



Report to the City Council
Council Meeting of August 9, 2016

Agenda Section: Consent

Subject: Consideration and proposed approval of a resolution accepting the work and directing the filing of the Notice of Completion for the Lower York Creek Dam Rehabilitation CIP W-108; Repair Outlet Tower

CEQA Status: Categorically Exempt, Section 15301, Existing Facilities

Prepared By: Tobias Barr, Public Works Project Manager *T Barr*
Steven Palmer, PE, Director of Public Works/City Engineer

Approved By: Jennifer Phillips, City Manager *J Phillips*

BACKGROUND

The Outlet Tower at Lower York Creek Reservoir (Lower Reservoir) did not have the capability to open or close the valves mounted on the tower. The three valves are located at the lower, middle and upper section of the outlet tower and control the flow of water out of the reservoir. The outlet tower and valves are a critical reservoir system because without the tower and valves operating the water stored in the reservoir cannot be controlled by closing or opening to shut off or drain the facility in an emergency. Previously the valves have been inoperable, with the middle valve stuck in the open position. According to the records available to Staff, the Division of Safety of Dams (DSOD) first identified this issue during their regular inspection in 2008 and had previously directed the City to make repairs to the outlet tower.

DSOD has restricted the capacity of the facility to elevation 405.20 or 12.10 feet below the crest of the dam. This results in approximately 105 acre feet of potential reservoir water storage to be forfeited. The restriction was issued not only because of the condition of outlet tower valves but also due to the need for a stability analysis to make certain the dam meets current stability requirements. The City is currently pursuing a geotechnical and seismic stability analysis with Kleinfelder and will be submitting the final Work Plan and scheduling geotechnical exploration (drilling) in the next few months.

DISCUSSION

Public Works Staff negotiated a contract with DRS Marine of Vallejo, California to perform this work. DRS Marine was the awarded low bid contractor for the work

replacing the mid-valve at Bell Canyon Reservoir. City Staff found DRS Marine to be a capable and responsible contractor and thus negotiated with DRS Marine to provide a cost for the inspection of the Lower Reservoir Outlet Tower and Valves to determine how they could be repaired. As allowed by City of St. Helena Municipal Code section 3.04.200 for Public Works Construction Project less than \$45,000, following contract negotiations, the City Manager entered into a contract with DRS Marine for the inspection work. DRS Marine performed their inspection and determined the following deficiencies:

- Valve stems were fully corroded and thus could not operate the valves.
- Valves were cycled by hand and found to be operational
- Fish screens were corroded and not functioning
- The lower valve intake was buried in sediment
- The outlet section of the tower leading to the outlet pipe was full of sediment and debris

Following their inspection, DRS Marine submitted a proposed Change Order to supply new valve stems, remove the sediment and debris blocking the inside the tower and the intake to the lower valve, and replace the fish screens on all three valves. Including the proposed Change Order, the total contract amount was less than \$45,000, which allowed the Public Works Director to approve the Change Order and DRS Marine to complete the work.

As of June 17, 2016, the work has been completed and the outlet tower valves are fully functional. A copy of the final inspection report is included as Attachment 3.

FISCAL IMPACT

The projected expenditures are detailed below.

Description	Approved Budget	Projected
Preliminary Engineering	\$165,695	\$156,734
Construction Contract (inspection)	\$45,000	\$18,432
Change Order No. 1 (repairs)		\$26,111
Total	\$210,695	\$201,277

The projected expenditures fall within the FY 15/16 budget and the total project budget. The total budget for CIP W-108 in fiscal years 2015/2016 & 2016/2017 is \$210,695. This budget includes this construction contract, plus the current professional services agreement with Kleinfelder in the amount of \$156,734.

RECOMMENDED ACTION

Adopt the attached Resolution to accept the work and direct the filing of the Notice of Completion for Lower York Creek Outlet Tower Repair CIP W-108.

ATTACHMENTS

1. Resolution
2. Notice of Completion
3. Final Inspection Report

CITY OF ST. HELENA

RESOLUTION NO. 2016-_____

ACCEPTING THE WORK AND DIRECTING THE FILING OF THE NOTICE OF COMPLETION FOR THE LOWER RESERVOIR OUTLET TOWER REPAIR W-108

RECITALS

- A. On March 22, 2016, the City Manager executed the contract with DRS Marine in the amount of \$18,432.00; and
- B. The Public Works Director/City Engineer authorized a Change Order totaling in the amount of \$26,111.00, bringing the full contract amount to \$44,543.00; and
- C. DRS Marine has completed the work in accordance with the contract documents for the project; and
- D. If no liens or claims have been filed within 35 days of filing the Notice of Completion, the retained payment funds and any amount due will be released to DRS Marine.

RESOLUTION

The City Council of the City of St. Helena hereby resolves as follows:

- 1. The work performed by DRS Marine under the subject contract is accepted as complete.
- 2. The Public Works Director/City Engineer is authorized to prepare a Notice of Completion and the City Clerk is directed to file a Notice of Completion with the Napa County Recorder.

Approved at a Regular Meeting of the St. Helena City Council on August 9, 2016, by the following vote:

Mayor Galbraith: _____

Vice Mayor White: _____

Councilmember Crull: _____

Councilmember Dohring: _____

Councilmember Pitts: _____

APPROVED:

ATTEST:

 Alan Galbraith
 Mayor

 Cindy Black
 City Clerk

Recording Requested By:

City of St Helena
 1480 Main Street
 St Helena, CA 94574

**Exempt From Recording Fees Per
 Government Code Sec. 27383**

When Recorded Mail To:

City Clerk
 City of St Helena
 1480 Main Street
 St Helena, CA 94574

SPACE ABOVE THIS LINE FOR RECORDERS USE ONLY

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN THAT:

- 1 The undersigned is an owner of an interest of estate in the hereinafter described real property, the nature of which interest or estate is: fee simple.
- 2 The full name and address of the undersigned owner and of any and all co-owners are:

Name	Street and No.	City	State
City of St Helena	1480 Main Street	St Helena	CA

- 3 On the 28th day of June, 2016, there was completed upon the hereinafter described real property a work of improvement as a whole and described as follows: Lower Reservoir Outlet Tower Repair CIP W-108
- 4 The name of the original contractor for the work of improvement as a whole was: DRS Marine Incorporated.
- 5 The real property herein referred to is situated in the City of St Helena, County of Napa, State of California, and described as follows: Lower York Creek Reservoir at Spring Mountain Road
- 6 The street address of the property is: 2325 Spring Mountain Road.

By: _____
 Owner's Authorized Agent's Signature – Sign Before Notary
 Steven Palmer, Public Works Director/City Engineer

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared _____,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

DRS MARINE INC.

COMMERCIAL DIVERS
DAMS, POWERHOUSES
U/W PILE REPAIRS
U/W BURNING & WELDING
ROVS



525 CHESTNUT STREET
VALLEJO, CA 94590
BUS: 707-648-3483
FAX: 707-648-2006
WWW.DRSMARINE.COM

COMPLETE DIVING SERVICES

LOWER RESERVOIR OUTLET TOWER
INSPECTION
PREPARED FOR

CITY OF ST HELENA

May, 2016



DRS MARINE INC.

COMPLETE DIVING SERVICES

drsmarine@aol.com

525 Chestnut Street

Vallejo, CA 94590

PH 707/648-3483

FX 707/648-2006

7/25/2016

City Of St. Helena

ATTN: Tobias Barr
Public Works Project Manager
City of St. Helena,
1480 Main Street
St. Helena, CA 94574

RE: Lower Reservoir Outlet Tower Inspection

Project site: Lower Reservoir
Date of work: 6-24-2016
Inspection Site: Outlet tower
Conditions: 0 to 12" visibility

INTRODUCTION

DRS marine was contracted to replace the three stems that actuates the valves on the outlet tower. DRS also replaced the stem guides. New screens were installed on the outside of the tower and the sediment was dredged out from the inside of the tower.

TABLE OF CONTENTS

- 1.0 Valve Stems And Valve Stem Guides
- 2.0 Silt and Debris Removal
- 3.0 New Debris Screens
- 4.0 Cover Plate On Top Of Tower

1.0 Valve Stems And Valve Stem Guides

New valve stems and valve stem guides were fabricated in the DRS fabrication shop and then galvanized for corrosion control. The stems were installed and then the stem guides.



2.0 Silt and Debris Removal

There was 18" of silt and debris removed from the inside of the tower. The silt was side casted to the outside of the tower and the debris were removed and disposed of.

3.0 New Debris Screens

New debris screens were fabricated and installed on the outside of the tower at each valve location.



4.0 Cover Plate On Top Of Tower

A cover plate was fabricated and installed on the top of the tower.



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