Erosion & Sediment Control (ESC)

Single Family Construction
June 24, 2019
Erosion & Sediment Control (ESC)

1. Staff Introductions
   • Erika Nassichuk, R.P.Bio
   • Richard Boase, P.Geo.

2. ESC Background in the DNV
3. Current ESC Practice – Single Family Lots
4. Recommendations Discussion
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ESC Background in the DNV
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ESC Background in the DNV

- Environmental Protection & Preservation Bylaw 6515
  - Soil Permits for soil movement in/out parcels
  - TSS threshold criteria for discharge
  - Protection of DNV storm sewer infrastructure
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ESC Background in the DNV

Environment Bylaw 6515:

- No person may do anything that would, directly or indirectly, foul, obstruct or impede a stream, or waterfront
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ESC Background in the DNV

• Streamside Protection Development Permit Area

• Additional Development Permit Areas
  • Natural Environment
  • Streamside Protection
  • Creek Hazard
  • Slope Hazard
  • Wildfire Protection
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ESC Background in the DNV

- Introduced and defined “development”
- Any construction or alteration of a building on land inside a DPA required a review to determine compliance with the guidelines
- Any alteration of land including site clearing, vegetation removal, landscaping work etc. required a review to determine compliance with the guidelines
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ESC Background in the DNV

Construction Bylaw 8271:

- ‘Failure to manage sediment or erosion’
- ‘Failure to ensure catch basin fitted with sediment trap’
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ESC Background in the DNV

• The DNV is the one of the only municipalities in the region to have ESC requirements for single family infill development
• Surrey and Coquitlam have substantial ESC programs that require monitoring, sampling and strict enforcement. The DNV has the same type of requirements for similar larger projects
• These programs are only required for greenfield development, not single family infill or redevelopment
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Current ESC Practice – Single Family Lots

- Environment, Construction & Sewer Bylaws
- ENERGOV
- Mandatory ESC Inspection within BLD cases
- Future performance management of contractors
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Environment staff member increase

New Construction Bylaw implemented December 2017

- Discharge of Fouling Material
- Failure to Manage Sediment or Erosion
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Current ESC Practice

New Environment staff

New Construction Bylaw
December 2017
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Energov

- Mandatory ESC inspections for all building projects with associated soil permits
- An ESC inspection fail means all further inspections are stopped until the ESC inspection is a pass

- Security deposits are taken on building permits
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Recommendations Discussion

• Energov Contractor ESC Performance Ratings
• Education/Outreach
• ESC Wet Weather forecast
• Bylaw Updates
  NTU measure vs TSS
  Increase fines for discharge of fouling material
Questions