

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: 5/16/2008

RFS NO.: 2008-01

(To be filled in by WATERMASTER)

TO: Dave Edson

FROM: Robert Jaques

Services Needed and Purpose:

To provide horizontal and vertical survey information for reference points at water wells located within and near the area overlying the Seaside Groundwater Basin. A detailed Scope of Work is attached as Attachment 1".


Completion Date: Work to be completed within 30 days from the date of execution of this RFS No. 2008-01.

Method of Compensation: Lump Sum, with Special Services Allowance. Cost breakdown is attached as "Attachment 2." (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 8,000.00 (Cost is authorized only when evidenced by signature below.)

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by:  Date: 5/15/08
WATERMASTER Technical Program Manager

Authorized by:  Date: 5/15/08
WATERMASTER Chief Executive Officer

Agreed to by:  Date: 5/15/08
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

The Scope of Work for this RFS No. 2008-01 is:

1. To develop accurate elevation and location data for the reference points of each of the 98 wells listed in Attachment A. The locations of these wells are shown on the map in Attachment A. Note that not all of the wells are individually visible on this map, since some of them are in such close proximity that they appear as a single well.
2. To provide this data in tabular form in an Excel spreadsheet, so that the WATERMASTER can use this data to develop water level elevations from the water depth measurements it receives from the well owners, and so that these wells can be accurately plotted on maps.

The PROFESSIONAL will perform the surveying work in compliance with only the most stringent survey requirements and accuracy standards. The instrumentation to be used will be a Leica GPS 500 system supplemented with Leica TCRA 1102 total stations where GPS signal is unavailable. The work will be performed so as to provide accuracies of less than 0.1' both horizontally and vertically.

The WATERMASTER will provide personnel to accompany the PROFESSIONAL's personnel performing the field work to take them to each of the well locations where well reference point elevations and location coordinates need to be developed, and will provide access to each of those sites.

The work will proceed in the following sequence of activities:

Phase 1 - Field Work Preparation & Monitoring Well location:

Upon receipt of a Notice to Proceed the PROFESSIONAL will determine the method to be used to locate each reference point. A two person field crew will establish a coordinate system, using a GPS rover, to tie into USGS coordinates. The PROFESSIONAL will then begin recording each reference point's position and elevation. For reference points where GPS signal is unavailable the PROFESSIONAL will leave control points. These control points will be used to utilize the PROFESSIONAL's terrestrial total station to advance control if necessary, and ultimately record positions for each remaining reference point that is not accessible by a GPS rover. It is estimated that the field work to take 3.5 – 4 days.

Phase 2 - Post processing:

Once all the reference points have been located, the data will be downloaded and

processed. The PROFESSIONAL will prepare a Microsoft Excel spreadsheet containing the list of reference points (by name) along with the corresponding elevation and location data for each reference point. It is estimated that this will take one TECH 1 surveyor one day to complete. This data will be reviewed by the licensed land surveyor and delivered to the WATERMASTER on a CD in electronic format and in a hardcopy format.

Attachment A

**Tabulation
and
Location Map
of
Wells for Which
Surveying Data is to be Developed**

WELL NAME	OWNER	LOCATION
CAW - Plumas #4	California American Water Co.	Plumas Ln., Seaside
CAW - Darwin	California American Water Co.	West side of Darwin Ave. midway between Pine St and Manzanita St., Seaside
CAW - Military	California American Water Co.	Military Avenue, Seaside
CAW - Ord Grove #2	California American Water Co.	Off Ord Grove Ave. near cemetery, Seaside
CAW - New Luzern	California American Water Co.	Luzern Street, Seaside
CAW - Playa #3	California American Water Co.	40 feet East of East Front Street 255 feet North of Playa Street, Seaside
CAW - Playa #4	California American Water Co.	Playa (North side of alley), Seaside
CAW - Paralta	California American Water Co.	North end of Paralta Ave., Seaside
Reservoir Well	City of Seaside	Bayonet/Blackhorse Golf Course, Seaside
Coe Avenue Well	City of Seaside	Along Coe Ave. 240 ft. westerly from Ord Ave., then 115 ft. south, Seaside
Public Works Corp. Yard	City of Sand City	1 Sylan Park, Sand City
Cypress Pacific	Monterey Peninsula Engineering	Tioga Ave. & Hwy 1, Seaside (???)
Robinette -Design Ctr.	City of Sand City	Hickory & Shasta St., Sand City
Target	Dayton Hudson Corp. (?)	Sidewalk by Target store
PRTIW -operated by MMP	Mission Memorial Park	Northeast corner of Mission Memorial Park Cemetery
SNG	Security National Guaranty, Inc.	Pratto Plant, Hwy 1 across from Fort Ord Village, Sand City OR Hwy 1 at California St. in Sand City (???)
City #4	Seaside Municipal Water System	1760 Juarez St., Seaside
City #2	Seaside Municipal Water System	Costa & Broadway, Seaside
City #1	Seaside Municipal Water System	Del Monte Heights, off Broadway, Seaside
City #3	Seaside Municipal Water System	Next to Fort Ord fence Juarez & San Pablo St., Seaside
well lot Bishop #1 (west)	CAW - Bishop Unit	In Pasadera subdivision
well lot Bishop #2 (east)	CAW - Bishop Unit	In Pasadera subdivision
Mutual	CAW - Hidden Hills Unit	In CAW Hidden Hills well lot
Standex	CAW - Hidden Hills Unit	Off Laureles Grade Rd., approx. 1/2 miles west of Laureles Rd and Baronet Dr. and approx. 200 feet off Baronet Dr.
Bay Ridge	CAW - Hidden Hills Unit	
RR#7	CAW - Ryan Ranch #7	Approximately 1 mile East on Highway 68 from Canyon Del Rey, 300 feet North off road, Monterey
RR#8	CAW - Ryan Ranch #8	Ryan Ranch #8 - Highway 68, Monterey
RR#11	CAW - Ryan Ranch #11	In Ryan Ranch
Old Main Gate (Lot #12)	Pasadera - New Cities Development	160 Pasadera Lane
Paddock #1(Lot #11)	Pasadera - New Cities Development	200' North of Salinas-Monterey Highway and 1 mile west of intersection of Los Laureles Highway, & S & Mont. Hys.
York School	York School	
(new #12)	Laguna Seca Golf Resort	Near No. 12 hole on golf course
(racetrack)	Laguna Seca Golf Resort	Laguna Seca Ranch, off Highway 68, below Clubhouse, Monterey
SPCA	SPCA	
LS Cnty Park #1 (former #3)	Monterey Cnty Parks District	Off of Highway 68
LS Cnty Park #2 (former #4)	Monterey Cnty Parks District	Off of Highway 68
MSC-Shallow	MPWMD	HWY 1, SAND CITY
MSC-Deep	MPWMD	HWY 1, SAND CITY
PCA-W Shallow	MPWMD	HWY 1, SAND CITY
PCA-W Deep	MPWMD	HWY 1, SAND CITY
PCA-E (Multiple) Shallow	MPWMD	HWY 1, SAND CITY
PCA-E (Multiple) Deep	MPWMD	HWY 1, SAND CITY
Ord Grove Test-Shallow/Deep	MPWMD	1987 PARK CT, SEASIDE
Paralta Test-Shallow/Deep	MPWMD	2104 PARALTA AVE., MONTEREY(???)
Ord Terrace-Shallow	MPWMD	1700 block of Ord Grove Ave. near T intersect w/ Baldwin Ct., Seaside
Ord Terrace-Deep	MPWMD	
MPWMD #FO-09-Shallow	MPWMD	N2127579.25693, E???
MPWMD #FO-09-Deep	MPWMD	
MPWMD #FO-10-Shallow	MPWMD	N2130543.48114; E???

WELL NAME	OWNER	LOCATION
MPWMD #FO-10-Deep	MPWMD	
Fort Ord Monitor-Dune/Aromas	U.S. Army	
CDM MW-1-Dune/Aromas	MPWMD	
CDM MW-2-Dune/Aromas	MPWMD	
CAW Del Monte Observation-Shallow	CAW	N2120139.85; E???
SBWM MW-1-Deep (Purisima)(6)	Watermaster	
SBWM MW-2-Deep (Purisima)(6)	Watermaster	
SBWM MW-3-Deep (Purisima)(6)	Watermaster	
SBWM MW-4-Deep (Purisima/Santa Margarita)(6)	Watermaster	
MPWMD #FO-01-Shallow	MPWMD	N2115446.81099; E???
MPWMD #FO-01-Deep	MPWMD	
MPWMD #FO-07-Shallow	MPWMD	N2122688.6982; E???
MPWMD #FO-07-Deep	MPWMD	
MPWMD #FO-08-Shallow	MPWMD	N2126741.393; E???
MPWMD #FO-08-Deep	MPWMD	
MPWMD #FO-11-Shallow	MPWMD	N2130660.90472; E???
MPWMD #FO-11-Deep	MPWMD	N2130660.90472; E???
Plumas '90 Test-Deep	MPWMD	1453 PLUMAS AVE., SEASIDE
K-Mart-Dune/Aromas	Home Depot	CANYON DEL REY BLVD, SEASIDE
CDM MW-3-Dune/Aromas	MPWMD	
CDM MW-4-Dune/Aromas	MPWMD	
MW-BW-08A-Dune/Aromas	U.S. Army	
MW-BW-09-180-Shallow	U.S. Army	
MPWMD #FO-03-Shallow	MPWMD	N2109576.68088; E???
MPWMD #FO-03-Deep	MPWMD	
MPWMD #FO-04-Shallow (E)	MPWMD	N2111834.4504; E???
MPWMD #FO-04-Deep (W)	MPWMD	
MPWMD #FO-05-Shallow	MPWMD	N2103180.54186; E???
MPWMD #FO-05-Deep	MPWMD	
MPWMD #FO-06-Shallow	MPWMD	N2102695.44063; E???
MPWMD #FO-06-Deep	MPWMD	
Justin Court (RR M2S)-Shallow	CAW	JUSTIN COURT, MONTEREY
LS Pistol Range (Mo Co TH-1)-Deep	Monterey County	1021 MONTEREY-SALINAS HWY, SALINAS
York Rd-West (Mo Co MW-1 D)-Deep	Monterey County	N2105316.47467; E???
Seca Place (Mo Co MW-2)-Deep	Monterey County	13 SECA PL., SALINAS
Robley Shallow (North) (Mo Co MW-3S)-Shallow	Monterey County	12660 CORTE CORDILLERA, SALINAS
Robley Deep (South) (Mo Co MW-3D)-Deep	Monterey County	12660 CORTE CORDILLERA, SALINAS
LS Driving Range (SCS Deep)-Shallow	Monterey County	10520 YORK RD., MONTEREY
LS No. 1 Subdivision-Deep	Laguna Seca Resort	N2102479.95484; E???
Blue Larkspur-East End-Believed to be Deep	Laguna Seca Resort	N2102676.75507; E???
York School-Shallow	York School	Fort Ord - York School south bound, Monterey
Laguna Seca Driving Range (SCS-Deep)-Shallow	Monterey County	
CAW Granite Construction-Deep	CAW	
Laguna Seca Golf New #12-Deep(9)	Laguna Seca Resort	10520 York Rd., Monterey
Pasadera Main Gate-Deep	Pasadera Country Club	
Laguna Seca_Old No. 12	Laguna Seca Resort	10520 YORK RD., MONTEREY
ASR-1	MPWMD	1910 General Jim Moore Blvd., Seaside
ASR-2	MPWMD	1910 General Jim Moore Blvd., Seaside
ASR MW-1	MPWMD	1910 General Jim Moore Blvd., Seaside

**SEASIDE GROUNDWATER BASIN WATERMASTER
Wells to be Surveyed for Reference Point Elevations**



Legend

- ⊕ Coastal Seaside Subareas Monitor Wells (and vicinity) selection
- ⊕ Laguna Seca Basin Monitor Wells (and vicinity) selection
- ⊕ Seaside Basin Production Wells selection
- Seaside Groundwater Subareas

Prepared by MPWMD
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ATTACHMENT 2

COST BREAKDOWN

The Lump Sum fee for providing the surveying services described in Attachment 1 is \$6,000.00.

As described in Section V.C.1 of the Agreement, a Special Services Allowance of \$2,000.00 is provided in this RFS No. 2008-01 to cover unforeseen circumstances which differ from those described in Attachment 1.

PROFESSIONAL shall provide WATERMASTER with advance written notification stating the reasons for requiring the utilization of any or all of the Special Services allowance. No utilization of any portion of the allowance shall occur without the prior written approval of the WATERMASTER. Special Services costs will be charged in accordance with the Time-and-Expense Payment Method as defined in Section V.D of the Agreement, using the hourly and daily rates described below.

Phase 1 - Field Work Preparation & Reference Point Location:

The daily rate for a two person survey crew along with all necessary equipment will be \$1600.00 per day. This rate will be prorated for fractional days.

Phase 2 - Post processing:

The rate for a TECH 1 in the office will be \$85.00 per hour.