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**Eccles Creek culvert survey points\_\_Stream Alteration Permit #15-91-0005**

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**Priscilla Burton** <priscillaburton@utah.gov>

Wed, Oct 28, 2015 at 11:26 AM

To: Hugh Christiansen &lt;hughc@nelcocontractors.com&gt;

Cc: Justin Hart - Utah Wildlife Resource &lt;justinhart@utah.gov&gt;, "cherylparker@utah.gov" &lt;cherylparker@utah.gov&gt;, Keenan Storrar &lt;kstorrar@utah.gov&gt;, Daren Rasmussen &lt;darenrasmussen@utah.gov&gt;, Daron Haddock &lt;daronhaddock@utah.gov&gt;, Dana Dean &lt;danadean@utah.gov&gt;, OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

Hello Hugh,

Attached is the spreadsheet of data that was collected to prepare a figure showing the high water mark and cross section locations for the stream water alteration permit #15-91-0005. These points were measured from the bench mark that was surveyed in by Ben Grimes (the wooden stake with flagging across the highway). Can you provide surveyed elevations of the inlet and outlet of the culvert in relation to the water surface?

The change of plan that we have been discussing is to leave the 48 inch Eccles culvert in place, because it appears to be 2 to three feet below the existing water surface. i.e. The river drops down (about 3 feet) into the culvert at its inlet and the river bubbles up from the culvert at its outlet (from about 2.5 to 3 feet below the water surface). If the elevations of the inlet and outlet allow enough vertical drop, the more conservative approach of constructing the channel on top of the culvert is advantageous for several reasons.

- 1) Eccles Creek can continue to flow in the culvert during construction of the new channel.
- 2) We will not have to over-excavate the existing channel to remove the culvert and then build on fill.
- 3) The plugged culvert will be buried by rock in the channel.
- 4) The temporary 36 inch bypass will not be installed which will eliminate issues surrounding installation and removal of the bypass culvert (i.e. the over-excavation of the highway outslope and sediment entering the creek during removal).

The Division of Water Rights (Darin Rasmussen) and the Division of Wildlife Resources (Justin Hart) along with Division of Oil, Gas & Mining team (Keenan Storrar and Cheryl Parker) have been consulted about this change of plan to stream alteration permit #15-91-0005. All agencies, including DOGM, agree that this approach will create less disturbance, but all are concerned that the culvert be adequately covered and remain buried. All agencies agreed that the best way to accomplish that objective is to fill both ends of the culvert with cement, so that when the culvert erodes through, it will quickly be filled with rock and sediment and not become a channel of flow.

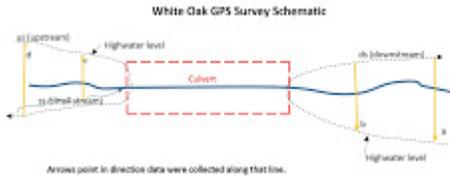
Once we know the elevations of the inlet and outlet in relation to the water level, we can make a final decision.

Thank you,

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**2 attachments**



**Schematic of Data Collection.jpg**  
125K



**White Oak Culvert Point List .xlsx**  
83K

# White Oak GPS Survey Schematic

