



**OBGMA 2012 LOCAL GROUNDWATER ASSISTANCE GRANT
ATTACHMENT 4. PROJECT DESCRIPTION**

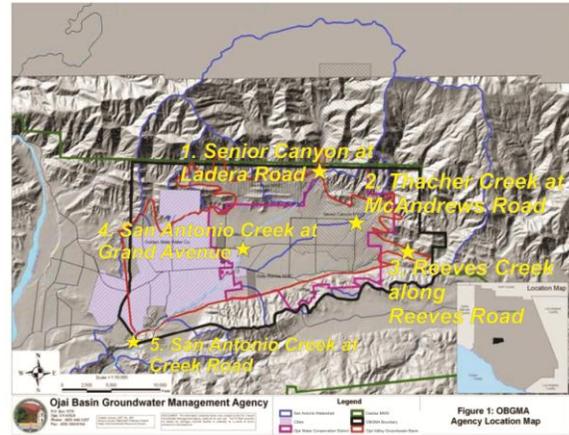
The proposed project is entitled "Ojai Groundwater Basin Inflow/Outflow Study," which has been abbreviated to the acronym of "IOS." As the name implies, the IOS strives to quantify the inflowing surface water that recharges the basin, the outflowing surface water that discharges from the basin, and quantify the surface water flowing through the central portion of the basin at the point of compliance for the SACSGRP.

Goals of the Project

The goals of the IOS project are, in concert with the GWMP, to measure surface water inflow to the Ojai Basin and measure outflow along San Antonio Creek. These data will help to quantify and supplant indirect measurements of inflow to the basin used in previous studies, as well as provide key information to deduce the annual recharge to the basin and bracket groundwater extractions or other uptakes.

Needed Facilities and Locations

Five locations are proposed for the IOS gaging facilities, each shown on the following figure and listed below with photographs:



Inflow Points



1. Senior Canyon at Ladera Road



2. Thacher Creek at McAndrews Road



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3. Reeves Creek at Reeves Road



5. San Antonio Creek at Creek Road

Central Point



4. San Antonio Creek at Grand Avenue

Outflow Point

Needed facilities will include the automated, continuous monitoring equipment. Under evaluation and planning tasks described in Attachment 4, Work Plan, a final evaluation of most applicable monitoring equipment will be conducted. Preliminary evaluation has indicated that the non-contact, radar type of gaging equipment will be most optimal. Such equipment are typically attached to bridges, which are all at the locations of the proposed monitoring points. Non-compromising attachments will be made, as necessary, to affix equipment at each gage. The types of gages currently specified include the Ohmart Vega VegaPuls series, which meet USGS accuracy requirements.



The VegaPuls 62 is pictured below, and five units would provide consistent, continuous monitoring at each of the five gaging locations. Other types of instrumentation may include in-stream pressure and temperature dataloggers to corroborate radar measurements and further refine flow data.



Relevance to GWMP

The inflow/outflow study is of significant relevance to the GWMP as it is clearly prioritized in the goals of the OBGMA. Quantification of the long term parameters is key to providing defensible estimates of recharge and sustainability of groundwater extraction from the Basin.

Quality and usefulness of data

In addition to the stream flow stage height, which will be continuously and automatically recorded and transmitted to OBGMA hardware, monthly field visits

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to each gaging station will be made during the rainy seasons (November through April) and quarterly visits during the dry season (May through October) for a total of eight visits per year. During these visits, stream profiles, depths and velocities will be measured such that rating curves can be established for the periods of automated measurements and true quantities of flow can be determined. USGS standards will be targeted, specifically as described in the series of manuals on Techniques and Methods, Section A of Book 3 available at <http://pubs.usgs.gov/tm/tm3-a7/> which refers to surface water techniques.

Collaboration with other Agencies

OBGMA is run by a collaboration of major local agencies in the Ojai Valley, including the Ojai Water Conservation District, City of Ojai, Casitas Municipal Water District, Golden State Water Company, and mutual water companies. Each of these entities maintains a seat on the OBGMA Board of Directors, so by nature the OBGMA collaborates with those agencies and companies operating in the Basin.

OBGMA also collaborates with the County of Ventura in the CASGEM program, the San Antonio Spreading Grounds Rehabilitation Project, serves on the Ventura River Watershed Council, and maintains several other formal and informal ties with stakeholders and groups. Internal and external collaboration are key to the OBGMA's mission and successful implementation of groundwater management.



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Information dissemination

The OBGMA regularly holds monthly public meetings where interested stakeholders and the public are invited and encouraged to attend. Annual Reports and the OBGMA Website (www.obgma.com) are key means of dissemination of information that will be collected by the proposed IOS project. OBGMA will also share directly monthly updated data, graphs and information with the County of Ventura Watershed Protection District, the State of California DWR, and the USGS. Each of these agencies local representatives will be contacted via electronic mail and placed on the email distribution list of monthly OBGMA Agenda packets during the course of the proposed project. During each monthly meeting, a portion of the meeting will be set aside to discuss progress on the IOS project with board members and stakeholders. Agenda packets and minutes from meetings, as well as data and graphs from the project, will be posted on the OBGMA Website.

Post-project funding

After grant funds are expended, OBGMA will use the infrastructure (gages, loggers, data sets, and information) on an indefinite continual basis. OBGMA will set aside a portion of their annual budget to continue downloading, measuring, and interpreting and disseminating information obtained from project-derived products.

The source of the funds to continue operations will be the OBGMA extraction fees, levied on pumpers in the basis on a per-acre-foot rate, established by the OBGMA each June.