

**Pine Gulch OSP Update for Pine Gulch Dam  
Progress Meeting  
November 18, 2009  
Town of Parker**

**Date:** November 18, 2009, 2pm – 3:30pm.

**Location:** Town of Parker Town Hall

**Attendees:** Shea Thomas, UDFCD  
Tom Williams, Town of Parker  
Garth Englund, Douglas County  
Frank Lan, URS  
Greg Glunz, URS

**Discussion Topics:**

1. Status of Dam Breach and Hazard Classification

*Frank and Greg presented the current dam breach and inundation mapping results, which indicate that a sunny-day failure of the dam alone could lead to high hazard to residences downstream. However, the comparison between the flood necessary to fill the reservoir up to the normal pool and the sunny day failure scenario indicates that there're minimal incremental damages resulting from the presence of the dam. Thus, it is believed that the dam poses no additional flood hazard to downstream and the dam should be classified as low hazard dam.*

*Some of the key parameters presented at the meeting include:*

- *Peak outflow = 1,320 cfs from a sunny-day failure of the dam*
- *Peak flow = 910 cfs from a base flood that leads to reservoir water level at its spillway crest.*
- *Incremental Damage = minimal*

*Tom asked if we should do a dam breach analysis for the future conditions with most of the area near the town hall being completely developed, even though it's not required by the SEO for the dam hazard classification. The future development can reduce the effective flow areas which could potentially lead to larger incremental impacts. URS will perform an additional run to evaluate the potential magnitude of the impacts for due to portions of the existing flow path being blocked by future development. Tom will provide URS the plan for the areas to be blocked.*

2. Status of Baseline Hydrologic Analysis

Frank provided a status report on the hydrologic analysis:

- re-delineation of the watershed is completed
- EPA SWMM models and CUHP for both the existing and future conditions, with and without the dam, were developed

The team discussed how the hydrologic modeling should be done by using CUHP version 2005 instead of version 1995 which was used in the 2001 OSP. Shea described that the converted CUHP model using version 2005 should be calibrated to the results from version 1995. The calibrated parameters should then be used in the subsequent modeling analysis.

Tom helped clear up the land use issues for the future conditions. For the future condition model, the imperviousness north of Talon Trail should assume 40%, and the existing open space south of Talon Trail should assume 70%.

### 3. Status on Geotechnical Drilling

The drilling program is on hold until access/ROW issues are addressed. Garth mentioned that he'll send out a letter to the property owners as soon as possible. URS will then contact the owner on specific days for the drilling.

### 4. Status on Website

Frank mentioned that it's in progress and is expected to be up next week.

### 5. Project Schedule Update

Frank mentioned that while the drilling is postponed, there shouldn't be major delay to the overall schedule:

- Geotech Work – Early December, 2009
- Dam Hazard Classification and Meeting with SEO – Trying to schedule for during the week of November 30, 2009
- Alternative Analysis and Draft Hydrology Report – January 15, 2009
- Conceptual Design – March 12, 2010
- Draft Final Report – April 30, 2010
- Final Report – June 25, 2010

### 6. Other Issues:

Tom mentioned if we should discuss the alternative analysis in more detail in the meeting. A few items were discussed but final selection of alternatives will be selected after getting feedback from the meeting with the SEO. At a minimum, the alternative analysis should include comparing the benefits with and without the dam so we can provide comparison of benefits to the sponsors and public.

The team agreed that the meeting with SEO should include the representative from NRCS. Garth will provide the NRCS contact to Greg for scheduling the meeting with SEO.

**Action Items:**

*Frank - meeting minute in the next couple of days*

*Greg – Contact the State Engineer’s Office to setup a meeting to discuss the results from the dam breach analysis. Dates available by the meeting attendees included December 4<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup>. .*

*Garth – Letter to property owners on ROW.*

**Next Meeting:**

*To be determined.*