DGLVR GIS Error Cutoff Values for Project Deliverables - 12/22/2020

Category	Cutoff Value	What it Means
Turn Outs Installed (#)	0.01	A turnout for every 100' of project length
New Cross Pipes Installed (#)	0.01	A crosspipe for every 100' of project length
Cross Pipes Replaced (#)	0.01	A crosspipe for every 100' of project length SEE EXAMPLE IN EXPLANATION BELOW
Through The Bank Pipes (#)	0.01	A TTB Pipe for every 100' of project length
Road Fill Added (tons)	5	A 20' wide road, filled 42" deep for 100% of project length
Full Depth, Chem., Mech. Stb. (sq yd)	2.5	100% of project length for a 22' wide road
Geo Sep. Fabric, Grid, or Cell (sq yd)	5	200% of project length at 22' wide road
Under Drain Added (ft)	2	two underdrains for 100% project length
French Mattresses Constructed (sq yd)	1	A mattress for covering ~50% of project area (assuming 18' wide road)
Soil Pinning (sq yd)	1	100% of project length at 10' high bank
Geo Stabilized Bank (sq yd)	1	100% of project length at 10' high bank
High Water Bypass (#)	0.005	One HWB for every 200' of project length
In-stream Stabilization Structures (#)	0.01	One structure for every 100' of ROAD project length
Bioengineering (sq yd)	2.5	100% of project length at 22' wide bioengineering
Diversion Swales Constructed (ft)	1	A swale for 100% of project length
Bank Benches (ft)	1	A bench for 100% of project length
Through Drains (#)	0.01	A through drain for every 100' of project length
Access Drainage Improvements (#)	0.01	An access improvement for every 100' of project length
DSA Placed (tons)	1	DSA placed over 100% of project length, 8" deep, at a width of 24'
Sealed Surface (sq yd)	2.5	100% of project length at 22' wide road
Broad Based Dips (#)	0.01	A BB Dip for every 100' of project length
Grade Breaks (#)	0.01	A grade break for every 100' of project length
Dust Suppressant Used (sq yd)	2.5	100% of project length at 22' wide road
Infiltration (sq yd)	2.5	100% of project length at 22' wide road
Detention (sq yd)	2.5	100% of project length at 22' wide road
Dispersal (sq yd)	2.5	100% of project length at 22' wide road
Select Thinning/Pruning (ft)	2	Both sides at 100% of project length
Seeding/Mulching (sq yd)	2.5	100% of project length at 22' wide road

Purpose: In order to avoid typos and mistakes in entering project deliverables, the GIS contains a check to identify likely data entry errors.

Cutoff Value: This value is obtained by dividing the deliverable value entered by the site length in feet. Site that have deliverables per project length that exceed these cutoff values are flagged as potential errors. This is straightforward for items like pipes listed as whole numbers, but more complex for deliverables measured by area or volume.

Example: For # Crosspipes installed, a crosspipe frequency exceeding one crosspipe every 100' is used to establish the cutoff value. This equates to 10 crosspipes in a 1,000 foot site, so 10/1000 = 0.01 which is the cutoff value listed in the table above. Sites with crosspipe spacing closer than 100' spacing (over the 0.01 cutoff value) would be flagged as potential errors. For example, a 500 foot long site with 6 crosspipes gives 6/500= 0.012, which exceeds the cutoff value of 0.01 and would be flagged.

Note on site Length: Since the calculations are based on site length, errors may be generated if sites are created shorter in the GIS than they actually were in the field.