

Lindebak, Scott

From: Trevor Kurth [TKurth@baughmanco.com]
Sent: Monday, November 07, 2011 3:48 PM
To: Lindebak, Scott; Davidson, Tim
Subject: RE: Skyway West 2nd and 3rd comments_drainage

So you are saying in an Industrial Site I should use a CN of a 98?

Tim specifically attached the Table 4-4 which shows that industrial use has an average of 72% imperviousness. From the same publication referenced, TR55, the CN Table (2-2a) specifically references the 72% average imperviousness and lists it as a 91 in soil type C. So, your manual specifically lists the same % of imperviousness but then says I should use a CN of 98 (which is reserved for only paved surfaces – even gravel has a CN of a 91)? Why is the Table 4-4 included in the Manual then?

You know I am all for continuity amongst consultants. But, when it totally contradicts the material that the Manual even references – national publications which our entire line of work is formed upon – what good is it? Especially since in the Manual under Section 4.3.1 it states “**For the applications of the hydrology methods presented in this Manual, the NRCS (formerly SCS) “Curve Number” (CN) method will be used**”. Why does the Manual even reference the NRCS documentation and how to calculate CNs when you are not even going to use it? So, if I understand your earlier email, you want to use ‘local runoff experience’ and piecemeal it with the ‘national publication’ in order to fit the manual?
trk

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From: Lindebak, Scott [mailto:SLindebak@wichita.gov]
Sent: Monday, November 07, 2011 3:03 PM
To: 'Trevor Kurth'; Davidson, Tim
Subject: RE: Skyway West 2nd and 3rd comments_drainage

We use what was included in the stormwater manual, let me know when you have time tomorrow to meet or have a conference call. We have a hard time keeping the consultants using the same consistent methodology. That’s why the CN table was developed and discussed in detail during the Technical Advisory Committee.

Scott

From: Trevor Kurth [mailto:TKurth@baughmanco.com]
Sent: Monday, November 07, 2011 2:54 PM
To: Lindebak, Scott; Davidson, Tim
Subject: RE: Skyway West 2nd and 3rd comments_drainage

Scott,

You guys 'source' tables and numbers but, ultimately, you don't use the data? (ie Tim's email had a NRCS/TR55 source). Like I said, I would really like to discuss this further.

trk

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From: Lindebak, Scott [mailto:SLindebak@wichita.gov]
Sent: Monday, November 07, 2011 2:48 PM
To: 'Trevor Kurth'; Davidson, Tim
Subject: RE: Skyway West 2nd and 3rd comments_drainage

Trevor, We desire to follow the CN values that are provided in the Stormwater Manual, which is 80 for pre-developed conditions as was agreed upon during the review by the task force. We are willing to discuss our local runoff experience as compared the national publication you have used.

Scott

From: Trevor Kurth [mailto:TKurth@baughmanco.com]
Sent: Monday, November 07, 2011 1:37 PM
To: Davidson, Tim
Cc: Lindebak, Scott
Subject: RE: Skyway West 2nd and 3rd comments_drainage

Tim,

I will look them over.

I will say, after the first comment, we will need to discuss these issues further.

Per the US Dept of Ag – SCS CN tables, Fallow straight row crops in soil condition C has a CN of 91. Row crops in poor condition soil type C has a CN of 88. Further, I have no idea what 'routinely tilled' means or what time frame that is per the City Manual. Is that every month? Once a year? Once every two years? If this is no-till farmland would a higher CN (in the 90's) be justified?

Also, based on the same table, Industrial cover type (with a 72% impervious cover), in a soil type C, has a CN of 91.

Gravel streets and roads – per the same table – has a CN of 89.

I am comfortable with the CNs used, especially since they were taken directly from the SCS.

With that said, I will try to look at the other comments in the coming week and address them further.

trk

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From: Davidson, Tim [mailto:TDavidson@wichita.gov]
Sent: Monday, November 07, 2011 1:04 PM
To: 'Trevor Kurth'
Cc: Strahl, Neil; Lindebak, Scott
Subject: Skyway West 2nd and 3rd comments_drainage

Trevor,

Please consider the attached comments on Skyway West 2nd & 3rd. My apologies in advance if the questions and concerns raised are negligible or already addressed in the report, but I did not perceive the answers, or comprehend it upon the first review.

Thanks,

Tim Davidson
Stormwater Management
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