

October 27, 2021

To: CD 24 & JCD 201 Drainage Authority

From: Kendall Langseth

ATTN: Merissa Lore

RE: Outlet benefit of JCD 201 into CD 24

After evaluation of the information supplied by your office and ISG Engineering the viewers have established an outlet benefit of 14.0 percent.

The benefit was determined using the following information.

Benefited Acres in each ditch:

JCD 201 – 2270 acres

CD24 – 970 acres

Total acres in both systems -3240 acres

Both systems are totally tile systems.

If JCD 201 was directly connected to CD24 it would supply 70% of the drainage water to CD24.

We estimate, based on 2, 25, and 100-year rain events, that the anticipated actual overland flow from JCD 201 into CD 24 will occur 20 percent of the time.

Calculation:

$70.0\% \text{ (JCD 201 \% of acres)} \times 20\% \text{ (anticipated time CD 24 is used by JCD 201)} = 14 \%$