



Buckman Direct Diversion

*A joint regional project of the City of Santa Fe and Santa Fe County to build a reliable and sustainable water supply.*

## Memorandum

**Date:** March 24, 2015  
**To:** Buckman Direct Diversion Board  
**From:** Charles Vokes, BDD Facilities Manager  
**Subject:** Update on the Diversion Structure Inspection and Repairs

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### **ITEM AND ISSUE:**

Progress report on the Inspection and Repair of the BDD Diversion Structure

### **BACKGROUND AND SUMMARY:**

During the February 5 meeting, the BDD Board approved the authority to the BDD Facilities Manager to spend up to \$500,000 for inspection and repairs to the BDD diversion structure. What follows is a summary of the progress of the project to date:

1. The mapping of the river was completed by Tetra Tech Inc. (\$6,860.19) on February 13, 2015. The results did not indicate that there have been significant changes in the river bottom over the last few years. This report will be used in the construction of the cofferdam and in the long-term plan rehab of the diversion structure.
2. We have signed **no cost** agreements (\$0.00) with the engineering firms of CDM Smith and CH2M Hill to provide oversight for the inspection and repair of the diversion structure. These agreements were provided to the board members at the March 5<sup>th</sup> board meeting.
3. We have contracted with ASI Constructors Inc. for the design and construction of the cofferdam. (Contract Attached) ASI is on site and construction has begun.



**Summary of the ASI contract costs**

Cofferdam	\$322,500
Concrete and repair assistance (as needed)	\$25,000
<b>Total</b>	<b>\$347,500</b>
Purchase of materials that will be resold	\$35,000
<b>Total</b>	<b>\$382,500</b>

If the cofferdam has to remain in place for additional repairs, \$14,000 will be credited back to the BDD (the cost of the dam removal) and change order will then be negotiated for remobilization and the removal of the cofferdam next fall.

4. The U.S. Forest Service, the New Mexico Environmental department and the U.S. Army Corps of Engineers have given the required permissions to proceed.
5. Dr. Bruce Thompson (per Ms. Bokum's request - University of New Mexico) has been contacted and offered to view the structure once it is dry.
6. A contract was signed with Ray Eldridge of Deere and Ault to assist the BDD with the Diversion Structure inspection and repair processes in the amount of \$47,850 (Contract attached). The scope of services also provides for an independent report of their findings. Mr. Eldridge was contacted after two other engineering firms I had contacted declined the opportunity. One of the firms did however recommend Mr. Eldridge as a diversion structure expert. In conversations with Mr. Eldridge, he emphasized his need to inspect the structure before, during and after the installation of the cofferdam which was to begin on Monday, March 23, 2015. Mr. Eldridge was on site March 23 and 24 and will provide his initial recommendations to the BDD staff later this week including recommendations for modifications to the new screens before they are installed into the Diversion Structure.

Also attached are updates to the project schedule and the project budget.

### BDD Diversion Structure Inspection and Repair

Item	Provider	Amount	Comment
River Mapping	Tetra Tek	\$6,860.19	
Engineering	CDM Smith	\$0.00	
Engineering	CH2M Hill	\$0.00	
Cofferdam	ASI Constructors	\$382,500.00	(See contract)
Diversion structure expert	Deere & Ault	\$47,850.00	(Third party engineer)
Budgeted repairs	BDD Staff	\$12,500.00	
	<b>Total</b>	<b>\$449,710.19</b>	