORREGO WATER DISTRICT

760.767.5806

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MSR BORREGO VALLEY REPORT OCT. 07

Borrego Valley Municipal Service Review & Sphere of Influence Update

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Report of the

San Diego Local Agency Formation Commission

(Reference Nos. MSR05-52; SR05-52A; SR05-52B)

October 2007

San Diego Local Agency Formation Commission
1600 Pacific Highway • Room 452
San Diego, CA 92101
619 / 531-5400 • www.sdlafco.org

The Borrego WD (Maps 2A & 2B) was formed in 1962 to protect the local groundwater supply from potential exportation. The Borrego WD supplies groundwater from its local wells to the majority of the developed areas of the Borrego Valley, and provides sewer service to a Commission-designated portion of its service area. The Borrego WD has been recognized by the State of California as the local public agency responsible for groundwater management in the Borrego Valley since 1984.

The Borrego Springs Park CSD (Map 3) was formed in 1965 and also provides water service and sewer service to a small portion of the Borrego Valley. The land uses within the Borrego Springs Park CSD's service area include a golf course, resort, and residential development. The CSD's boundaries are 100% surrounded by the Borrego WD's service area and sphere of influence.

The Borrego Valley MSR determinations reflect that municipal services are generally being provided in an adequate manner within the MSR study area, and that anticipated revenues are sufficient to support the current levels of municipal service provision and contribute to the capital reserves for future needs. The MSR Determinations affirm that the primary agencies generally engage in sound planning for future services.

The MSR Infrastructure, Finance, and Governance determinations and SOI update determinations provide support for a potential consolidation between the Borrego WD and the Borrego Springs Park CSD. The advantages of a consolidation could potentially provide: increased local groundwater management oversight; more efficient municipal service provision within the CSD service area and MSR study area; resolution of the CSD's ongoing regulatory difficulties regarding its water storage infrastructure and provision of municipal services; and provide the Borrego WD with an additional groundwater well source. The Borrego WD and Borrego Springs Park CSD have engaged in ongoing consolidation sub-committee meetings during 2007. Additional discussions regarding final terms and conditions of a consolidation between the district's Board of Directors are expected to occur in early 2008.

The MSR determinations identify two local governmental issues that should be addressed in future sphere updates for the Borrego Valley: the Borrego WD's request for an expansion of its service area's sphere of influence to include the remainder of the privately-owned parcels in the Borrego Valley that are not located within the surrounding Anza-Borrego Desert State Park; and, the Borrego WD's request to expand its latent sewer service area to include all developed parcels within its boundaries.

The Borrego WD has stated that a sphere expansion could better position the district to implement its adopted Groundwater Management Plan by facilitating future annexations that would acquire additional overlying groundwater rights in the valley. The Borrego WD has also stated that expansion of its latent sewer service sphere to include all developed parcels in the Borrego Valley would facilitate their conversion from groundwater-threatening sub-surface septic systems to public sewer service.

The Draft Borrego Valley MSR and SOI Update was distributed to affected agencies and the general public for a 30-day review and comment period, which ended on August 10, 2007. Comments were received from: the County of San Diego Department of Planning and Land Use (DPLU); Borrego WD; and the Borrego Springs Park CSD. There were no comments received from the general public prior to the finalization of the

associated storage reservoirs. The static pressure in ID-3 is set at 100 to 120 psi from four pressure regulating stations.

Improvement District 4

The Borrego WD ID-4 has one water system on the 880' pressure zone. The system is fed by two wells operating continuously, ID4-2 (maximum capacity of 160,000 gpd) and ID4-10 (maximum capacity of 140,000 gpd). The two wells are used to fill four steel reservoirs with a total capacity of 1.6 MG. ID-4 also contains three supplemental wells: ID4-4 (maximum capacity of 940,000 gpd), ID4-11 (maximum capacity of 1.58 MGD), ID4-18 (maximum capacity of 470,000 gpd).

All of the ID-4 wells are connected to the San Diego Gas and Electric power grid. Well ID4-11 is also equipped with an emergency diesel power supply and 3000-gallon fuel tank. One additional emergency well, the Wilcox well (maximum capacity of 430,000 gpd), which is diesel powered and has a 750-gallon fuel tank. Static pressures in ID #4 range from 50 to 160 psi. The static pressure can vary by location and also when a supplemental well is activated to refill one of the water reservoirs.

Facility Needs

The Borrego WD's facility needs are based on engineering studies of anticipated water demands and pipeline network flow analysis. This method is intended to allow the district to be able to meet peak system demands, plus fire flows. The WD's Storage needs include regulations of daily demand, plus reserve storage that can be used if electric power service is interrupted. The Borrego WD's engineering department coordinates with the County of San Diego Department of Planning and Land Use (DPLU) and the Borrego Springs Community Sponsor Group to anticipate new developments requiring water and/or sewer service.

The Borrego WD's overall water distribution system infrastructure ranges in age and capacity between its ID areas. The primary infrastructure needs are in the ID-4 water system where there are several 4" and 6" water mains that are forty years old or older.

A site has been purchased that will accommodate an additional storage tank with a capacity of 500,000 gallons or more in ID-4. The majority of new infrastructure improvements will be financed by fees paid from associated development. Improvements to the WD's existing facilities (wells, pumps and pipelines) would come from the WD's water rate income.

Sewer Service and Infrastructure

The Borrego WD latent sewer service power was activated by LAFCO in 1980 in order for the district to provide sewer service to the Rams Hill development. LAFCO's authorization to provide sewer service was limited to a designated area within the district. This latent sewer service area was also given a service-specific sphere of influence that is coterminous with the sewer service area boundary.

The Borrego WD currently provides sewer and sewer treatment services from the Ram's Hill Wastewater Treatment Plant (WWTP) in ID-1 and ID-2 only. The WWTP has a sewer treatment design capacity of 250,000 gallons per day (gpd).

The WWTP system includes a comminutor (which pulverizes oversized solids that can cause jamming and damage to pumps and process equipment), a parshall flume (which measures the flow rate), a grit chamber (which removes larger, heavier particles such as sand and stones), an oxidation ditch, two secondary clarifiers, a flow equalization basin, three evaporation-percolation ponds, and sludge drying beds.

The WWTP provides sewer treatment service for approximately 20% of the community of Borrego Springs (the Rams Hill-Montesoro resort and the Town Center area). The remaining 80% of the community of Borrego Springs is currently utilizing individual subsurface septic tank disposal systems.

According to the Regional Water Quality Control Board for the Colorado River Basin Region, which regulates the waste discharge from the WWTP, current flows into the facility average approximately 60,000 gpd, which is equal to 24% of its total capacity. During the summer, flows average 20,000 gpd. Effluent from the WWTP is discharged to evaporation/percolation ponds. Sludge from the WWTP is discharged to on-site drying beds for stabilization, and removed every four to five years for off-site disposal.

The WWTP's remaining available sewer treatment capacity has been allocated to ID-1 and ID-2 for future development projects that are in the planning process. Additional local development projects are anticipated over the next 10-15 years, which may require expansion of the sewer treatment facility's capacity. Any additional areas seeking sewer service in the future would be required to pay for the construction of their necessary infrastructure.

Flood Control and Vector Control

The Borrego WD is authorized to provide flood control service across its district area. The WD currently provides flood control only to ID-1. Extensive flood control infrastructure was constructed in ID-1 in order to protect the Rams Hill development from unpredictable flash floods resulting from tropical storm events that can occur in the desert areas during the summer months.

The Borrego WD is authorized to provide vector control service across its district area. This service is primarily intended for eradication of the eye gnat and is performed by Borrego WD staff.

Infrastructure Deficiencies

The Borrego WD reports that no significant infrastructure deficiencies currently exist within their service areas. Any present deficiencies, such as older water mains, have been addressed through ongoing maintenance and are upgraded as necessary. Some water main replacements are expected to be financed by developers, which are required to improve system capacities to meet the anticipated needs of their associated developments and to provide 1,500 gallon-per-minute (gpm) fire hydrant flows for fire protection needs.

New wells will be installed by the Borrego WD as system demand increases and as the existing wells that are 40 years old, or older, fail. Additional water storage will be purchased from connection fees and funds collected by developers of new tracts.

added an approximate total of 2,300 acres (3.6 square miles) to both the sphere and the district's service boundary.

Sewer Service Area

There has been one amendment to the Borrego WD's sewer sphere in 1994, which added approximately 20 acres to the sewer sphere. This sewer sphere amendment was intended to facilitate the provision of sewer to the proposed 140-acre "Mesquite Trails Ranch RV Park" development.

Recommended Spheres

The present need for public facilities and services are being met by the Borrego WD in its service area. The probable need for services in the Borrego Valley will be balanced against the availability and cost of groundwater for future use. The existing capacities of the Borrego WD's public facilities are sufficient to provide its presently-needed water and sewer services. New development is required to finance its needed infrastructure and capacity. In general, public services are being provided in an adequate manner to the Borrego WD service area.

Water

The Borrego WD, as the designated groundwater management agency for the Borrego Valley, is anticipated to eventually extend its service boundary to include the remaining privately-owned parcels in the valley that are not included in the surrounding Anza-Borrego Desert State Park. This eventual expansion would allow the Borrego WD to better control the groundwater extraction in the valley and implement its groundwater preservation programs and policies. The Borrego WD has requested that LAFCO examine the potential of this sphere expansion during the current process of reviewing and updating its sphere.

LAFCO staff reviewed this request and determined that an expansion of the Borrego WD sphere to include all of the remaining parcels in the Borrego Valley would be premature as the County of San Diego is still in the process of comprehensively updating its 1979 General Plan. In addition, the majority of the Borrego Valley area that is not located within the Borrego WD sphere has no active land uses that would threaten the implementation of the district's groundwater management program.

Sewer

The Borrego WD has requested that their sewer service sphere be expanded to include all of the developed lots in Borrego Springs in order to facilitate their transition from subsurface septic systems, which have been recognized as a threat to local groundwater quality, to public sewer service. While sewer treatment capacity exists for additional development, the County of San Diego is responsible to ensure that all new development will avoid the use of underground septic systems that could degrade the local groundwater quality. This health and safety emphasis on groundwater management and preservation could also provide an overriding concern when requests for Borrego WD sewer service sphere expansion are submitted for LAFCO consideration on a case-by-case basis.

WATER QUALITY CONTROL PLAN

WATER QUALITY CONTROL PLAN

COLORADO RIVER BASIN- REGION 7

Includes Amendments Adopted by the Regional Board through August 2017

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
STATE WATER RESOURCES CONTROL BOARD

C. MOU WITH THE BUREAU OF LAND MANAGEMENT

"Memorandum of Understanding between California Desert District U.S. Bureau of Land Management and California Regional Water Quality Control Board Colorado River Basin Region" (adopted January 25, 1985; Resolution No. 85-24).

D. WATER QUALITY LIMITED SEGMENT

"Designating Water Quality Limited Segments in the Colorado River Basin Region" (adopted January 27, 1988; Resolution No. 88-37).

E. MOA's

"A Memorandum of Agreement between the California Regional Water Quality Control Board Colorado River Basin Region and the Department of Health Services for the Regulation of Low-Level Radioactive Waste" (adopted June 28, 1989; Resolution No. 89-060).

"A Memorandum of Agreement between the California Regional Water Quality Control Board Colorado River Basin Region's Executive Officer and Ibanez Farms and Chino Corona Farms" (adopted November 29, 1989; Resolution No. 89-078).

F. WATER QUALITY ASSESMENT

"Water Quality Assessment for the Colorado River Basin Region of California" (adopted November 20, 1991; Resolution No. 91-057).

G. AGRICULTURAL DRAINAGE

"Agricultural Drainage Management Report for the Colorado River Basin Region" (adopted March 11, 1992; Resolution No. 92-023).

III. REGIONAL BOARD ISSUES

The following issues will be considered by the Regional Board:

A. SEPTIC SYSTEM IMPACTS TO GROUND WATER BASINS

There are a number of unsewered communities in this Region which have the potential to have a negative impact on the groundwater. The Regional Board has identified some communities with high densities of septic systems. As staffing and finances permit, the Regional Board will conduct investigations to determine the relative priority for sewering the following communities:

- Communities in the Indio Hydrologic Subarea
- Yucca Valley
- Twentynine Palms
- Palo Verde

- Morongo Valley
- Lucerne Valley
- Borrego Springs
- Landers
- Joshua Tree

B. BENEFICIAL USE DESIGNATIONS OF AQUIFERS

The ground water Beneficial Use Designations for this Region are currently based on hydrologic units. In the next three years, Regional Board staff intends to review the appropriate groundwater data and propose changes to the Beneficial Use Designations so that they will correspond to individual groundwater aquifers within the various hydrologic units. The proposed changes in designations will also be based on the review of the "Sources of Drinking Water Policy" in Chapter 2. These changes would result in an updated version of Table 2-5 (Chapter 2) and a more detailed map of the groundwater aquifers in this Region.

C. GEOTHERMAL FLUIDS

Due to the extensive development of the geothermal industry in Imperial Valley, the Regional Board is assessing the potential of surface water and ground water contamination from geothermal brines. A Regional Board policy on geothermal development along with updated water quality objectives may be promulgated as necessary based on the findings obtained.