

TO: James L. App, City Manager
FROM: Doug Monn, Public Works Director
SUBJECT: Hydro-geologic Support Services
DATE: July 3, 2007

NEEDS: For the City Council to consider authorizing Hydro-geologic Support Services.

- FACTS:**
1. In 2004, Todd Engineers was retained to provide technical support related to hydro-geologic, ground water management and water rights issues in the development of an agreement with the landowner group Paso Robles Imperiled Overlying Rights (PRIOR).
 2. Participants in the agreement include overlying property owners, San Luis Obispo County and the City of Paso Robles. It provides that the parties will cooperate to sustain Basin water for current and prospective users.
 3. Todd Engineers can continue to assist the City on its stewardship of water resources by assisting with four related work efforts: annual basin conditions analysis; groundwater banking feasibility analysis; update of the City's Urban Water Management Plan; and completion of new private well policies.
 4. Since the completion of the PRIOR agreement in 2005, Todd Engineers has assisted the City and the members of PRIOR in evaluating the needs and future goals of those accessing the Paso Robles Ground Water Basin.
 5. The City, members of PRIOR and the County have determined that an annual update measuring changes in the Basin would have great value.
 6. The last assessment was conducted nine years ago. While information collection regarding the basin has been on-going, no update has been produced.
 7. Because of their understanding of the PRIOR agreement, in-depth knowledge of the basin, the demands the City, County and Agricultural interests, it would be most cost effective to retain Todd Engineers to draft the first Annual Basin Update Report.
 8. The County has offered to contribute \$5,000 to the cost of the Basin Update Report.
 9. Another subject related to the basin is a County created Ground Water Banking Subcommittee (comprised of members of the Water Resource Advisory Committee) The purpose of the subcommittee is to review the potential of banking State Water in the Paso Basin for future recovery.
 10. Historically, the concept of banking ground water in the Paso Robles Basin was considered questionable given that it lacks the features that support classic ground water banking.

11. Most recently, County Public Works has resurrected the concept, suggesting the County bank its 20,000 AFY of unused State Water. The 'banked' water could presumably be sold back to the State Water market when the demand warranted it.
12. The work conducted to date has not provided economic analysis of the program or its benefit to local users of the Basin. The City is concerned that banking of water in the basin could be represented as a general benefit to the Paso Basin and therefore fundable by its users, including the City of Paso Robles, while possibly providing no measurable benefit to the City.
13. The proposed contract establishes that Todd Engineers would act as the City's primary contact and representative to the Water Banking Sub-committee for the purpose of protecting the City's interests as they relate to ground water banking feasibility and any potential financial impacts it might have upon users of the basin.
14. For another related work effort, California Water Code Sections 10610 through 10657 requires the City to update its Urban Water Management Plan and submit a copy to the State. The last update was initiated in 2005 by Todd Engineers prior to adoption of the City's Integrated Water Resources Plan.
15. Todd Engineering will complete and update the UWMP to reflect the content and required actions associated with the Integrated Water Resources Plan as well as the City's private well policy presently in final development.

**ANALYSIS &
CONCLUSION:**

The support services of Todd Engineers would be as follows:

- Preparation of the Report on the state of the Paso Robles Groundwater Basin.
- Update of the Urban Water Management Plan to reflect the adoption of the Integrated Water Resource Plan.
- Representation of the City to the Ground Water Banking Committee.
- Support/assistance with the City's private well policy.

The Basin is an important asset to the City, County and Agricultural users who share it. The continued economic vitality of its consumers is predicated upon their being good stewards of the resource. To ensure continued availability of the resource, accurate knowledge relative to present and changing conditions and regular on-going monitoring of the Paso Robles Ground Water Basin is essential.

Additionally, as part of their basin update, Todd Engineers would represent the City on the Ground Water Basin Banking Subcommittee. Their involvement in the subcommittee would be to; 1) to use their knowledge of the basin to determine if there is benefit, to enhancing the yield of the basin that would be of benefit to the City and; 2) to watch that, should ground water basin storage become a reality, that any arrangement with State Water for the project does not result in a surcharge or pumping tax on the basin users.

It is the goal of the City to supply water to all within the boundaries of the City. As part of the proposed contract, Todd Engineers would update the City's Urban Water Management Plan to reflect the actions contained in the Integrated Water Resource Plan and the City's Private Well Policy.

Because of their familiarity with the ground water basin, Urban Water Management Plan and Integrated Water Resource Plan, it is in the best interest of the City and its water users to retain the service of Todd Engineers to complete the work scope outlined in the staff report.

FISCAL

IMPACT: City Council has included \$60,000 in its 2007/2008 Fiscal Year Budget to cover these services. Todd Engineers proposes to complete the work described for a cost not to exceed \$57,860.

- OPTIONS:**
- a. Adopt Resolution No. 07-xx appropriating \$60,000 from Water Operation Funds to Budget No. 600-310-5224-546 and authorize the City Manager to enter into a contract with Todd Engineering in the amount of \$60,000 to prepare an annual report on the status of the Paso Robles Basin and represent the City on the Ground Water Banking subcommittee.
 - b. Amend, modify, or reject the above option.

Attachments (2)

- 1) Scope of Work
- 2) Resolution

TODD ENGINEERS

2200 Powell Street, Suite 225
Emeryville, CA 94608
(510) 595-2120

May 24, 2007

MEMORANDUM

To: Doug Monn, Director of Public Works

From: Iris Priestaf, President

Re: Provision of Hydrogeologic Support Services to the City of Paso Robles,
Calendar Year 2007

At your request, this memorandum describes a scope of services and cost estimate for provision of hydrogeologic support services on behalf of the City of Paso Robles. These services address hydrogeologic, groundwater management and water rights issues and include the following:

- Preparation of the Annual Report on the state of the Paso Robles Groundwater Basin and coordination with PRIOR and Paso Robles Basin Committee
- Completion of the Urban Water Management Planning (UWMP) process
- Representation of the City on WRAC's Ground Water Banking Sub-Committee
- Provision of as-needed technical and strategic support services, e.g., assistance with private well policy

The attached scope (Exhibit A) organizes the above services into four tasks and provides detailed subtasks. Exhibit B provides a cost estimate. The cost estimate for the Annual Report acknowledges the contribution of San Luis Obispo County, amounting to \$5,000, which is being handled separately by the County and Todd Engineers. Costs for the as-needed services are subject to the City's authorization and estimated at a not-to-exceed cost of \$10,000.

I am pleased to serve as project manager, primary contact, and Water Banking Sub-Committee representative for the City. Katherine White, Senior Engineer, will continue to lead the UWMP process. The proposed team for the Annual Report includes Mr. Jesse Crews as project geologist, Ms. Maureen Reilly as project engineer, and support staff. Other staff familiar with the City of Paso Robles and Paso Robles Groundwater Basin will be made available as needed, including David W. Abbott, Senior Geologist.

I appreciate the opportunity to work with the City of Paso Robles toward its water resource management goals. Please do not hesitate to call me if you have any questions or comments on this proposal.

Exhibit A

Task 1 Preparation of the Annual Report

1.1 Obtain and Compile Data for Annual Report

The Annual Report on the Paso Robles Groundwater Basin will be based largely on the existing monitoring program of the County with supplemental data from the City and landowners. Todd Engineers will work with the County to acquire relevant GIS layers and databases documenting the monitoring well network. Data compilation will include the regularly-collected groundwater level and quality data from the County, City of Paso Robles, and other agencies as needed.

1.2 Review and Analyze Data for Annual Report

Precipitation Data. One or more climate stations will be represented, including the Paso Robles Water Department gage and potentially others used in the County's Hydrologic Report. Historic precipitation data will be presented in an annual bar graph. Monthly data for the current water year may also be presented.

Groundwater Level Data. Todd Engineers will prepare groundwater level hydrographs for five to ten representative wells. A current (e.g., spring 2006) groundwater level map will be prepared. Recent (post-Basin Study) data will be reviewed for quality control to identify outliers and inconsistencies. A water table change map will be prepared comparing spring 2006 to the spring 1997 map of the Paso Basin Study, recognizing that the annual report will address the degree to which the intervening nine years are representative of long-term conditions. An alternative period and set of maps may be recommended to bridge the gap between the Paso Robles Basin Study and the present.

Change in Storage. This task will involve calculation of the change in groundwater storage by multiplying the volume of the change in water levels by the storage coefficient values used in the Phase II Paso Basin Study.

Groundwater Quality Data. The annual report will build on the Paso Robles Basin Study water quality database, which will be updated with recent, readily available information. Provision of water quality data from the County and City in electronic format is assumed. Depending on availability of data, spot maps will be prepared showing TDS, chloride, and nitrate concentrations for recent conditions. As data are available, concentration versus time graphs will be presented for five to ten representative wells for TDS, chloride, and nitrate. Recent data will be reviewed for quality control.

1.3 Prepare Annual Report

Draft Report. A draft annual report will be submitted for review by the committee members in nine hard copies or electronic copies, as desired. Consolidated comments from the landowners, County, and City, respectively, are assumed.

Final Report. Comments will be incorporated into a final annual report. Nine hard copies and an electronic copy (Adobe Acrobat) will be provided.

1.4 Meetings and Presentations

Meetings. The Paso Robles Basin Committee is meeting semi-annually; recognizing that one meeting has already occurred in 2007, only one meeting is included here and will likely take place in September. This task includes preparation for and participation in the meeting, including preparation of an agenda and meeting summary.

Presentations. An illustrated presentation (Powerpoint) will be prepared and submitted to committee members in electronic format for review. Comments will be incorporated into a final presentation. For the purposes of costing, two public meetings are assumed, including the City of Paso Robles City Council and WRAC or subcommittee thereof.

Task 2 Completion of the Urban Water Management Plan

2.1 Update Report and Provide Administrative Draft UWMP

Todd Engineers will prepare an internal administrative draft for City staff review, which will be submitted in one copy plus an electronic copy.

2.2 Incorporate City Comments and Provide Public Draft UWMP

We will incorporate City comments into a Public Draft version of the UWMP and provide the City with three bound copies and one electronic copy for distribution to interested parties and the public. Our schedule assumes receipt of City comments within two weeks from submittal of the Administrative Draft UWMP.

2.3 Address Public Comments and Provide Final UWMP

Comments received during the circulation period and at the public hearing will be addressed in the final draft of the UWMP. Consistent with the final 2000 UWMP, we will assemble an appendix with comment letters, transcribed verbal comments, and responses to comments. The final report will be delivered to the City in three bound copies plus an electronic copy.

2.4 Public Hearings

After completion of the draft UWMP, the City must hold a public hearing; Todd Engineers will provide an illustrated presentation summarizing the draft UWMP and will address questions and comments. We will also provide a final presentation to the City Council to describe changes in the draft UWMP and to address any final concerns.

Task 3 Representation at Ground Water Banking Sub-Committee

This task, involving service as the City's representative to the Ground Water Banking Sub-Committee, will focus on the Paso Robles Groundwater Banking Feasibility Study now underway. The task will include review of recent Sub-Committee meeting summaries and other documents (some of which are available online) and the *Preliminary Engineering Technical Memorandum* submitted to the Sub-Committee in December 2006. This task also involves review of subsequent submittals, including the Progress Report and Draft Report, and provision of comments. Draft comments will be

provided to the City for review before being sent to the County. Attendance at the two remaining Sub-Committee meetings in 2007 is assumed in the cost estimate.

Task 4 Provision of As-Needed Services

These services include communication with City staff and MHA counsel, participation in water strategy meetings, and provision of technical information/strategic support. Recent services have included peer review of hydrogeology and groundwater management-related documents, assistance with development of a City policy on private wells and technical support to the AIWRP, among other tasks.

Schedule

The overall schedule for the above tasks is for the remainder of calendar year 2007. For the purposes of planning, we assume authorization the first week in July 2007.

Task 1, Preparation of the Annual Report, includes two major milestones: submittal of the draft Annual Report in late August 2007 and completion of the final Annual Report in late September 2007.

Task 2, Completion of the UWMP, will include submittal of an Administrative Draft to the City in early August 2007. The schedule assumes a two week staff review of the Administrative Draft UWMP. A Public Draft can be supplied to the City by early September 2007 resulting in the required 45-day public review period for the draft UWMP to be completed by the end of October 2007. During the 45-day public review period, one copy of the draft UWMP will be submitted to DWR for internal review to ensure that all requirements are met. The Final UWMP will be presented to the City by the end of November 2007, allowing final review by the City Council prior to adoption. Adoption is indicated for the Council meeting in mid-December 2007.

The schedule for **Task 3, Representation on the Banking Sub-Committee**, is driven by the schedule of the Feasibility Study. Sub-committee meetings included in this scope are slated for August 2 and October 4, 2007. Review and provision of comments on the draft report will take place in late September/early October. The final report is scheduled for delivery on November 9, 2007.

Task 4, Provision of As-Needed Services, extends throughout the calendar year on an as-needed basis.

Exhibit B Cost Estimate

Todd Engineers

Provision of Hydrogeologic Support Services to the City of Paso Robles, 2007

24-May-07

Prepared for the City of Paso Robles

	Priestaf \$170	White \$155	Reilly \$125	Crews \$105	GIS \$55	Graphics \$55	Labor Hours	Total Labor	Admin Costs	Expenses	Total Costs
Task 1 Preparation of Annual Report											
1.1 Obtain/Compile Data for Annual Report	5	0	10	10	20	0	45	\$ 4,250.00	\$ 20.00	\$ 30.00	\$ 4,300.00
1.2 Review/Analyze Data for Annual Report	5	0	10	40	0	0	55	\$ 6,300.00	\$ 20.00	\$ 60.00	\$ 6,380.00
1.3 Prepare Annual Report	20	2	5	5	0	10	42	\$ 5,710.00	\$ 20.00	\$ 350.00	\$ 6,080.00
1.4 Meetings and Presentations	50	0	0	0	0	10	60	\$ 9,350.00	\$ 20.00	\$ 700.00	\$ 10,070.00
											\$ 26,630.00
Task 2 Completion of UWMP											
2.1 Update Report and Admin Draft UWMP	8	16	0	0	0	10	34	\$ 4,690.00	\$ 20.00	\$ 45.00	\$ 4,755.00
2.2 Incorporate Comments and Public Draft UWMP	8	12	0	0	0	5	25	\$ 3,645.00	\$ 20.00	\$ 35.00	\$ 3,700.00
2.3 Address Public Comments and Final UWMP	4	8	0	0	0	5	17	\$ 2,345.00	\$ 20.00	\$ 35.00	\$ 2,400.00
2.4 Public Hearings	20	2	0	0	0	5	27	\$ 4,195.00	\$ 20.00	\$ 400.00	\$ 4,555.00
											\$ 15,410.00
Task 3 Representation at Sub-Committee	60	0	0	0	0	0	60	\$ 10,200.00	\$ 20.00	\$ 400.00	\$ 10,620.00
Task 4 As-needed Support Services								\$ 10,000.00	\$ -		\$ 10,000.00
Totals	180	40	26	55	20	45	366	\$ 90,626.00	\$ 180.00	\$ 2,055.00	\$ 92,860.00
Contribution of San Luis Obispo County to Annual Report											\$ 5,000.00
Total											\$ 57,860.00

Budget by Task

5/24/2007

RESOLUTION NO. 07-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES
APPROPRIATING FUNDS AND AWARDED A CONTRACT TO TODD ENGINEERING
FOR HYDRO-GEOLOGIC SUPPORT SERVICES

WHEREAS, Todd Engineers did provide technical support related to hydro-geologic, ground water management and water rights issues in the development of an agreement with the landowner group Paso Robles Imperiled Overlying Rights (PRIOR); and

WHEREAS, the last assessment of the Paso Robles Basin was conducted nine years ago; and

WHEREAS, most recently, the City, members of PRIOR and the County have determined that an annual update report on the Basin would have great value in measuring it's condition as domestic and agricultural use continue over time; and

WHEREAS, because of their understanding of the purpose of the PRIOR agreement, in-depth knowledge of the basin and the demands the City, County and Agricultural interests it would appear to be in the best interest of the City of Paso Robles and it's water users to retain the service of Todd Engineers to provide an update of the Paso Basin and represent the City on the WRAC, subcommittee discussing the banking of ground water in the basin at a cost not to exceed. \$60,000; and

WHEREAS, the County of San Luis Obispo will reimburse the Water Fund \$5,000 towards the cost of the annual report upon its completion.

THEREFORE, BE IT RESOLVED AS FOLLOWS:

SECTION 1. The City Council of the City of Paso Robles does approve a one time supplemental budget appropriation from the Water Operations Fund in the amount of \$60,000 to budget account 600-310-5224-546; and

SECTION 2. The City Council does hereby award a contract Todd Engineers for Hydro-geologic Support Services and assistance with the County's Ground Water Banking efforts in the amount of \$60,000, and authorizes the City Manager to execute the contact.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 3rd day of July 2007 by the following votes:

AYES:

NOES:

ABSTAIN:

ABSENT:

Frank R. Mecham, Mayor

ATTEST:

Deborah D. Robinson, Deputy City Clerk