

# VEAL EXHIBIT 77

**From:** Tom W. Hardy  
**Sent:** Wednesday, April 16, 2014 9:10 AM  
**To:** Roger Dane  
**Subject:** Veal Property Site Visits  
 Hi Roger,

Any thoughts or additions?

- - Site visit on Wednesday April 9<sup>th</sup>:
  - Rain on April 8<sup>th</sup>: 0.42 inches
  - North Stream
    - Stream was flowing, beginning at Red-Wood Road culvert
    - Majority of flow entering culvert on eastside of Red-Wood Road was coming from hillside stormwater pipe
    - Little to no flow was coming from stormwater vault from Redwood Manor development
    - Stream channel defined, but not deeply incised indicating hydrology or stream power not enough to scour underlying soils, and probably subsurface soil layer (till?) helping to keep stream and adjacent wetland on surface.
    - West edge of property shows that stream flow has been present in ravine for a long time; ~75+ year old Douglas firs and Big Leaf maple trees on ravine slope that was cut by stream flow in past. Clear evidence that stream has been flowing here for a long time (i.e. ravine is not a recent creation).
  - Wetlands
    - Wetland hydrology (saturated to surface) and soils (muck) found adjacent to stream channel – north and south of channel. OBL and FACW plants dominate in significant patches. Blackberries growing over saturated mucky soils too.
  - South Stream
    - Defined stream channel seems to start downslope to the west approximately ~150 feet from Red-Wood Road (not at Red-Wood Road as indicated on Stream map); ravine has been there for a long time and was not recently created though. Stream hydrology was probably interrupted during earlier development upstream; there is a corresponding topographic swale/ravine to the east of Red-Wood Road, but without water/channel.
  - Wetlands
    - Soil saturation, wetland soils and hydric vegetation present in established small ravine
  - Site Visit on Monday April 14<sup>th</sup>:
  - No rain for 6 days; sunny
  - North Stream
    - Stream was flowing, beginning at Red-Wood Road culvert, slightly less than on April 9<sup>th</sup>; some flow splits and flows south (not in defined channel) and flows into wetland south of channel; no direct stream flow observed into wetlands north of channel
    - Some possible evidence of stream dredging in the past near Red-Wood Road culvert (mounds of spoils on north side of channel).
  - Wetlands
    - Soil saturation still present to surface
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Also Previous studies: done by CH2MHill and Redwood Manor development to the east.

-Tom

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