

**CITY OF BLAINE**  
**REQUEST FOR COUNCIL ACTION**  
**MEETING DATE:** January 9, 2006

**SUBJECT:** Amendment #1 to TetraTech/KCM, Inc. Engineering Services Agreement

**SUBMITTING DEPT:** Public Works

**STAFF CONTACT:** Stephen Banham, Public Works Director 

**AGENDA LOCATION:** Comments/Communications ; Consent ; Committee Reports ;  
Unfinished Business ; New Business ; Public Hearing ; Standing Committees

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**ATTACHMENTS:** 1) Engineering Services Agreement Amendment #1 TetraTech/KCM, Inc.

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**SUMMARY/BACKGROUND:** The design for a Wastewater Equalization and Marine Drive Reconstruction is approximately 90% complete and has been submitted for shoreline permits and SEPA approval. As part of the design review and the requirements of the Mitigated Determination of Non-Significance (MDNS), staff has determined that additional stormwater analysis is required to complete the design. This additional design effort is required due to the unique characteristics of the site, the existing stormwater discharge points, and the nature of the soils. City Staff have also determined that it is more economical and efficient to include odor control equipment in the scope of this construction rather than to wait and include this in the design for the future adjacent treatment plant. At the request of City Staff, TetraTech/KCM, Inc. has submitted a fee estimate to amend their Engineering Services Agreement to incorporate these two additional work elements. Completion of this work needs to begin immediately to avoid delays to completion of design and planned construction this summer.

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**RECOMMENDATION:** Staff recommends that the City Council waive the second reading and authorize the City Manager to sign Engineering Services Agreement Amendment #1 with TetraTech/KCM, Inc. not to exceed \$49,360 total for additional engineering design services for stormwater and odor control.

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**FISCAL ANALYSIS:** Funding for this Amendment will originate from Fund 325 Wastewater Capital Improvements (Odor Control) and Fund 328 Stormwater Capital Fund (Stormwater Design Report).

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**REVIEWED BY:** City Manager \_\_\_\_; Finance Director \_\_\_\_; City Clerk \_\_\_\_;

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**COUNCIL ACTION:**

Approved    Denied    Tabled/Deferred    Assigned to: \_\_\_\_\_

**COUNCIL ACTION:** \_\_\_\_\_

**CITY OF BLAINE  
CONTRACT AMENDMENT #1  
TO  
ENGINEERING SERVICES AGREEMENT No. S04-06  
With TetraTech/KCM, Inc.**

The contract between the City of Blaine and TetraTech/KCM, Inc. for consulting engineering services for Wastewater Equalization Storage and Marine Drive Reconstruction dated December 16, 2004 is hereby amended as follows:

**Item #1:**      **Section 1, Scope of Work:** The original contract is amended as follows:

- a. "Additional professional work required to prepare a detailed Stormwater Design Report satisfying the requirements of the City MDNS and Department of Ecology Stormwater Management Manual for Western Washington and,
  - b. Perform additional engineering design to incorporate odor control facilities in the overall design documents for this project.
- A more detailed scope of work is detailed in the attached Exhibit A."

**Item #2:**      **Section 2, Term:** The term of this contract is extended until December 31, 2006.

**Item #3:**      **Section 3, Compensation:** shall be amended as follows:

""The City shall pay the Consultant on a time-and-expenses basis, not to exceed Forty-Nine Thousand, Three Hundred Sixty Dollars and no cents (\$49,360.00), for additional consulting professional services as described above and further detailed in Exhibit B, for a revised total contract amount not to exceed, without prior City approval, \$698,660.00."

All work shall comply with City standards and be approved by the City prior to payment.

All other items, terms and conditions of the contract remain unchanged.

In witness whereof, the parties hereto have executed this Contract Amendment as of the date of:

\_\_\_\_\_.

City of Blaine:

Consultant:

\_\_\_\_\_  
Gary R. Tomsic, City Manager

\_\_\_\_\_  
TetraTech/KCM, Inc.

Attest:

Departmental Approval:

\_\_\_\_\_  
Sheri Sanchez, City Clerk

\_\_\_\_\_  
Stephen R. Banham, Public Works Director

## EXHIBIT A

### CITY OF BLAINE SCOPE OF SERVICES WASTEWATER EQUALIZATION STORAGE AND MARINE DRIVE RECONSTRUCTION *Amendment No. 1*

#### **BACKGROUND**

The objective of this Amendment is to provide supplemental services to develop a stormwater design report as required by the Mitigated DNS issued by the City for the project, and to integrate odor control into the design of the equalization storage facility.

#### **TASK 1 — PROJECT MANAGEMENT**

Task 1 includes the additional effort required to manage the work of this amendment. This task includes monitoring budgets, preparing and reviewing invoices, amending the project plan, and quality assurance review of deliverables.

##### **Task 1.1—Project Plan**

Tt/KCM will revise the project plan.

##### **Task 1.2—Monitor Schedule and Budget**

The Project Manager will monitor the schedule and budget and provide a monthly progress summary for this additional work.

##### **Task 1.3—Quality Assurance**

Senior Tt/KCM engineers will review contract document deliverables for the stormwater design report and odor control facility.

##### **Task 4.8— Stormwater Design Report:**

Tt/KCM will prepare a stormwater design report for Marine Drive and the equalization tank construction in accordance with the 2005 edition of the WSDOE *Stormwater Management Manual for Western Washington*. A preliminary table of contents of the report is attached.

#### **Assumptions:**

- GeoEngineers will perform a sieve analysis at each of the six (6) rain garden locations to quantify permeability coefficients to be used in the hydraulic calculations. The City will provide the backhoe and crew for digging test pits up to six (6) feet of depth at the six (6) test locations.

#### **Deliverables:**

1. Draft Drainage Design Report in Microsoft Word and PDF format.
2. Final Stormwater Design Report (two (2) stamped and signed hard copies)

## **Task 5.4 – Odor Control System Design**

### **5.4.1 Odor Control Equipment Memo**

A memo will be prepared to present a recommended odor control system to the City of Blaine. This subtask includes the work necessary to evaluate sizing, configuration and location of the odor control system. The Tt/KCM will present the design criteria for sizing the odor control system based on selected air changes per hour. Based on the established design criteria, the Tt/KCM will develop the computations for sizing the odor control unit at the site. Odor control system configurations (horizontal flow vs. vertical flow) will be evaluated based on footprint, safety, access to carbon change-out, and cost.

#### ***Deliverables:***

1. Draft Memo in Microsoft Word and PDF format.
2. Final Memo in Microsoft Word and PDF format.

### **5.4.2 Odor Control System Final Design**

This task includes the preparation of contract drawings, specifications and cost estimates for construction of the odor control system as part of the City of Blaine Wastewater Equalization Storage and Marine Drive Reconstruction contract.

#### **Assumptions:**

- The equalization storage facility will be continuously ventilated. Air from the facility will be routed through an odor control unit during storm events in which flow is routed to the tank. The odor control unit will be operated through the control panel that is being installed for the tank. The odor equipment and fan will be mounted on a concrete pad adjacent to the Lift Station No. 1 Control Building. A new screen wall or roof structure will not be provided for the equipment. It is assumed that odor control will be performed using a carbon-based system.
- Survey information for the existing Lift Station No. 1 site will be provided by the City.

#### ***Deliverables:***

1. Final plans and specifications will be included in the project final PS&E submittal.