From: Brett M. Converse
To: Nickel, Brian
Cc: Paul Klatt
Subject: 61 pounds per day
Date: Tuesday, June 21, 2016 3:20:04 PM

Hi Brian:
During our meeting I understood that Sandpoint's current discharge during the summer is about 61 lb/day (with probability basis).
And the draft permit P load was based the current discharge of 61 lb/day.
However, the permit FS is very unclear on which came first, the 61 pounds or the 47%. The first mention of 47% (pg C-3) was when documenting the authorized mixing zone which suggest the permit is based on the mixing zone rather than historic summer P discharge. I think the current load discharge of 61 lb/day should be established, the mixing zone calculated to be 47% and authorized, the modeling effort done to confirm the 61 pounds per day is protective (well, I actually don't think the modeling effort was needed).
It seem the permit has not documented the current summer discharge which is important to establish Sandpoint's historic load and basis for anti-degradation. For that matter the winter load should be well documented too. Is that what we agreed was needed?
Regards
Brett
Can you send me the data you showed during our meeting?
Page E-4, The mixing zone is dilution is calculated based on 47%

Fact Sheet

June – September

$$D = \frac{Q_e + 0.47 \times Q_u}{Q_e}$$

$$D = \frac{7.736 + (0.47 \times 6640)}{7.736}$$

$$D = 404.4$$

Page E-6

D = Dilution Factor

June – September

$$WLA = 404.4 \times (0.01\ \mu g/L - 0.0073\ \mu g/L) + 0.0073\ \mu g/L$$
$$= 1.099\ mg/L$$

Page E-7 The basis for the 61 lb per day is set (using TSD statistics)

June – September

$$AML = 1.099\ mg/L \times 1.326 = 1.46\ mg/L$$ 1.46*8.35*5=61 lb/day

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