



SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.

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11 April 2013

Mr. Walter Sadler, P.E.
North San Joaquin Water Conservation District
P.O. Box 428
Clements, CA 95227
Phone: 209/ 712-5034

Subject: Addendum #1 to the Professional Services Agreement for the Tracy Lake Groundwater Recharge and Quarry Excavation Projects in San Joaquin County, CA.

Dear Walter:

This Addendum describes additional environmental services for the Project. The tasks described can be performed as Addendum #1 to our Professional Services Agreement (PSA) dated 3 April 2013.

Task 2 is a formal jurisdictional delineation. Task 3 is the application of the Corps' "Rapanos" Guidance", describing the standards for a significant nexus determination, to wetlands and waters features present, including the Tracy Lakes. We have separated the two because the delineation itself is a purely technical task. As a stand-alone report it is suitable for submission to the Corps for either a preliminary or approved jurisdictional determination. The significant nexus analysis applies the Corps' and U.S. EPA guidance to the features present. The guidance itself has not gone through a formal rule-making process. The contents of the analysis, therefore, must be responsive to issues raised by the Corps and EPA on a case-by-case basis.

If the attached scope of services meets your approval, please sign and date below, and fax or mail this page and the Professional Services Agreement back to us.

Cordially,

Jeff Little
Vice President

cc: Diane Moore, Moore Biological

Please sign and date to authorize Tasks 2 and 3:

Authorized by: Name / Date

Addendum #1
to the
Scope of Services dated 3 April 2013
for the
Tracy Lake Groundwater Recharge Project and Tracy Lake Quarry Excavation Project

INTRODUCTION

This addendum responds to a request from Mr. Walter Sadler to provide additional environmental services for the projects. The purpose of the two additional tasks is to 1) prepare a formal jurisdictional delineation report, and 2) prepare a “significant nexus” analysis of wetland and water features included in the jurisdictional delineation report.

We have separated these services into two tasks because the significant nexus analysis for these projects may be substantial, and involve discussions with and responses to the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency. The delineation report is a purely technical document based on the project site conditions.

The delineation field work will focus on the riparian area between the two Tracy Lakes and the Mokelumne River. The delineation will describe and characterize the two Lakes using the ordinary high water mark (OHWM) elevation tentatively identified as an 18 foot elevation. The characterization of the Lakes will include quantifying the vegetative communities below OHWM.

The “isolated waters” and the “significant nexus” discussion will be presented in a standalone document. This keeps the technical aspects of wetland identification separate from the wetland regulatory analysis.

The Tracy Lakes are within the 100 year floodplain of the Mokelumne River. The Corps and EPA may focus on Tracy Lakes as being “other waters that are not physically proximate to jurisdictional waters” based on the EPA’s “Draft Guidance on Identifying Waters Protected by the CWA” (April 2011). The Draft Guidance acknowledges that “. . . establishing a significant nexus may be more challenging.” The Draft Guidance does not provide specific guidance for determining a significant nexus.

SERVICES

Task 2. Jurisdictional Delineation Report

Sycamore Environmental will delineate potential jurisdictional features in accordance with the 1987 Corps Wetland Delineation Manual, Regulatory Guidance Letter 05-05, and the Regional supplement to the Corps of Engineers wetland delineation manual: Arid West region (Version 2). Task 2 is complete upon submittal of the final report to the Client.

Scope:

- Obtain background and technical information necessary to conduct and document the jurisdictional delineation, including, but not limited to, soils information, the National Wetlands Inventory Map, location information, and precipitation information.
- Delineate wetlands and waters in accordance with current Corps guidelines and regulations, in the area between Tracy Lakes and the Mokelumne River.
- Map wetlands and waters with a sub-meter accurate global positioning system.
- Prepare a map of wetlands and waters in the PSA.
- Document background and technical information, datasheets and results of field surveys, maps, and conclusions, Jurisdictional Delineation Report.
- Address Client comments on the draft report.

Deliverables and Schedule:

- Provide email project update every two weeks.
- Submit an electronic draft report to Client for review within 10 weeks after receipt of authorization, and any AutoCAD[®] or ArcView[®] topography available.
- Submit an electronic final report and three bound final reports to Client within one week after receipt of comments.
- Email an AutoCAD[®] or ArcView[®] file of the jurisdictional delineation map to Client.

Task 3. Significant Nexus Analysis

This task will discuss wetland and water features in light of the Corps “Rapanos” Guidance (December 2008) and the EPA’s Draft Guidance (April 2011). The guidance requests information regarding the watershed of the wetland and waters, and their potential contributions to the “chemical, physical, and biological integrity” of the nearest traditionally navigable water.

Deliverables and Schedule:

- Submit an electronic draft analysis to Client for review within 4 weeks after receipt of authorization, and completion of Task 2.
- Submit an electronic final analysis to Client within one week after receipt of comments.

BUDGET

Task	Basis	Budget ¹
Task 2. Jurisdictional Delineation Report	Time & Materials, Not-to-exceed	\$17,250
Task 3. Significant Nexus Analysis	Time & Materials, Not-to-exceed	\$5,000
Total:		\$22,250

¹ This budget expires in **90 days** if not authorized.

ASSUMPTIONS

- The focus of Task 1 will be the area between Tracy Lakes and the Mokelumne River, an area comprising approximately 120 acres. The current delineated boundary of Tracy Lakes themselves, prepared by Moore Biological will be incorporated into the report, but Task 1 does not include the area around the entire Lakes, only the area between the Lakes and the River.
- Attendance at meetings, including an on-site meeting if requested by the Corps or other agencies, will be billed under the previously authorized “Task 1. Meetings and Coordination.”