



# Memorandum

To: Chris Cece, City of Fort Collins Utilities      From: Andy Herb, URS  
Office: Denver  
Date: August 5, 2004

Subject: Scope of Work and Cost Estimate for Wetland Mapping at the Taft Hill Detention Pond

At your request, I have prepared a scope of work and cost estimate to map the wetlands and other waters at the Taft Hill Detention Pond for the City of Fort Collins (City). The project involves the modification of an existing pond and the restoration of a reach of Spring Creek.

## SCOPE OF WORK

This scope of work identifies the tasks and work effort required to map wetlands and other waters in the project area. The tasks to be conducted are as follows:

**Literature Review/Coordination:** Prior to performing a site visit, data will be collected from the City regarding potential wetlands and other waters present within the project area. This includes a review of aerial photos, wetland maps created by others, and other available resources. This task also includes minor coordination with the City.

**Field Visit:** A field visit will be performed to map wetlands and other waters on 1-inch equals 200-foot (or similar) project maps. Wetlands will be identified based only on the presence of wetland vegetation and wetland hydrology (assuming the presence of hydric soils). The data collected will be adequate to create a complete wetland map that can be used for planning purposes, but will not be appropriate for Section 404 permitting. If any of the wetlands and other waters within the project area will be impacted by the project, a formal wetland delineation will be required.

**Map Production:** After the field visit is completed, a map showing the exact location and size of all wetlands and other waters will be prepared. The map will be created by digitizing field data using Geographic Information Systems (GIS) and will be compatible with the City's computer software.

### Assumptions:

- Project area maps and aerial photos are available at 1 inch equals 200 feet scale (or similar) and will be provided by the City
- A wetland delineation, Section 404 permitting and coordination with the U.S. Army Corps of Engineers are not included in this scope of work.



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**Deliverable:**

An electronic and hard copy wetland map will be provided in a format that is compatible with the City's engineering drawings.

**Schedule:**

Assuming notice to proceed is given by August 9, 2004, all work will be completed by August 17, 2004.

**Fee Estimate:**

The contract will be time and materials, not to exceed \$2,000.00. A detailed breakdown of these costs is included in Table 1. Rates previously approved by the City will be used.

**Table 1  
Taft Hill Detention Pond Wetland Mapping Cost Estimate**

	Senior Staff	Senior Project Scientist	Assistant Staff Scientist	Staff Scientist (GIS /Mapping)	Total Hours
<b>Labor Hour Estimate</b>					
Hourly Rate	\$85.50	\$110.00	\$64.00	\$75.25	
Literature Review/Coordination	2	0	0	0	2
Field Visit	8	0	2	0	10
Map Production	4	1	0	6	11
<b>Total Hours</b>	<b>14</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>23</b>
<b>Total Cost</b>	<b>\$1,197.00</b>	<b>\$110.00</b>	<b>\$128.00</b>	<b>\$451.50</b>	

<b>Other Direct Costs:</b>	
Car Rental or Mileage (estimated \$60/day times 1 days)	\$60.00
Food (estimated \$10/day times 1 days)	\$10.00
Miscellaneous (film, maps, other incidentals)	\$25.00
<b>Total ODCs</b>	<b>\$95.00</b>

<b>Total Cost</b>	<b>\$1,981.50</b>
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