MWH.

BUILDING A BETTER WORLD

MEMORANDUM

TO:	Randy Budge (Racine Law Offices) DISTRIBUTION	DATE:	October 11, 2013
FROM:	Ed Cryer (MWH)	CC:	
SUBJECT:	Blue Lakes Pipeline Construction Progress	REF:	10502444.010101

On October 9th, I conducted a site visit to the construction site for the Blue Lakes Pipeline (Project). Based upon my assessment, the project is approximately 65 percent complete, but it is running behind our anticipated schedule. The schedule issue is based on the number and extent of excavation conflicts encountered while installing the pipeline. These have included repair and replacement of unmarked or locatable water supply pipelines (well water pipes, solids wastewater pipes, etc.) and communications and power lines as well as more rock excavation than anticipated based on the original geotech study. Of the 1,800± feet of pipeline, only about 1,100 ft will have been installed by October 12th. The contractor is starting to work some overtime and weekends trying to catch up and the remainder of the pipe installation "should" be less problematic (less rock and only one more drain pipeline to cross) and faster to install.

The intake structure has one more scheduled large concrete pour that can only be finished once the pipeline is in-place at the structure. Once that is complete and the 14-day concrete cure period is over, the structure will be backfilled with compacted soil. The need to import additional fill or finding material on-site (Blue Lakes or IDWR property) will be determined over the next week.

Once the finished concrete intake structure is complete (concrete, stop logs, safety equipment, etc.), the soil plug at Alpheus Creek can be removed and the water allowed in as far as the new stop logs. The exposed soil channel will be riprapped with large boulders (3 - 5 ft dia.) and the system allowed to stabilize for a few days.

The next step in implementation will be to work with SeaPac to protect the hatchery water supply and begin the 3 – 4 day transition from the old system to the new conveyance pipeline.

Before water is allowed in the pipe the new flow meter will need to be installed and inspected by a manufacturer's representative for proper installation and alignment and the electrical service provided. The concrete vault containing the flow sensors was to be poured by the end of the week (10/12/13).

I have, again, included a number of pictures to highlight some key aspects of the project.

As of the most recent billing (September 2013), the project is on budget at approximately 55 percent billed to date. Please let me know if you have any questions.

Pipeline Conflict with Unknown Abandoned Pipeline and Concrete Channel

New Pipeline In-Place with Backfill

Pipeline at Station 1100±

Intake Structure

Intake Structure

MWH.

BUILDING A BETTER WORLD

MEMORANDUM

TO: DISTRIBUTION

DATE: October 25, 2013

FROM: Ed Cryer (MWH)

CC:

SUBJECT: Blue Lakes Pipeline Replacement

REF: 10502444.010101

Following our meeting with RSCI on 10/24/13, we have attempted to develop a schedule for completing this project that will reflect the reality of our experience thus far in implementing the work. A number of issues have arisen that have delayed the work to date and those have been discussed in my previous correspondence.

Based upon our recent discussion, the following general schedule is currently what RSCI is anticipating:

Topic	Timeframe
1. Complete pipeline installation to intake and finish concrete at intake	October 31, 2013
2. Allow final concrete curing – begin backfill of intake structure (2 weeks duration)	November 7, 2013
3. Meet with SeaPac to discuss transition for water supply to the hatchery building	Week of November 4, 2013
4. With stop logs installed in new intake and initiate final new connection to Alpheus Creek with low permeability liner	November 18 – 21, 2013
5. Install new flow meter	November 18 – 21, 2013
6. Install new metal work (rails, screens, etc.)	November 3 – 15, 2013
7. Flow transition period work at intake and discharge to be completed	December 1 – 7, 2013
8. Cleanup and site demobilization	Prior to December 31

I realize this is a goal-oriented schedule but, it covers the major elements of the work to be completed.

Since the next Board meeting is on November 12 (my understanding), would it be an appropriate time to have MWH/RSCI attend to present the work to date and answer any questions regarding the completion of the project? Please let me know so we can schedule the attendance.

Regards