

Core Area Liquid Waste Management

Committee Orientation

January 7, 2015

Presentation Overview



- Session One (January 7, 2015)
 - Governance Framework
 - Liquid Waste Management Planning & Programs
 - Overview of Core Area Conveyance & Disposal System
 - Municipal Inputs & Trunk Flows
 - Current Conveyance System Funding
 - CRD Staff Support



- Session Two (February 4, 2015)
 - Provincial & Federal Regulatory Requirements
 - Wastewater Treatment Program Funding
 - Program Plan, Status & Outlook

Governance Framework



- CRD Board Chair Jensen
- Core Area Liquid Waste Management Committee Standing Committee of CRD Board – Chair Jensen
 - Technical Community and Advisory Committee Chair Jensen
 - Westside Wastewater Treatment & Resource Recovery Select Committee – Co-Chair Desjardins & Co-Chair Hamilton
- Core Area Wastewater Treatment Commission Chair Eaton
 - Program implementation procurement, construction, outcomes

Regional Liquid Waste Management Planning



- Core Area Liquid Waste Management Plan Established July 2000
 - Sets out liquid waste management strategy and CRD and municipal commitments for 25 years
 - Most recent Plan Amendment No. 9 Approved July 2014
- Saanich Peninsula Liquid Waste Management Plan Established 1996
- Electoral Areas Five CRD Wastewater Treatment Plants operated under *Municipal Sewage Regulation*
- District of Sooke Manages stand alone Liquid Waste Management Plan

Liquid Waste Management Programs

Core Area Liquid Waste Management Plan Programs

- Inflow & Infiltration Program
- Wastewater & Marine Environment Program
- Regional Source Control Program







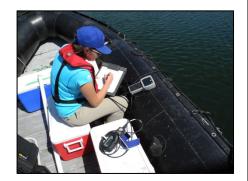
Liquid Waste Management Programs

Core Area Liquid Waste Management Plan Programs

- Trucked Liquid Waste Management
- Onsite Systems Program
- Stormwater Quality Management
- Harbours Environmental Action Program



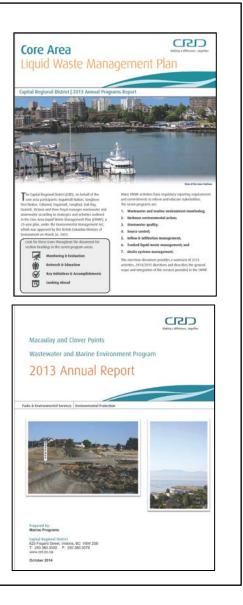




Liquid Waste Annual Reports

- Core Area Liquid Waste Management Plan 2013 Annual Programs Report
- Macaulay and Clover Points Wastewater and Marine Environment Program 2013 Annual Report

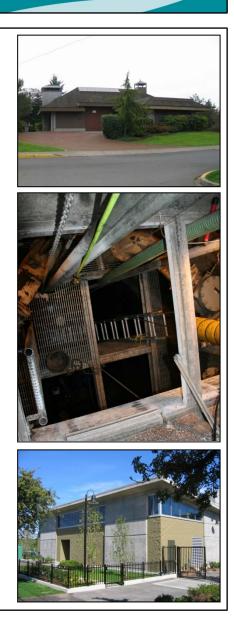
www.crd.bc.ca/project/wastewater-planning/calwmp

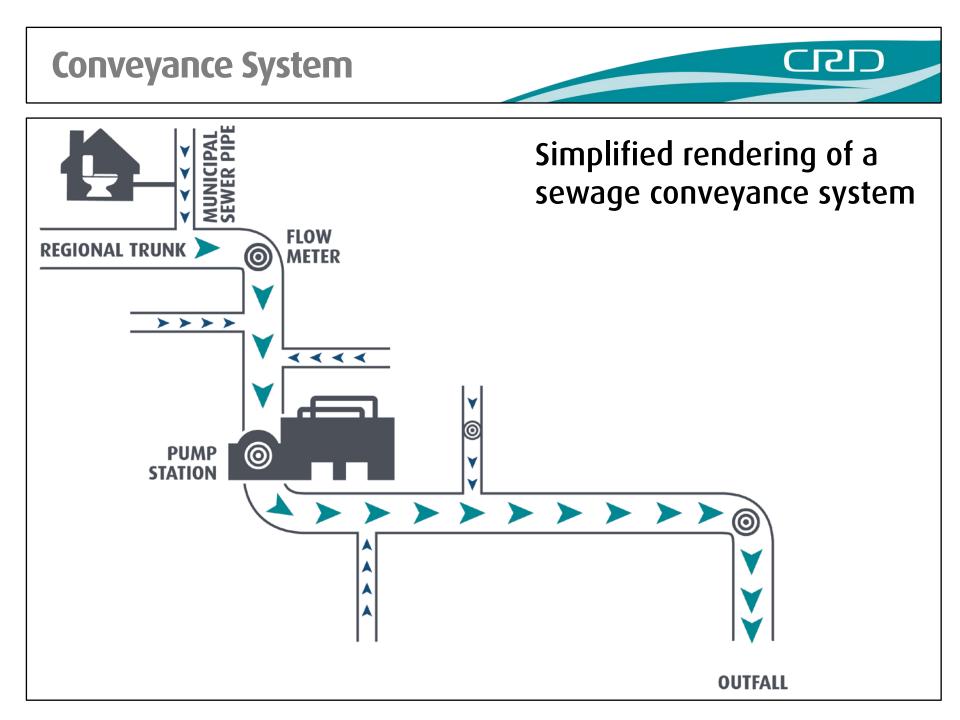


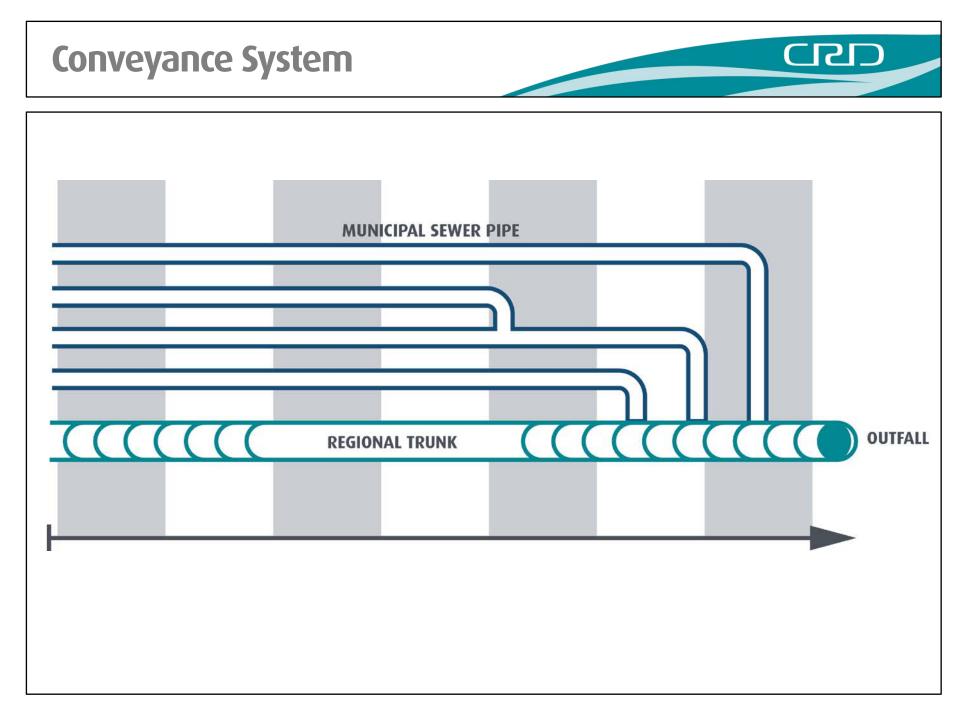
Liquid Waste Management Programs

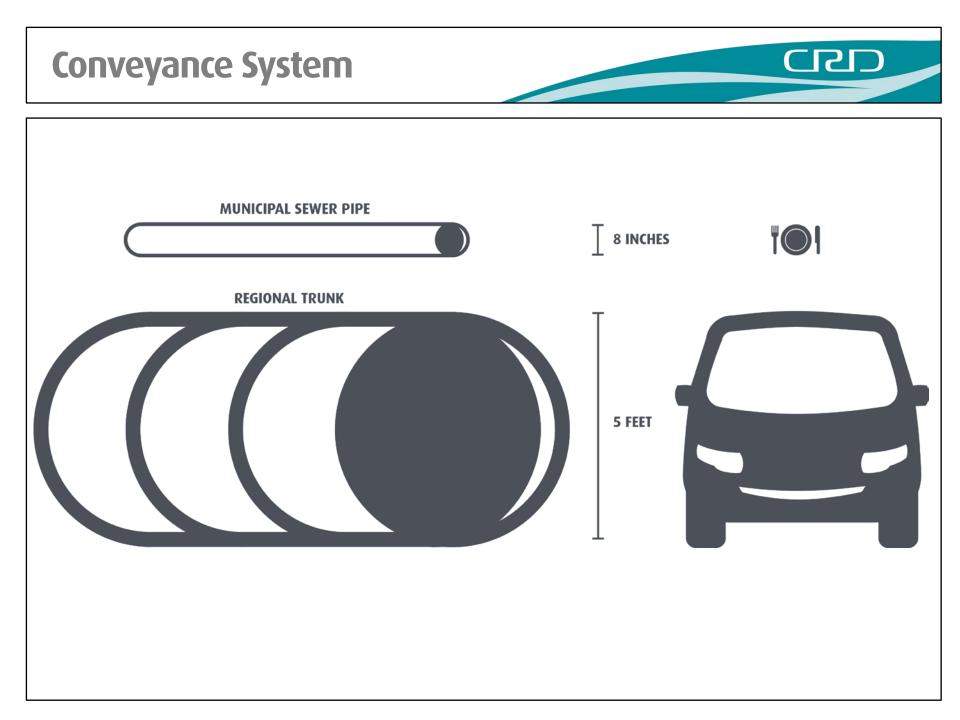
Operations & Engineering

- Operation, maintenance, engineering and capital project delivery for the Core Area Wastewater System
- Conveyance system is comprised of four trunks that make up the western and eastern systems:
 - <u>Eastern System:</u> East Coast Interceptor, Northeast Trunk – Clover, Northeast Trunk
 – Bowker
 - <u>Western System</u>: Northwest Trunk

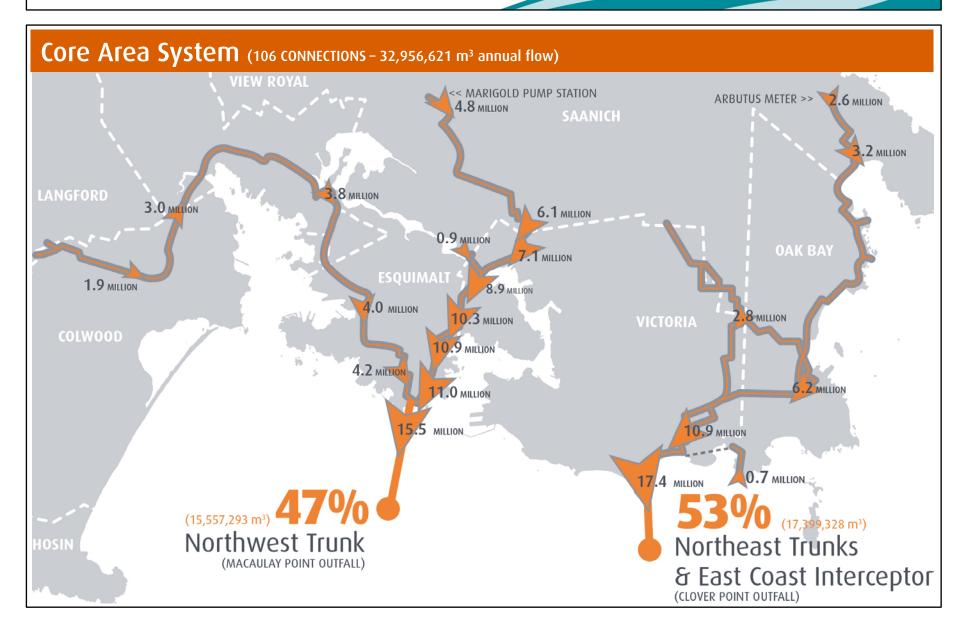








Core Area System Flow Map



CDD

Core Area – Eastern System

Northeast Trunks & East Coast Interceptor (63 CONNECTIONS – 17,399,328 m³ annual flow)



64.4% Victoria

11,202,459 m³ (total annual flow of 13,455,282 m³)

CDD

19.4% Saanich 3,372,847 m³ (total annual flow of 10,439,905 m³)

16.2% Oak Bay 2,824,022 m³

Core Area – Western System



45% Saanich

7,067,057 m³ (total annual flow of 10,439,905 m³)

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15.5% Esquimalt 2,447,502m³ (including DND)

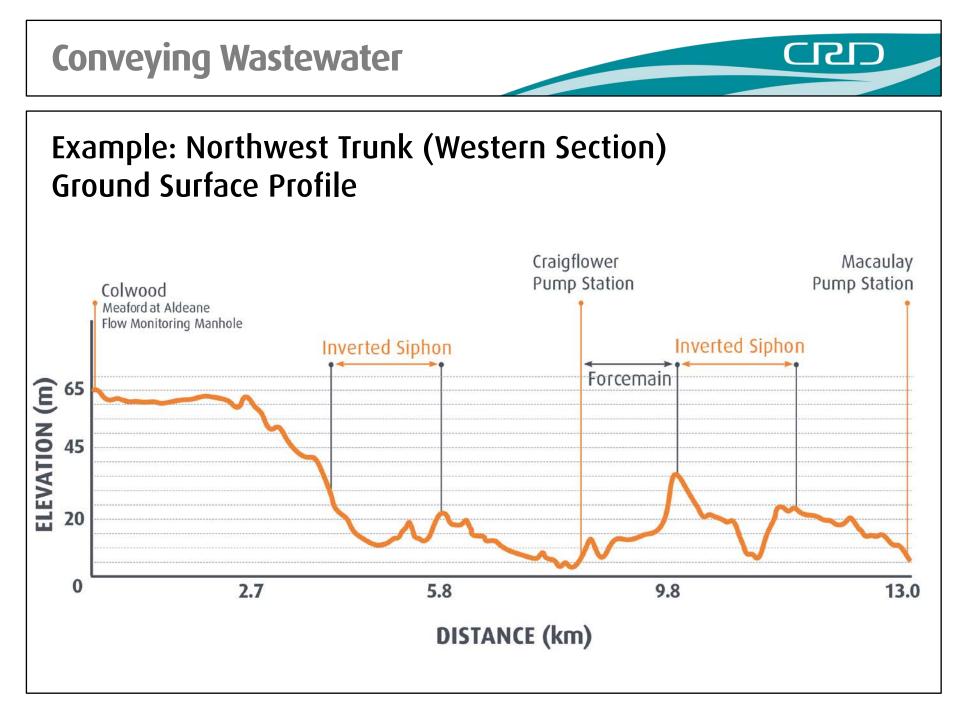
14% Victoria 2,252,823m³ (total annual flow of 13,455,282m³)

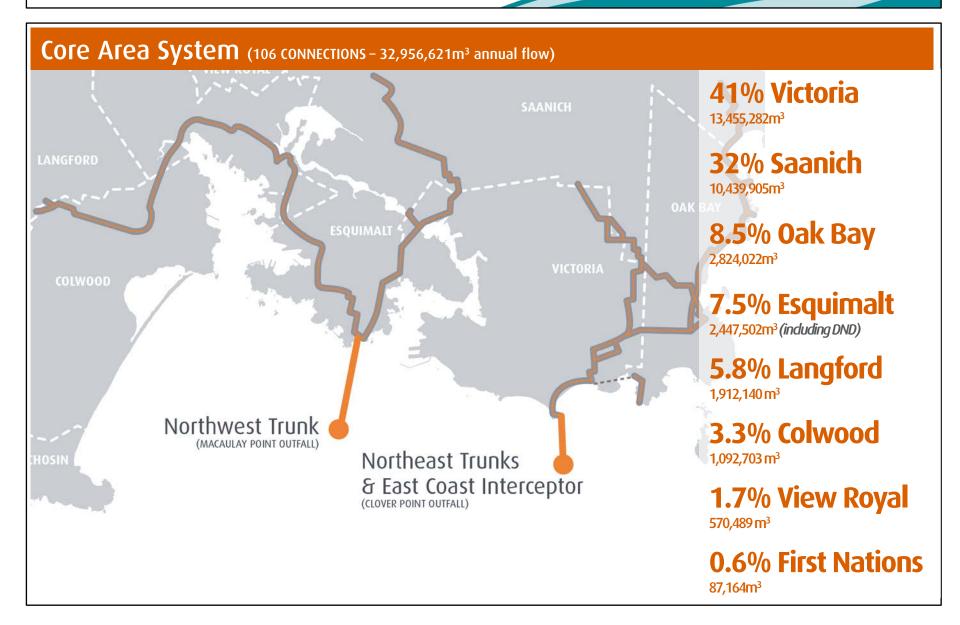
12% Langford 1,912,140 m³

7% Colwood

3.7% View Royal 570,489 m³

1.4% First Nations 214,579m³





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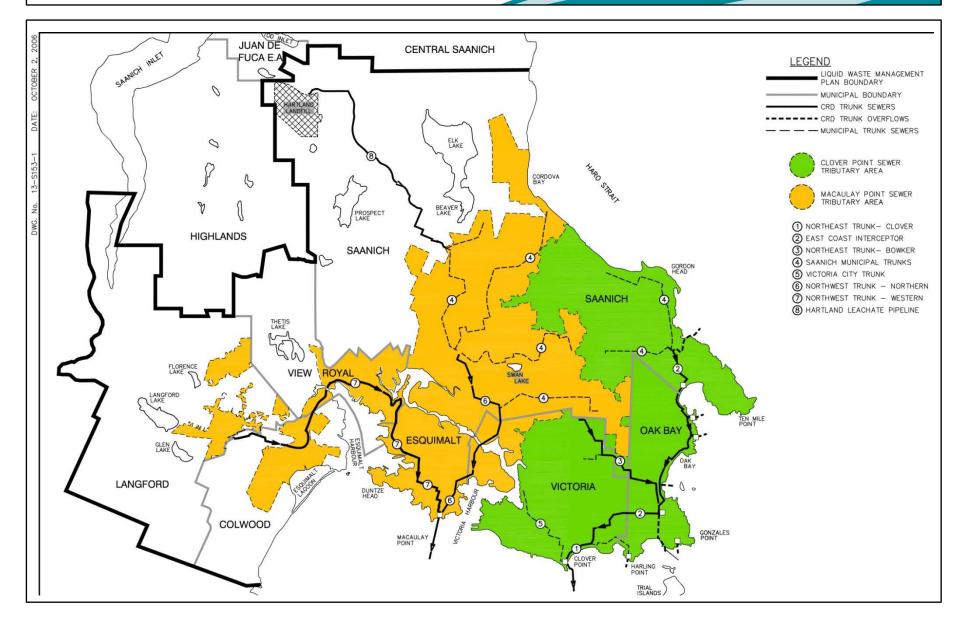
Core Area System by Municipality

	Actual Annual Flow 2013* (m³/year)	Actual Use 2012* (ML/day)	Requested Capacity* (ML/day)	% of Total	Allocated Design Capacity* (ML/day)
Colwood	1,092,703	2.3	4.1	4.35%	4.70
Esquimalt (DND included)	2,447,501	5.9	6.2	6.57%	7.10
Langford	1,912,140	4.4	12.4	13.08%	14.12
Oak Bay	2,824,022	5.9	5.8	6.13%	6.62
Saanich	10,439,905	26.8	28.8	30.45%	32.89
Victoria	13,455,282	33.4	33.5	35.46%	38.30
View Royal	570,489	2.3	3.1	3.28%	3.54
First Nations	214,579	0.6	0.6	0.68%	0.73
TOTAL	32,956,621	81.6	94.5	100.00%	108.00

CBD

Outfall Catchment Areas

CBD



System Funding

Current Conveyance System Funding

- Operating costs:
 - Based on municipal flow inputs
 - Each trunk sewer has distinct budget requisitioned annually
 - Total 2015 Trunk Operating Budget: \$6.2 M
 - Total 2015 Trunk Debt Budget: \$3.1 M

• Operating Budget Context:

- Corporate Service Expenses
- LWMP & Environmental Programs
- Operating & Engineering Labour
- Repair & Maintenance Expenses
- Maintenance Reserve & ERF
- Residuals Disposal Expenses
- Regulatory Permit Fees
- Electrical & Other Utilities



CR





27% 37% 4% 3% 3% 6% <u>9%</u> 100%

11%

System Funding

Current Conveyance System Funding

- Capital costs:
 - apportioned on basis of design capacity
 benefit (i.e. additional conveyance capacity to each participant); or
 - where no capacity increase, apportioned on basis of maximum allocated capacity of each participant in the 'facility'
 - Each project funded through reserves or debt debt servicing is requisitioned annually





Staff Support



- CRD Administration and Finance
 - Bob Lapham, CAO
 - Diana Lokken, GM, Finance & Technology
- Core Area Wastewater System Operations, Engineering & Committee Support
 - Ted Robbins, GM, Integrated Water Services
- Regulatory, Scientific and Technical Programs & Committee Support
 - Larisa Hutcheson, GM, Parks & Environmental Services
- Seaterra Program
 - Albert Sweetnam, Program Director



Questions?