



PO BOX 651 • EUREKA, NEVADA 89316 • (775) 293-1743  
5 EAST PARK STREET • FALLON, NEVADA 89406 • (775) 423-9090

December 3, 2016

Ms. Jennifer Patton – Project Manager  
City of Valdez Capital Facilities  
P.O. Box 307  
Eureka, Alaska 99686

RE: Proposed North Town tank re-coating  
SUBJ: Engineering proposal

We are pleased to offer this proposal to provide engineering services for re-coating the North Town tank. We are assuming temporary storage is not needed, we can get by pumping wells 2 & 3 directly into the system, and use the south tank.

**TASK 1 – TESTING & REGULATIONS - \$ 5,000**

Lead paint / primer testing, ultrasonic steel thickness testing, checking regulations for sand disposal, tenting requirements for sand blasting.

**TASK 2 – DEVELOP PLANS, SPECIFICATIONS, BID DOCUMENTS FOR BID SOLICITATION - \$ 17,500**

We will develop plans and specifications, and bid documents to solicit bids from licensed contractors. Plans and specifications will include technical specifications for tank re-coating involving complete removal of the existing coating on the interior and exterior of the tank to near white metal. We will include a bid item spot steel repairs. Plans and specifications will be submitted to Alaska Department of Environmental Conservation (ADEC) for approval. We anticipate submitting the plans and specifications to ADEC and the City of Valdez by early March 2017. A location map, rough construction details, and photos of the tank and tank site will be provided.

**TASK 3 – BID ASSISTANCE - \$ 5,000**

We will assist in soliciting bids from contractors. We will attend the pre-bid conference. Any addendums or clarifications required based on contractor's questions will be developed prior to submittal of bids. We anticipate bidding the project in April 2017.

**TASK 4 – CONSTRUCTION ADMINISTRATION - \$ 37,500**

We will conduct a pre-construction meeting and assist with issuance of the Notice to Proceed. We will provide inspection for construction in late May and June. We will inspect the removal / surface preparation for near white metal appearance, check humidity controls, temperature, and take surface profile tests prior to coating.

Valdez has high humidity, and steel can “rose” quickly after sand blasting to near white metal in high humidity locations. Painting over corrosion will cause the paint to not stick to the steel. The Contractor will probably not blast the entire tank at once, but will blast and paint in small sections to prohibit any rust or contamination occurring before painting. It is important that the inspector be on-call to check humidity, temperature, inspect the surface profile (surface roughness to make sure the paint sticks) and check the appearance of the steel to match Steel Structures Painting Council Standard 10 (near white metal) immediately before the Contractor paints.

We will inspect coating applications for humidity controls, temperature, coverage, dry mil thickness and holidays. When the first coat is completed and cured, the coat will be wet sponge holiday tested. The wet sponge holiday test has a battery powered electrical circuit that rings when bare steel is open to the wet sponge. Contractors may miss spots on welds, ladders, etc. that are difficult to paint with an airless paint gun. The holiday test makes sure there are no holes in the coating.

We will check the mil thickness of the paint to make sure that the coating thickness is at least the minimum specified. The paint will be applied in at least three coats, and cure slowly in lower temperatures. The Contractor will want to re-coat as quickly as possible. Painting over the previous coat before it is properly cured can result in solvent entrapment and bubbling of the coating over time. The inspector must make sure the coating is properly cured before recoating.

We will oversee the disinfection of the tank, coliform testing, and the test for possible volatile organic compounds in the water from coating cure. Construction should begin in mid to late May, and be completed by the end of June weather permitting.

**TOTAL COST FOR PROPOSAL = \$ 65,000**

Very Truly yours,

Dean Day, PE  
Day Engineering