

AMENDMENT NO. 1
AGREEMENT FOR PROFESSIONAL SERVICES
FOR
ENGINEERING SERVICES
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND
MWH AMERICAS, INC.

THIS FIRST AMENDATORY AGREEMENT is made effective March 2, 2010, by and between Three Rivers Levee Improvement Authority ("TRLIA") and MWH Americas, Inc. ("the Consultant"), who agree as follows:

1. **Recitals.** This Amendment is made with reference to the following background recitals:
 - 1.1. Effective August 18, 2009, the parties entered into an Agreement for Professional Services relating to Engineering Services for TRLIA's Design Program.
 - 1.2. Article C.24 of the AGREEMENT, states that modifications or amendments to the terms of the AGREEMENT shall be in writing and executed by both parties;
 - 1.3. TRLIA and the CONSULTANT desire to amend the AGREEMENT;

NOW, THEREFORE, TRLIA and the CONSULTANT agree as follows.

2. **First Amendment to Agreement.** The Professional Services Agreement is hereby amended as follows:
 - 2.1. The Termination Date in Clause 2 and A.2 is amendment to extend to December 31, 2010.
 - 2.2. The scope of services (Attachment A to the Agreement for Professional Services between TRLIA and MWH Americas, Inc.) is amended by the addition of tasks described in the scope of services attached to this amendment agreement, Exhibit 1.
 - 2.3. The payment, budget, and not-to-exceed amounts, Condition B.1 in Attachment B to the Agreement for Professional Services between TRLIA

and MWH Americas, Inc., are amended to include the additional amount of \$39,590 for a total contract amount of \$100,088.

3. **No Effect on Other Provisions.** Except for the amendments in Section 2, the remaining provisions of the Professional Services Agreement shall be unaffected and remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on
March 2, 2010.

THREE RIVERS LEVEE IMPROVEMENT
AUTHORITY



Paul G. Brunner
Executive Director

MWH AMERICAS, INC.



Janet Atkinson
Vice-President

ATTEST:
DONNA STOTTEMEYER
CLERK OF THE BOARD OF DIRECTORS



APPROVED AS TO FORM:
SCOTT L. SHAPIRO
GENERAL COUNSEL



EXHIBIT 1

AMENDMENT TO SCOPE OF SERVICES THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

Scope of Work:

Professional Services for the Presentation of Groundwater Impacts and Detailed Determination of Impacts and Mitigation for a Select Number of Wells

February 22, 2010

BACKGROUND

Three Rivers Levee Improvement Authority (TRLIA) contracted with MWH to perform an evaluation of potential groundwater impacts due to the construction of slurry walls in the Upper Yuba River South Levee from Simpson Lane to the Goldfields. This evaluation was completed in December 2009 and a report *Evaluation of Groundwater Impacts from the Upper Yuba River South Levee Repair Activities* was prepared. TRLIA wishes to amend the contract with MWH for additional services as described below.

SCOPE OF SERVICES

- TASK 1:** Prepare presentation for the public, meet with TRLIA Executive Team to discuss presentation, and give presentation at four meetings
- TASK 2:** Detailed evaluation of water wells in the near vicinity of the TRLIA slurry wall project

DETAILED PROPOSED SCOPE OF WORK

TASK 1: PREPARE PRESENTATION FOR THE PUBLIC, MEET WITH TRLIA EXECUTIVE TEAM TO DISCUSS PRESENTATION, AND GIVE PRESENTATION AT FOUR MEETINGS

Objective: To develop a presentation that can be given at public meetings to describe the groundwater basin, explain how the groundwater evaluation was done, and present the results of the evaluation

Discussion: MWH will prepare a PowerPoint presentation describing the material presented in the Groundwater Impacts Evaluation Report. This presentation will describe the groundwater basin, flow in the basin, evaluation methods used, and the results of the evaluation. MWH will meet with the TRLIA Executive Team for a dry run on the presentation and revise the presentation based on comments TRLIA provides. MWH should plan to deliver the presentation at four additional meetings. One meeting will be held with the Central Valley Flood Protection Board (CVFPB) and three meetings held with the public in general at meeting places in Marysville, CA. MWH will also prepare five mounted posters for the public meetings.

Deliverables: Electronic copy of PowerPoint Presentation and five mounted posters.

Budget: \$15,890

Schedule: Presentation completed within 14 calendar days after Notice to Proceed (NTP). Meeting dates are February 26 for the CVFPB Meeting and March 8 for Public Meeting. Remaining two meeting dates are to be determined.

TASK 2: DETAILED EVALUATION OF WATER WELLS IN THE NEAR VICINITY OF THE TRLIA SLURRY WALL PROJECT

Objective: To precisely determine the exact location of water wells in the near vicinity of the slurry wall, determine if water wells will be potentially impacted, assess the magnitude of impacts, and develop potential mitigation actions.

Discussion: In the Groundwater Impacts Evaluation Report, MWH identified approximately 21 water wells in the near vicinity of the slurry wall that might be impacted. See Table 6-1 and Figure 6-1 of the report. It is not clear if these wells are located near enough to the wall to be impacted or even if these wells are still in use. MWH is to accomplish the following actions for this task:

- Field locate the 21 wells listed in Table 6-1 of the Groundwater Impacts Evaluation Report.
- During field location, meet with the owner and/or current resident user of each well to explain the reason for obtaining well information, describe the proposed TRLIA Upper Yuba Levee Improvement Project (UYLIP), and the plan for possible mitigation. TRLIA will assist with coordination of landowner/resident contacts and visits.
- Determine if these wells are active, their use and their depth. Photo document each well.
- Based on more detailed information developed above, determine if the well could be impacted by the slurry wall and assess the amount of impact.
- Develop a proposed mitigation plan for wells that are impacted.

Deliverables:

1. Expanded Table 6-1 of the Groundwater Impacts Evaluation Report with more detailed information on each well.
2. Describe mitigation proposals for each impacted well including a cost estimate for preferred mitigation action.

Budget: \$23,700

Schedule: To be completed within 60 Calendar Days from NTP

Exhibit "A"
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
Upper Yuba Levee Improvement Project - Evaluation of Impacts to Yuba County Groundwater - Amendment 1
Proposed Consultant Fee Estimate

Task	Hourly Rate	Principal Professional (Chris Petersen)	Supervising Professional (Jon Goetz, Anne Fock)	Associate Professional (Craig Allare, Suzanne Mills)	Graphics (James Garber)	CAD/GIS (Steve Irving)	Admin/Secretary/Editor (Emily McCallister)	Total Hours	Total Task Hours	Principal Professional (Chris Petersen)	Supervising Professional (Jon Goetz, Anne Fock)	Associate Professional (Craig Allare, Suzanne Mills)	Graphics	GIS	Admin/Secretary	ODGs (transportation, APC, and CAD/GIS reproduction)	Total Cost
TASK 1: Meetings	\$180	82	\$150	\$105	\$80	\$100	\$85	90		\$ 11,780	-	\$ 1,575	\$ 1,040	-	-	1,485	\$15,800
TASK 2: Detailed Well Evaluation		28		130	176	10		176		\$ 5,820	\$ 1,200	\$ 13,650	-	\$ 1,000	-	2,890	\$23,700

Notes: Task 1 assumes 4 meetings and 5 posters.
Task 2 assumes 4 days of field work for two people, field supplies, and 400 miles (4 trips of 100 miles each).