



FVRD Biosolids Management Options Assessment

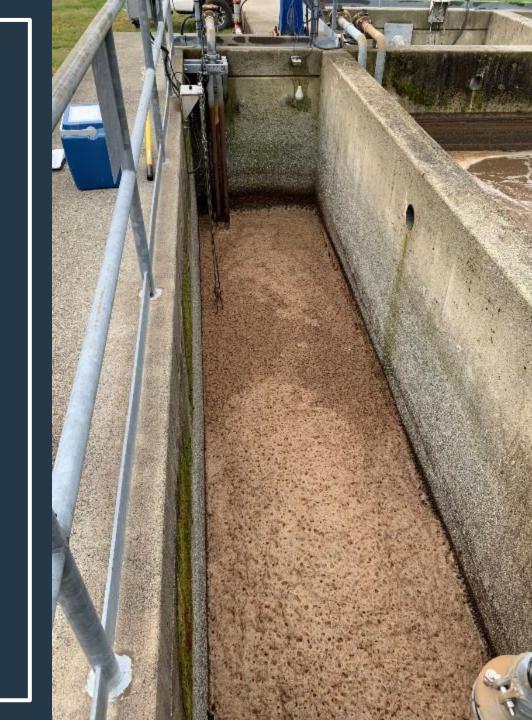


https://www.britishcolumbia.ca/invest/communities/british-columbia/lower-mainland-southwest/fraser-valley.

EASC Meeting | July 14, 2020 Laura Jefferies, M.Sc., P.Ag.

Outline

- Facilities
- Rationale
- Assessment Criteria
- Liquid Sludge & Liquid Biosolids Management
- Dewatered Biosolids
 Management
- Summary



Facilities

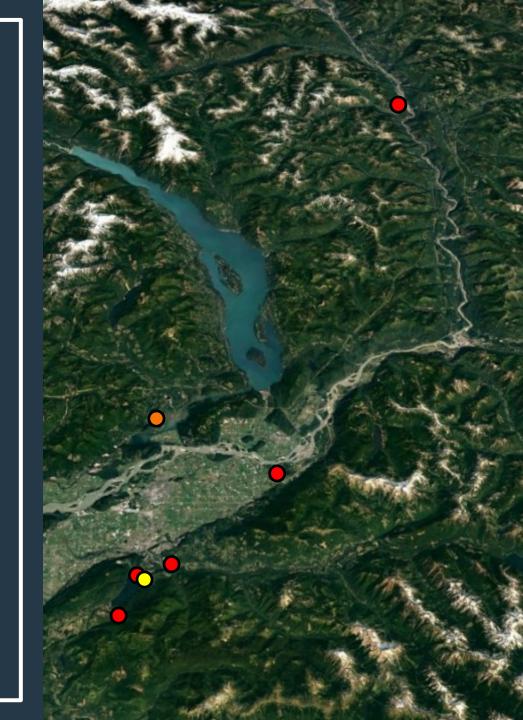
• Liquid Sludge

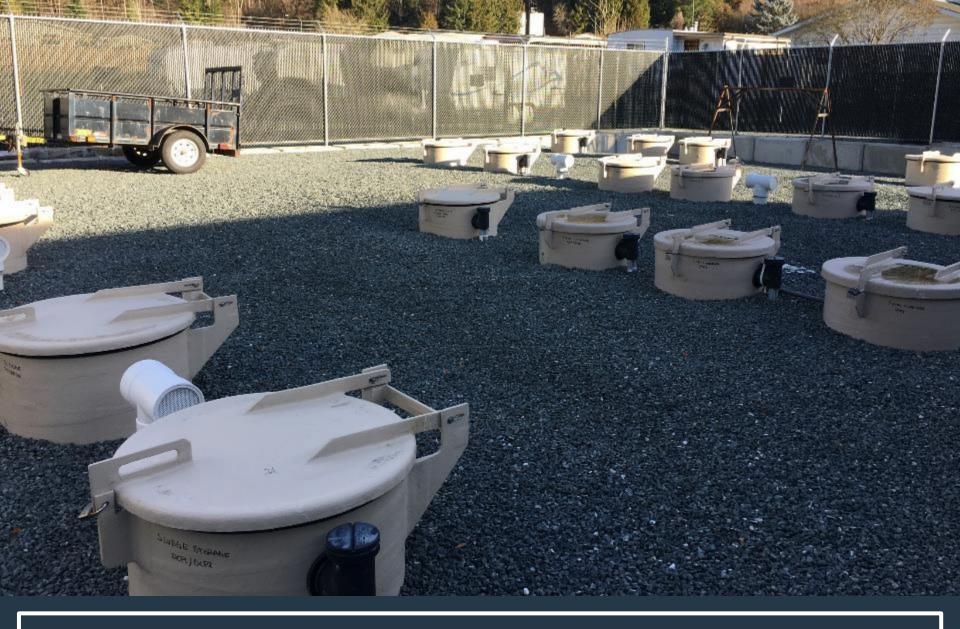
- 1. North Bend
- 2. Minter Gardens
- 3. Baker Trails
- 4. Aquadel
- 5. Current Cultus Lake North

Liquid Class B Biosolids
 Marris Valley

6. Morris Valley

Dewatered Class B
 Biosolids
 Future Cultus Lake North





Rationale

Environmental

- Environmental Benefits
- Transportation Emissions

Social

• Stakeholder Acceptance

Technical

- Regulatory Compliance
- Implementation
- Reliability & Seasonality

Economical

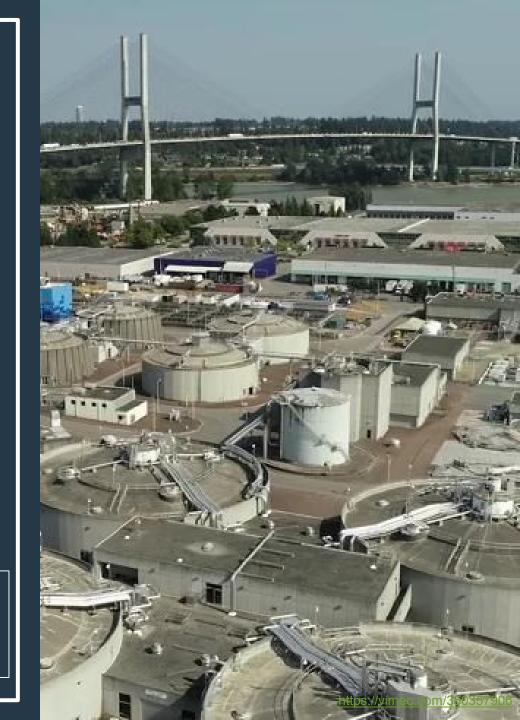
- Capital Costs
- Management Costs

Options Assessment Criteria

Liquid Sludge & Liquid Class B Biosolids Management

- Assumes material from all current FVRD managed WWTPs
- Annual volume to manage:
 ~ 307 m³ or ~ 2.5 dry tonnes
- Morris Valley considered for local land application

RECOMMENDATION: Status Quo: Transport and Treatment at an Alternate WWTP



Dewatered Class B Biosolids Management

- Assumes >18% solids
- Assumes future Cultus Lake
 WWTP only
- Annual volume to manage:
 ~ 200 m³ or ~ 36 dry tonnes
- Three primary options assessed





Dewatered Biosolids Management Recommendation

Amalgamation with CHWK Program



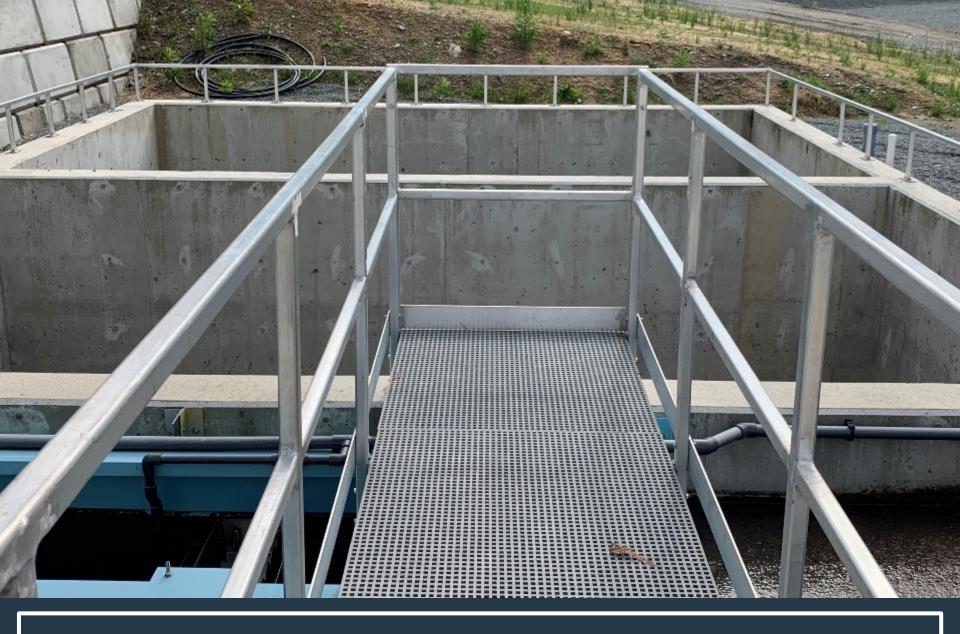
Summary

Liquid Sludge and Liquid Biosolids

• Status Quo: Transport and Treatment at an Alternate WWTP

Dewatered Biosolids

Amalgamation with CHWK program



Questions