

Regional District of Okanagan-Similkameen

SCHEDULE OF MEETINGS

**THURSDAY, JANUARY 22, 2015
RDOS BOARDROOM**

9:00 am	-	9:15 am	Planning and Development Committee
9:15 am	-	9:30 am	Community Services Committee
9:30 am	-	10:30 am	Environment & Infrastructure Committee
10:30 am	-	11:30 am	Protective Services Committee
11:30 am	-	12:00 pm	Corporate Services Committee
12:00 pm	-	12:30 pm	Lunch
12:30 pm	-	2:30 pm	Corporate Services Committee (cont'd)
2:30 pm	-	3:30 pm	RDOS Regular Board Meeting
3:30 pm	-	4:00 pm	OSHRD Regular Board Meeting

"Mark Pendergraft"

Mark Pendergraft
RDOS Board Chair

Advance Notice of Meetings:

February 5	RDOS Board/Committee Meetings
February 19	RDOS/OSRHD Board/Committee Meetings
March 5	RDOS Board/Committee Meetings
March 19	RDOS/OSRHD Inaugural Board Meetings
April 2	RDOS/OSRHD Board/Committee Meetings
April 16	RDOS Board/Committee Meetings
May 7	RDOS/OSRHD Board/Committee Meetings
May 21	RDOS Board/Committee Meetings
June 4	RDOS/OSRHD Inaugural Board Meetings



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Planning and Development Committee

Thursday, January 22, 2015

9:00 a.m.

REGULAR AGENDA

A. **APPROVAL OF AGENDA**

B. **Fourth Quarter Activity Report – For Information Only**

C. **ADJOURNMENT**

ADMINISTRATIVE REPORT



TO: Planning & Development Committee

FROM: B. Newell, Chief Administrative Officer

DATE: January 22, 2015

RE: Fourth Quarter Report 2014 Activity Report – For Information Only

1.0 DEVELOPMENT SERVICES DEPARTMENT

1.1 PLANNING

See Attachment No. 1 for number of Planning Applications / Referrals received as of December, 2014.

Q4 Activities

- Preparation of an Energy Efficiency Strategic Plan for 40 RDOS buildings and facilities;
- Zoning Bylaw Amendments for Area “D-2” for housekeeping items and to implement the new Community Plan, including support for secondary suites in residential and rural zones;
- Preparation of Community Plan and Zoning Bylaw Amendments to correct a Zoning Bylaw Map error in Area “A”;
- Staff Report and Board support in principle to establish a “Conservation Fund”;
- Staff Report on Livestock Regulations in Zoning Bylaws including a review of options;
- Ongoing work on project to update Environmentally Sensitive Development Permit (ESDP) Guidelines for Electoral Areas “A”, “C”, “D”, “E” and “F” Official Community Plans (as per “Keeping Nature in Our Future”);
- Proposed signage amendments for agricultural uses presented to Advisory Planning Commissions;
- Proposal Call and selection of consultant for Area “D-1” Community Plan;
- Call for credentials and selection of consultant for Gallagher Lake Area Plan;
- Continue to provide planning services to Osoyoos, Princeton, Oliver and Keremeos; and
- 31 planning reports to the Board, 3 reports to the Planning Committee and 4 reports for Advisory Planning Committee meetings.

Planned Activities for Q1 - 2015

- Commence project for Electoral Area “D-1” Official Community Plan, including preparation of public engagement plan and background research;
- Commence Gallagher Lake Area Plan including preparation of public engagement plan and background research;
- Provide planning services to Osoyoos, Oliver, Princeton and Keremeos;
- Public meetings for input on Agricultural Signage and Livestock amendments to zoning bylaws, and for “D-2” proposed zoning bylaw amendments;

- Board presentation on Energy Efficiency Strategic Plan for RDOS buildings and facilities and an update on Climate Action Plan initiatives;
- Board Workshop on key issues related to proposed Update of Environmentally Sensitive Development Permit (ESDP) Area Guidelines and Mapping – re: Keeping Nature in our Future;
- Board Workshop on key issues related to proposed Update of Okanagan Electoral Area Zoning Bylaws.

1.2 BUILDING INSPECTIONS

- Ongoing enforcement files
- Continue to receive, and process applications for Kennedy Lake. Ongoing communications with leaseholders and various stakeholders (IH, HPO). First 4 permits were issued December 19, 2014.
- Ongoing work on policies and procedures.
- Review of Code amendments for Energy Provisions which came into effect December 19, 2014
- Preparation & draft updated Building Bylaw

See Attachment No. 2 for the summary of issued Building Permits for 2014.

1.3 BYLAW ENFORCEMENT

Activity Highlights:

- Enforcement Activity
 - 5 new complaints received
 - 16 files closed
 - 62 active enforcement files
 - Vacation Rental Enforcement Policy approved by Board;
- Animal Control
 - Request for Qualifications/Expressions of Interest process for provision of dog control services has been completed
 - Drafting of a Dog Control Bylaw is in initial stages
 - Penticton Animal Shelter is now being utilized
 - Osoyoos Animal Shelter agreement extension has been initiated
 - Discussion with the Town of Oliver with respect to entering into an agreement for construction of shared Animal Shelter in Oliver have been initiated
 - Streamlining of contract services ongoing
 - Maintenance and updating of Dog Licence Database in preparation of providing remote online access to Animal Control Officer(s)

Enforcement Activity Planned for 1st Quarter

- Award of 2015 Dog Control Contract
- Introduce Dog Control Bylaw to Board
- Ongoing discussion to partner with Town of Oliver for Animal Shelter use

- Amend Bylaw Notice Enforcement Bylaw No. 2507 to introduce new fine structure

TOTAL ACTIVE FILES (processed in office)									
ELECTORAL AREA	A	B	C	D	E	F	G	H	TOTAL
Untidy and Unsightly	n/a	N/A	1	5	1	0	0	1	8
Land Use	0	n/a	8	15	5	8	0	8	44
WDP	0	n/a	1	1	1	0	n/a	5	8
ESDP	2	n/a	0	0	0	0	n/a	0	2
TOTAL	2	n/a	10	21	7	8	0	14	62

- Ongoing Vacation Rental TUP education and enforcement

1.4 SUBDIVISION SERVICING

4th Quarter Activities:

- **Subdivision Referrals**
 - 15 referrals received for 2014
 - 52 referrals ongoing and pending applicants' action
- **Ongoing Major Subdivisions:**
 - Twin Lakes – proposed 208 units
 - ❖ Received Draft Groundwater Availability Study
 - Review term of reference for draft report
 - Deer Park (Gallagher Lake) 30 Lot bare land strata
 - ❖ Phase 2 on-going completing parkland statutory right-of-way and reviewing Development Permits
 - Vintage Views Phase 3 (Chadwell Place) – 30 Lot subdivision
 - ❖ PLA issued by MOT
 - ❖ Construction began in Fall 2014
 - ❖ Parkland donation in discussions
 - ❖ Street Light petition in progress
 - Reflection Point – 8 strata lots
 - ❖ Developer is applying for a variance for fire protection
 - ❖ Parkland Dedication being worked on
 - ❖ Concepts for next phase of development being discussed
 - Naramata Benchlands
 - ❖ Water Service Area Petition
 - Covenant review
 - Reservoir land acquisition
- **Other Projects:**
 - Planning development application referrals and assisting with OCP reviews
 - Cooper Zoning – Electoral Area “A”;

- Parkbridge, Campsite permit;
- Gallagher Lake Village, Phase II, MHP permit
- (Subdivision) Works and Services Bylaw

Planned Activities for 1st Quarter:

• **Ongoing or Planned:**

- Finalize Naramata DCC and Capital Plan
- (Subdivision) Works and Services Bylaw review
- Deer Park subdivision completion
- Reflection Point subdivision
- Willow Beach proposal anticipated
- Gallagher Lake Area
 - ❖ Petitions for sewer and water service area, west side of Hwy 97
 - ❖ Assist with Gallagher Lake Area Plan
- Twin Lakes – review and comment of Draft Groundwater Availability Study
- Vintage Views Phase 3 (Chadwell Place) subdivision
- Gallagher Lake Mobile Home Park - Phase II
- Assist with Electoral Area “D-1” OCP review

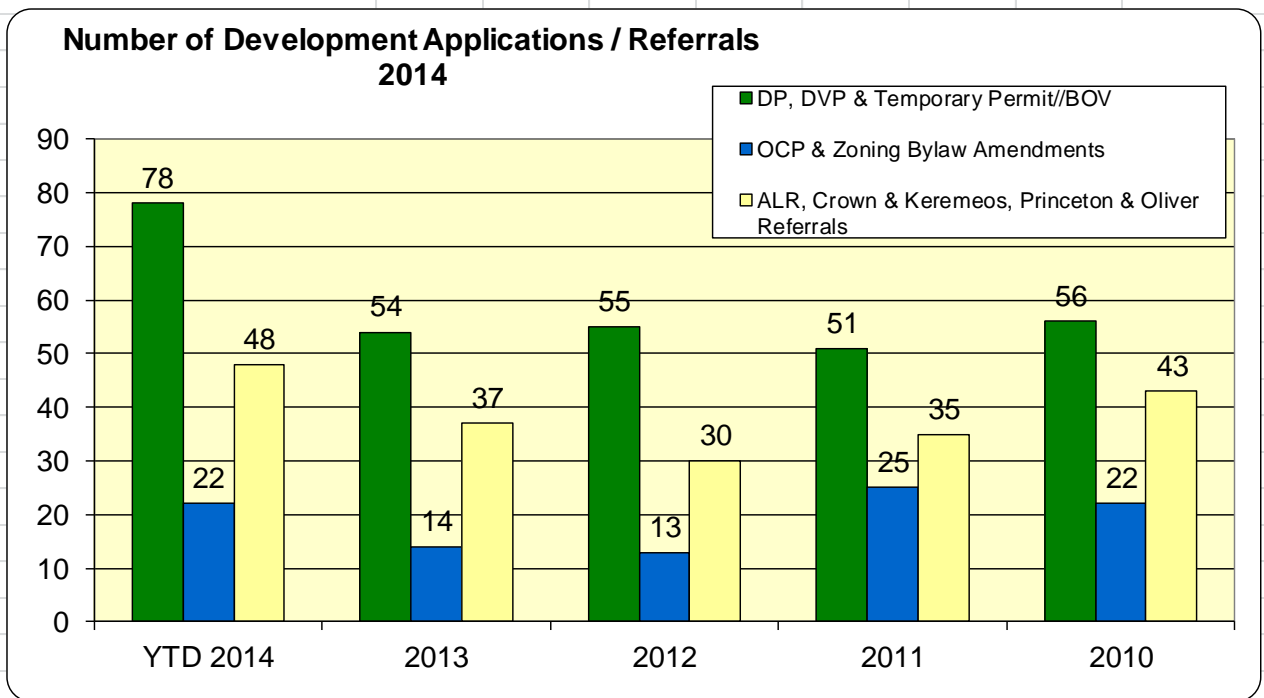
Respectfully Submitted,

Donna Butler

Donna Butler, Development Services Manager

Attachments: Attachment No. 1 – Number of Development Applications / Referrals
 Attachment No. 2 – Summary of Building Permits (September, 2014)

Number of Development Applications / Referrals 2014					
	YTD 2014	2013	2012	2011	2010
Develop Permit & DVP/BOV					
Temp. Industr					
DP, DVP & Temporary Permit//BOV	78	54	55	51	56
ZONING					
OCP/ZONING					
OCP & Zoning Bylaw Amendments	22	14	13	25	22
ALR					
Crown Land					
Keremeos/Others					
ALR, Crown & Keremeos, Princeton & Oliver Referrals	48	37	30	35	43



Attachment No. 1 - Number of Development Applications / Referrals

Attachment No. 2 – Summary of Building Permits for 2014

REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN SUMMARY OF BUILDING PERMITS FOR 2014								
NUMBER OF PERMITS ISSUED								
DESCRIPTION	A	C	D	E	F	H	TOTAL	2013
RENEWAL/DEFICIENCY	8	8	8	7	4	5	40	27
S.F.D.	11	6	24	15	1	18	75	50
MOBILE/MANU HOMES	2	12	4	0	2	3	23	16
CABINS/REC	0	0	1	0	0	1	2	0
SEMI-DETACHED, DUPLEX, MULTI	0	0	0	0	0	0	0	1
DEMOLITION / MOVE	4	8	5	6	1	1	25	15
ACCESSORY USES	15	7	30	16	1	18	87	87
ADDITIONS / REPAIRS / PLUMBING	12	14	33	22	9	23	113	118
COMMERCIAL	4	5	6	5	0	0	20	18
INDUSTRIAL	0	0	0	0	0	0	0	1
FARM BUILDING EXEMPTION	8	10	1	3	3	2	27	21
INSTITUTIONAL	0	0	2	1	0	0	3	2
SOLID FUEL APPLIANCE	0	1	0	0	1	2	4	7
2014	64	71	114	75	22	73	419	363
2013	56	68	92	54	24	69		
DOLLAR VALUE OF PERMITS								
DESCRIPTION	A	C	D	E	F	H	TOTAL 2014	TOTAL 2013
RENEWAL/DEFICIENCY	\$384,835	\$6,000	\$36,000	\$28,000	\$22,000	\$32,000	\$508,835	\$57,000
S.F.D.	\$3,523,230	\$1,846,572	\$7,527,173	\$7,502,490	\$217,050	\$3,494,950	\$24,111,465	\$14,696,486
MOBILE/MANU HOMES	\$472,735	\$2,544,165	\$802,820	\$0	\$444,240	\$521,940	\$4,785,900	\$2,697,301
CABINS/REC	\$47,320	\$0	\$12,420	\$0	\$0	\$6,400	\$66,140	\$0
SEMI-DETACHED, DUPLEX, MULTI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
DEMOLITION / MOVE	\$4,000	\$8,000	\$23,000	\$6,000	\$1,000	\$1,000	\$43,000	\$15,000
ACCESSORY USES	\$410,040	\$225,550	\$1,324,658	\$619,425	\$156,495	\$676,550	\$3,412,718	\$3,917,033
ADDITIONS / REPAIRS / PLUMBING	\$624,929	\$500,190	\$1,607,647	\$727,055	\$179,970	\$965,764	\$4,605,555	\$5,566,814
COMMERCIAL	\$452,795	\$3,100,960	\$161,569	\$258,000	\$0	\$0	\$3,973,324	\$3,117,079
INDUSTRIAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,110
FARM BUILDING EXEMPTION							not valued / no revenue	
INSTITUTIONAL	\$0	\$0	\$55,836	\$171,972	\$0	\$0	\$227,808	\$330,000
SOLID FUEL APPLIANCE	\$0	\$1,000	\$0	\$0	\$1,000	\$2,000	\$4,000	\$7,000
2014	\$5,872,564	\$8,232,437	\$11,551,123	\$9,332,942	\$874,260	\$5,700,604	\$41,563,930	\$30,450,003
2013	\$4,913,464	\$5,962,779	\$8,330,876	\$5,644,849	\$1,033,375	\$4,564,660		
BUILDING INSPECTION REVENUE								
MONTH	2008	2009	2010	2011	2012	2013	2014	
JANUARY	\$25,214.69	\$11,809.60	\$11,777.72	\$17,959.62	\$16,098.23	\$15,847.48	\$8,965.60	
FEBRUARY	\$30,704.24	\$23,237.39	\$22,148.93	\$18,531.97	\$14,200.42	\$18,055.76	\$25,842.00	
MARCH	\$57,546.50	\$28,570.52	\$19,023.05	\$26,221.83	\$38,322.59	\$28,007.02	\$30,397.81	
APRIL	\$59,265.00	\$32,345.79	\$67,151.59	\$31,870.85	\$18,059.44	\$20,973.73	\$28,055.24	
MAY	\$40,570.53	\$30,856.22	\$38,836.72	\$42,136.91	\$30,849.83	\$43,054.17	\$47,678.54	
JUNE	\$32,179.00	\$35,521.61	\$48,302.07	\$46,768.25	\$44,166.92	\$42,069.21	\$78,964.49	
JULY	\$61,403.96	\$28,240.78	\$29,173.69	\$39,690.56	\$57,024.83	\$46,889.56	\$48,610.54	
AUGUST	\$40,621.83	\$25,430.20	\$17,514.63	\$37,792.51	\$58,020.08	\$35,669.63	\$41,182.51	
SEPTEMBER	\$29,447.83	\$28,606.77	\$58,038.24	\$40,835.92	\$24,513.20	\$24,607.81	\$68,044.72	
OCTOBER	\$35,889.37	\$45,411.73	\$46,844.00	\$27,711.60	\$34,125.76	\$28,791.57	\$36,694.11	
NOVEMBER	\$27,889.15	\$24,651.67	\$58,833.71	\$23,710.90	\$29,782.64	\$25,620.64	\$40,766.83	
DECEMBER	\$11,435.43	\$17,219.44	\$19,991.95	\$41,386.71	\$33,035.38	\$16,484.32	\$39,792.14	
TOTAL YEAR	\$452,167.53	\$331,901.72	\$437,636.30	\$394,617.63	\$398,199.32	\$346,070.90	\$494,994.53	



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Community Services Committee

Thursday, January 22, 2015

9:15 a.m.

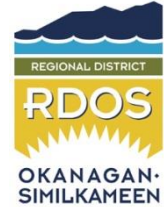
REGULAR AGENDA

A. APPROVAL OF AGENDA

B. Fourth Quarter Activity Report – For Information Only

C. ADJOURNMENT

ADMINISTRATIVE REPORT



TO: Community Services Committee
FROM: B. Newell, Chief Administrative Officer
DATE: January 22, 2014
RE: Fourth Quarter Activity Report – For Information Only

COMMUNITY SERVICES DEPARTMENT

Parks, Recreation, Heritage, Culture, Economic Development, Transit and Rural Projects

1. Activities for Q4 2014

1.1. Parks, Recreation and Trails

- Detailed Engineering Design for Lake Hill Road; Kaleden and Lakeshore Drive;
- Substantial Construction completion of Osoyoos pedestrian corridor project
- Continued discussions with the MoTI and City of Penticton on a proposed Cycling Precinct concept
- Continued negotiations with MoFLNRO and private landowner for portions of the KVR Trail along Skaha Lake
- Worked with various local tourism groups to establish a Regional Cycling Map
- Participated in the Naramata town hall meeting
- Installed the 'Bud Butler Equestrian Arena' sign and hard landscape at Selby Park; West Bench
- Completed facility renovations at: Mariposa Park West Bench and the Kaleden Community Hall kitchen
- Completed significant cleanup activities as a result of winter snow storm damage
- Park winterizations
- Preparing for 2015 Budget submissions
- Working with the Village of Keremeos and the BC Govt. to amend the Similkameen Rail Trail Lease
- Licence of Occupation application for Electoral Areas A & C KVR parcels

1.2. Rural Projects

- Continued discussions with partners on the Frank Venables Auditorium Agreement; Oliver
- Lease agreement administration for Olalla Trailhead Park
- Participated in the Hedley Community pancake breakfast event
- Met with PIB Council and continued work on the Feral Horse issue

1.3. Transit, Heritage and Culture

- Completed second round of Public Engagement (Transit Future Bus) for the Transit Future Study
- Met with representatives from OIB, PIB and LSIB regarding First Nations consultation/input into the Transit Future plan
- Presented to OIB, PIB and LSIB Chief and Councils regarding participation in the Regional Heritage Strategic Plan (RHSP)
- Met with En'owkin Centre reps to coordinate a First Nations public open house for the RHSP
- Conducted one-on-one interviews for the RHSP at public events such as the Farmer's Market
- Continued discussions with Heritage Branch regarding Granite Creek near Coalmont

1.4. Economic Development

- Led the RDOS-wide SOSED group to identify regional economic development projects

- Worked on advertising and promotional materials for Gateway magazine & South Okanagan Relocation Guide
- Completed information overhaul of regional profile
- Actively supported the launch of the Canadian Centre for Business Growth
- Supported the development of a regional cycling map

2. Planned Activities for Q1 2015

2.1. Parks, Recreation and Trails

- Signage plan to MoTI on the KVR bypass trails; Town of Osoyoos to head of Osoyoos Lake, Kaleden, Okanagan Falls and Cawston
- Continue park inventory process with South Okanagan Similkameen Conservation Program
- Tendering and construction of Lake Hill Road; Kaleden roadside pedestrian corridor projects
- Detailed review of existing park bylaws
- Continue negotiations for the VV&E (Similkameen) Rail Trail east of Keremeos
- Skaha Lake Foreshore application for Okanagan Falls waterfront pathway
- Complete a Regional Cycling Map for publishing throughout the Regional with tourism partners
- Consolidated Park maintenance planning
- Kaleden KVR Phase 2 resurfacing Alder to PIB RFP
- Introduction of Trails Maintenance Standards and RDOS Trail Steward Management agreements

2.2. Rural Projects

- Crown Land Tenure Applications – KVR South Spur Electoral Areas A and C
- Secure MoTI lake access points at Okanagan Falls
- West Bench Veterans Tribute Project at Selby Park – Complete permanent information boards and final grant reporting
- Renewal of the Oliver Recreation Service Agreement

2.3. Transit, Heritage and Culture

- Complete final draft of the Regional Transit Future Study document
- Signage updates for the Naramata Transit Service
- Present draft Regional Heritage Strategic Plan to public and continue First Nations engagement
- Promotion and startup of the Electoral Area D East Transit Service

2.4. Economic Development

- Start the implementation of phase 2 of Town Centre revitalization initiative
- Work with SO-SED partners to prioritize identified regional economic development initiatives
- Work regionally to develop a regional economic development action plan
- Host industrial land development workshop in Okanagan Falls
- Complete community and regional advertising and promotional materials for identified publications

Respectfully submitted:



M. Woods, Manager of Community Services



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Environment and Infrastructure Committee

Thursday, January 22, 2015

9:30 a.m.

REGULAR AGENDA

A. APPROVAL OF AGENDA

B. DELEGATIONS

1. Lisa Scott, Invasive Plant Program Coordinator

Okanagan and Similkameen Invasive Species Society (OASSIS)

Ms. Scott will be giving a presentation to the Board that will provide detail on OASSIS' 2014 accomplishments, plans for 2015 and a brief on a RBC Blue Water grant application to assist with Zebra and Quagga Mussel education/prevention.

C. Fourth Quarter Activity Report – For Information Only

D. Apex Water Transfer Station Update

1. Map of Apex Area
2. Map of Waste Transfer Station

E. Organics Management Site Assessments – For Information Only

1. Report from Tetra Tech EBA Inc.
2. PowerPoint Presentation

F. ADJOURNMENT

ADMINISTRATIVE REPORT



TO: Environment and Infrastructure Committee

FROM: B. Newell, Chief Administrative Officer

DATE: January 22, 2015

RE: Fourth Quarter Activity Report – For Information Only

1.0 PUBLIC WORKS - OPERATIONS

ACTIVITIES FOR Q4 2014:

SOLID WASTE

- Implementation of Waste Disposal Permit applications for RDOS owned landfills.
- Consultation of Waste Stream Management License Bylaw for Composting Facilities.
- Apex Transfer Station sub-lease development with Apex Mountain Resort.
- Assisting in Bear Aware program.
- Negotiations with MMBC for the Depot program set-up.
- Public consultation for the Waste Management License bylaw for Composting.
- Award of the Scrap Metals, ODS, Battery Recycling contract.
- Contract extension for Household Hazardous Waste facility.

WATER

- Quarterly Water meter reading in Sage Mesa Water system.
- Fire Hydrant Maintenance for West Bench Water system.
- Water sampling and reporting for all RDOS water systems.
- Documentation for Annual Water Quality reports for IHA.
- Naramata Dams maintenance.
- Naramata water Fire Hydrant Maintenance.
- Gallagher Lake water and sewer activation.
- Loose Bay campground water supply season shut down.

SEWER

- Monitoring and sampling at OK Falls WWTP and Okanagan River Channel.

PLANNED ACTIVITIES FOR Q1 2015:

SOLID WASTE:

- Orchard chipping programs ongoing.
- Metals, ODS, Batteries contract underway.
- Continued implementation of MMBC programs.

WATER & SEWER

- Monitoring operations of Okanagan Falls WWTP.
- Water sampling for Faulder, Naramata, Olalla, West Bench, Sage Mesa, Gallagher Lake.
- Working on Water Emergency Response plans.

2.0 PUBLIC WORKS - ENGINEERING SERVICES

ACTIVITIES FOR Q4 2014:

SOLID WASTE

- Working on the Landfill Emergency Response Plans.
- Design for landfill gas removal system still underway as well as investigation of other landfill gas mitigation strategies
- Completed the design for MMBC Mega Bag recycling structures and MMBC roll-off bin requirements with a presentation to the Board.
- Apex Transfer Station sub-lease development with Apex Mountain Resort. Initial site survey complete.
- Worked on Operational Certificate for Campbell Mountain Landfill.
- Worked on Operational Certificate for Keremeos Transfer Station.

WATER

- Apex Circle – Waiting for all signatures for final plans to be registered with Land Titles.
- Naramata Water System Capital Plan and DCCs – Capital plan and DCC review ongoing.
- Naramata Watermain replacement along Arawana Road – Construction completed with a few remaining landscaping and asphalt items for the Spring of 2015
- Naramata backup power supply – Detailed design is 90% complete. Information was presented to the community in November. Design will be completed when confirmation of funding is received.

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- Naramata hydrant – 5 hydrants have been installed. Work is complete.
 - Faulder Water Supply Options – Final grant agreement was received. Well siting study was initiated for determination of optimal location for new supply well.
 - West Bench Water Supply Pipeline and Pathway – Decommissioning plan of old pumphouse is underway. Permit applications are being completed for work near and in the water.
 - West Bench Water System – Development of a water conservation report is underway.
 - Willowbrook water utility – Assessment of water system is in progress.
 - 2014 RBC Blue Water grant project ongoing.
 - 2014 OBWB Regional Water Use and Conservation Bylaw project RFP for a consultant was completed.
 - 2014 OBWB Water Ambassador Program ongoing.

WASTEWATER

- Okanagan Falls Wastewater Treatment Plant – Completion of the boundary adjustment subdivision.
- Gallagher Lake sewers – Infrastructure for sewer turn over to RDOS on July 1, 2014.
- Conceptual Sewer Design for Small Areas within Okanagan Falls and Gallagher Lake – conceptual design underway
- Preliminary Design for Kaleden Lakeshore and Skaha Estates Sewering – Preliminary design initiated; a draft design presented to potential steering committee members for feedback. Revisions are underway.

OTHER PROJECTS

- Similkameen Watershed Water Quantity/Quality Sustainability Plan – Phase 2 of the project is underway.
- Design for the demonstration garden in the front gardens of the Regional District of Okanagan-Similkameen office is complete and waiting for spring for implementation.
- Safety Talk guide completed.
- Worked on facilities Inspection list.

PLANNED ACTIVITIES FOR Q1 OF 2015:

SOLID WASTE

- CML Gas Management Facility –Landfill gas capture system design is ongoing; Prepare application for alternate gas management option of using biocover .
- Apex Transfer Station Design – on hold pending response from Apex Mountain Resort
- Landfill Emergency Response Plan preparation is ongoing

-
- Installation of MMBC Mega Bag recycling structures will be initiated
 - Completion of Keremeos Transfer Station and Campbell Mountain Landfill Operation Certificates.

WATER

- Apex Circle – Registration of required easements and right-of-ways.
- Naramata Water System Capital Plan and DCC's – Continue with project scope.
- Naramata Watermain along Arawana Road construction – landscaping items and asphalt work to be completed in spring 2015
- Naramata Metering Pilot Project – Meter reading continues and water usage summary will be sent out.
- Naramata backup power supply – Pending budget approval, the design will be completed and tendering documents can be prepared.
- Faulder Water Supply Options – Installation of new well at identified site is anticipated, Preparation of ROW documents for the new well location will be initiated. An RFP for the design of the remaining upgrade items (i.e. electrical, instrumentation, piping, etc.) will be released for proposal responses. Uranium treatment system ordering will be initiated.
- West Bench Water System capital upgrade– Tendering for the decommissioning of the old pumphouse will be completed; demolition work to be completed by end of Q3 in 2015
- Complete West Bench Water Conservation Report and bring it to the Board for endorsement.
- West Bench Water Meters Project – Meter reading to continue; prepare and send out a water use summary report to the residents.
- Willowbrook water utility – Assessment of water system to be completed.
- 2014 RBC Blue Water grant project underway.
- 2014 OBWB Water Conservation Improvement Grants- continue with project scope for Water Ambassador and Regional Water Bylaws.

WASTEWATER

- Okanagan Falls Wastewater Treatment Plant – Decommissioning of old wastewater treatment plant postponed until 2015 if budget is available.
- Conceptual Sewer Design for several areas in Okanagan Falls and Gallagher Lake – Conceptual design of the sewers for the areas will be completed.
- Gallagher Lake water and sewer systems service petitions is ongoing.
- Preliminary Design for Kaleden Lakeshore and Skaha Estates Sewering – Preliminary design will be completed; steering committee will be selected and design will be selected by committee. Information will be prepared for residents. New Building Canada Fund grant application will be submitted.

OTHER PROJECTS

- Similkameen Watershed Water Quantity/Quality Sustainability Plan – Phase 2 of the project will continue as proposed.
- Preparations for the demonstration garden in the front gardens of the office will be initiated; waiting for spring for implementation.

Respectfully submitted:

“Doug French”

D. French, Public Works Manager

ADMINISTRATIVE REPORT



TO: Environment and Infrastructure Committee

FROM: B. Newell, Chief Administrative Officer

DATE: January 22nd, 2015

RE: Apex Waste Transfer Station Update

Administrative Recommendation:
FOR INFORMATION ONLY

Reference:
[RDOS Solid Waste Management Plan Webpage](#)

History:

The lease agreement for the operation of the Campbell Mountain Landfill with the City of Penticton requires that homes in the RDOS using the facility have access to residential recycling services. Currently the only significant area of homes within the Campbell Mountain service without curbside collection of recyclables is the Apex Mountain Ski area.

In 2006 the RDOS struck a committee to look at options on any Crown Land areas downhill from the resort that could be used for a waste transfer station. This included an inactive gravel pit and a small pullout. Discussions with Engineers and the Ministry of Transportation showed that these sites could only be used with major upgrades to roads and electrical infrastructure. Curbside collection options were also explored but were deemed cost prohibitive and too difficult to use by residents.

In 2009, employees at Apex Mountain Resort approached the RDOS to offer a potential area for the development of a waste transfer station near the Apex commercial center. Significant public consultation with local property owners was undertaken for the creation of a Waste and Recycling Transfer Station at Apex Mountain Resort. The consultation showed local support for creating the facility at the location. The RDOS included this project in the 2012 Solid Waste Management Plan and created a local service area to fund the project.

In 2013 the owners of the Apex Mountain Resort stated they would no longer support the development of a waste transfer station at the proposed site. The lease agreement, signed by Apex, was not executed by the RDOS. After some discussion several new areas, near the Old Gunbarrel, were presented by Apex Mountain Resort. After speaking with the Ministry of Transportation and the Mountain Resorts Branch of the Ministry of Forests, Lands and Natural Resource Operations, RDOS Staff have recommended one site for the placement of the Apex Waste Transfer Station. Two maps of this site have been included with this report. An advisement was sent to all property owners and presented in 2014 at a public meeting hosted by RDOS Development Services.

Analysis:

RDOS Staff are awaiting confirmation that Apex Mountain Resort will support this revised location for the development of a Waste Transfer Station. The proposed station is currently within the lease area held by Apex Mountain Resort and no construction can proceed without their approval. At this time, Apex Mountain Resort has not provided a timeline when they will respond and have requested no negotiations proceed at this time.

RDOS Public Works has worked with RDOS Finance to develop a 2015 Budget for this service that will minimize the taxes collected while still allowing for the project to proceed. If the project does not proceed, any

additional funds would be reimbursed to tax payers. If it does proceed the RDOS Public Works will work to develop a user fee bylaw and a recommended revised budget.

RDOS Public Works has indicated to RDOS Development Services that the Solid Waste Management Plan would be opposed to any new residential development proceeding at Apex Mountain Resort without a waste transfer station being in operation. This information has been provided to the consultants developing the revised Electoral Area 'D-1' Official Community Plan which is currently undergoing public consultation.

Respectfully submitted:

"Doug French"

D. French, Public Works Manager



Legend

- Major Highways
- Electoral Area Boundaries
- Internal Parcels
- Interior Lot Lines
- Indian Reserve
- Parks
- Streams
- Small Lakes

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■ Red: Band_1

■ Green: Band_2

■ Blue: Band_3

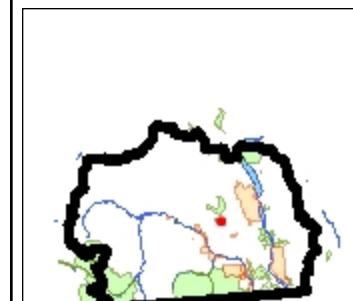
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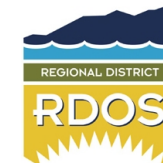
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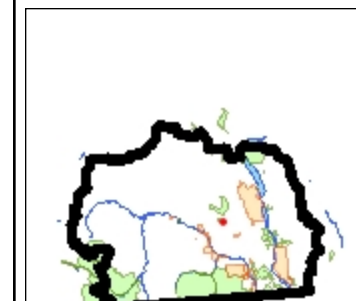


OKANAGAN-SIMILKAMEEN
RDOS Map

Legend

- Major Highways
- Electoral Area Boundaries
- Internal Parcels
- Interior Lot Lines
- Indian Reserve
- Parks
- Streams
- Small Lakes

1: 2,206



112.1 0 56.04 112.1 Meters

NAD_1983_Albers
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ADMINISTRATIVE REPORT



TO: Environment and Infrastructure Committee

FROM: B. Newell, Chief Administrative Officer

DATE: January 22nd, 2015

RE: Organics Management Site Assessments

**Administrative Recommendation:
FOR INFORMATION ONLY**

History:

The RDOS Solid Waste Management Plan recognizes that between 30-50% of waste being landfilled is organic waste. This waste includes food waste, yard waste and compostable paper and wood. The Plan calls for the development of local facilities that can divert organic waste from local landfills in a sustainable and cost efficient manner.

In 2014 the RDOS hired Tetra Tech EBA to determine the cost of creating or improving composting facilities at properties owned by local governments. These properties include 7 landfill sites, 1 site within the Town of Princeton and 1 site west of Keremeos within Electoral Area "G".

Analysis:

Tetra Tech has presented a report 'Organic Management Consultant Task 1 – Site Assessment' detailing the initial assessment of the 9 sites and the potential materials available for composting. The report found that the undeveloped property west of Keremeos had limited suitability for conducting a feasibility study at this time due to potential for endangered species, Agricultural Land Reserve requirements, potential unstable slopes and other identified issues. The other 8 properties did present opportunities for composting and feasibility studies can be conducted to see the odour potential and cost of operations.

Respectfully submitted:

"Doug French"

D. French, Public Works Manager

ORGANIC MANAGEMENT CONSULTANT TASK 1 – SITE ASSESSMENT



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EXECUTIVE SUMMARY

Tetra Tech EBA Inc. (Tetra Tech EBA) was retained by the Regional District of Okanagan – Similkameen (RDOS) to assist the RDOS in assessing the feasibility of locating organic management facilities at nine (9) publically owned properties.

The RDOS is in the midst of revamping its solid waste management system and has been exploring enhancing its organics collection and processing. Most recently, the RDOS has embarked on a multi-year project to develop an 'apples to apples' comparison between publically and privately operated compost facilities.

The objective of this report is to present relevant information on each of the nine (9) sites that will assist RDOS with site selection for potential organics processing facilities. The results of site assessments will be used to guide the feasibility study for each site.

The assessments involved site visits to each of the sites as well as a review and compilation of information about each site provided by the RDOS, such as operational certificates, scale data and annual reports. Research was also conducted to identify key considerations for site selection, such as existing curbside collection programs, proximity of odour receptors, and available assets on site. Annual tonnages of source-separated organics currently received and potential organics feedstock (i.e., food waste and compostable paper currently in Municipal Solid Waste [MSW]) were estimated for each site. These tonnages are presented in the body of the report and appendices.

Overall, this assessment found that all sites except for the Keremeos Greenfield Site would be potentially feasible for organics processing. Although there is land available at the Keremeos Greenfield Site, due to environmental sensitivity, potential slope instability, and long transport distance, we do not recommend a feasibility study for that site. At the majority of sites, future expansion of composting facilities may need to fit into the current area designated for composting at the site to meet environmental setback requirements. The information presented in this report can be used to guide feasibility studies for selected sites.

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APPENDIX SECTIONS

TABLES

Table 10 Regional District of Okanagan-Similkameen Facility Summary

APPENDICES

Appendix A Tetra Tech EBA's General Conditions

Appendix B Site Assessment Reports

ACRONYMS & ABBREVIATIONS

Acronyms/Abbreviations	Definition
ALR	Agricultural Land Reserve
BC	British Columbia
DLC	Demolition and Land Clearing
ICI	Institutional, Commercial, and Industrial
Green Waste	Leaf and Yard Waste
Ha	Hectare
MMBC	Multi-Materials British Columbia
MSW	Municipal Solid Waste
RDOS	Regional District of Okanagan-Similkameen
SWM	Solid Waste Management
Tetra Tech EBA	Tetra Tech EBA Inc.

LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Regional District of Okanagan – Similkameen and their agents. Tetra Tech EBA Inc. (Tetra Tech EBA) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Regional District of Okanagan – Similkameen, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech EBA's Services Agreement. Tetra Tech EBA's General Conditions are provided in Appendix A of this report.

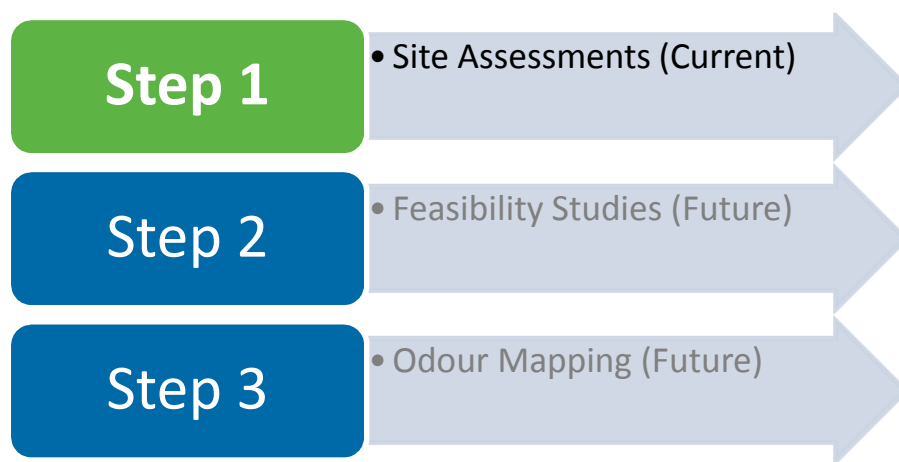
1.0 INTRODUCTION

Tetra Tech EBA Inc. (Tetra Tech EBA) was retained by the Regional District of Okanagan – Similkameen (RDOS) to assist the RDOS in assessing the feasibility of locating organic management facilities at nine (9) publically owned properties.

The RDOS is in the midst of revamping its solid waste management system and has been exploring enhancing its organics collection and processing. Organic waste refers to the biodegradable materials in the waste stream that are easy to break down by microorganisms. Organic waste generally includes food waste, leaf and yard waste (green waste), white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste.

In 2010, the RDOS completed a Regional Organics Waste Management Strategy which looked at potential organics management options and their associated costs. In the same year, the Region began updating its Solid Waste Management (SWM) Plan which included calls for upgrading biosolids and yard waste composting practises and eventually banning landfill disposal of food waste. Most recently, the RDOS embarked on a multi-year project to develop an ‘apples to apples’ comparison between publically and privately operated compost facilities.

Phase 1 in developing the ‘apples to apples’ comparison includes completing a feasibility study for developing or expanding organic waste management at nine (9) publically owned sites. The feasibility study is being undertaken as a three (3) step process as summarized below. This report comprises Step 1 of the feasibility study and provides valuable information that will be utilized during Step 2 and Step 3. The objective of the first step (site assessments) is to collect, review, and present relevant information on each of the sites that will help RDOS with site selection for potential organics processing facilities. The results of site assessments will be used to guide the feasibility study for each site.



2.0 SITE OVERVIEW

The following sites were visited by Tetra Tech EBA staff and Impact Bioenergy Staff on April 14, 2014 and April 15, 2014. Site names and locations are listed in Table 1. Site locations are shown in Figure 1.

Table 1: Site Locations

Site	Location
Campbell Mountain Landfill	5 km northeast of City of Penticton, 1.2 km east of Okanagan Lake
Okanagan Falls Landfill	4 km east of the Unincorporated Community of Okanagan Falls
Summerland Landfill	4 km southwest of the District of Summerland
Oliver Landfill	6 km south of the Town of Oliver
Osoyoos Landfill	5 km northwest of the Town of Osoyoos
Princeton Landfill	1.5 km northeast of the Town of Princeton
Princeton Hayfield Site	1.6 km east of the Town of Princeton
Keremeos Transfer Station	2 km north of the Village of Keremeos
Keremeos Greenfield Site	8 km west of the Village of Keremeos

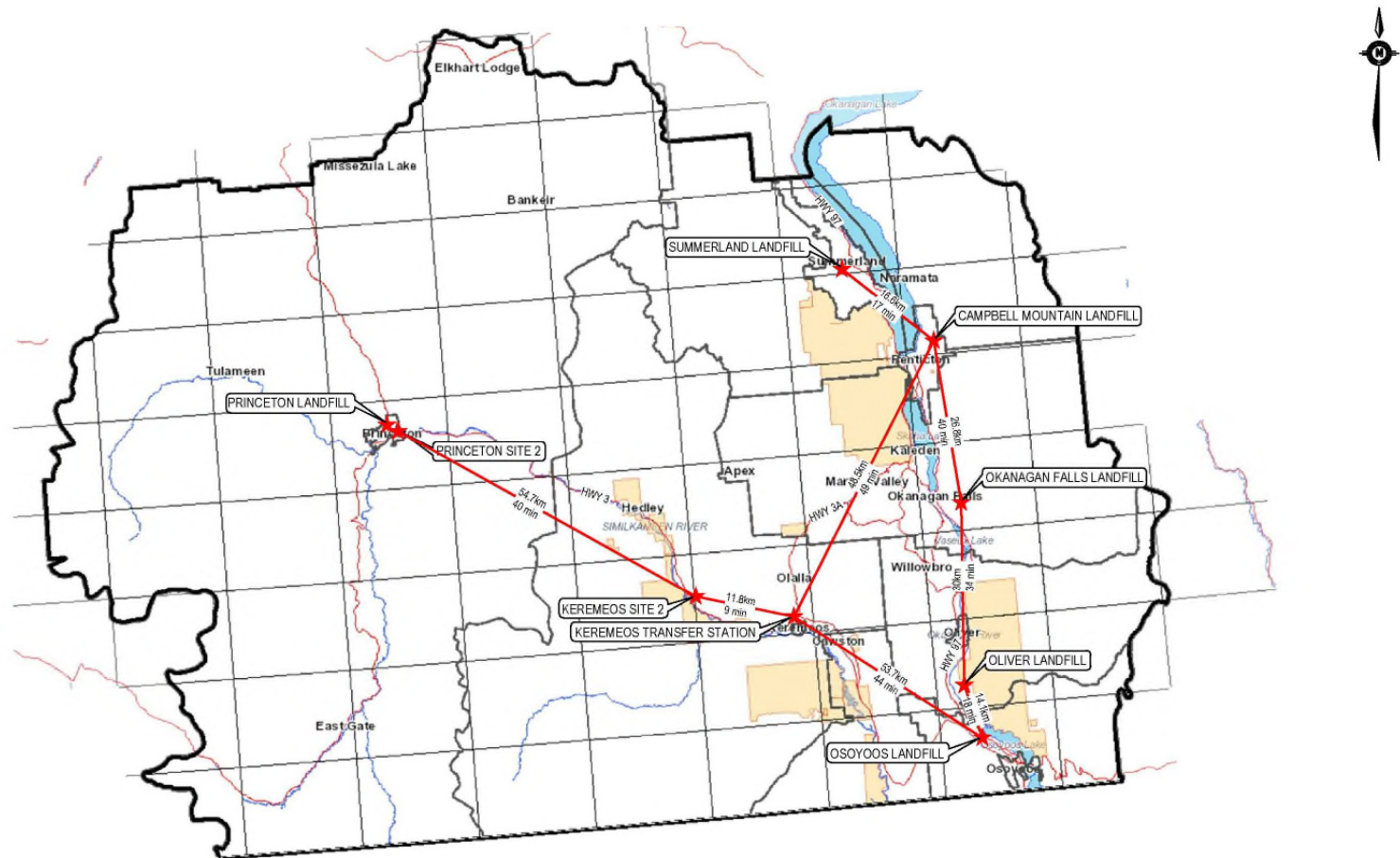


Figure 1: Landfill Site Location Plan

2.1 Service Population

The sites are oriented in a network of population clusters. The Penticton-Summerland area represents the greatest concentration of people, and therefore waste generation rates, in the District. The next cluster of population is in the Okanagan Falls, Oliver, and Osoyoos area. Princeton and Keremeos have the smallest populations and are in more remote areas as well. Seasonal population variations are expected in the summer period (June, July, and August) and will produce significantly more organic waste. The seasonal agricultural period (June through November) is expected to also generate significant crop and harvest organic waste.

The estimated population in the RDOS for 2031 is approximately 100,000 residents (Table 2). It was assumed that population growth across the different service areas in the RDOS is consistent, estimated to be 1.1% per year.

Table 2: Service Population and 20 Year Forecast

Site	Service Area	Population in 2011 ¹	Population in 2031 ¹
Campbell Mountain Landfill	Penticton and Electoral Areas D, E, and part of F	42,311	52,659
Summerland Landfill	Summerland and part of Electoral Area F	12,579	15,656
Okanagan Falls Landfill ²	Campbell Mountain and Keremeos Transfer Station Service Areas	N/A	N/A
Oliver Landfill	Oliver and Electoral Area C	8,925	11,108
Osoyoos Landfill	Osoyoos and Electoral Area A	6,737	8,385
Princeton Landfill	Princeton and Electoral Area H	4,492	5,591
Keremeos Transfer Station ³	Keremeos and Electoral Areas B and G	5,103	6,351
Total		80,147	99,749

Notes:

¹ Population based on the 2011 census. Projection to 2031 based on 1.1% growth rates per year. Accessed on August 26, 2014 at (<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>).

² Okanagan Falls Landfill operates as a regional demolition and land clearing (DLC) landfill.

³ Materials collected at the Keremeos Transfer Station are hauled to Campbell Mountain Landfill.

3.0 SITE ASSESSMENT SUMMARY

Individual reports were written for each site assessment and included in Appendix B. The following sections highlight key information about the sites. A summary table of all information discussed in this section can be found in Table 10.

3.1 Current Solid Waste Management Activities

3.1.1 Single-Family Residential Collection

Most municipalities have curbside collection of Municipal Solid Waste (MSW), recyclables (paper, glass, and metal), and yard waste from single-family homes. No municipalities currently have a curbside food scraps collection program. Single-family residential service includes detached homes, duplexes, and townhouses. Garbage is collected weekly and recycling is collected bi-weekly (with the exception of Princeton where it is weekly). Yard waste is collected seasonally, typically from March to November either monthly or biweekly. Homes outside of collection service areas (e.g., Electoral Area H) haul their own waste to the nearest landfill or transfer station. Curbside collection quantities, areas served frequency of pick-up, and accepted recycling materials are summarized in Table 3.

Table 3: Curbside Collection Quantities, Frequency, and Accepted Materials

Site	Collection Area	Curbside (tonnes/year)			Collection Frequency and Accepted Materials for Recycling		
		Recycling	Yard Waste	Garbage	Garbage	Recycling	Yard Waste
Campbell Mountain Landfill	City of Penticton ¹	1,224	1,176	4,076	Weekly curbside	Bi-weekly curbside MMBC	Bi-weekly curbside March 1 to November 30
	Village of Keremeos, Electoral Areas B and G ²	179	66	804	Weekly curbside	Bi-weekly curbside MMBC	Monthly curbside March 1 to November 30
	Electoral Areas D, E, F (West Bench) ²	355	445	1,506	Weekly curbside	Bi-weekly curbside MMBC	Bi-weekly curbside March 1 to November 30
	Penticton Indian Band	No data	N/A	No data	Weekly curbside	Weekly curbside MMBC	No collection
	Lower Similkameen Indian Band	No data	N/A	No data	Weekly curbside	Weekly curbside	No collection
	Upper Similkameen Indian Band	No data	N/A	No data	Weekly curbside	Weekly curbside MMBC	No collection
Summerland Landfill	District of Summerland ²	418	318	1,495	Weekly curbside	Bi-weekly curbside MMBC	10 times per year
	Electoral Area F (North Beach, Faulder)	N/A	N/A	N/A	No collection	No collection	No collection
Oliver Landfill	Town of Oliver ²	190	157	587	Weekly curbside	Bi-weekly curbside MMBC	Bi-weekly curbside March 1 to November 30
	Electoral Area C ²	112	46	542	Weekly curbside	Bi-weekly curbside MMBC	Monthly curbside March 1 to November 30
	Osoyoos Indian Band	No data	N/A	No data	Weekly curbside	Weekly curbside	No collection
Osoyoos Landfill	Town of Osoyoos ²	142	181	476	Weekly curbside	Bi-weekly curbside MMBC	Bi-weekly curbside March 1 to November 30
	Electoral Area A ²	85	51	411	Weekly curbside	Bi-weekly curbside MMBC	Monthly curbside March 1 to November 30
Princeton Landfill	Town of Princeton ³	No data	No data	No data	Weekly curbside with ICI collection	Weekly curbside with ICI collection	No collection
	Electoral Area H	N/A	N/A	N/A	Self-haul stickers provided	No collection	No collection
Total		2,705	2,440	9,897			

Notes:

¹ 2012 Collection Data from RDOS

² Average of 2012 and 2013 Collection Data from RDOS

³ Princeton Landfill scale installed 2014; no weight data available

MMBC - Multi-Materials British Columbia

3.1.2 Multi-Family and Commercial Services

Pick-up of garbage from multi-family homes and the institutional, commercial, and industrial (ICI) sector is done by private contractors. In the City of Penticton, District of Summerland, and Town of Oliver, there is a voluntary multi-family recycling collection program. Multi-family recycling collection is mandatory in Osoyoos. The only landfill that separates commercial waste as its own category is Osoyoos Landfill; for all other sites, estimates of commercial waste were made based on annual reports. Estimates of commercial waste disposed are listed in Table 4.

Table 4: Commercial Waste Quantities Disposed

Site	Commercial Waste (tonnes/year)
Campbell Mountain Landfill	17,542 ¹
Summerland Landfill	1,792 ²
Okanagan Falls Landfill	N/A ³
Oliver Landfill	3,916 ⁴
Osoyoos Landfill	1,853 ⁵
Princeton Landfill	1,035 ⁶
Total	26,155

Notes:

¹ 2013 Operations and Monitoring Report Campbell Mountain Landfill, March 2014. Assumed commercial waste is total landfilled minus residential waste.

² Summerland Landfill scale data, 2013. Assumed that 60% of self-haul MSW is commercial waste.

³ Okanagan Falls Landfill only accepts DLC waste.

⁴ 2013 Operations and Monitoring Report Oliver Landfill, March 2014. Assumed commercial waste is total landfilled minus residential waste.

⁵ 2013 Operations and Monitoring Report Osoyoos Landfill, March 2014.

⁶ Assumed that 40% of total MSW is commercial waste.

3.1.3 Total Municipal Solid Waste

The total amount of waste that is landfilled at each site is summarized in Table 5. This includes waste from all sectors (residential, ICI, and DLC).

Table 5: Total Municipal Solid Waste Quantities

Site	MSW (tonnes/year)
Campbell Mountain Landfill	23,475 ¹
Summerland Landfill	4,574 ²
Okanagan Falls Landfill	2,042 ³
Oliver Landfill	5,051 ⁴
Osoyoos Landfill	4,081 ⁵
Princeton Landfill	2,632 ⁶
Total	41,854

Notes:

¹ 2013 Operations and Monitoring Report Campbell Mountain Landfill, March 2014.

² Summerland Landfill scale data, 2013.

³ 2013 Operations and Monitoring Report Okanagan Falls Landfill, March 2014.

⁴ 2013 Operations and Monitoring Report Oliver Landfill, March 2014.

⁵ 2013 Operations and Monitoring Report Osoyoos Landfill, March 2014.

⁶ Estimated using average per capita generation from Oliver and Osoyoos in 2013.

3.2 Organics Management

Five (5) sites (Campbell Mountain Landfill, Summerland Landfill, Okanagan Falls Landfill, Oliver Landfill, and Osoyoos Landfill) have composting facilities and an active source separation system for leaf and yard waste (green waste) and white wood. Three (3) sites (Campbell Mountain Landfill, Summerland Landfill, and Okanagan Falls Landfill) also compost biosolids from local wastewater treatment plants with chipped organics in aerated static piles or turned windrows. The compost technology used at each site is shown in Table 6. The compost products are used on site and sold to the public. At the Oliver Landfill, harvest/fruit waste is also composted. Princeton Landfill and Keremeos Transfer Station have a source separation system for green waste and white wood. They are grinded periodically by private contractors. The quantities of chipped organics are small, and they are used on site, transported to local agricultural operations, or in the case of Keremeos Transfer Station, transported to Campbell Mountain Landfill. The estimated annual quantities of organics processed at each facility are shown in Table 6.

The quantities of organics are primarily based on scale weights for each site from 2013 or 2014. In some cases (particularly for wood waste), scale weights were not available. For most white wood estimates, data was given in cubic metres (for chipped wood) and converted to tonnes, assuming an average density of 200 kg/m³. There are a range of densities for chipped wood waste. The RDOS has a rule of thumb for chipping contracts that assumes a density of 170 kg/m³ to 180 kg/m³. Conversion estimates made by Conestoga-Rovers and Associates (CRA) in 2011 for the RDOS assumed a slightly higher density of 227 kg/m³. The United States Environmental Protection Agency (US EPA) uses 297 kg/m³ for shredded wood waste, which is the same as the conversion estimate used by the RDOS in 2010. To be conservative with the tonnage estimates, an average between the RDOS rule of thumb and CRA conversion estimate was used.

Table 6: Compost Technology and Quantities of Organics Materials

Site	Composting Technology	Currently Composted (tonnes/year)					Additional Feedstock Available to Compost (tonnes/year)				Total Available Organics (tonnes/ year)
		Green Waste	Harvest Waste	White Wood	Biosolids	Total Composted	Estimated Food Waste and Compostable Paper from MSW ¹	Green Waste	White Wood	Hog Fuel	
Campbell Mountain Landfill	Aerated static pile and turned windrow	6,473 ²	No data	1,400 ⁷ (7,000 m³)	1,031 ²	8,904	6,104	N/A	3,819 ¹² (19,094 m³)	N/A	18,827
Summerland Landfill	Turned windrow	3,899 ³	No data	N/A	832 ³	4,731	1,189	N/A	780 ³	N/A	6,700
Okanagan Falls Landfill	Turned windrow	1,176 ⁴	No data	N/A	90 ⁴	1,266	N/A ⁸	N/A	1,271 ¹² (6,356 m³)	N/A	2,537
Oliver Landfill	Turned windrow	1,997 ⁵	674 ⁵	N/A	N/A	2,671	1,313	N/A	1,174 ¹² (5,868 m³)	N/A	5,158
Osoyoos Landfill	Turned windrow	832 ⁶	3 ⁶	N/A	N/A	835	1,061	N/A	224 ⁶	N/A	2,120
Princeton Landfill	None (chipped)	N/A	N/A	N/A	N/A	0	684	415 ¹⁰	696 ¹⁰	1,536 ¹³ (7,680 m³)	3,331
Keremeos Transfer Station	None (grinded or transported to Campbell Mountain Landfill)	N/A	N/A	N/A	N/A	0	N/A ⁹	501 ¹¹	317 ¹² (1,586 m³)	N/A	818
Total		14,377	677	1,400	1,953	18,407	10,351	916	8,281	3,072	39,491

Notes:

¹ Assumed to be 26% of MSW (40% of total MSW quantity is food waste of which 65% is diverted). This is based on the assumptions in the RDOS Solid Waste Management Plan (2011).

² Campbell Mountain Landfill scale data, 2013.

³ Summerland Landfill scale data, 2013.

⁴ Okanagan Falls Landfill scale data, 2013.

⁵ Oliver Landfill scale data, 2013.

⁶ 2013 Operations and Monitoring Report Osoyoos Landfill, March 2014.

⁷ Estimate of 2,800 m³ white wood composted at City of Penticton composted facility. Assumed density of 200 kg/m³.

⁸ DLC waste only, no food waste.

⁹ MSW from Keremeos is transferred to Campbell Mountain Landfill so it is included with Campbell Mountain Landfill tonnages.

¹⁰ Estimate for 2009 from Regional Organic Waste Strategy, December 2010, adjusted for population increase from 2009 to 2013.

¹¹ Keremeos Transfer Station scale data, 2014 (May to September). Extrapolated remaining months using average monthly variation at Campbell Mountain, Oliver, Osoyoos, and Summerland.

¹² Average chipped white wood (m³) from 2009 to 2013 provided by chipping contractor because white wood quantities change by year. Assumed density of 200 kg/m³. For Campbell Mountain, this is the difference between the total chipped white wood and the amount taken by City of Penticton for composting.

¹³ Estimate of 7,680 m³ of hog fuel provided by Weyerhaeuser mill. Assumed density of 200 kg/m³.

3.3 Site Considerations for Future Expansion

There is land available for future expansion of organics processing facilities at Summerland Landfill, Campbell Mountain Landfill, Oliver Landfill, Princeton Hayfield Site, and Keremeos Greenfield Site. For all other sites, the organics processing facilities will need to fit into the current area designated for composting at the site. Available land for future expansion for each site is shown in Table 7. Summerland Landfill has the largest amount of undeveloped land (approximately 41 Ha) available for future expansion. Campbell Mountain Landfill has approximately 16 Ha of land available for expansion, however it would require a large capital expense to relocate a road adjacent to the landfill and therefore, unlikely to happen. Furthermore, due to the need to realign the road, presence of steep slopes, and exposed bedrock, the amount of usable land would decrease considerably. At Oliver Landfill, approximately 0.83 Ha of undeveloped land is available. All available land at the Princeton Hayfield Site and Keremeos Greenfield Site can be used for building a composting facility as both sites are currently undeveloped.

Potable water sources are available at all sites (typically brought in by truck) except for the Princeton Hayfield Site, Keremeos Transfer Station, and Keremeos Greenfield Site. Three-phase power is available at all landfill sites and the Keremeos Transfer Station. Although the Princeton Hayfield Site and Keremeos Greenfield Site do not have power, there are power lines nearby.

Table 7: Site Area and Assets

Site	Property Size (Ha)	Area of Current Organics Processing Facility (Ha)	Available Land for Future Expansion (Ha)	Is Potable Water Available? On or Off Site?	Is 3 Phase Power Available?
Campbell Mountain Landfill	59.5	13.9	16 ¹	Yes, off site	Yes
Summerland Landfill	146	0.57	41	Yes, off site	Yes
Okanagan Falls Landfill	8.2	0.48	0	Yes, off site	Yes
Oliver Landfill	13.8	0.6	0.83	Yes, off site	Yes
Osoyoos Landfill	14	0.52	0	Yes, off site	Yes
Princeton Landfill	24.2	0.33	1.6	Yes, off site	Yes
Princeton Hayfield Site	97	N/A	97 (approx. 70 Ha outside of ALR)	No	No, but power line close by
Keremeos Transfer Station	8	0.06	0	No	Yes
Keremeos Greenfield Site	26	N/A	26 ²	No	No, but power line close by

Notes:

¹ This land is unlikely to be feasible for expansion as it requires the costly realignment of a road. The land also has steep slopes and exposed bedrock which further reduces its usability.

² Presence of steep slopes and potential slope stability issues may limit the amount of land that can be used.

ALR – Agricultural Land Reserve

3.4 Environmental Considerations

A composting facility is considered a “storage site” under the Organic Matter Recycling Regulation (the Regulation) (British Columbia [BC] Reg. 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes. If organics processing were to take place within the current composting facility areas of existing landfills, they should fulfill the setback requirements under the Regulation. However, if organics processing were to take place in undeveloped areas, they may be within an Agricultural Land Reserve (ALR), Watercourse Development Permit Area, and/or Environmentally Sensitive Habitat Development Permit Area (Table 8). Wildlife protection for bear and cougar habitats was noted as a consideration for the Okanagan Falls Landfill due to the close proximity of a wildlife reserve. If development were to take place in these areas, additional permits and/or approvals may be required.

Due to the generally dry climate in the RDOS, leachate generation is expected to be minimal for all sites. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

Although the Regulation does not determine a distance compost sites should be away from airports, the landfill criteria for MSW requires an 8 km buffer for landfills. Campbell Mountain Landfill, Oliver Landfill, Osoyoos Landfill, Princeton Landfill, and Princeton Hayfield Site are all within 8 km of an airport. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada's bird-hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport. Therefore, sites that are less than 8 km away from an airport should consult with Transport Canada before siting a compost facility which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

Odour is a major concern because of the regional sensitivity and will be further evaluated in the Odour Dispersion Modeling stage. Most sites have a downwash meteorological pattern to the closest city or town, as these landfills are sited on the side of mountains at a higher elevation. The proximity of the nearest receptor (residential or commercial building) from each site ranges from 40 m to 600 m, as shown in Table 9. The number of receptors within a 1 km radius ranges from less than 10 to 130 receptors. In most cases, receptors tend to cluster in one (1) direction away from the site; these are typically residential neighbourhoods or RV parks.

Table 8: Environmental Considerations

Site	Proximity of Major Watercourse (m)	Agricultural Land Reserve	Watercourse Development Permit Area	Environmentally Sensitive Habitat Development Permit Area	Airport Within 8 km
Campbell Mountain Landfill	N/A	Yes, on limited portion of property	No	Yes, on portion of property	Yes
Summerland Landfill	300	No	Yes, on portion of property	No	No
Okanagan Falls Landfill	75	No	No	Yes, on portion of property; bear and cougar habitat	No
Oliver Landfill	1,600	No	No	Yes, on portion of property	Yes
Osoyoos Landfill	800	Yes, on entire property	Yes, on portion of property	Yes, on portion of property	Yes
Princeton Landfill	600	No	No	No	Yes
Princeton Hayfield Site	150	Yes, on limited portion of property	No	No	Yes
Keremeos Transfer Station	900	No	No	No	No
Keremeos Greenfield Site	100	Yes, on entire property	Yes, on portion of property	No, but may contain species at risk	No

Table 9: Odour Considerations

Site	Proximity of Nearest Receptor (m)	Number of Receptors within 1 km	Direction of Receptors	Meteorological and Land Use Issues
Campbell Mountain Landfill	100	60	West	Downwash meteorological pattern to the city downhill
Summerland Landfill	500	55	East	Downwash meteorological pattern to the city downhill
Okanagan Falls Landfill	600	15	West	N/A
Oliver Landfill	300	10	N/A	Downwash meteorological pattern to the city downhill
Osoyoos Landfill	500	40	Northeast (lakeshore)	Downwash meteorological pattern to the city downhill, ecological reserves nearby
Princeton Landfill	500	130	East and South (RV Parks)	Inversion and low mixing conditions in the valley, airport nearby
Princeton Hayfield Site	600	35	West and North (RV Parks)	N/A
Keremeos Transfer Station	40	95	South	Downwash meteorological pattern to the city downhill
Keremeos Greenfield Site	150	<10	N/A	N/A

Notes:

¹ Receptors includes homes and commercial buildings.

3.5 Markets for Processed Organics

Beneficial use of the resulting products from each organics processing site varies from urban landscape to agriculture. Wood waste and water use at each site are as important as food waste considerations. The current practice of processing all wood (painted and unpainted) unseparated is uniform throughout the District. There is no marketing of wood products from the facilities, but green waste and biosolids are composted and can be sold to the public. The compost quality is generally higher and more marketable for agricultural use when it does not include biosolids. However, compost containing biosolids is suitable for landscaping and residential use. Due to the inability to compost wood chips from white wood under the Regulation, there have been serious issues with storage. In order to reduce storage concerns, landfills have paid for shipping of clean white wood chips to local feedlots and cogeneration sites in the central and north Okanagan. Landfills also use white wood chips as dust control, mix them with soil as alternative landfill cover, or make non-regulation approved compost for on-site use. Separating painted and unpainted wood waste at landfills has been discussed as a means to increase the value of unpainted wood chips.

4.0 CONCLUSION

Site assessments were conducted for nine (9) sites identified by the RDOS for potential expansion of composting facilities. Relevant information was collected through site visits and review of information provided by the RDOS on each of the sites and summarized in this report. Annual tonnages source-separated organics currently received and potential organics feedstock (i.e., food waste and compostable paper currently in MSW) were estimated for each site. Research was also conducted to identify key considerations for site selection.

This assessment found that all sites except for the Keremeos Greenfield Site would be potentially feasible for expanded organics processing facilities. Due to environmental sensitivity, potential slope instability, and long transport distance, we do not recommend a feasibility study for the Keremeos Greenfield Site. Seven (7) of the nine (9) sites are currently operating as a landfill or transfer station and receive source-separated organics. Five (5) of these sites have compost facilities. At the majority of sites, future expansion of composting facilities will need to fit into the current area designated for composting at the site. The information presented in this report can be used to guide feasibility studies for selected sites.

5.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

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REFERENCES

- City of Penticton. Garbage and recycling. (<http://www.penticton.ca/EN/main/departments/public-works/garbage-and-recycling.html>) Webpage accessed on August 26, 2014.
- District of Summerland. Curbside Recycling & Garbage Collection. (<http://www.summerland.ca/departments/works/recycling.aspx>) Webpage accessed on August 26, 2014.
- RDOS. Curbside Garbage & Recycling. (<http://www.rdos.bc.ca/departments/public-works/solid-waste/curbside-garbage-recycling/>) Webpage accessed on August 26, 2014.
- Town of Oliver. Garbage Collection. (<http://www.oliver.ca/garbage-collection>) Webpage accessed on August 26, 2014.
- Town of Osoyoos. Curbside Garbage & Recycling. (<http://www.osoyoos.ca/content/curbside-garbage-recycling>) Webpage accessed on August 26, 2014.
- Town of Princeton. Curbside Garbage Collection. (<http://www.princeton.ca/what-s-new/curbside-garbage-collection-town-of-princeton-residents>) Webpage accessed on August 26, 2014.
- Note: Please also refer to the reference lists of the individual site assessment reports in Appendix B.

TABLES

Table 10 Regional District of Okanagan-Similkameen Facility Summary

Table 10: Regional District of Okanagan-Similkameen Facility Summary

Site		Campbell Mtn. Landfill	Summerland Landfill	OK Falls Landfill	Oliver Landfill	Osoyoos Landfill	Princeton Landfill	Princeton Hayfield Site	Keremeos Transfer Station	Keremeos Greenfield Site
General Info	Community Served	Penticton and Electoral Areas B, D, and E	Summerland and Electoral Area F	All RDOS	Oliver and Electoral Area C	Osoyoos and Electoral Area A	Princeton and Electoral Area H	Princeton and Electoral Area H	Keremeos and Electoral Area G	Keremeos and Electoral Area G
	Service Population (2011)	42,311	12,579	N/A	8,925	6,737	4,492	4,492	5,103	5,103
Materials Received	Garbage (t/yr)	23,475 ¹	4,523 ²	2,042 ³	5,051 ⁴	4,081 ⁵	2,632 ⁶	N/A	N/A	N/A
	Leaf & Yard Waste (t/yr)	6,473 ⁷	3,899 ²	1,176 ⁸	1,997 ⁹	832 ⁵	415 ¹⁰	N/A	501 ¹¹	N/A
	Harvest Waste (t/yr)	No data	No data	No data	674 ⁹	3 ⁵	No data	N/A	N/A	N/A
	White Wood (t/yr)	5,219 tonnes total, 1,400 tonnes composted ¹² (21,894 m³ total, 7,000 m³ composted)	780 ²	1,271 ¹² (6,356 m³)	1,174 ¹² (5,868 m³)	224 ⁵	696 ¹⁰	N/A	317 ¹² (1,586 m³)	N/A
	Biosolids (t/yr)	1,031 ⁷	832 ²	90 ⁸	N/A	N/A	N/A	N/A	N/A	N/A
	Property Size (Ha)	59.5	146	8.2	13.8	14	24.2	97	8	26
Site Considerations	Area of Current Organics Processing Facility (Ha)	13.9	0.57	0.48	0.6	0.52	0.33	N/A	0.06	N/A
	Available Land for Future Expansion (Ha)	16	41	0	0.83	0	1.6	97 (approx. 70 Ha outside of ALR)	0	26
	Is Potable Water Available? On or off-site?	Yes, off-site	Yes, off-site	Yes, off-site	Yes, off-site	Yes, off-site	Yes, off-site	No	No	No
	Is 3 Phase Power Available?	Yes	Yes	Yes	Yes	Yes	Yes	No, but power line close by	Yes	No, but power line close by
	Proximity of Nearest Receptor (m)	100	500	600	300	500	500	600	40	150
	Number of Receptors within 1 km	60	55	15	10	40	130	35	95	<10
	Direction of Receptors	West	East	West	N/A	Northeast (lakeshore)	East and South (RV Parks)	West and North (RV Parks)	South	N/A
	Proximity of Watercourse (m)	N/A	300	75	1,600	800	600	150	900	100
	Agricultural Land Reserve	Yes, on limited portion of property	No	No	No	Yes, on entire property	No	Yes, on limited portion of property	No	Yes, on entire property
	Watercourse Development Permit Area	No	Yes, on portion of property	No	No	Yes, on portion of property	No	No	No	Yes, on portion of property
	Environmentally Sensitive Habitat Development Permit Area	Yes, on portion of property	No	Yes, on portion of property; bear and cougar habitat	Yes, on portion of property	Yes, on portion of property	No	No	No	No, but may contain species at risk
	Airport Within 8 km	Yes	No	No	Yes	Yes	Yes	Yes	No	No

Table 10: Regional District of Okanagan-Similkameen Facility Summary

Site		Campbell Mtn. Landfill	Summerland Landfill	OK Falls Landfill	Oliver Landfill	Osoyoos Landfill	Princeton Landfill	Princeton Hayfield Site	Keremeos Transfer Station	Keremeos Greenfield Site
Residential Services	Curbside Garbage Collection (t/yr)	6,386 ^{13,14}	1,495 ¹⁴	N/A	1,129 ¹⁴	887 ¹⁴	No data ¹⁵	No data ¹⁵	Goes to Campbell Mountain	Goes to Campbell Mountain
	Curbside Yard Waste Collection (t/yr)	1,687 ^{13,14}	318 ¹⁴	N/A	203 ¹⁴	232 ¹⁴	No data ¹⁵	No data ¹⁵	Goes to Campbell Mountain	Goes to Campbell Mountain
	Curbside Recycling Collection (t/yr)	1,758 ^{13,14}	418 ²	N/A	302 ¹⁴	227 ¹⁴	No data ¹⁵	No data ¹⁵	Goes to Campbell Mountain	Goes to Campbell Mountain
Compost Technology		Aerated static pile and turned windrow	Turned windrow	Turned windrow	Turned windrow	Turned windrow	None (chipped)	N/A	None (grinded or transported to Campbell Mountain Landfill)	N/A
Commercial Sector Garbage (t/yr)		17,542 ¹	1,792 ²	N/A ¹⁷	3,916 ⁴	1,853 ⁵	1,035 ¹⁸	1,035 ¹⁸	Goes to Campbell Mountain	Goes to Campbell Mountain
Estimated Food Waste and Compostable Paper (t/yr) ¹⁶		6,104	1,189	N/A	1,313	1,061	684	684	Goes to Campbell Mountain	Goes to Campbell Mountain

Notes:

¹ 2013 Operations and Monitoring Report Campbell Mountain Landfill, March 2014.

² Summerland Landfill scale data, 2013. For commercial waste, assumed 60% of self-haul municipal solid waste (MSW) is commercial.

³ 2013 Operations and Monitoring Report Okanagan Falls Landfill, March 2014.

⁴ 2013 Operations and Monitoring Report Oliver Landfill, March 2014.

⁵ 2013 Operations and Monitoring Report Osoyoos Landfill, March 2014.

⁶ Estimated using average per capita generation from Oliver and Osoyoos in 2013.

⁷ Campbell Mountain Landfill scale data, 2013.

⁸ Okanagan Falls Landfill scale data, 2013.

⁹ Oliver Landfill scale data, 2013.

¹⁰ Estimate for 2009 from Regional Organic Waste Strategy, December 2010, adjusted for population increase from 2009 to 2013.

¹¹ Keremeos Transfer Station scale data, 2014 (May to September). Extrapolated remaining months using average monthly variation at Campbell Mountain, Oliver, Osoyoos, and Summerland.

¹² Average chipped white wood (m3) from 2009 to 2013 provided by chipping contractor because white wood quantities change by year. Assumed density of 200 kg/m³. For Campbell Mountain, 2,800 m³ is used for City of Penticton composting and the remainder is chipped for on-site use or shipped off-site.

¹⁴ Average of 2012 and 2013 Collection Data from RDOS.

¹⁵ Princeton Landfill scale installed 2014; no weight data available.

¹⁶ Assumed to be 26% of all MSW (40% of total MSW quantity is food waste of which 65% is diverted). This is based on the assumptions in the RDOS Solid Waste Management Plan (2011).

¹⁷ DLC waste only at Okanagan Falls Landfill.

¹⁸ Assumed that 40% of total MSW is commercial waste.

APPENDIX A

TETRA TECH EBA'S GENERAL CONDITIONS

APPENDIX B

SITE ASSESSMENT REPORTS

Report 1	Campbell Mountain Landfill
Report 2	Summerland Landfill
Report 3	Okanagan Falls Landfill
Report 4	Oliver Landfill
Report 5	Osoyoos Landfill
Report 6	Princeton Landfill
Report 7	Princeton Hayfield Site
Report 8	Keremeos Transfer Station
Report 9	Keremeos Greenfield Site

REPORT 1

SITE ASSESSMENT - CAMPBELL MOUNTAIN LANDFILL

1.0 INTRODUCTION

The Campbell Mountain Landfill (hereafter referred to as the “Site”) is located 5 km northeast of the City of Penticton, British Columbia (BC), and has been operated by the Regional District of Okanagan-Similkameen (RDOS) since 1972. It is an active landfill that accepts municipal wastes, commercial wastes, light industrial wastes, and recyclable materials and serves over half of the total population in the RDOS. The Site currently accepts and processes source separated leaf and yard waste (green waste), white wood, and biosolids. Figure 1 is an aerial photo of the Site.



Figure 1: Aerial Photo of the Campbell Mountain Landfill

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site's potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 5 km northeast of the City of Penticton, BC and 1.2 km to the east of Okanagan Lake, situated on the side of a mountain (Figure 3). The legal description of the Site location is District Lot 368, Simikameen Division of Yale District (S.D.Y.D.). The red star in Figure 2 illustrates the approximate location of the landfill, relative to the City of Penticton.

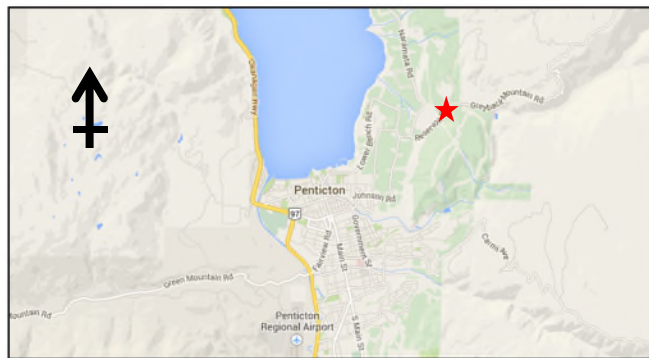


Figure 2: Site location relative to City of Penticton

2.2 Site Area

The Site occupies approximately 59.5 Hectares (Ha) of land, in which approximately 10 Ha is used for landfilling (Western Water Associates Ltd. 2014). The landfill was constructed on a bedrock ridge that generally slopes from East to West. As noted in the Site Plan (Figure 5), the lower parts of the Site, located to the West, will likely not be used for landfilling purposes due to its close proximity to residents, orchards, and vineyards that are located approximately 550 m to the west of the Site.

2.2.1 Available Land and Future Expansion

The existing composting facility is located on the east side of the Site with a total footprint of approximately 13.9 Ha (112 m by 124 m) (Figure 5). About half of the area is used for the windrow composting process and the other half for curing process and product storage. Spiller Road crosses through the eastern portion of the Site property boundary. The portion east of Spiller Road, within the property of the landfill, could be potentially incorporated into a usable area for the compost site. The area of this portion is approximately 12 Ha. However, this would require a large capital expense to relocate Spiller Road further to the east, or keep the road in its current location and cross the road when needed. Furthermore, due to the moderate slopes, and exposed bedrock, the amount of usable land would decrease considerably. There may also be environmental and social concerns with developing this parcel of land, as it is in direct line of sight from passing residents, within an Agricultural Land Reserve (ALR), in the Ponderosa Pine ecosystem which may have endangered species, and contains a small wetland. Overall, although this parcel of land is potentially available, there are significant barriers to developing the area at this time.

The City of Penticton has begun planning of moving their biosolids compost operation to the southeastern part of the facility where commercial wood waste is presently collected. The new facility would incorporate leachate control that is not available at the present site. The land chosen for the new compost site is located within the ALR (Figure 5), which may be of environmental concern.

2.3 Operational Permit/Certificate

The Site is currently operated as a sanitary landfill under Permit PR 1597, which was issued in 1972 and amended in 1992. In 1997, a draft Operational Certificate (OC) PR 15274 was issued by the BC Ministry of Environment (MoE), under the provisions of the *Waste Management Act*. The Site is authorized to manage

municipal solid waste (MSW) and recyclable materials from the RDOS, and other wastes (commercial and light industrial sources) authorized by the Regional Waste Manager at a maximum disposal/landfilling rate of 50,000 tonnes per year.

2.4 Site History and Ownership

Landfilling activities at the Site started in 1972 and have since been operated by RDOS. The Site is located on property owned by the City of Penticton. Wastes were first placed in the northern part of the Site. The waste deposited within this area is mainly municipal, commercial, and light-industrial solid waste. Demolition, renovation and construction waste from this landfill service area is directed to the Okanagan Falls Landfill.

A liquid waste facility that receives septic and holding tank wastes was constructed on site in the mid 1980s (Western Water Associates Ltd. 2014). This septic waste facility has since been removed, with septic waste directed to a receiving station at the Penticton Waste Water Treatment Plant.

2.5 Service Population and Demography

The Site receives waste generated from the City of Penticton and the surrounding area including the Village of Keremeos, the Penticton Indian Band, the Lower Similkameen Indian Band, the Upper Similkameen Indian Band, Electoral Area B, D, E, and G (including Cawston, Okanagan Falls, Kaleden, Apex Mountain, Naramata, Hedley, Olalla, and Rural Keremeos), and parts of Electoral Area F (including West Bench and Sage Mesa). Figure 4 (attached) shows the Site service areas. Waste from Keremeos, Electoral Area B, Electoral Area G, the Lower Similkameen Indian Band, and the Upper Similkameen Indian Band are brought to the Site via the Keremeos Transfer Station. Based on Statistics Canada 2011 Census, the total population served by the Site is 47,414 with 5,103 of this population within the Keremeos Transfer Station service area.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 59,000.

The demographics of the service area are generally a mix of year-round residents and seasonal population. Year round residents represent the baseline population and would present the population that lives in the area from November to March. During the tourist season, the per month average population in the Penticton area increases by as much as 25% (approximately 10,000 people). This estimate is based on average wastewater flows over a ten year period.

2.6 Site Topography

The landfill was constructed on a bedrock ridge, sloping from east to west. As described by Western Water Associates Ltd. (2014), a ravine (referred to as the “North Ravine”) commences in the north portion of the Site and dips in a southerly direction at a grade of approximately 5%. The western wall of the North Ravine, a bedrock ridge, extends toward Randolph Spring, one of two naturally occurring springs that exist in the vicinity of the Site. No surface waterbodies are reported to be situated on, or in close proximity to the Site.

2.7 Climate Conditions

The City of Penticton has a semi-arid climate with low precipitation. Summers are hot and dry with average daily highs of 28.7 degrees C in July. Winters are short and mild with limited snow fall. The average daily high in January is 1.8 degrees C. The average annual precipitation is 346 mm. June is the wettest month with an average precipitation of 46.3 mm. February is the driest month with an average precipitation of 19.8 mm (Environment Canada 2014). Penticton can be windy in fall, winter, and early spring.

2.8 Asset and Equipment on Site

Equipment used on site for daily landfill activity, composting activity and other maintenance includes the following:

- CAT 826-C Compactor;
- Mack Water Truck;
- CAT 966-C Loader;
- Mack Roll-off Truck;
- Compost Screener;
- CAT Rock Truck;
- Compost Grinder; and
- Windrow Turner.

2.9 Water Availability

No water is available on site. Irrigation water is provided seasonally from a hydrant approximately 1 km southwest of the Site on Naramata Road.

2.10 Transportation

The Site is located Northeast of Penticton and calculated 35 minutes driving time to the next nearest solid waste facility (Summerland Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, green waste, white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following section describes the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site accepts source separated green waste, white wood (construction and demolition wood waste as shown in Photos 1 to 3), and biosolids from the Penticton wastewater treatment plant. The Site has a biosolids composting facility, which is operated by the City of Penticton and co-composts a mixture of green waste and white wood with biosolids in aerated static piles. The City of Penticton intends to move the Site of the composting facility from its current location to the area where commercial wood waste is currently stored. Green waste, especially yard and garden waste from residential collection programs, is also composted on its own in turned windrows. City of Penticton biosolids compost is sold to the public while green waste, composted by the RDOS, is used as erosion control. Photos 4 and 5 (attached) show the composting area and compost storage area, respectively.

Wood waste received at the Site is ground up. A small portion (approximately 2,800 tonnes) is used for biosolids compost. The remainder is either blended with soil for use as cover material or used as dust or mud control, or

shipped off site for other purposes such as animal bedding and cogeneration in the Central and North Okanagan (WWAL 2014).

3.1.1 Source Separated Organic Waste

Source separated materials are quantified at the scalehouse and stored in different areas as shown on Figure 5 (attached). Table 1 (below) summarizes the estimated quantity of source separated organics received at the Site in 2013.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site's service area are currently disposed by landfilling. Food waste and compostable paper are currently disposed with the residential and industrial, commercial, and institution (ICI) sector wastes. Harvest waste from the agricultural sector is also a potential organic waste source.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total MSW stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. Based on these assumptions, there is an estimated 6,104 tonnes/year that can be added to the organic waste stream.

3.1.2.2 Harvest Waste

The wine industry has a strong presence in the Site's service area. Wineries generates a significant amount of organic waste such as fruit waste (spoiled or unsalable fruit including apples, peaches, pears, grapes, etc.) and food processing waste such as fruit pomace (organic matter left after juice pressing) as well as pits. In this assessment, these wastes are referred to as harvest waste.

Harvest waste is seasonal and usually generated from June to November. The Site does not track harvest waste separately. Therefore, the harvest waste tonnages are not available at this time.

Table 1: Estimated Tonnages of Organic Waste Currently Composted and Available for Composting at Campbell Mountain Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	6,473	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. Approximately 2,800 tonnes of green waste is co-composted with biosolids at the City of Penticton composting facility on site. The remainder of the green waste is composted by RDOS. Source: Scale data, 2013.
Biosolids	1,031	Biosolids from the Penticton Wastewater Treatment Plant are composted with a mixture of 50/50 chipped green waste/white wood at the City of Penticton composting facility. Source: Scale data, 2013.
White Wood	1,400 (7,000 m ³)	White wood includes dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Source: As quantities of white wood vary widely by year, the average volume (m ³) of white wood from 2010-2013 was used for this estimation. Total volume is 26,000 m ³ , of which approximately 7,000 m ³ is used by City of Penticton for composting. The remainder is counted in the "White Wood (not composted) category. Assumed density 200 kg/m ³ to calculate tonnage.
Total Currently Composted	8,904	Materials composted under current operations.
White Wood (not composted)	3,819 (19,094 m ³)	See above for comments on white wood. This is the remainder of the white wood not used by City of Penticton for composting.
Food Waste and Compostable Paper	6,104	Includes all pre- and post-consumer food waste, food-soiled paper, waxed paper, paper towels, and other compostable single-use products. Estimated assuming 40% of MSW is food waste and compostable paper, of which 65% is diverted. This is based on the assumptions in the RDOS Solid Waste Management Plan (2011).
Total Potential Feedstock for Composting	18,827	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

As there is limited land available for compost processing or storage at the Site, future organic processing activity is likely to be conducted within the existing composting facility area, which already fulfilled the setback requirement under the Regulation.

Some parts of the Site (Figure 5) are designated as Agricultural Land Reserve (ALR) and Environmentally Sensitive Habitat Development Permit Area. If development were to take place in these areas, additional permits and/or approvals may be required.

The Site is approximately 7 km away from the Penticton Regional Airport. Although the Organic Matter Recycling Regulation (OMRR) does not determine a distance that compost sites should be away from airports, the landfill Criteria for Municipal Solid Waste requires an 8 km buffer for landfills. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada's bird-hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport.

Due to the proximity of the Site to the Penticton Regional Airport, it is advised that Transport Canada be consulted before siting a compost facility which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

4.2 Hydrogeological Considerations

The water table within the existing composting area is believed to be low. Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during the composting process. Due to the downwash meteorological pattern to the city downhill, odour generation from the organic diversion activity should be considered in the facility design. The nearest receptor (home or commercial building) to the Site is approximately 100 m away. The proposed relocation of the City of Penticton compost site within the landfill will reduce the distance to this receptor. Within a 1 km radius of the Site, there are approximately 60 receptors. A 1 km radius map of the Site is shown in Figure 6. The majority of the receptors are to the west of the Site.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- British Columbia Ministry of Environment (MOE). 1997. Draft Operational Certificate 15274.
- CH2MHILL. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Penticton, British Columbia, Climate ID 1126150.
- Environmental Management Act and Public Health Act. Organic Matter Recycling Regulation. British Columbia Regulation 18/2002. February 5, 2002.
- Regional District of Okanagan – Similkameen. Landfills – Campbell Mountain.
(<http://www.rdos.bc.ca/departments/public-works/solid-waste/landfills/campbell-mountain/>) Webpage accessed on May 6, 2014.
- Western Water Associates Ltd. (WWAL), March 2014. 2013 Operations and Monitoring Report Campbell Mountain Landfill, Penticton B.C.

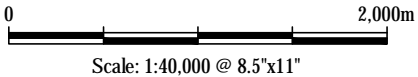
FIGURES

Figure 3	Site Location
Figure 4	Campbell Mountain Landfill Service Area
Figure 5	Site Plan
Figure 6	Receptors within 1 km of Site



LEGEND
- APPROXIMATE SITE BOUNDARY

NOTES
IMAGE PROVIDED BY GOOGLE EARTH PRO.



CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**



TETRA TECH EBA

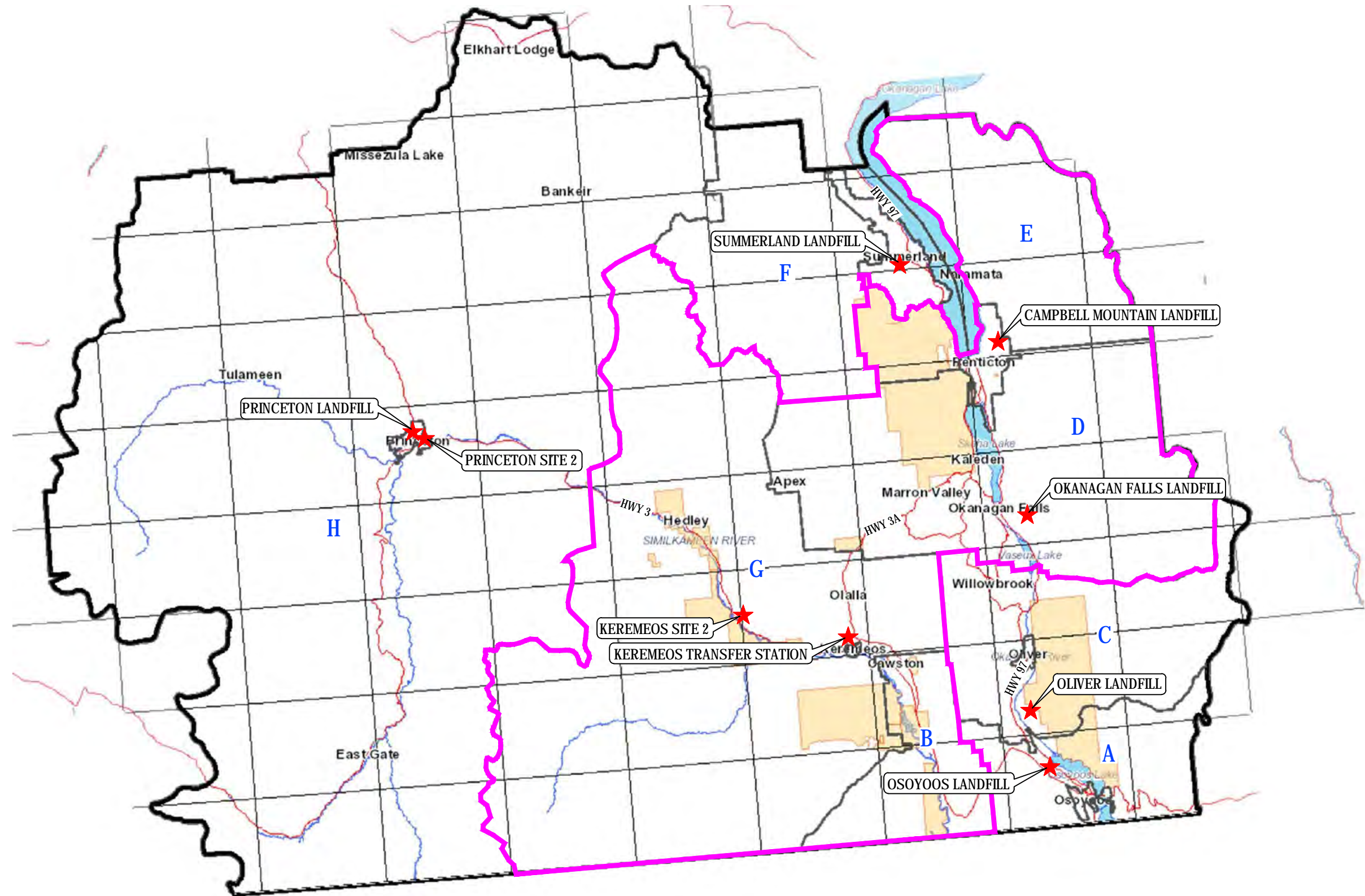
**ORGANIC MANAGEMENT CONSULTANT
CAMPBELL MOUNTAIN LANDFILL, PENTICTON, BC**

SITE LOCATION

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 3

Q:\Riverbed\Drafting\ENV\SWMM\ENV\SWMM03094\C3D2013\Campbell Mountain\ENV\SWMM03094-01-Campbell Mountain Figure 4.dwg [FIGURE 4] September 09, 2014 - 10:16:13 am (BY: MACKAY, MATT)



LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- CAMPBELL MOUNTAIN LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)

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Scale: 1:500,000 @ 11"x17"

CLIENT
REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



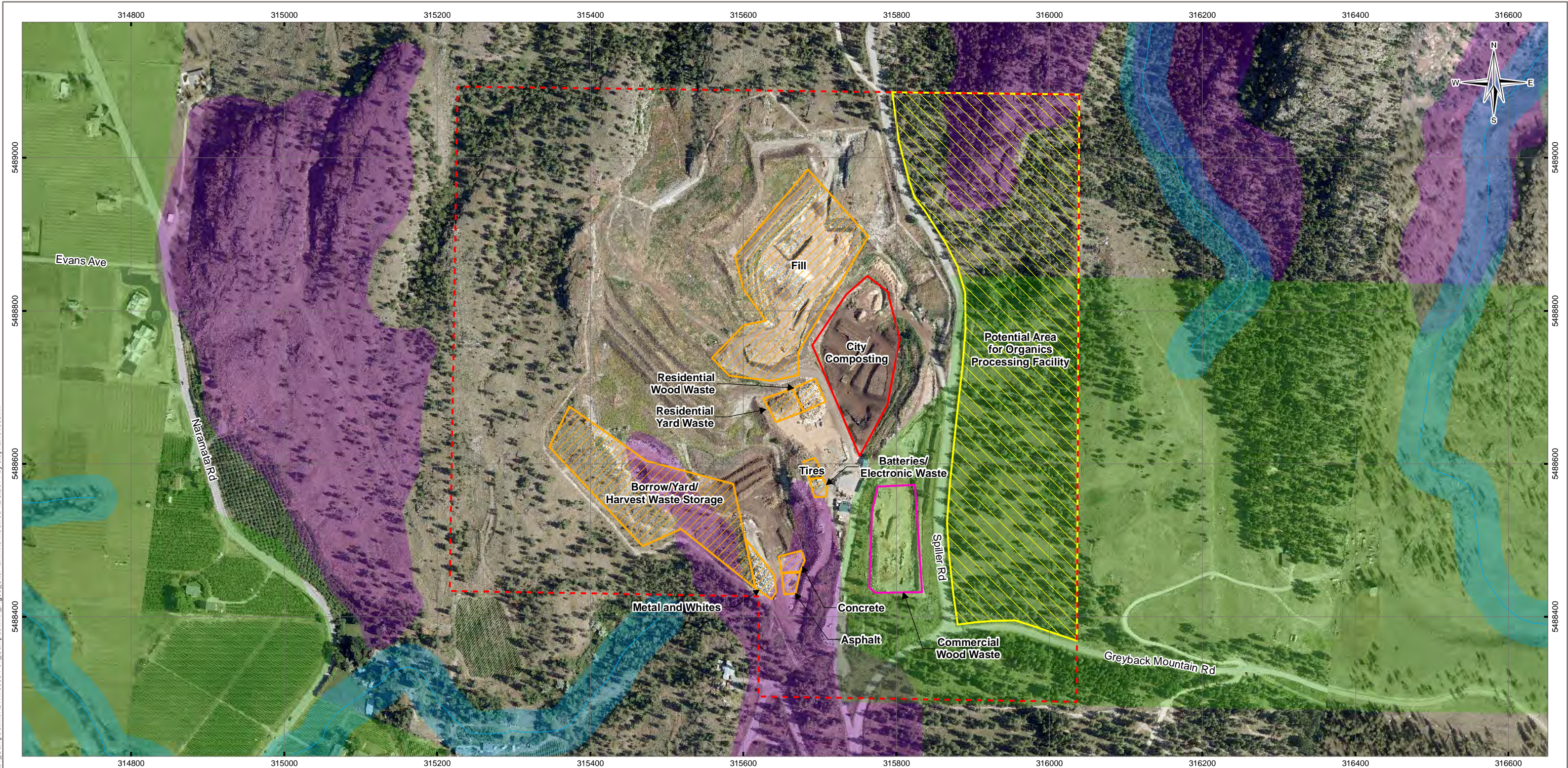
ORGANIC MANAGEMENT CONSULTANT
CAMPBELL MOUNTAIN LANDFILL, PENTICTON, BC

CAMPBELL MOUNTAIN LANDFILL SERVICE AREA

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 4

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LEGEND

- Property Boundary (Approximate)
- Potential Area for Organics Processing Facility
- Existing Composting Area
- Proposed Relocation of City of Penticton Composting
- Other Facility Area
- Watercourse / Waterbody
- Watercourse Development Area
- Agricultural Land Reserve
- Environmentally Sensitive Habitat

NOTES
Base data source:
ALR, Environmentally Sensitive Habitat and
Watercourses provided by RDOS.
Imagery provided by RDOS (2014);
Google Earth Pro; City of Penticton (2004).

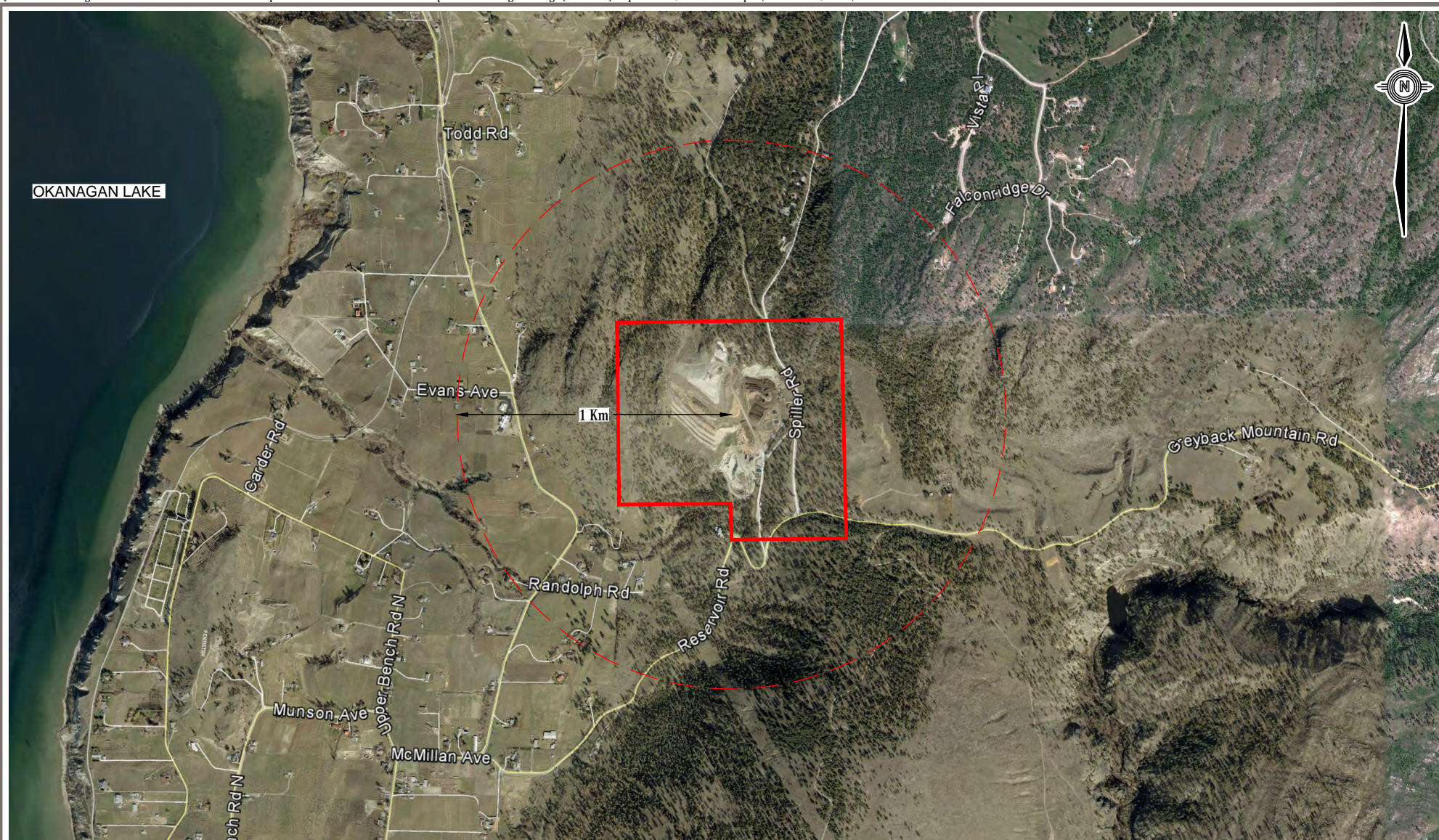
ORGANIC MANAGEMENT CONSULTANT
CAMPBELL MOUNTAIN LANDFILL
PENTICTON, BC

Site Plan

PROJECTION UTM Zone 11	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:5,000 100 50 0 100 Metres		
FILE NO. SWM03094-01_CampbellMtn_Fig05_SitePlan.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
OFFICE Tt EBA-VANC	APVD BL	REV 0
DATE December 8, 2014		Figure 5

Tt TETRA TECH EBA

STATUS
ISSUED FOR USE



LEGEND

- - APPROXIMATE SITE BOUNDARY
- - AREA IN 1 KM RADIUS

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.



Scale: 1:20,000 @ 8.5"x11"

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



TETRA TECH EBA

ORGANIC MANAGEMENT CONSULTANT
CAMPBELL MOUNTAIN LANDFILL, PENTICTON, BC

RECEPTORS WITHIN 1 KM OF SITE

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 6

PHOTOGRAPHS

Photo 1	Residential curbside yard waste
Photo 2	Commercial wood waste storage area
Photo 3	Self-haul fruit waste bunker
Photo 4	Composting area
Photo 5	Compost screening and storage area



Photo 1: Residential curbside yard waste



Photo 2: Commercial wood waste storage area



Photo 3: Self-haul fruit waste bunker



Photo 4: Composting area



Photo 5: Compost screening and storage area

REPORT 2

SITE ASSESSMENT – SUMMERLAND LANDFILL

1.0 INTRODUCTION

The Summerland Landfill (hereafter referred to as “the Site”) is located approximately 4 km southwest of the Town of Summerland, British Columbia (BC) and operated by the District of Summerland. It is an active landfill that accepts municipal wastes, commercial wastes, light industrial wastes, and recyclable materials. It serves the second largest population in the Regional District of Okanagan Similkameen (RDOS), totalling approximately 12,579 people from the District of Summerland and area immediately to the west and north (part of Electoral Area F). The Site currently accepts source separated leaf and yard waste (green waste) and white wood along with biosolids generated by the District of Summerland.



Figure 1: Aerial photo of the Summerland Landfill

The following is a site assessment that reviews site conditions and organic waste diversion activities that are currently implemented at the Site. The objective of this assessment is to review of the Site's potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 4 km southwest of Summerland, BC (Figure 2). The legal description of the site location (contained over several properties) is Lot A, District Lot 3756, Plan 22447, Plan B4629, District Lot 2247, District Lot 476, District Lot 2542, Similkameen Division of Yale District (S.D.Y.D.).

2.2 Site Area

District of Summerland owns approximately 146 Hectares (Ha) of land comprising the Site and adjacent properties. Proposed agricultural land is located to the north of the Site. Trout Creek reservoir (part of Summerland's drinking water supply) is located approximately 300 m southeast of the Site. The footprint of the existing composting facility is approximately 0.75 Ha.

2.2.1 Available Land and Future Expansion

Based on communication with the Site supervisor, there is no additional land available for organics management expansion on the developed areas of the Site. However, there may be an opportunity to use two parcels of undeveloped land north of the Site (Figure 4) for additional organics management depending on facility size and zoning regulations. The available areas in the parcels are approximately 16 Ha north of Princeton-Summerland Road and 25 Ha south of Princeton-Summerland Road. A dry ravine located along the boundary of these properties is designated as requiring a Watercourse Development permit but this area takes up only a small portion of the available land.

Overall, the Site has good infrastructure for additional organics processing and can accommodate feedstock and product storage required for seasonable product marketing and beneficial use. This includes truck scales, geotechnical stability and undisturbed flat ground space, the space for buffer development, and existing staff and material handling equipment.

2.3 Operational Permit/Certificate

The Site is operated as a sanitary landfill under Operational Certificate No. MR 15275 (dated on July 14, 1999), which was issued by the BC Ministry of Environment (MoE), under the provisions of the *Waste Management Act* and in accordance with the *Approved Regional District of Okanagan – Similkameen Solid Waste Management Plan*. Before the Operational Certificate was issued, the Site was operated under the MoE Permit PR-11099 (dated on November 29, 1993 and amended on December 1, 1998). The Site is authorized to manage municipal solid waste (MSW) generally from the District of Summerland and the surrounding area and other wastes as approved by the Regional Waste Manager.

2.4 Site History and Ownership

The Site has been owned and operated by the District of Summerland since 1993.

2.5 Service Population and Demography

The Site accepts waste coming from the District of Summerland and the areas immediately to the west and north (part of Electoral Area F). Figure 3 (attached) shows the Site's service area. Based on Statistics Canada 2011 Census, the total population served by the Site is 12,579, which is the second largest service population in the RDOS.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 16,000.

The demographics of the service area are generally a mix of year-round residents, seasonal population, and agriculture workers.

2.6 Site Topography

The landfill was originally constructed on a bedrock ridge, sloping from north to south. The closest surface waterbody to the site is Trout Creek Reservoir, approximately 300 m from the Site.

2.7 Climate Conditions

Summerland has hot and dry summers with an average daily high of 26.8 degrees Celsius in July and August (Environment Canada 2014). Winters are short and cool with an average daily high of -2.3 degrees Celsius in December. The average annual precipitation is 336.7 mm. June is the wettest month with an average precipitation of 42.2 mm. February is the driest month with an average precipitation of 18.5 mm.

2.8 Asset and Equipment on Site

The equipment that is used on site for daily landfill activity, composting activity, and other maintenance are listed below:

- John Deere 4 yd Loader;
- Hyundai 4 yd. Loader;
- Cat 826H Compactor;
- 521 Wildcat Trommel Screening Plant;
- Peterbuilt Roll off Bin Truck; and
- Cat D-4 Crawler Tractor.

2.9 Water Availability

No irrigation water is available on site. Water is currently trucked into the Site for composting operations.

2.10 Transportation

The Site is located at the northern end of the populated areas within RDOS and has a calculated 35 minutes driving time to the next nearest solid waste facility (Campbell Mountain Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, green waste, white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following section describes the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site accepts source separated green waste and white wood (Photos 1 and 2) and biosolids. The current practice involves a windrow composting system to co-compost green waste with biosolids. The finished compost products are sold to the public. Photos 3 to 6 show the composting area and compost storage area. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site.

3.1.1 Source Separated Organic Waste

At the Site, five categories of source separated organic waste are identified and quantified at the scalehouse and stored in different areas as shown on Figure 4 (attached). Table 1 (below) summarizes the type of organic waste in each category and the quantity received in 2013.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site service areas are currently disposed by landfilling. Food waste and compostable paper are currently disposed with the residential and industrial, commercial, and institution (ICI) sector wastes. Harvest waste from the agricultural sector is also a potential organic waste source.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total MSW stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. Based on these assumptions, there is an estimated 1,176 tonnes/year that can be added to the organic waste stream.

3.1.2.2 Harvest Waste

The wine industry has a strong presence in the Site service areas. Wineries generates a significant amount of organic waste such as fruit waste (spoiled or unsalable fruit including apples, peaches, pears, grapes, etc.) and food processing waste such as fruit pomace (organic matter left after juice pressing) as well as pits. In this assessment, these wastes are referred to as harvest waste.

Harvest waste is seasonal and usually generated from June to November. The Site does not track harvest waste separately. Therefore, the harvest waste tonnages are not available at this time.

Table 1: Estimated Tonnages of Organic Waste Currently Composted and Available for Composting at Summerland Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	3,899	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. Green waste is co-composted with biosolids at the composting facility on site. Source: Scale data, 2013.
Biosolids	832	Biosolids from the Summerland Wastewater Treatment Plant which are composted with chipped organics. Source: Scale data, 2013.
Total Currently Composted	4,732	Materials composted under current operations.
White Wood	780	White wood is generated primarily from development, construction, and demolition activities. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Source: Scale data, 2013.
Food Waste and Compostable Paper	1,189	Includes all pre-consumer and post-consumer food waste, food-soiled paper, waxed paper, paper towels, and other compostable single-use products. Estimated assuming 40% of MSW is food waste and compostable paper, of which 65% is diverted.
Total Potential Feedstock for Composting	6,700	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes. If the land north of the Site is considered for organics management, a more thorough investigation into setback requirements is warranted as there are water course development areas in those parcels (Figure 4).

4.2 Hydrogeological Considerations

Groundwater monitoring program conducted in 1999 indicated that the water table close to the existing composting area is 41.78 m below ground surface (Golder Associates 1999). Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

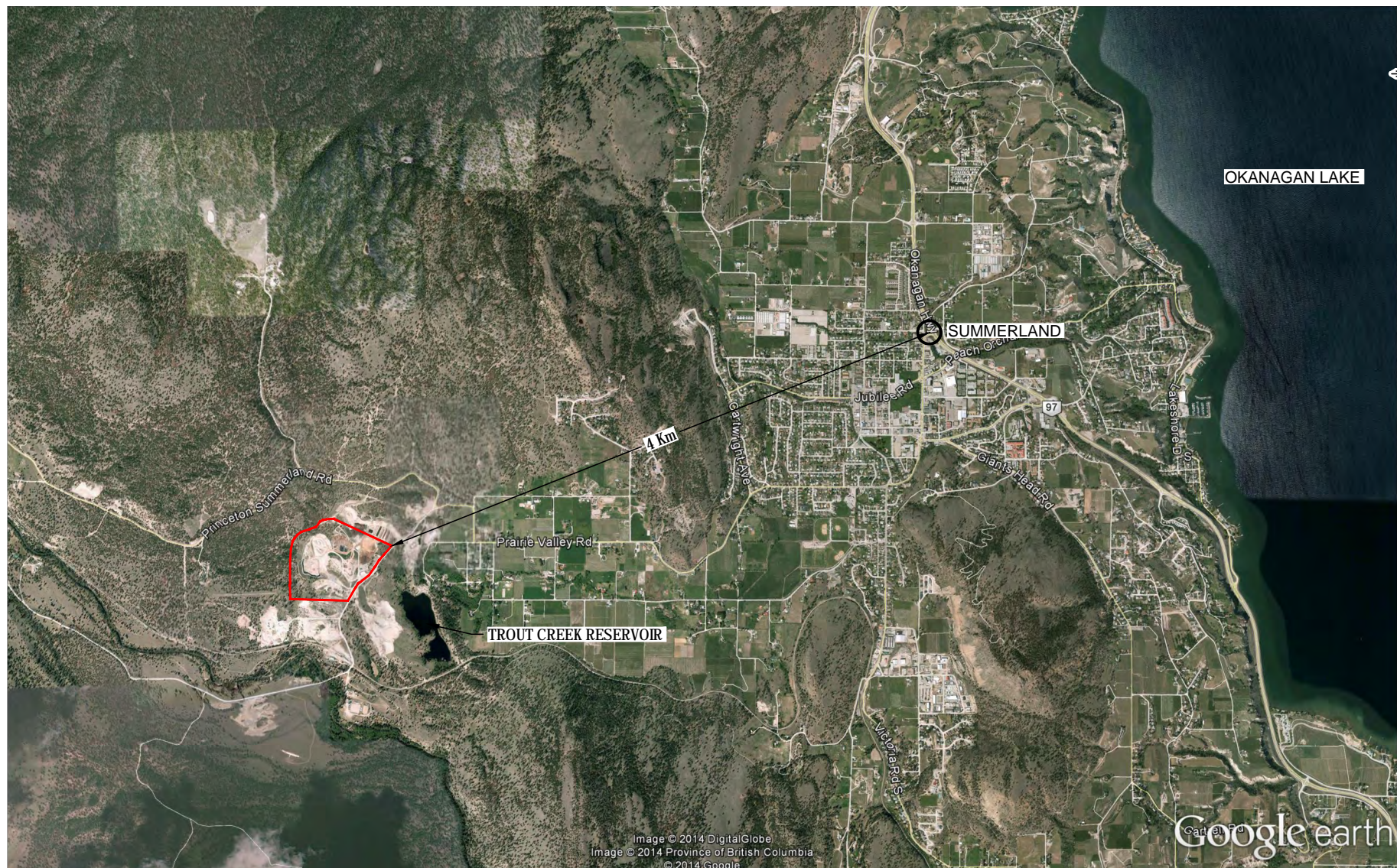
Odours may be developed as a natural part of feedstock degradation during the composting process. Due to downwash meteorological pattern to the nearby residences, odour generation from the organics management activity should be considered in any facility design. The nearest receptor (home or commercial building) to the Site is approximately 600 m away. Within a 1 km radius of the Site, there are approximately 15 receptors. A 1 km radius map of the Site is shown in Figure 5 (attached). The majority of the receptors are to the east of the Site.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- British Columbia Ministry of Environment, Lands and Parks. July 14, 1999. Operational Certificate MR 15275. Summerland, British Columbia.
- CH2MHill. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Summerland CS, British Columbia, Climate ID 112G8L1.
- Golder Associates. December 15, 1999. Review of Groundwater Monitoring Program and Supervision of Additional Drilling. Summerland Landfill, Summerland, BC.
- District of Summerland. Engineering & Public Works – Landfill.
(<http://www.summerland.ca/departments/works/landfill.aspx>) Webpage accessed on August 26, 2014
- TRUE Consulting. March 5, 2014. Land Use Opportunities Adjacent to the Landfill.
- TRUE Consulting. April 2006. District of Summerland Landfill Mitigation Plan.
- TRUE Consulting. January 2002. Summerland Landfill Amended Design/Operations/Closure Plan.

FIGURES

Figure 2	Site Location
Figure 3	Summerland Landfill Service Area
Figure 4	Site Plan
Figure 5	Receptors Within 1 km of Site



LEGEND

- APPROXIMATE SITE BOUNDARY

NOTES

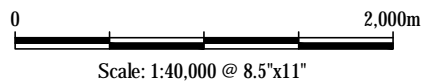
IMAGE PROVIDED BY GOOGLE EARTH PRO.

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN

ORGANIC MANAGEMENT CONSULTANT
SUMMERLAND LANDFILL, SUMMERLAND, BC

SITE LOCATION



TETRA TECH EBA

PROJECT NO.
ENVSWM03094-01

DWN
MMK

CKD
LZ

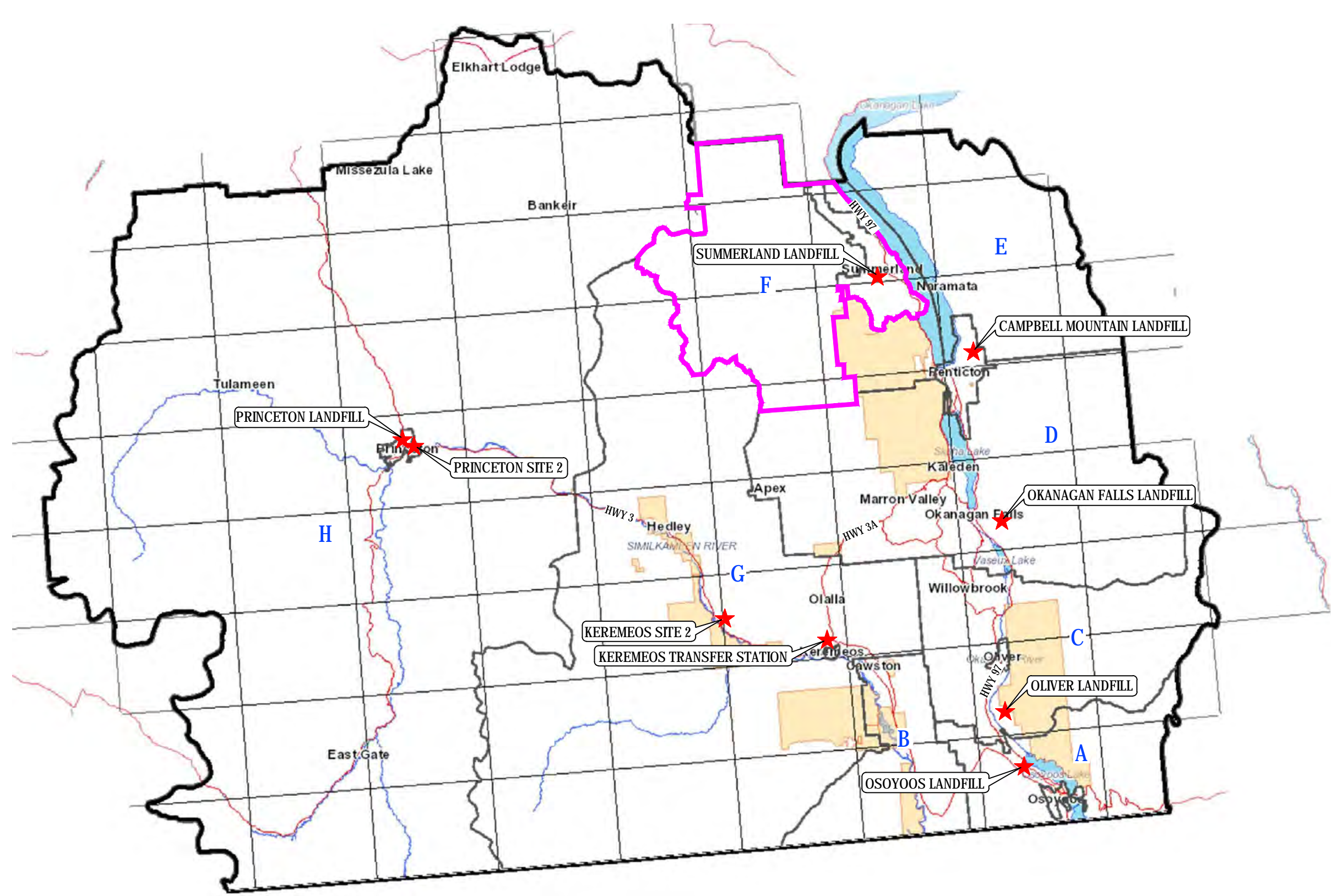
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DATE
SEPTEMBER 2014

Figure 2

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LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- SUMMERLAND LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)

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Scale: 1:500,000 @ 11"x17"

REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN		ORGANIC MANAGEMENT CONSULTANT SUMMERLAND LANDFILL, SUMMERLAND, BC			
		SUMMERLAND LANDFILL SERVICE AREA			
PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0	Figure 3	
OFFICE EBA-RIV	DATE SEPTEMBER 2014				







- LEGEND**
- Property Boundary (Approximate)
 - Potential Area for Organics Processing Facility
 - Existing Composting Area
 - Other Facility Area
 - Watercourse / Waterbody
 - Watercourse Development Area
 - Agricultural Land Reserve

NOTES
Base data source:
ALR and Watercourses provided by RDOS.
Imagery provided by RDOS (2012).

STATUS
ISSUED FOR USE

**ORGANIC MANAGEMENT CONSULTANT
SUMMERLAND LANDFILL, SUMMERLAND, BC**

Site Plan

PROJECTION UTM Zone 11		DATUM NAD83		CLIENT Regional District of Okanagan-Similkameen  TETRA TECH EBA	
Scale: 1:8,000 100 50 0 100  Metres					
FILE NO. SWM03094-01_Summerland_Fig04_SitePlan.mxd					
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LEGEND

- APPROXIMATE SITE BOUNDARY
- AREA IN 1KM RADIUS

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.



Scale: 1:20,000 @ 8.5"x11"

CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**



TETRA TECH EBA

**ORGANIC MANAGEMENT CONSULTANT
SUMMERLAND LANDFILL, SUMMERLAND, BC**

RECEPTORS WITHIN 1 KM OF SITE

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 5

PHOTOGRAPHS

Photo 1	Green waste storage area
Photo 2	Wood waste storage area
Photo 3	Composting area
Photo 4	Composting area
Photo 5	Compost screening and storage area
Photo 6	Compost screening and storage area



Photo 1: Green waste storage area



Photo 2: Wood waste storage area



Photo 3: Composting area



Photo 4: Composting area



Photo 5: Compost screening and storage area



Photo 6: Compost screening and storage area

REPORT 3

SITE ASSESSMENT – OKANAGAN FALLS LANDFILL

1.0 INTRODUCTION

The Okanagan Falls Landfill (hereafter referred to as “the Site”) is located approximately 4 km east of Okanagan Falls, British Columbia (BC). It is reported to have been in operation since before 1979. Since 2004, the Site specializes in Demolition, Land Clearing, and Construction (DLC) waste coming primarily from the Campbell Mountain Landfill and Keremeos Transfer Station service areas.



Figure 1: Aerial photo of the Okanagan Falls Landfill

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site’s potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 4 km east of Okanagan Falls, BC (Figure 2). The legal description of the Site location is District Lot 2710, Similkameen Division of Yale District (S.D.Y.D.). It is situated on the land leased from the province (Crown land) by the Regional District of Okanagan-Similkameen (RDOS).

2.2 Site Area

The total area of the Site is approximately 8.2 Hectares (Ha). The property located immediately to the west of the Site is owned by Nature Trust of BC (a land conservation organization). The land to the east and south is designated Crown land.

2.2.1 Available Land for Future Expansion

The footprint of the existing composting area is approximately 0.48 Ha. The Site has limited undeveloped land area. However, it has good infrastructure for additional organics processing in the future and can accommodate feedstock and product storage required for seasonal product marketing and beneficial use.

2.3 Operational Permit/Certificate

The Site is currently operated as a sanitary landfill under Permit PR 03954 (originally issued on May 14, 1975 and amended on July 22, 1993). Operational Certificate 15279 was issued by the BC Ministry of Environment (MoE) on June 21, 2011, under the provisions of the *Waste Management Act*. The Site is authorized to manage solid waste limited to DLC waste and recyclable material from the RDOS.

2.4 Site History and Ownership

The Site is reported to have been in operation since before 1979. Until 2004, it accepted municipal waste from residential and commercial sources from Okanagan Falls, Heritage Hills, Lakeshore Highlands, and the surrounding rural area (AMEC 2014). Due to the regional sensitivity with respect to wildlife, no municipal waste has been accepted at the Site since November 2004. The Site has since become the Regional Service Area's Centre for DLC waste only. The regular residential or commercial wastes in the Site service areas are sent to Campbell Mountain Landfill. The Site also accepts recyclables, wood and yard waste, metal, propane tanks, tires, and lead acid batteries.

2.5 Service Population and Demography

The Site serves the RDOS as a DLC landfill for the Campbell Mountain and Keremeos Transfer Station Service Areas. Figure 3 shows the service area to the Site. Based on Statistics Canada 2011 Census, the total population served by the Site is 47,414. However, the Site only takes the DLC waste from this population as all residential and commercial waste goes to other landfills.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 59,000.

The demographics of the area surrounding the Site are generally a mix of year-round residents, seasonal population, and agricultural staff.

2.6 Site Topography

The Landfill has been developed on a bedrock knoll in the foothill region southwest of Mount Christie. The Site slopes from southeast to northwest with 61 m of elevation difference. There is no surface waterbody situated on or in the close proximity to the Site. McLean Creek is located approximately 75 m north of the northern site boundary, and Shuttleworth Creek is approximately 750 m south of the south site boundary (AMEC 2014).

2.7 Climate Conditions

There are no weather stations in Okanagan Falls; however, the climate conditions are very similar to Penticton where Climate Normals data is available for the Penticton Airport.

The Penticton Airport climate is similar to the rest of the RDOS. There is little precipitation throughout the year. Summers are hot and dry and winters are short and mild. The average of daily high in January is 1.8 degrees

Celsius. The average annual precipitation is 346 mm. June is the wettest month with an average precipitation of 46.3 mm. February is the driest month with an average precipitation of 19.8 mm (Environment Canada 2014).

2.8 Asset and Equipment on Site

The equipment that is used on site for daily landfill activity, composting activity, and other maintenance are listed below:

- Kamatsu 320 Loader;
- Kamastu 200 Excavator;
- 1500 Gallon Water Truck Single Axel;
- Trashmater rex 335 Compactor; and
- Tandem Axel Bin Truck.

2.9 Water Availability

No water is available on site. Irrigation water is currently hauled from a ranch which is less than 2 km away from the Site.

2.10 Transportation

The Site is located close to the centre of the RDOS with respect to driving times. The site is located immediately east of Okanagan Falls and has a calculated 34 minute driving time to the next nearest solid waste management facility (Oliver Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, leaf and yard waste (green waste), white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following sections describe the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site accepts green waste, white wood (Photo 1 and Photo 2) and biosolids. The current practice involves a windrow composting system to co-compost green waste with biosolids. Uncomposted wood chips are supplied, using a waiver, to the general public. Photo 3 and Photo 4 (attached) show the compost pile and compost storage pile, respectively. Due to the fact that the Site no longer accepts municipal solid waste, no other organic materials are received at the Site. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site.

3.1.1 Source Separated Organic Waste

Source separated materials are quantified at the scalehouse and stored in different areas as shown on Figure 4 (attached). Table 1 summarizes the estimated quantity of source separated organics received at the Site in 2013.

Table 1: Estimated Tonnages of Organic Waste Currently Composted at Okanagan Falls Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	1,176	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. Green waste is co-composted with biosolids at the composting facility on site. Source: Scale data, 2013.
Biosolids	90	Biosolids from the Village of Keremeos are composted with chipped organics. Source: Scale data, 2013.
Total Currently Composted	1,266	Materials composted under current operations.
White Wood	1,271 (6,356 m ³)	White wood includes dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Source: As quantities of white wood vary widely by year, the average volume (m ³) of white wood from 2010-2013 was used for this estimation. Assumed density 200 kg/m ³ to calculate tonnage.
Total Potential Feedstock for Composting	2,537	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

As there is limited land available for compost processing or storage, future organic processing activity is likely to be conducted within the existing composting facility area, which already fulfilled the setback requirement under the Regulation.

Some parts of the site (Figure 4) are designated as an Environmentally Sensitive Habitat Development Permit Area. Protection of habitats for bears and cougars should be considered in facility design as the Site is located next to a wildlife reserve. The facility should be well-secured to prevent bears and cougars from accessing the Site. If development were to take place in these areas, additional permits and/or approvals may be required.

4.2 Hydrogeological Considerations

The water table within the existing composting area is reported to be in the range of 8.3 m to 13 m (Western Water Associates Ltd. 2014). Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

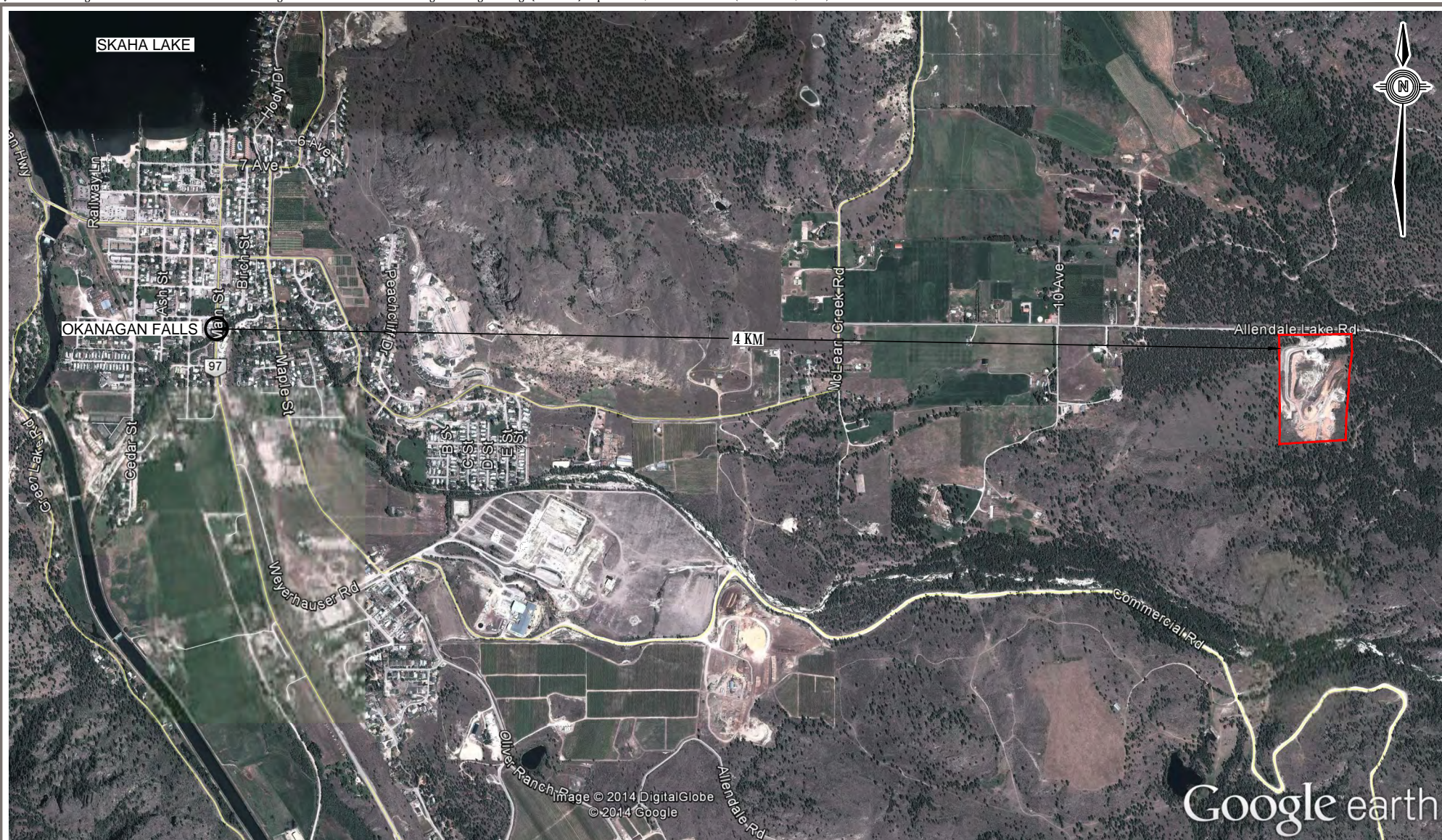
Odours may be developed as a natural part of feedstock degradation during composting process. Odour generation from the organic diversion activity should be considered in the facility design. Because the Site is located in a relatively isolated area surrounded by forested area in all directions, odour issue to the public is expected to be minimal compared to other RDOS sites. The nearest receptor (home or commercial building) to the Site is approximately 600 m away. Within a 1 km radius of the Site, there are approximately 15 receptors. The majority of the receptors are to the west of the Site.

REFERENCES

- AMEC Environmental & Infrastructure, A division of AMEC Americans Limited. Okanagan Falls Landfill Design, Operation and Closure Plan, Regional District of Okanagan – Similkameen, January 16, 2014.
- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- Canadian Climate Normals 1981-2010 Station Data – Penticton Airport, British Columbia, Climate ID 1126150. 2014. Environment Canada.
- CH2MHILL. December 2010. Regional Organics Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Ministry of Environment. June 28, 2011. Operational Certificate MR 15279. Okanagan Falls, British Columbia.
- Western Water Associates Ltd., March 2014. 2013 Operations and Monitoring Report Okanagan Falls Landfill, Okanagan Falls, B.C.

FIGURES

Figure 2	Site Location
Figure 3	Okanagan Falls Landfill Service Area
Figure 4	Site Plan



LEGEND

— - APPROXIMATE SITE BOUNDARY

NOTES

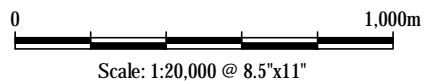
IMAGE PROVIDED BY GOOGLE EARTH PRO.

CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**

**ORGANIC MANAGEMENT CONSULTANT
OKANAGAN FALLS LANDFILL, OKANAGAN FALLS, BC**

SITE LOCATION

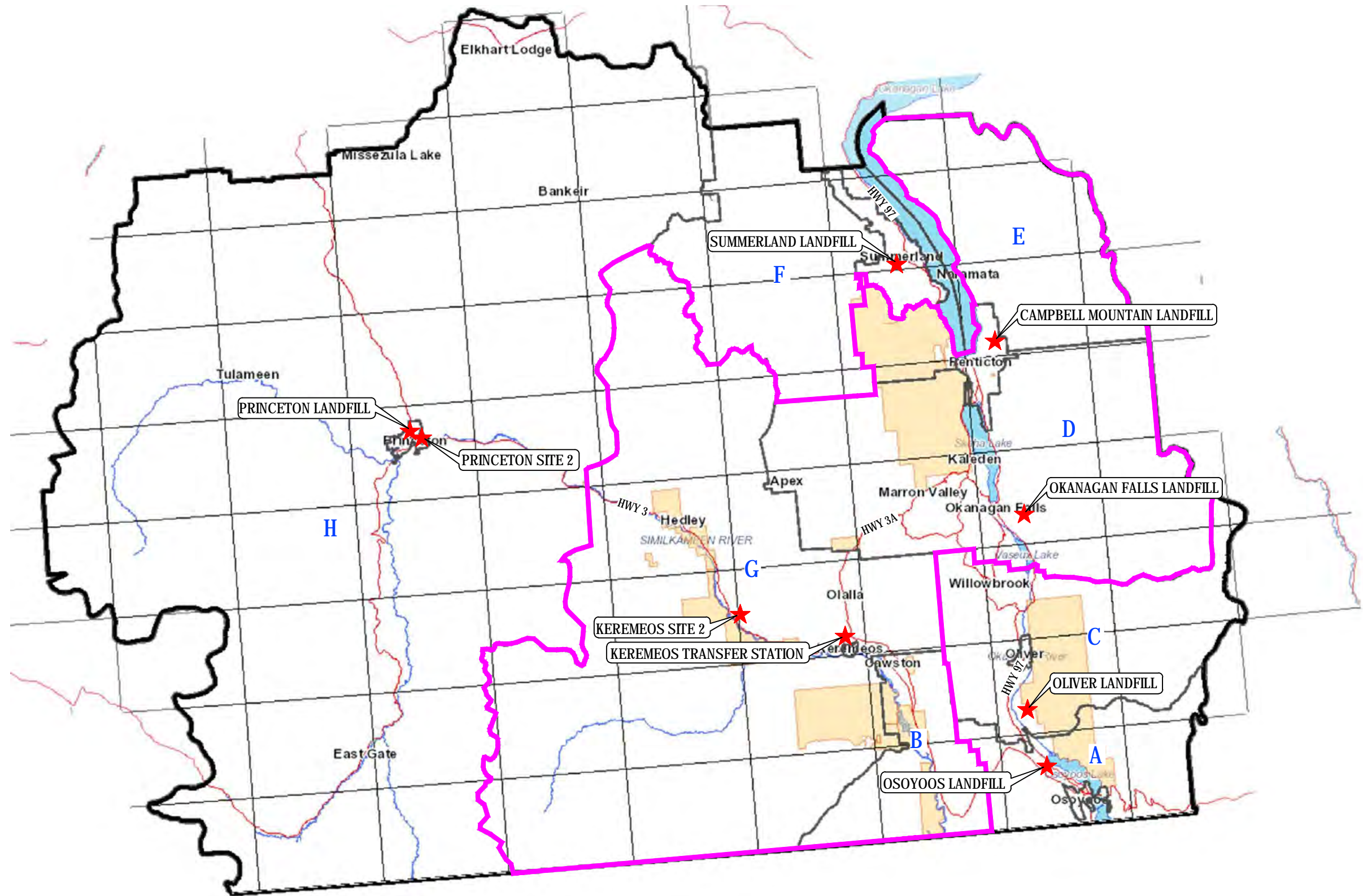


TETRA TECH EBA

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OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 2

Q:\Riverband\Drafting\ENV\SWMM\ENV\SWMM03094\C3D2013\Okanagan Falls\ENV\SWMM03094-01-Okanagan Falls Figure 2.dwg [FIGURE 2] June 06, 2014 - 4:17:50 pm (BY: MACKAY, MATT)



LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- OKANAGAN FALLS LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)

0 20,000m
Scale: 1:500,000 @ 11"x17"

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN

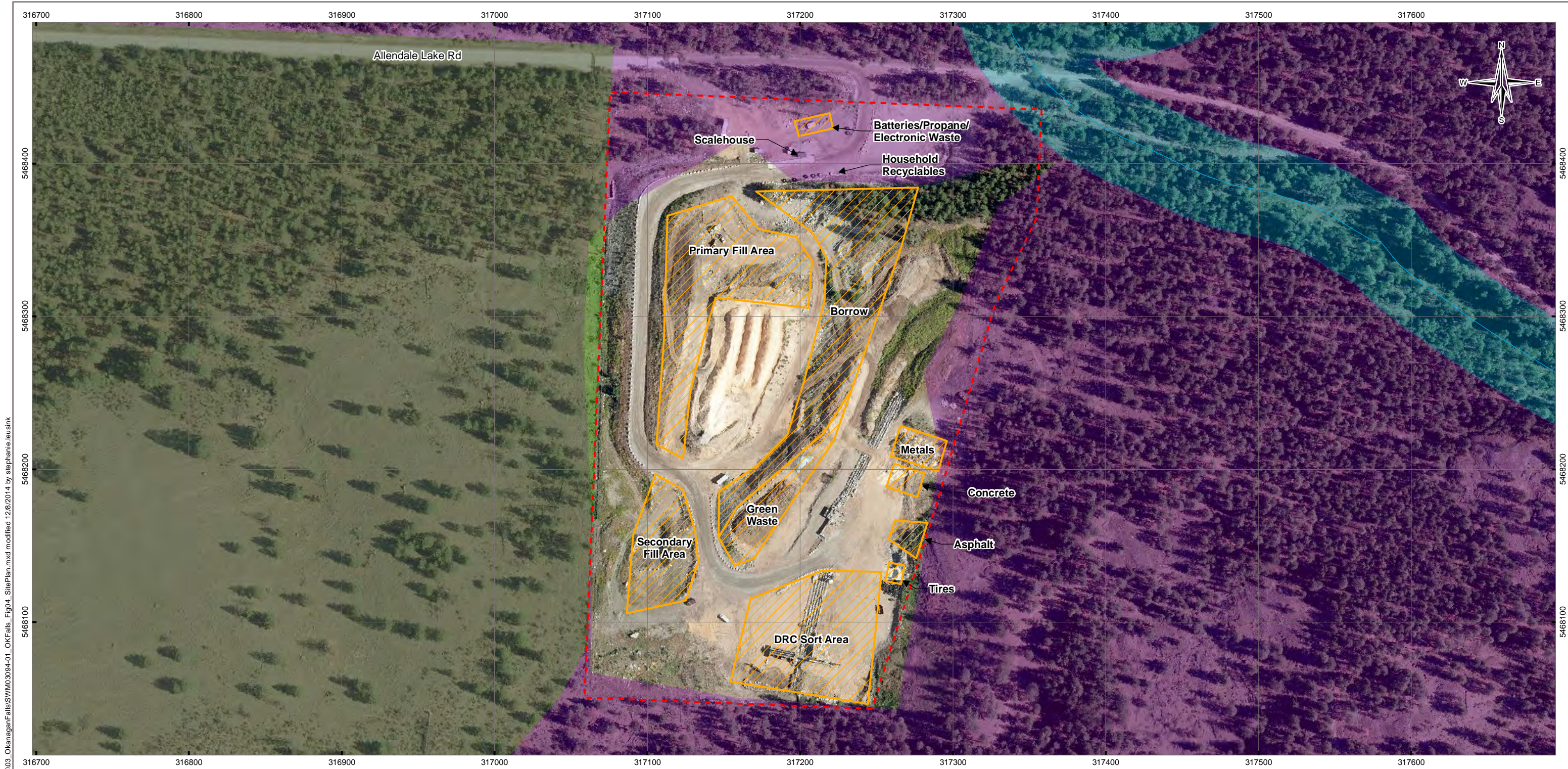


ORGANIC MANAGEMENT CONSULTANT
OKANAGAN FALLS LANDFILL, OKANAGAN FALLS, BC

OKANAGAN FALLS
LANDFILL SERVICE AREA

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE JUNE 2014		

Figure 3



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LEGEND

- Property Boundary (Approximate)
- Facility Area
- Watercourse / Waterbody
- Watercourse Development Area
- Agricultural Land Reserve
- Environmentally Sensitive Habitat

NOTES
Base data source:
ALR, Environmentally Sensitive Habitat and
Watercourses provided by RDOS.
Imagery provided by RDOS (2014).

STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
OKANAGAN FALLS LANDFILL
OKANAGAN FALLS, BC

Site Plan

PROJECTION UTM Zone 11	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:2,500 50 25 0 50 Metres		
FILE NO. SWM03094-01_OKFalls_Fig04_SitePlan.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
OFFICE Tt EBA-VANC	APVD BL	REV 0
DATE December 8, 2014		Figure 4

PHOTOGRAPHS

Photo 1	Green waste storage area
Photo 2	Wood waste storage area
Photo 3	Compost pile
Photo 4	Compost storage pile



Photo 1: Green waste storage area



Photo 2: Wood waste storage area



Photo 3: Compost pile



Photo 4: Compost storage pile

REPORT 4

SITE ASSESSMENT – OLIVER LANDFILL

1.0 INTRODUCTION

The Oliver Landfill (hereafter referred to as the “Site”) is located 6 km south of the Town of Oliver, British Columbia (BC), and has been operated by the Regional District of Okanagan-Similkameen (RDOS) since 1979. It is an active landfill that accepts municipal wastes, commercial wastes and recyclable materials generated from the Town of Oliver and surrounding areas. Currently it serves a total population of 8,925. The Site accepts source separated leaf and yard waste (green waste), white wood, and harvest waste. Figure 1 is an aerial photo of the Site.



Figure 1: Aerial photo of Oliver Landfill

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site's potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located in southern Okanagan approximately 6 km south of the Town of Oliver, BC. It is situated on the side of a hill, east facing to an unnamed mountain (Figure 2). The legal description of the Site location is Lot 954, District Lot 2450s, Similkameen Division of Yale District (S.D.Y.D.), Plan 14590, except Plan 31702.

2.2 Site Area

The Site has a total land area of approximately 13.8 Hectares (Ha). A privately owned vineyard is located south of the Site and a cattle feedlot is located immediately to the west of the Site.

2.2.1 Available Land and Future Expansion

The total footprint of the existing composting facility is approximately 0.6 Ha. There is limited undisturbed flat ground space. A gravel pit area (approximately 0.87 Ha), located in the southeast corner of the Site (Photo 8), could potentially be used for future facility expansion.

2.3 Operational Permit/Certificate

The Site is currently operated as a sanitary landfill under Operational Certificate No. 15280 (dated on April 26, 2011), which was issued by the BC Ministry of Environment (MoE), under the provisions of the *Waste Management Act* and in accordance with the *Approved Regional District of Okanagan – Similkameen Solid Waste Management Plan*. The Site is authorized to manage municipal solid waste (MSW) and recyclables from the Town of Oliver and surrounding areas.

2.4 Site History and Ownership

The Site is owned and operated by the RDOS. Landfilling activity started in 1979 at the southeast corner of the Site and progressed towards north and west. Historical operations included sewage lagoons and authorized open burning which were discontinued in the late 1990's (Conestoga-Rovers & Associates 2010).

2.5 Service Population and Demography

The Site accepts waste coming from the Town of Oliver and Electoral Area C. Figure 3 (attached) shows the Site service areas. Based on Statistics Canada 2011 Census, the total population served by the Site is 8,925.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 11,000.

The demographics of the service area are primarily agriculture with year-round residents, and a relatively small seasonal population.

2.6 Site Topography

The Site is located at an elevation of approximately 400 m above mean sea level (amsl) along the toe of a bedrock slope which dips to the south and west (Western Water Associates Ltd. 2014). No surface waterbodies are reported to be situated on site. The closest waterbody – Okanagan River is located approximately 1.6 km west of the Site.

2.7 Climate Conditions

Oliver has a semi-arid climate. Summers are hot and dry with an average daily high of 29.8 degrees Celsius in July (Environment Canada 2014). Winters are short and mild with an average daily high of 1.5 degrees Celsius in December. The average annual precipitation is 329.7 mm. June is the wettest month with an average precipitation of 41.5 mm. September is the driest month with an average precipitation of 18.7 mm. Oliver can be very windy in the spring and fall.

2.8 Asset and Equipment on Site

The equipment used on site for daily landfill activity, composting activity, and other maintenance activities are listed below:

- 345 Rex Trashmaster;
- 951-C Caterpillar Truck Loader;
- 1845 Case Skid Steer Loader; and
- Ford 9000 Dump Truck.

2.9 Water Availability

No surface water is available on site. Irrigation water is trucked to the Site. Water from the neighbouring cattle feedlot may be available for use in the near future at a cost.

2.10 Transportation

The Site is located south of Oliver and a calculated 18 minutes driving time to the next nearest solid waste facility (Osyoos Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, green waste, white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following sections describe the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site accepts source separated green waste, wood waste and harvest (fruit) waste (Photos 1 to 3). Chipped clean wood waste is stored separately on site (Photo 4). The current practice involves a windrow composting system, which is operated by B&B Wood Grinding Inc. to compost organics. The finished compost products are sold to the public. Photos 5 to 7 (attached) show the composting area, compost storage area, and the overlook of the composting system. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control onsite.

3.1.1 Source Separated Organic Waste

At the Site, three categories of source separated organic waste are identified and quantified at the scalehouse and are stored in different areas as shown on Figure 4 (attached). Table 1 (below) summarizes the type of organic waste in each category and the quantity received in 2013.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site service areas are currently disposed by landfilling. Food waste and compostable paper are currently disposed with the residential and industrial, commercial and institution (ICI) sector wastes. Harvest waste from the agricultural sector is also a potential organic waste source. Some harvest waste is already composted on site.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total MSW stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. Based on these assumptions, there is an estimated 1,313 tonnes/year that can be added to the organic waste stream.

3.1.2.2 Harvest Waste

The wine industry has a strong presence in the Site service areas. Wineries generates a significant amount of organic waste such as fruit waste (spoiled or unsalable fruit including apples, peaches, pears, grapes, etc.) and food processing waste such as fruit pomace (organic matter left after juice pressing) as well as pits. In this assessment, these wastes are referred to as harvest waste.

Harvest waste is seasonal and usually generated from June to November. Though the Site receives approximately 700 tonnes of harvest waste in the form of pre-consumer fruit waste per year, there may be additional harvest waste available. Furthermore, the volume of harvest waste varies greatly from year to year. For example, in 2013 the amount of harvest waste was higher due damage to cherry crops as a result of hail. Potential harvest waste tonnages are not available at this time.

Table 1: Estimated Tonnages of Organic Waste Currently Composted and Available for Composting at Oliver Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	1,997	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. These are composted on site. Source: Scale data, 2013.
Harvest Waste	674	Consists of pre-consumer fruit waste that is source-separated and composted on site. Note that the amount of harvest waste may vary significantly from year to year, depending on weather and growing conditions. Source: Scale data, 2013.
Total Currently Composted	2,671	Materials composted under current operations.
White Wood	1,174 (5,868 m ³)	White wood includes dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Source: As quantities of white wood vary widely by year, the average volume (m ³) of white wood from 2010-2013 was used for this estimation. Assumed density 200 kg/m ³ to calculate tonnage.
Food Waste and Compostable Paper	1,313	Includes all pre- and post-consumer food waste, food-soiled paper, waxed paper, paper towels, and other compostable single-use products. Estimated assuming 40% of MSW is food waste and compostable paper, of which 65% is diverted. This is based on the assumptions in the RDOS Solid Waste Management Plan (2011).
Total Potential Feedstock for Composting	5,158	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

As there is limited land available for compost processing or storage, future organic processing activity is likely to be conducted within the existing composting facility area, which already fulfilled the setback requirement under the Regulation.

Some parts of the Site (Figure 4) are designated as an Environmentally Sensitive Habitat Development Permit Area. If development were to take place in these areas, additional permits and/or approvals may be required.

The Site is approximately 5 km away from the Oliver Municipal Airport. Although the Organic Matter Recycling Regulation (OMRR) does not determine a distance that compost sites should be away from airports, the Landfill Criteria for Municipal Solid Waste requires an 8 km buffer for landfills. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada's bird-hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport.

Due to the proximity of the Site to the Oliver Municipal Airport, it is advised that Transport Canada be consulted before siting a compost facility which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

4.2 Hydrogeological Considerations

The water table within the existing composting area is reported to be in the range of 22.29 m to 53.05 m (Western Water Associates Ltd. 2014). Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during composting process. Due to downwash meteorological pattern to the city downhill, odour generation from the organic diversion activity should be considered in the facility design. A potential difficulty may be determining whether odour complaints relate to composting operations at the Site or odours created at the adjacent feedlot. The nearest receptor (home or commercial building) to the Site is approximately 300 m away from the active compost site adjacent to the landfill property. Within a 1 km radius of the Site, there are approximately 10 receptors. A 1 km radius map of the Site is shown in Figure 5 (attached). Receptors are scattered in the area surrounding the landfill and are not clustered in a particular direction from the Site.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- British Columbia Ministry of Environment (MOE). 1997. Draft Operational Certificate 15274.
- CH2MHILL. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Conestoga – Rovers & Associates. June 2010. Operation and Closure Plan – Oliver Landfill Site, Oliver Landfill, Oliver, British Columbia.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Oliver, British Columbia, Climate ID 1125760.
- Ministry of Environment. April 26, 2011. Operational Certificate 15280. Town of Oliver. Oliver, British Columbia.
- Western Water Associates Ltd. March 2014. 2013 Operations and Monitoring Report, Oliver Landfill, Oliver, B.C.

FIGURES

Figure 2	Site Location
Figure 3	Oliver Landfill Service Area
Figure 4	Site Plan
Figure 5	Receptors within 1 km of Site

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LEGEND

— - APPROXIMATE SITE BOUNDARY

NOTES
IMAGE PROVIDED BY GOOGLE EARTH PRO.



Scale: 1:40,000 @ 8.5"x11"

CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**



TETRA TECH EBA

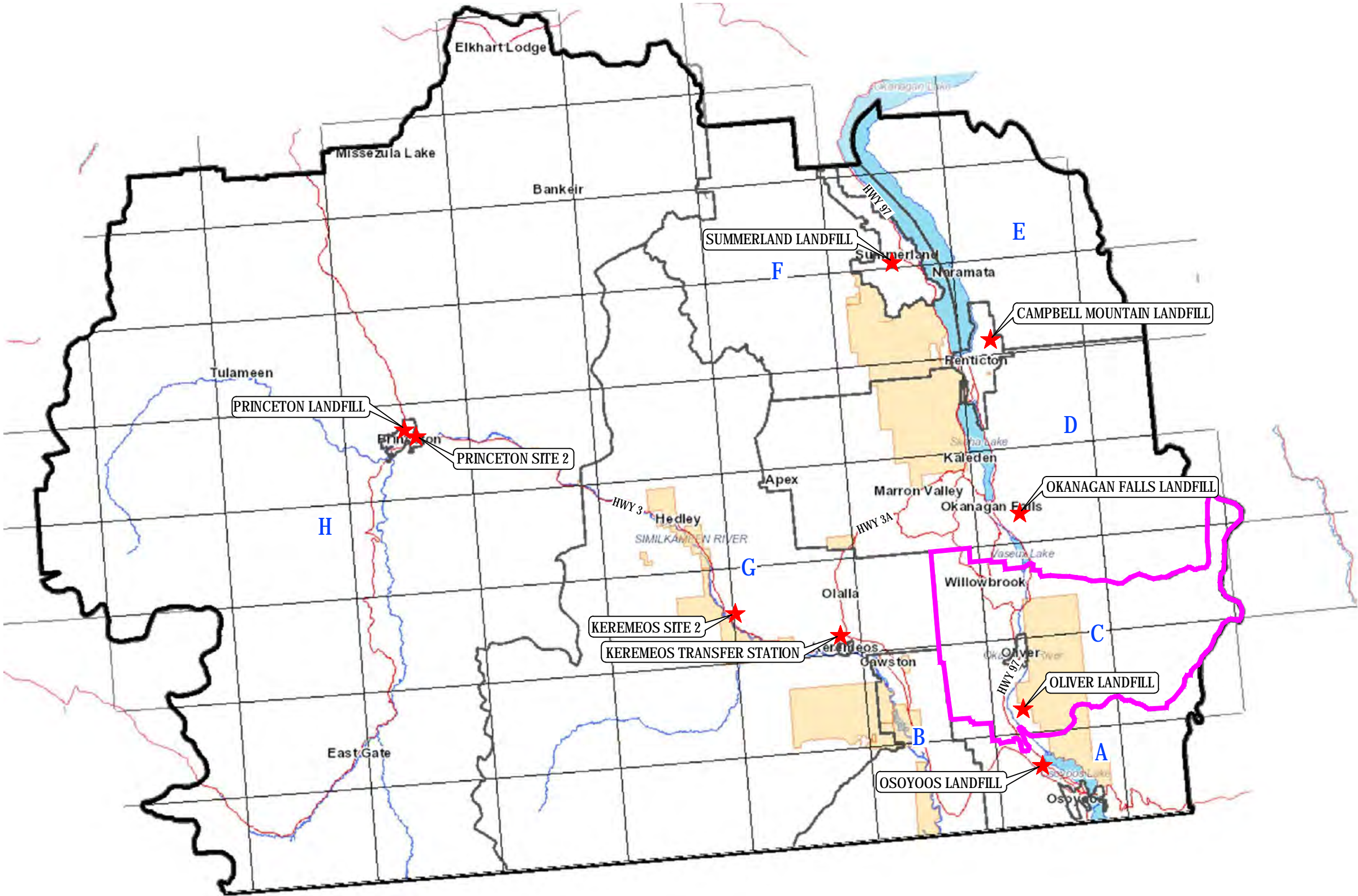
**ORGANIC MANAGEMENT CONSULTANT
OLIVER LANDFILL, OLIVER, BC**

SITE LOCATION

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 2

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LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- OLIVER LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)

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Scale: 1:500,000 @ 11"x17"

CLIENT
REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



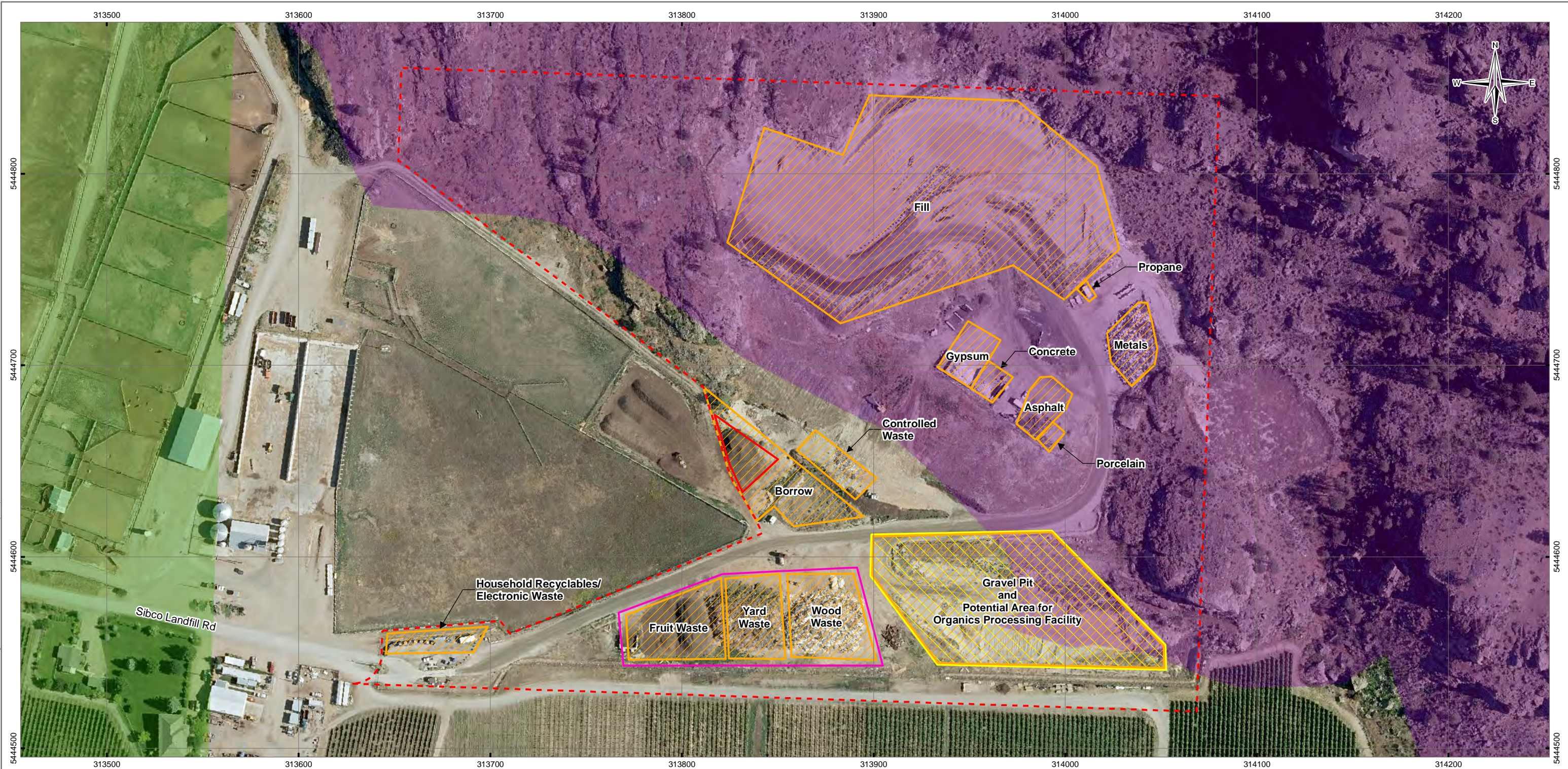
ORGANIC MANAGEMENT CONSULTANT
OLIVER LANDFILL, OLIVER, BC

OLIVER LANDFILL
SERVICE AREA

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 3

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LEGEND



- Property Boundary (Approximate)
- Potential Area for Organics Processing Facility
- Existing Compost Area
- Recieving and Composting Area
- Other Facility Area
- Agricultural Land Reserve
- Environmentally Sensitive Habitat

NOTES
Base data source:
ALR and Environmentally Sensitive Habitat
provided by RDOS.
Imagery provided by RDOS (2014).

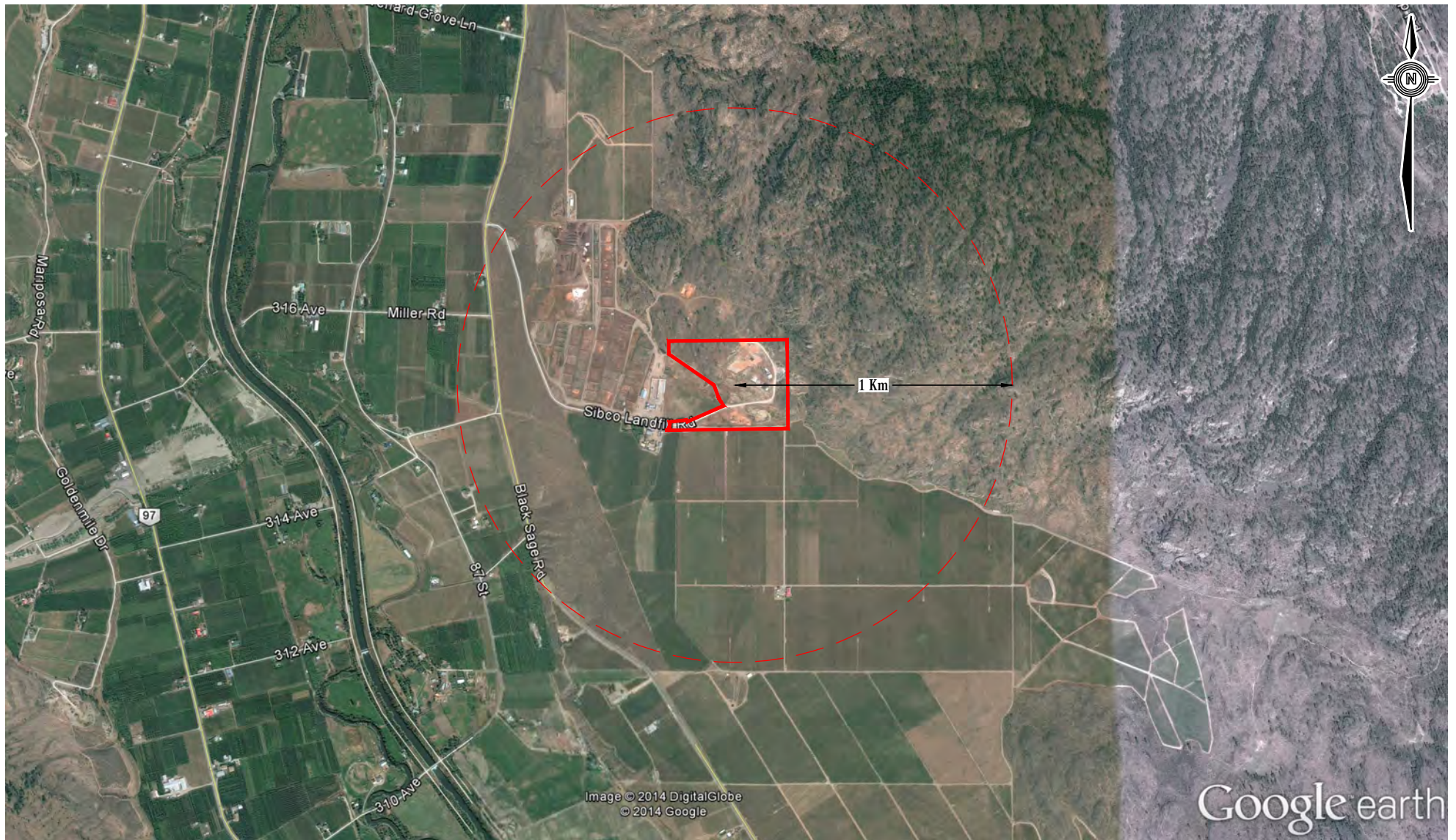
STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
OLIVER LANDFILL, OLIVER, BC

Site Plan

PROJECTION UTM Zone 11		DATUM NAD83		CLIENT Regional District of Okanagan-Similkameen	
Scale: 1:2,000 40 20 0 40  Metres				 TETRA TECH EBA	
FILE NO. SWM03094-01_Oliver_Fig04_SitePlan.mxd					
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ	APVD BL		
OFFICE Tt EBA-VANC		DATE December 8, 2014		Figure 4	

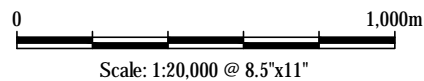




LEGEND

- - APPROXIMATE SITE BOUNDARY
- - - - - - AREA IN 1Km RADIUS

NOTES
IMAGE PROVIDED BY GOOGLE EARTH PRO.



CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



ORGANIC MANAGEMENT CONSULTANT
OLIVER LANDFILL, OLIVER, BC

RECEPTORS WITHIN 1KM OF SITE

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD BL	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 5

PHOTOGRAPHS

Photo 1	Green waste storage area
Photo 2	Clean wood waste storage area
Photo 3	Fruit waste storage area
Photo 4	Wood chip storage area
Photo 5	Composting area
Photo 6	Compost storage area
Photo 7	Overview of composting and feedback receiving area
Photo 8	Gravel pit



Photo 1: Green waste storage area



Photo 2: Clean wood waste storage area



Photo 3: Fruit waste storage area



Photo 4: Wood chip storage area



Photo 5: Composting area



Photo 6: Compost storage area



Photo 7: Overview of composting and feedback receiving area



Photo 8: Gravel pit

REPORT 5

SITE ASSESSMENT – OSOYOOS LANDFILL

1.0 INTRODUCTION

The Osoyoos Landfill (hereafter referred to as “the Site”) is located on the Osoyoos West Bench, approximately 5 km northwest of the Town of Osoyoos, British Columbia (BC). It serves a population of 6,737 from the Town of Osoyoos and the surrounding rural areas including Anarchist Mountain to the east between Rock Creek and Osoyoos (Electoral Area A). The Site accepts source separated leaf and yard waste (green waste), harvest waste, and white wood.

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site’s potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located in southern Okanagan approximately 5 km northwest of the Town of Osoyoos, BC, and approximately 800 m to the southwest of Osoyoos Lake. It is situated on the locally called Osoyoos West Bench approximately 500 southwest of Highway 97, west facing to Mount Kruger (Figure 1). The legal description of the site location is Lot 993, Plan 22982 and Lot 829, Plan 5102, both in District Lot 2450s, Similkameen Division of Yale District (S.D.Y.D.).

2.2 Site Area

The Site has a total land of approximately 14 Hectares (Ha). The lower land located east of the Site are mainly orchards and vineyards.

2.2.1 Available Land and Future Expansion

The footprint of the existing composting area is approximately 0.52 Ha (87 m long by 60 m wide). The site has adequate infrastructure for additional organics processing in the future and can accommodate feedstock and processing. There is no space for buffer development. There is limited undisturbed flat ground space.

2.3 Operational Permit/Certificate

The Site is currently operated as a sanitary landfill under Operational Certificate No. MR 15273 (dated on March 26, 2002), which was issued by the BC Ministry of Water, Land, and Air Protection, under the provisions of the *Waste Management Act* and in accordance with the *Approved Regional District of Okanagan – Similkameen Solid Waste Management Plan*. The Site is authorized to manage municipal solid waste (MSW) generally from the Osoyoos area and other wastes as allowed by the Regional Waste Manager.

2.4 Site History and Ownership

The Site is located on public land has been owned and operated by the Town of Osoyoos for more than 60 years. In the 1950s and 1960s, the Site was first developed using trench and cover method (True Consulting 2014). Landfilling started in the 1970s. The composting of organic wastes started in 2008 and has since been operated by the private landfill operation contractor – B & B Wood Grinding Inc. (B&B).

2.5 Service Population and Demography

The Site accepts waste coming from the Town of Osoyoos and the surrounding rural areas including Anarchist Mountain to the east between Rock Creek and Osoyoos (Electoral Area A). Figure 2 shows the service area to the Site. Based on Statistics Canada 2011 Census, the total population served by the Site is 6,737.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the Regional District of Okanagan-Similkameen (RDOS) is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 8,400.

The demographics of the service area are a mix of year-round residents, seasonal population, and seasonal agriculture staff.

2.6 Site Topography

The landfill is located on elevated land approximately 800 m southwest of Osoyoos Lake. The site slope is approximately 6% from west to east. No surface waterbodies are reported to be situated on site. Provincial water course development maps indicate a draw running through the site as a potential stream (Figure 3) but no water has been found to pass through this area.

2.7 Climate Conditions

Osoyoos is the driest place in the RDOS with a semi-arid climate. Summers are hot and dry with an average daily high of 31.5 degrees Celsius in July (Environment Canada 2014). Winters are short and mild with an average of daily high of 2 degrees Celsius in January and December. The average annual precipitation is 323.2 mm. June is the wettest month with an average precipitation of 47.1 mm. September is the driest month with an average precipitation of 14.9 mm.

2.8 Asset and Equipment on Site

The equipment that is used on site for daily landfill activity, composting activity and other maintenance are listed below:

- Compost grinder (CBI Road Mill);
- Compost Screener;
- Compactor; and
- Front-end loader.

2.9 Water Availability

No surface water is available on site. Seasonal irrigation water is trucked to the Site and stored in a 5,000 gallon holding tank.

2.10 Transportation

The site is located northwest of Osoyoos and has a calculated 18 minute driving time to the next nearest solid waste facility (Oliver Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, green waste, white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following section describes the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site has an active source separation system for green waste, harvest waste (Photos 1 and 2) and wood waste. The current practice involves a windrow composting system. The finished compost products are sold to the public or used on site as final liner. Photos 3 and 4 (attached) show the composting area. Photo 5 (attached) provides an overview of the whole composting area. The composting area is shown in the Site plan (Figure 3). White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site.

3.1.1 Source Separated Organic Waste

At the Site, four categories of source separated organic waste are identified and quantified at the scalehouse. Table 1 (below) summarizes the type of organic waste in each category and the quantity received in 2013.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site's service area are currently disposed by landfilling. Food waste and compostable paper are currently disposed with the residential and industrial, commercial, and institution (ICI) sector wastes. Based on the interview with the composting operator (B&B), the amount of harvest waste received on site was minimal.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total MSW stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. Based on these assumptions, there is an estimated 1,061 tonnes/year that can be added to the organic waste stream.

3.1.2.2 Harvest Waste

The wine industry has a strong presence in the Site's service area. Wineries generates a significant amount of organic waste such as fruit waste (spoiled or unsalable fruit including apples, peaches, pears, grapes, etc.) and food processing waste such as fruit pomace (organic matter left after juice pressing) as well as pits. In this assessment, these wastes are referred to as harvest waste.

Harvest waste is seasonal and usually generated from June to November. The Site tracks a small amount of harvest waste (3 tonnes/year); other harvest waste is generally brought in with green waste. Therefore, the harvest waste tonnages available at this time are much lower than the actual amount.

Table 1: Estimated Tonnages of Organic Waste Currently Composted and Available for Composting at Osoyoos Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	832	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. This is composted on site. Source: 2013 Operations and Monitoring Report.
Harvest Waste	3	Seasonal fruit and vegetable waste received between June and October. This is composted on site. Source: 2013 Operations and Monitoring Report.
Total Currently Composted	835	Materials composted under current operations.
White Wood	224	White wood includes dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. White wood is periodically shredded and used for slope stabilization, mulching, and surface water control on site. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Source: 2013 Operations and Monitoring Report.
Food Waste and Compostable Paper	1,061	Includes all pre-consumer and post-consumer food waste, food-soiled paper, waxed paper, paper towels, and other compostable single-use products. Estimated assuming 40% of MSW is food waste and compostable paper, of which 65% is diverted. This is based on the assumptions in the RDOS Solid Waste Management Plan (2011).
Total Potential Feedstock for Composting	2,120	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes. The closest waterbody is Lake Osoyoos, approximately 800 m northeast of the Site.

As there is limited land available for compost processing or storage, future organic processing activity is likely to be conducted within the existing composting area, which already fulfilled the setback requirement under the Regulation.

The Site is on land designated as Agricultural Land Reserve (ALR) and parts of the site are in an Environmentally Sensitive Habitat Development Permit Area (Figure 3). Industrial composting, where more than 50% of the compost is not used on property, would require ALC approval or removal of the property from the ALR. Although

Water Course Development maps indicate a draw running through the site as a potential stream (Figure 3), no water has been found to pass through this area. If development were to take place in these areas, additional permits and/or approvals may be required.

The Site is approximately 3 km away from the Osoyoos Airport. Although the Organic OMRR does not determine a distance that compost sites should be away from airports, the landfill criteria for MSW requires an 8 km buffer for landfills. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada's bird-hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport.

Due to the proximity of the Site to the Osoyoos Airport, it is advised that Transport Canada be consulted before siting a compost facility which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

4.2 Hydrogeological Considerations

The water table within the existing composting area is reported to be 3.6 m (True Consulting 2014). Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during composting process. Due to downwash meteorological pattern to the lake residents, odour generation from the organic diversion activity should be considered in the facility design. The nearest receptor (home or commercial building) to the Site is approximately 500 m away. Within a 1 km radius of the Site, there are approximately 40 receptors. A 1 km radius map of the Site is shown in Figure 4 (attached). The majority of the receptors are to the northeast of the Site along Osoyoos Lake. The Desert Centre, a seasonal tourist attraction, and Fields Lease Ecological Reserve are adjacent to the Site and should also be considered for odour concerns.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- CH2MHILL. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Osoyoos West, British Columbia, Climate ID 1125865.
- Ministry of Water, Land and Air Protection. March 24, 2002. Operational Certificate MR 15273. Town of Osoyoos. Osoyoos, British Columbia.
- True Consulting. March 2014. 2013 Landfill Annual Report (MR 15273). Town of Osoyoos.

FIGURES

Figure 1	Site Location
Figure 2	Osoyoos Landfill Service Areas
Figure 3	Site Plan
Figure 4	Receptors Within 1 km of Site



LEGEND

- APPROXIMATE SITE BOUNDARY

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



TETRA TECH EBA

**ORGANIC MANAGEMENT CONSULTANT
OSOYOOS LANDFILL, OSOYOOS, BC**

SITE LOCATION

PROJECT NO.

ENVSWM03094-01

DWN

MMK

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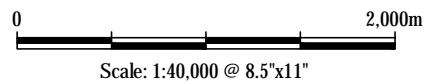
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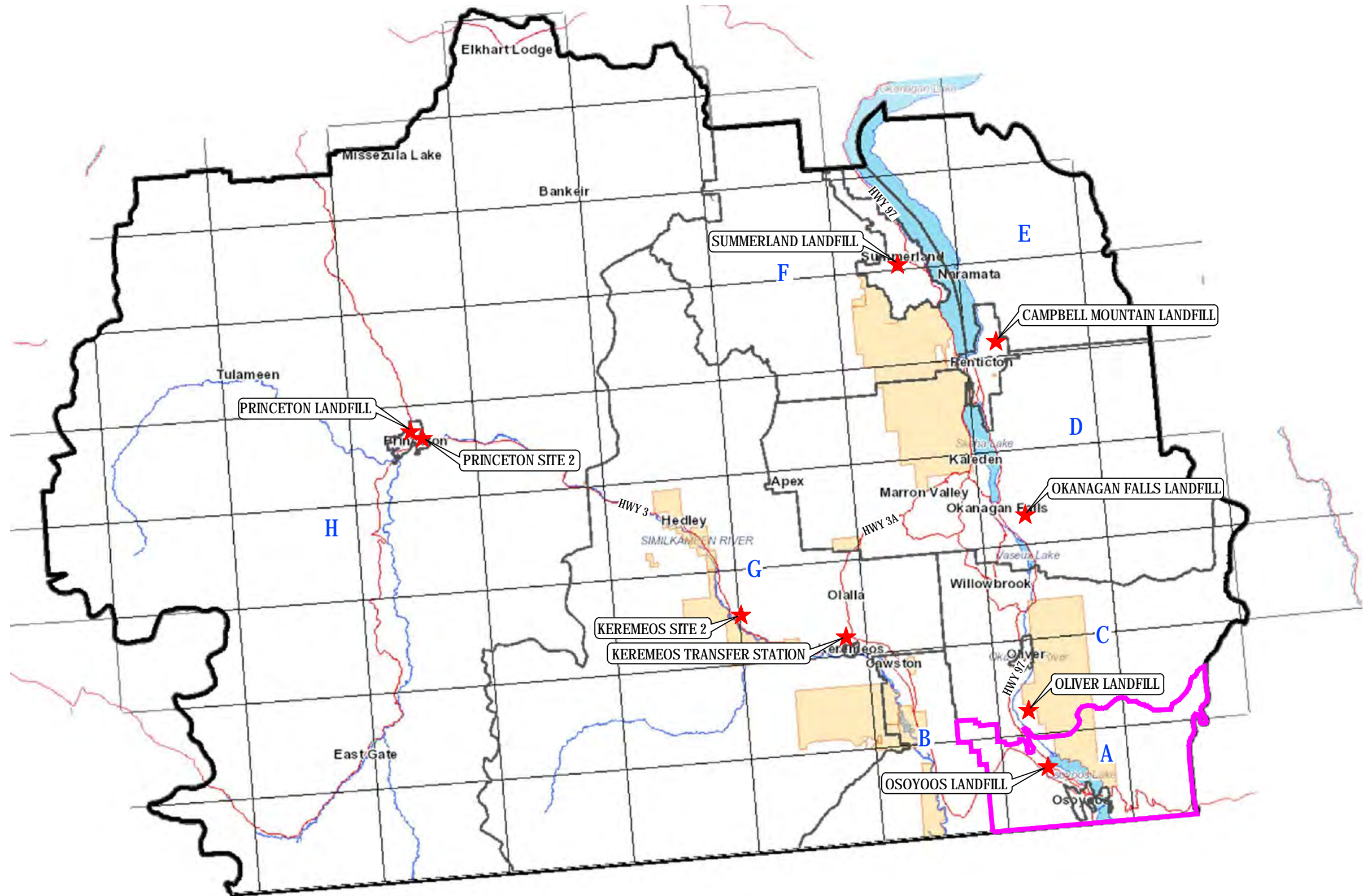
DATE

JUNE 2014






Figure 1



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LEGEND

-  - ELECTORAL AREA BOUNDARY
-  - MAJOR HIGHWAYS
-  - INDIAN RESERVE
-  - LAKES
-  - OSOYOOS LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)

CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**



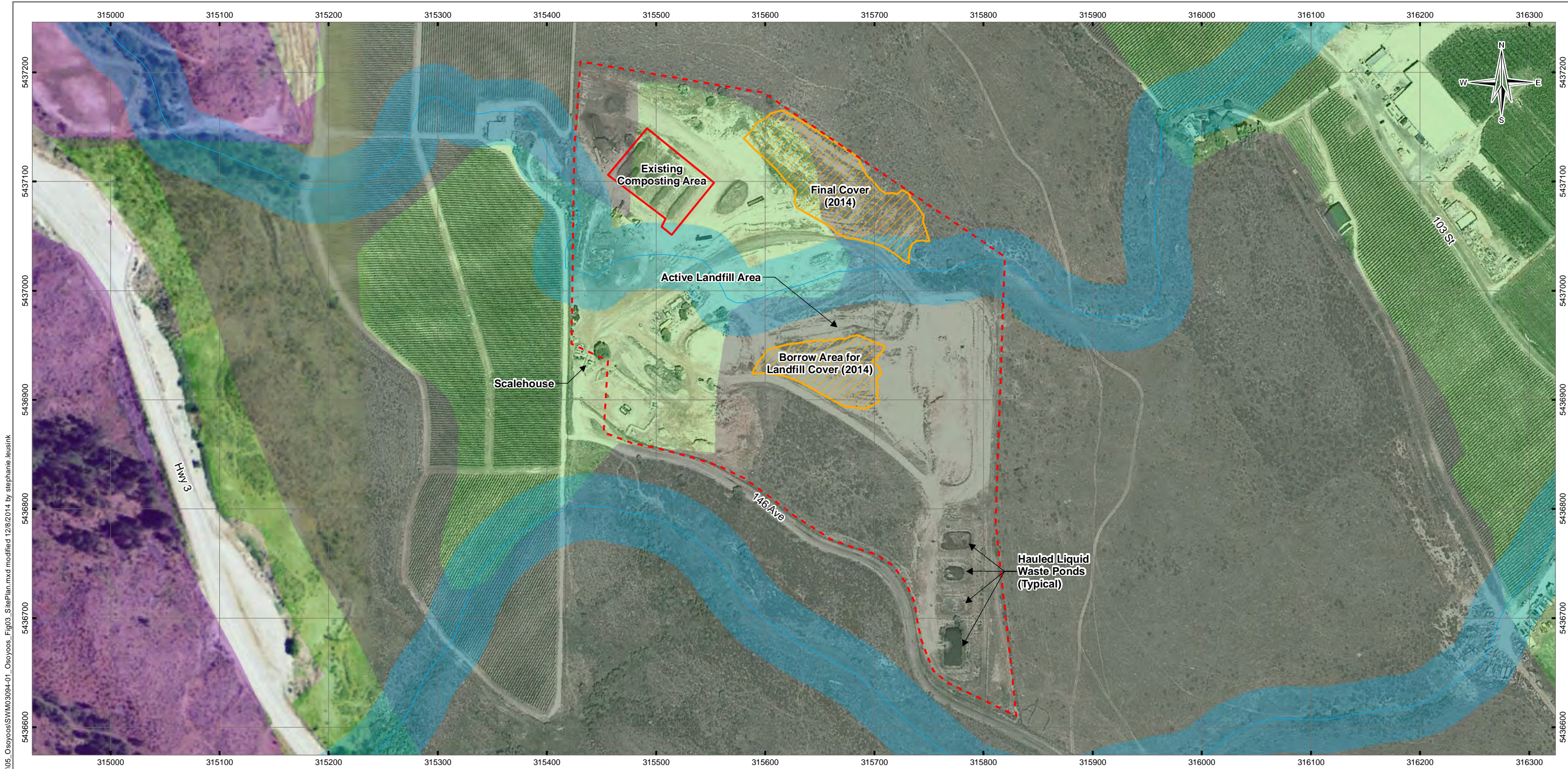
**ORGANIC MANAGEMENT CONSULTANT
OSOYOOS LANDFILL, OSOYOOS, BC**

**OSOYOOS LANDFILL
SERVICE AREA**

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE JUNE 2014		

Figure 2

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LEGEND

- Property Boundary (Approximate)
- Existing Composting Area
- Other Facility Area
- Watercourse / Waterbody
- Watercourse Development Area
- Agricultural Land Reserve
- Environmentally Sensitive Habitat

NOTES
Base data source:
ALR, Environmentally Sensitive Habitat and
Watercourses provided by RDOS.
Imagery from Google Earth Pro;
Digital Globe (2012).

ORGANIC MANAGEMENT CONSULTANT
OSOYOOS LANDFILL, OSOYOOS, BC

Site Plan

PROJECTION UTM Zone 11		DATUM NAD83		<div>CLIENT</div> <div>Regional District of Okanagan-Similkamee</div> <div><div><div>Tt</div><div>TETRA TECH EBA</div></div></div>	
<div>Scale: 1:3,500</div> <div>5025050</div> <div><div></div></div> <div>Metres</div>					
FILE NO. SWM03094-01_Osoyoos_Fig03_SitePlan.mxd					
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ	APVD BL	REV 0	<div>Figure 3</div>
OFFICE Tt EBA-VANC	DATE December 8, 2014				



STATUS
ISSUED FOR USE



LEGEND

- - APPROXIMATE SITE BOUNDARY
- - - - AREA IN 1 KM RADIUS

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.



Scale: 1:20,000 @ 8.5"x11"

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



TETRA TECH EBA

**ORGANIC MANAGEMENT CONSULTANT
OSOYOOS LANDFILL, OSOYOOS, BC**

RECEPTORS WITHIN 1 KM OF SITE

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 4

PHOTOGRAPHS

Photo 1	Green waste storage area
Photo 2	Bunker for harvest waste storage
Photo 3	A typical windrow
Photo 4	Composting area
Photo 5	Composting area overview



Photo 1: Green waste storage area



Photo 2: Bunker for harvest waste storage



Photo 3: A typical windrow



Photo 4: Composting area



Photo 5: Composting area overview

REPORT 6

SITE ASSESSMENT – PRINCETON LANDFILL

1.0 INTRODUCTION

The Princeton Landfill (hereafter referred to as the “Site”) is located approximately 1.5 km northeast of the Town of Princeton, British Columbia (BC). The Site has been operated by the Town of Princeton for 65 years. It serves the smallest population within the region. The Site was in operation without a scale until early 2014. Thus, there is no reliable record on the waste quantity received on site. Leaf and yard waste (green waste) is currently received by the Site, but there is currently no composting activity on site.

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site’s potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 1.5 km northeast of the Town of Princeton, BC and approximately 500 m north of the Similkameen River (Figure 1). The legal description of the Site location is District Lot 932, Block C, Plan B 5603, Kamloops Division of Yale Land District (K.D.Y.D.).

2.2 Site Area

The total area of the Site is approximately 24.2 Hectares (Ha). It is situated in a depression area, measuring approximately 200 m across. The land surrounding the Site is mostly open rangeland. Industrial properties are located northeast and southeast to the Site. There is an airport to the west of the Site.

2.2.1 Available Land and Future Expansion

The Site has limited undeveloped land area and has no space for buffer development. It has adequate infrastructure for receiving and appears to have space for organics processing on a bench area uphill and to the east of the Site, near the public road (Princeton-Summerland Road).

2.3 Operational Permit/Certificate

The Site is currently operated as a sanitary landfill under Operational Certificate 15276, which was issued by the BC Ministry of Environment (MoE) on May 2, 2011, under the provisions of the *Waste Management Act*. The Site is authorized to manage solid waste and recyclable material from the Town of Princeton and the surrounding area.

2.4 Site History and Ownership

The Town of Princeton has operated the Site for 65 years. It mainly serves the local population in Princeton. The vehicle scale was installed on site in February 2014. Therefore, there is no record regarding the categories and quantities of waste hauled to the Site.

2.5 Service Population and Demography

The Site has one of the smallest service populations within the Regional District of Okanagan-Similkameen (RDOS). It accepts waste coming from the Town of Princeton and Electoral Area H. Figure 2 shows the service area to the Site. Based on Statistics Canada 2011 Census, the total population in the service area is 4,492. The demographics of the service area are year-round residents with some forestry and seasonal population.

According to population projection study conducted by the BC Stats (April 2013), the average population growth rate in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 5,600.

2.6 Site Topography

The landfill is located in a circular shape depression, measuring approximately 200 m across. The rangeland surrounding the Site is approximately 10 m above the active filling area. The original depression was likely a glacial kettle, formed after the melting of a block of ice. The Site was probably enlarged by gravel extraction prior to being developed to a landfill (Sperling Hansen Associates, 2009). The Similkameen River is approximately 500 m south of the Site.

2.7 Climate Conditions

The Site is located in the northern part of the RDOS, which has a climate condition that is wetter than the southern RDOS. Summers are hot and dry with an average daily high of 26.7 degree Celsius in August. Winters are short and mild. The average of daily high in December is -2.4 degree Celsius. The average annual precipitation is 346.9 mm. June is the wettest month with the highest amount of rainfall of 37.6 mm. March is the driest month with an average precipitation of 16.5 mm (Environment Canada 2014).

2.8 Asset and Equipment on Site

The equipment that is used on site for daily landfill activity, composting activity, and other maintenance are listed below:

- Compactor;
- Excavator;
- Front-end Loader; and
- Grinder (available when needed).

2.9 Water Availability

No surface waterbody is available on site or located in the close vicinity. The current infiltration water is trucked from the industrial park located approximately 1.5 km north of the Site.

2.10 Transportation

The Site is located in northeast Princeton and has a calculated 49 minute driving time to the Keremeos Transfer Station. It is easy to access from the Town of Princeton, however, far from other service areas and landfill facilities in the region.

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, green waste, white wood, compostable paper, biosolids, agricultural waste, hog fuel from local mills, and slaughterhouse waste. The following section describes the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

There is no residential collection of yard waste in this landfill service area. There are no current or planned composting activities at the Site. A pile of source separated green waste is stored (Photo 1) and chipped periodically for slope stabilization, mulching and surface water control on site (Photo 2). Figure 3 shows the locations of the green waste pile and chipped wood pile. The Town of Princeton, BC contains the only remaining mill within the RDOS. A number of spin-off businesses, including a wood heating pellet company, have been developed in the community. Hog fuel in particular offers a potentially valuable amendment for a composting operation if it is available through a local source.

3.1.1 Source Separated Organic Waste

As there was no truck scale installed on site until early 2014, there is no reliable record on the waste quantity that was received on site. However, there are estimates of the quantities of organics received at the Site in the Regional Organic Waste Strategy (2010). Table 1 (below) summarizes the estimated quantity of source separated organics received at the Site in 2013, using data from 2009 adjusted for population growth.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site's service area are currently disposed by landfilling. Food waste and compostable paper currently disposed with the residential and industrial, commercial, and institution (ICI) sector waste is a potential organic waste source. Another potential source is wood processing waste from a nearby mill.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total municipal solid waste stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. As there was no truck scale installed on site until early 2014, the food waste and compostable paper quantity was estimated based on the average per capita generation in Osoyoos and Oliver. Based on these assumptions, there is an estimated 684 tonnes/year that can be added to the organic waste stream.

3.1.2.2 Hog Fuel

Hog fuel is a mix of coarse wood chips and wood fibre. This is generated from wood processing at the Weyerhaeuser Mill that is close to the Site.

Table 1: Estimated Tonnages of Organic Waste Currently Diverted and Available at Princeton Landfill (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	415	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. This is chipped periodically for slope stabilization, mulching and surface water control on site. Source: Regional Organic Waste Strategy adjusted for population growth from 2009 to 2013.
White Wood	696	White wood includes dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. Note that white wood piles were not present during the Site visit and this estimate accounts for times when there is white wood at the Site. This is chipped periodically for slope stabilization, mulching and surface water control on site. Source: Regional Organic Waste Strategy adjusted for population growth from 2009 to 2013.
Total Currently Diverted	1,111	Materials composted under current operations.
Food Waste and Compostable Paper	684	Includes all pre-consumer and post-consumer food waste, food-soiled paper, waxed paper, paper towels, and other compostable single-use products. Source: Estimated based on average per capita food waste and compostable paper calculated for Oliver and Osoyoos, and assumptions in the RDOS Solid Waste Management Plan (2011).
Hog Fuel	1,536 (7,680 m ³)	Mix of coarse chips and wood fiber from wood processing. Source: Annual estimate from Weyerhaeuser. Assumed density 200 kg/m ³ to calculate tonnage.
Total Potential Feedstock for Composting	3,331	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the Organic Matter Recycling Regulation (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

As there is limited land available for compost processing or storage, future organic processing activity is likely to be conducted within the existing composting facility area, which already fulfilled the setback requirement under the Regulation.

The Site is less than 1 km away from the Princeton Airport. Although the Organic Matter Recycling Regulation (OMRR) does not determine a distance that compost sites should be away from airports, the landfill criteria for Municipal Solid Waste requires an 8 km buffer for landfills. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada’s bird-

hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport.

Due to the proximity to the Princeton Airport, it is advised that the Town of Princeton consult with Transport Canada before siting a compost facility at the Princeton Landfill which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

4.2 Hydrogeological Considerations

The water table within the existing composting area is reported to be 40.55 m below the surface (Sperling Hansen Associates 2009). Due to the wetter climate in the area, leachate management should be considered in facility design. As per OMRR, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during composting process. Due to inversion and low mixing conditions in the valley, odour generation from the organic diversion activity should be considered in the facility design. The nearest receptor (home or commercial building) to the Site is approximately 500 m away. Within a 1 km radius of the Site, there are approximately 130 receptors. The majority of the receptors are at the RV parks to the east and south of the Site. The airport west of the Site should also be considered for odour management concerns.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- CH2MHill. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Princeton Airport, British Columbia, Climate ID 1126510.
- Ministry of Environment. May 2, 2011. Operational Certificate 15276. Town of Princeton, British Columbia.
- Sperling Hansen Associates. December 2009. Princeton Landfill Operations Update.

FIGURES

Figure 1	Site Location
Figure 2	Princeton Landfill Service Area
Figure 3	Site Plan

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LEGEND

— - APPROXIMATE PROPERTY BOUNDARY

NOTES
BASED ON IMAGE TAKEN FROM GOOGLE EARTH PRO.

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN

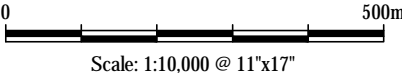


ORGANIC MANAGEMENT CONSULTANT
PRINCETON LANDFILL, TOWN OF PRINCETON, BC

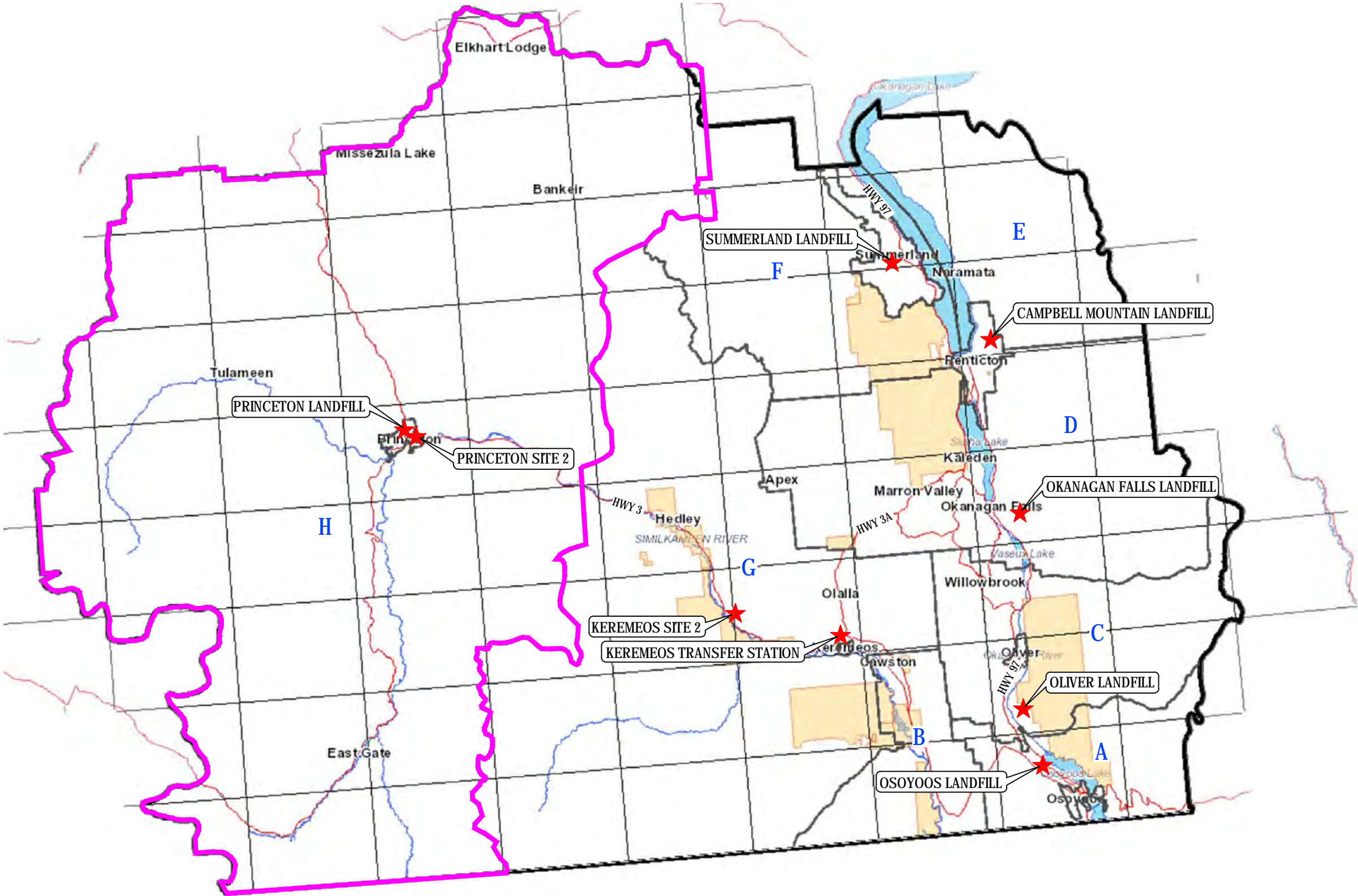
SITE LOCATION

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE JUNE 2014		

Figure 1



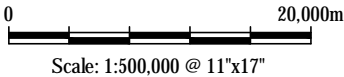
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LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- PRINCETON LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)



CLIENT
REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



ORGANIC MANAGEMENT CONSULTANT
PRINCETON LANDFILL, TOWN OF PRINCETON, BC

PRINCETON LANDFILL
SERVICE AREA

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE JUNE 2014		

Figure 2



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LEGEND

- Property Boundary (Approximate)
- Potential Area for Organics Processing Facility
- Facility Area
- Agricultural Land Reserve

NOTES
Base data source:
ALR provided by RDOS.
Imagery provided by RDOS (2013).

STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
PRINCETON LANDFILL
TOWN OF PRINCETON, BC

Site Plan

PROJECTION UTM Zone 10	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:3,000 50 25 0 50 Metres		
FILE NO. SWM03094-01_PrincetonLF_Fig03_SitePlan.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
OFFICE Tt EBA-VANC	APVD BL	REV 0
DATE December 8, 2014		

Figure 3

PHOTOGRAPHS

Photo 1	Green wood storage area
Photo 2	Pile of chipped wood waste
Photo 3	Undisturbed flat ground space



Photo 1: Green wood storage area



Photo 2: Pile of chipped wood waste



Photo 3: Undisturbed flat ground space

REPORT 7

SITE ASSESSMENT – PRINCETON HAYFIELD SITE

1.0 INTRODUCTION

The Princeton Hayfield Site (hereafter referred to as the “Site”) is located 1.6 km east of the Town of Princeton, British Columbia (BC). The Site consists of undeveloped land that is uphill from a lagoon treatment system operated by the Princeton Wastewater Department. Currently, there is no solid waste processing, recycling, transfer, or disposal activity at the Site. The Site was historically built up using mine tailings.

The following is a site assessment that reviews the Site’s conditions, potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 1.6 km east of the Town of Princeton, BC and approximately 150 m south of the Similkameen River (Figure 1).

2.2 Site Area

The total area of the Site is approximately 97 Hectares (Ha). Adjacent uses are river frontage, golf course, sawmill, cropland, and some industrial land.

2.2.1 Available Land and Future Expansion

The site has approximately 70 Ha available for organics processing in an area outside of the Agricultural Land Reserve (ALR). There is also space available for buffer development along the perimeter of the Site. The remaining area in the ALR can be used for organics processing. However, if more than 50% of the compost is used off site, it would require Agricultural Land Commission (ALC) approval or removal from the ALR.

2.3 Operational Permit/Certificate

As this is undeveloped land, there is no operational permit/certificate.

2.4 Site History and Ownership

The Site has historically been used for land application of organics. The Site is located on property owned by the Town of Princeton. A flattened area immediately south of the wastewater lagoons (included within the ALR) was used a hayfield. Princeton staff indicated the property was built up using mine tailings.

2.5 Service Population and Demography

The Site would have the same service population as the Princeton Landfill, which includes the Town of Princeton and Electoral Area H. Refer to Princeton Landfill report. Based on Statistics Canada 2011 Census, the total population in the service area is 4,492. The demographics of the service area are year-round residents with some agriculture and seasonal population.

According to population projection study conducted by the BC Stats (April 2013), the average population growth rate in the Regional District of Okanagan-Similkameen (RDOS) is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 5,600.

2.6 Site Topography

The Site is situated on a flat bench area above the Similkameen River, overlooking a Weyerhaeuser sawmill property. The Site slopes down towards a wastewater treatment lagoon and the Similkameen River on the northwest side. The natural topography has been influenced by the addition of mine tailings.

2.7 Climate Conditions

The Site is located in the northern part of RDOS, the climate condition is wetter than southern RDOS. Summers are hot and dry with an average daily high of 26.7 degrees Celsius in August. Winters are short and mild. The average daily high in December is -2.4 degrees Celsius. The average annual precipitation is 346.9 mm. June is the wettest month with the highest amount of rainfall of 37.6 mm. March is the driest month with an average precipitation of 16.5 mm (Environment Canada, 2014).

2.8 Asset and Equipment on Site

There is no equipment currently on this Site. Three-phase power is not available at the Site, however there is power at the nearby wastewater treatment plant so service could potentially be extended to the Site.

2.9 Water Availability

No water is available on the Site; however the Similkameen River is as close as 150 m to the north of the Site and can be used as a potential water source.

2.10 Transportation

The Site is located east of Princeton and has a calculated 49 minutes driving time to the Keremeos Transfer Station. It is easy to access from the Town of Princeton, however, far from other service areas and landfill facilities in the region.

3.0 WASTE GENERATION AND ORGANIC DIVERSION

3.1 Organic Waste in the Municipal Solid Waste Stream

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, leaf and yard waste (green waste), wood waste, paper waste, sewage, agricultural waste, hog fuel from local mills, and slaughterhouse waste. The following sections describe the available organic waste and market potential in the area.

3.2 Organic Diversion Activity

In the Town of Princeton, there is currently no yard waste collection program. There is some source separated green waste that is stored at the Princeton Landfill and chipped periodically for slope stabilization, mulching, and surface water control. Please see the Princeton Landfill site assessment report for estimated tonnages of currently diverted and available organic waste for composting. The Town of Princeton contains the only remaining mill within the RDOS. A number of spin-off businesses, including a wood heating pellet company, have been developed in the community. Hog fuel in particular offers a potentially valuable amendment for a composting operation if it is available through a local source.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

The Similkameen River is approximately 150 m north of the Site, and therefore should meet the setback requirement. The ALR portion of the property encompasses a minority of the property in an undeveloped hayfield area. To place a composting site within the ALR area may require ALC approval or removal from the ALR due to more than 50% of the compost generated being used off site.

The Site is approximately 2 km away from the Princeton Airport. Although the Regulation does not determine a distance that compost sites should be away from airports, the landfill criteria for municipal solid waste requires an 8 km buffer for landfills. Under proposed amendments this buffer could be reduced to 3 km with acceptable bird control. These buffer distances correspond to Transport Canada’s bird-hazard protection zone for food-waste landfills. The United States Federal Aviation Administration expressly prohibits composting sites within 10,000 feet (3 km) of an airport.

Due to the proximity of the Site to the Princeton Airport, it is advised that Transport Canada be consulted before siting a compost facility which would accept food waste or other materials that may attract birds. A bird-hazard study may be required if food or other attractants are not enclosed or protected fully during the transport, receiving or composting process.

4.2 Hydrogeological Considerations

Hydrogeological information for the Site is not available at this time. As per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during composting process. Due to inversion and low mixing conditions in the valley, odour generation from the organic diversion activity should be considered in the facility design. The nearest receptor (home or commercial building) to the undeveloped hayfield area is approximately 600 m away. Within a 1 km radius of the undeveloped hayfield area, there are approximately 35 receptors. The majority of the receptors are at the recreational vehicle parks to the west and north of the Site. If the composting area is moved to the southern end of the centre of the property, then different receptors may be included within the 1 km radius.

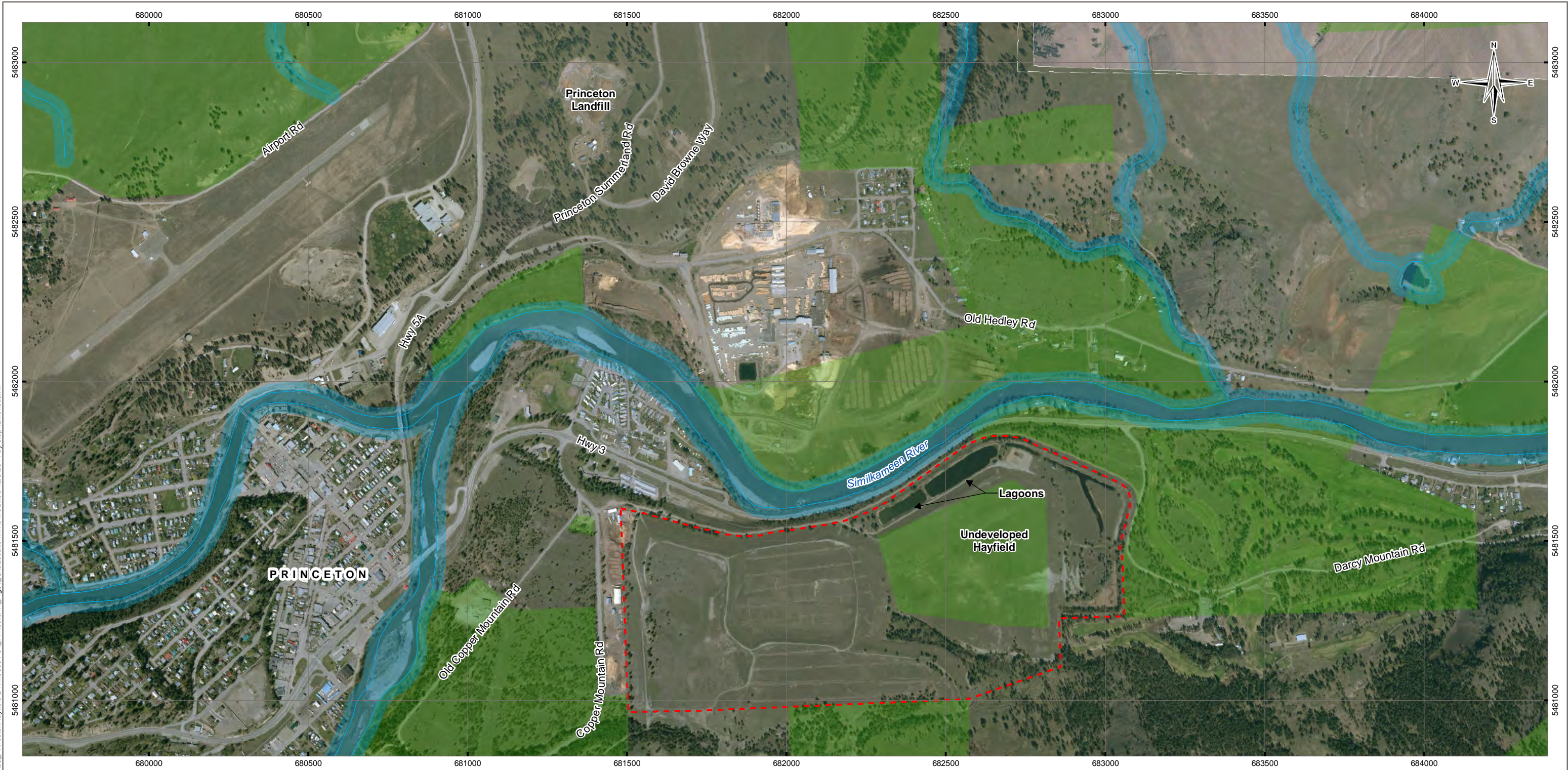
REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Princeton Airport, British Columbia, Climate ID 1126510.

FIGURES

Figure 1 Site Location

Q:\Vancouver\GIS\ENVIRONMENTAL\SWM\03094-01_RDOS\Map\09_PrincetonHayfield\SWM\03094-01_PrincetonH_Fig01_SiteLocation.mxd modified 12/8/2014 by stephanie leusink



LEGEND

- Property Boundary (Approximate)
- Watercourse / Waterbody
- Watercourse Development Area
- Agricultural Land Reserve

NOTES
Base data source:
ALR and Watercourses provided by RDOS.
Imagery provided by RDOS (2013);
Google Earth Pro; Province of BC (2003).

STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
PRINCETON HAYFIELD SITE
TOWN OF PRINCETON, BC

Site Location

PROJECTION UTM Zone 10	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:12,000 200 100 0 200 Metres		
FILE NO. SWM03094-01_PrincetonH_Fig01_SiteLocation.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
	APVD BL	REV 0
OFFICE Tt EBA-VANC	DATE December 8, 2014	

TETRA TECH EBA

Figure 1

PHOTOGRAPHS

Photo 1	Access road to site
Photo 2	Lagoons
Photo 3	Undeveloped hayfield



Photo 1: Access road to site



Photo 2: Lagoons



Photo 3: Undeveloped hayfield

REPORT 8

SITE ASSESSMENT – KEREMEOS TRANSFER STATION

1.0 INTRODUCTION

The Keremeos Transfer Station (hereafter referred to as “the Site”) is located approximately 2 km north of the Village of Keremeos, British Columbia (BC), on the north bank of the Similkameen River. The Site was in operation as a landfill since at least 1974 and is now owned and operated by the Regional District of Okanagan-Similkameen (RDOS). In June 2007, the landfill was closed and the Site began serving as a transfer station. Since then, refuse collected on site has been hauled to the Campbell Mountain Landfill. Tervita presently operates a Contaminated Soil Bioremediation Facility within this property.

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site’s potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 2 km north of the Village of Keremeos, BC, on the north bank of the Similkameen River (Figure 1). The legal description of the Site location is District Lot 2821, Similkameen Division of Yale Land District (S.D.Y.D.), portion north-east corner.

2.2 Site Area

The total area of the Site is approximately 8 Hectares (Ha). The land immediately to the west of the Site is a steep scrub covered mountain side with an elevation of 1600 m (Sperling Hansen Associates 2006). The land to the east and south of the Site are privately owned orchards with scattered residences. The footprint of the existing composting receiving area is approximately 0.06 Ha.

2.2.1 Available Land and Future Expansion

The Site has adequate infrastructure for receiving and reloading only. It does not appear to have undisturbed flat ground space for organics processing. There is no space for buffer development.

2.3 Operational Permit/Certificate

The Site is currently operated as a transfer station under Permit PR 03291 issued in June 1974 and most recently amended in July 2005. A Draft Operational Certificate PR 152768 was issued by the BC Ministry of Environment (MoE), Lands and Parks in 1997, under the provisions of the *Waste Management Act*. The Site is authorized to manage municipal solid waste (MSW) and recyclable material from the Village of Keremeos, Cawston, Olalla, Hedley, and adjacent areas.

2.4 Site History and Ownership

The Site was operated as a landfill by different private contractors since at least 1974 (Sperling Hansen Associates 2006). It was authorized to accept municipal waste at a maximum rate of 6,000 tonnes per year. In June 2007, the landfill was closed and the Site began serving as a transfer station. Since then, refuse collected on site has been hauled to the Campbell Mountain Landfill. Tervita presently operates a Contaminated Soil Bioremediation Facility within the property.

2.5 Service Population and Demography

The Site serves the second smallest population within the region. It accepts waste coming from the Village of Keremeos, Cawston, Olalla, Hedley, and adjacent areas. Figure 2 (attached) shows all service areas to the Site. Based on Statistics Canada 2011 Census, the total population served by the Site is 5,103. The demographics of the service area are year-round residents with some agriculture and seasonal population.

According to a population projection study conducted by the BC Stats (April 2013), the average population growth in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 6,400.

2.6 Site Topography

The Site is located at the edge of the Keremeos Creek alluvial aquifer. There is an approximately 30 m elevation drop from the west to the east of the Site. The closest surface water body is Keremeos Creek, which is located 890 m to the east of the Site (Western Water Associates 2014). The Similkameen River is approximately 2 km south of the Site.

2.7 Climate Conditions

Keremeos has a semi-arid climate. Summers are hot and dry with an average daily high of 28.6 degrees Celsius in August. Winters are cool and short. The average of daily high in December is 0.2 degrees Celsius. The average annual precipitation is 325.4 mm. June is the wettest month with an average precipitation of 39.5 mm. September is the driest month with an average precipitation of 14.6 mm (Environment Canada 2014).

2.8 Asset and Equipment on Site

No equipment is kept on site as the Site is only in operation for limited hours. Equipment such as a front-end loader or grinder is brought to the Site on regular basis.

2.9 Water Availability

No irrigation water is available on site and needs to be brought to the Site for grinding operations by the contractor.

2.10 Transportation

The Site is located in Keremeos and has a calculated 40 to 49 minute driving time to four other solid waste facilities (Princeton Landfill, Osoyoos Landfill, Okanagan Falls Landfill, and Campbell Mountain Landfill).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, leaf and yard waste (green waste), white wood, compostable paper, biosolids, agricultural waste, and slaughterhouse waste. The following section describes the organic waste that was received at the Site in 2013.

3.1 Organic Diversion Activity

The Site is operated as a transfer station and accepts green waste and wood waste. Most of the material received at the Site is transferred to the Campbell Mountain Landfill with the exception of some wood waste, which is grinded and used locally. Photo 4 (attached) shows the grinded wood waste.

3.1.1 Source Separated Organic Waste

At the Site, source separated organic waste is identified and stored in different areas as shown on Figure 3 (attached). Table 1 (below) summarizes the estimated quantity of source separated organics received at the Site in 2013. As the scale was installed in 2014, estimates for 2013 were made based on volume estimates from the contractor that grinds the organic waste received at the Site.

3.1.2 Available Organic Waste

A significant amount of other organic materials generated in the Site's service area are currently disposed by landfilling. Food waste and compostable paper are currently disposed with the residential and industrial, commercial, and institution (ICI) sector wastes. Harvest waste from the agricultural sector is also a potential organic waste source.

3.1.2.1 Food Waste and Compostable Paper

Food waste and compostable paper is generated primarily by residential and ICI sectors and makes up a significant portion of the total MSW stream. The RDOS is considering a source separation program for food waste and compostable paper. In the RDOS Solid Waste Management Plan (2011), it is estimated that 40% landfilled waste consists of organics and the diversion potential is 65%. For other sites, the quantity of food waste and compostable paper was estimated based on MSW tonnages, however as that is not available for Keremeos Transfer Station and the tonnages are already incorporated into Campbell Mountain Landfill data as they receive the MSWE from Keremeos. In a study conducted in the Regional District of North Okanagan, the generation rate of food waste and compostable paper is approximately 128 kg/capita/year. Based on this generation rate and current service area population, there is an estimated 466 tonnes/year of food waste and compostable paper in Keremeos's MSW.

Table 1: Estimated Tonnages of Organic Waste Currently Diverted and Available for Composting at Keremeos Transfer Station (2013)

Organic Material	Waste Quantity (tonnes/yr)	Comments
Green Waste	501	Consists of grass and hedge clippings, leaves, flowers, pine needles, branches, tree stumps, and other yard and garden waste. This is hauled to Campbell Mountain Landfill for composting. Source: Scale data, 2014 (January to September), extrapolated for the whole year.
White Wood	317 (1,586 m ³)	White wood includes tree stumps, dimensional lumber and other wood products. White wood is generated primarily from development, construction and demolition activities. White wood consists of clean white wood (no chemical residual) and contaminated white wood (painted/treated/laminated). White wood is currently unsorted with respect to clean and contaminated. No reliable data available on what portion of white wood received is clean versus contaminated. Some white wood is grinded and used on site. Source: As quantities of white wood vary widely by year, the average volume (m ³) of white wood from 2010 to 2013 was used for this estimation. Assumed density 200 kg/m ³ to calculate tonnage.
Total Currently Diverted/Potential Feedstock for Composting	818	All organic material potentially available to be composted.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Regulation 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

As there is limited land available for compost processing or storage, future organic processing activity is likely to be conducted within the existing composting facility area, which already fulfilled the setback requirement under the Regulation.

4.2 Hydrogeological Considerations

Groundwater generally flows southeast towards the Similkameen River. Water table is reported to be 40.55 m below the surface (Sperling Hansen Associates 2009). Due to the dry climate in the area, leachate generation is expected to be minimal. Therefore, the potential for groundwater contamination from composting activity is low. However, as per the Organic Matter Recycling Regulation (OMRR), any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

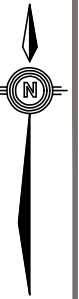
Odours may be developed as a natural part of feedstock degradation during composting process. Due to downwash meteorological pattern to the city downhill, odour generation from the organic diversion activity should be considered in the facility design. The nearest receptor (home) to the Site is approximately 40 m away. Within a 1 km radius of the Site, there are approximately 95 receptors. The majority of the receptors are to the south of the Site.

REFERENCES

- BC Stats. 2011. 2011 Census Total Population Results.
(<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>) Webpage accessed on August 26, 2014.
- British Columbia Ministry of Environment. May 2, 2011. Operational Certificate 15276. Town of Princeton, British Columbia.
- CH2MHILL. December 2010. Regional Organic Waste Management Strategy. Regional District of Okanagan-Similkameen.
- Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Keremeos 2, British Columbia, Climate ID 1124112.
- Sperling Hansen Associates. June 30, 2006. Keremeos Landfill Closure Plan – Final Report.
- Western Water Associates Ltd., March 2014. 2013 operations and Monitoring Report Keremeos Transfer Station, Keremeos, BC.

FIGURES

Figure 1	Site Location
Figure 2	Keremeos Transfer Station Service Area
Figure 3	Site Plan



LEGEND

— - APPROXIMATE SITE BOUNDARY

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.

CLIENT

REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



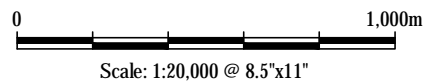
TETRA TECH EBA

ORGANIC MANAGEMENT CONSULTANT
KEREMEOS TRANSFER STATION, VILLAGE OF KEREMEOS, BC

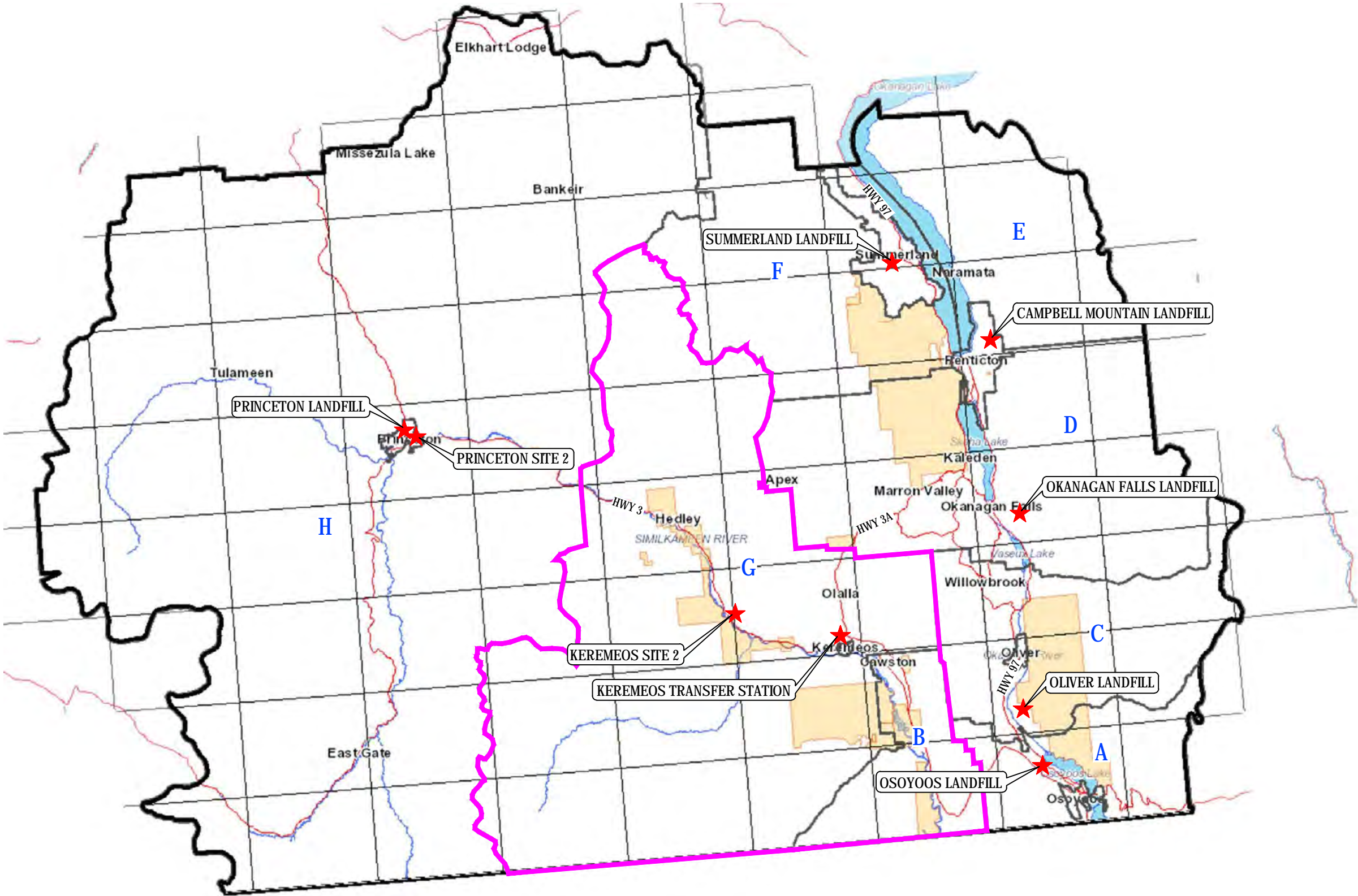
SITE LOCATION

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE SEPTEMBER 2014		

Figure 1



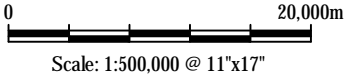
Q:\Riverbed\Drafting\ENVSWM\ENVSWM03094\ENVSWM03094-01-Keremeos Figure 2.dwg [FIGURE 2] December 03, 2014 - 2:45:33 pm (BY: FOURNIER, SAMUEL)



LEGEND

- ELECTORAL AREA BOUNDARY
- MAJOR HIGHWAYS
- INDIAN RESERVE
- LAKES
- KEREMEOS LANDFILL SERVICE AREA

NOTES
IMAGE SOURCE: RDOS (MAY 5, 2014)



CLIENT
REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN



ORGANIC MANAGEMENT CONSULTANT
KEREMEOS TRANSFER STATION, VILLAGE OF KEREMEOS, BC

KEREMEOS TRANSFER
STATION SERVICE AREA

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE DECEMBER 3, 2014		

Figure 2

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LEGEND

- Property Boundary (Approximate)
- Facility Area
- Agricultural Land Reserve

NOTES
Base data source:
ALR provided by RDOS.
Imagery provided by RDOS (2013).

STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
KEREMEOS TRANSFER STATION,
VILLAGE OF KEREMEOS, BC

Site Plan

PROJECTION UTM Zone 11	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:2,500 50 25 0 50 Metres		
FILE NO. SWM03094-01_KeremeosTS_Fig03_SitePlan.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
OFFICE Tt EBA-VANC	APVD BL	REV 0
DATE December 8, 2014		Figure 3

PHOTOGRAPHS

Photo 1	Green wood storage area
Photo 2	Wood waste storage area
Photo 3	Pile of tree stumps
Photo 4	Pile of yard waste and wood chips degrading in static pile



Photo 1 Green wood storage area



Photo 2 Wood waste storage area



Photo 3 Pile of tree stumps



Photo 4 Pile of yard waste and wood chips degrading in static pile

REPORT 9

SITE ASSESSMENT – KEREMEOS GREENFIELD SITE

1.0 INTRODUCTION

The Keremeos Greenfield Site (hereafter referred to as “the Site”) is an undeveloped parcel of land located approximately 8 km west of the Village of Keremeos, British Columbia (BC). Currently, there is no solid waste processing, recycling, transfer, or disposal activity at the Site.

The following is a site assessment that reviews site conditions and organic waste diversion activities currently implemented at the Site. The objective of this assessment is to review of the Site’s potential and constraints with respect to future organic management processing capabilities within the region.

2.0 GENERAL DESCRIPTION

2.1 Site Location

The Site is located approximately 8 km west of the Village of Keremeos, BC along provincial Highway 3 and the Similkameen River (Figure 1).

2.2 Site Area

The total area of the site is approximately 26 hectares (Ha) with constraints such as steep slopes limiting the area usable for a compost site. Adjacent land uses include range land, agriculture, sparsely populated residential areas, and steep hillsides to the north. A high-voltage transmission line runs through the site, offset 100 m from the highway and a second standard community power system runs parallel at the highway right-of-way.

2.2.1 Available Land for Future Expansion

There is approximately 26 Ha (with constraints due to steep slopes) of land that can be used for a compost site. However, this land may have some slope stability issues on the hillside to the north. Furthermore, there are environmental concerns related to the development of this land which is further discussed in Section 4.1 of this report.

2.3 Operational Permit/Certificate

As this is undeveloped land, there is no operational permit/certificate.

2.4 Site History and Ownership

The Site was purchased by the Regional District of Okanagan-Similkameen (RDOS) approximately 20 years ago as a potential location for a future waste management facility.

2.5 Service Population and Demography

The Site would have the same service population as the Keremeos Transfer Station, which includes the Village of Keremeos, Cawston, Olalla, Hedley, and adjacent areas. Figure 2 (attached) shows the service area to the Site. Based on Statistics Canada 2011 Census, the total population in the service area is 5,103. The demographics of the service area are year-round residents with some agriculture and seasonal population.

According to population projection study conducted by the BC Stats (April 2013), the average population growth rate in the RDOS is estimated to be 1.1% per year. The projected population for the next 20 years is estimated to be approximately 6,400.

2.6 Site Topography

The Site has a gently rolling topography in a narrow river valley with some slope stability issues on the hillside to the north.

2.7 Climate Conditions

Keremeos has a semi-arid climate. Summers are hot and dry with an average daily high of 28.6 degrees Celsius in August. Winters are cool and short. The average daily high in December is 0.2 degrees Celsius. The average annual precipitation is 325.4 mm. June is the wettest month with an average precipitation of 39.5 mm. September is the driest month with an average precipitation of 14.6 mm (Environment Canada 2014).

2.8 Asset and Equipment on Site

There is no equipment currently on this Site. Three-phase power is not available at the Site; however there is power along the highway so service could potentially be extended to the Site.

2.9 Water Availability

No water is available on the Site; however the Similkameen River is approximately 100 m to the south of the Site and can be used as a potential water source.

2.10 Transportation

The site is located in Keremeos and though the Site is near the geometric centroid of the RDOS, it still has a driving time of 40 to 49 minutes from the other solid waste facilities (Princeton Landfill, Osoyoos Landfill, Okanagan Falls Landfill, and Campbell Mountain Landfills).

3.0 WASTE GENERATION AND ORGANIC DIVERSION

3.1 Organic Waste in the Municipal Solid Waste Stream

Organic waste refers to the biodegradable materials in the waste stream that can be broken down by microorganisms. Organic waste generally includes food waste, leaf and yard waste (green waste), wood waste, paper waste, biosolids, agricultural waste, and slaughterhouse waste.

3.2 Organic Diversion Activity

In the Village of Keremeos, green waste and wood waste are accepted at the Keremeos Transfer Station where it is grinded and used locally or transferred to Campbell Mountain Landfill. Please see the Keremeos Transfer Station site assessment report for estimated tonnages of currently diverted and available organic waste for composting.

4.0 ENVIRONMENTAL CONSIDERATIONS

4.1 Environmental Setbacks

A composting facility is considered a “storage site” under the *Organic Matter Recycling Regulation* (the Regulation) (BC Reg. 18/2002). Based on definition 19 of Division 1, Part 4 of the Regulation, a storage site should be located at least 30 m from any water course or any source of water used for domestic purposes.

The Similkameen River is approximately 100 m south of the Site. As shown in Figure 2, the Site is contained within an Agricultural Land Reserve (ALR) and Watercourse Development Permit Area. Industrial composting, where more than 50% of the compost is not used on property, would require Agricultural Land Commission (ALC) approval or removal of the property from the ALR. Although local governments are exempt from Riparian Areas Regulation (RAR) requirements, the site has been shown to contain species at risk, including federally-listed (SARA) endangered and special concern species. Even if it is not required by regulation, the environmental impacts with a site like this have the potential to be significant based on this overview of available information. Alison Peatt, an Environmental Planner liaising with the RDOS, recommends that prior to the RDOS proceeding with the establishment of a composting facility on this site, some type of environmental assessment, including an assessment of potential riparian and terrestrial impacts be completed¹.

4.2 Hydrogeological Considerations

Hydrogeological information for the Site is not available at this time. As per the Regulation, any site must develop a leachate management plan and cannot discharge leachate directly to groundwater.

4.3 Odour Management

Odours may be developed as a natural part of feedstock degradation during composting process. The nearest receptor (home or commercial building) to the Site is approximately 150 m away. Within a 1 km radius of the Site, there are fewer than 10 receptors. Receptors are scattered around the site and are not clustered in a particular direction.

¹ Alison Peatt, RPBio, October 21, 2014 E-mail RE: Information on Environmental Assessment

REFERENCES

BC Stats. 2011. 2011 Census Total Population Results.

[<http://www.bcstats.gov.bc.ca/StatisticsBySubject/Census/2011Census/PopulationHousing/MunicipalitiesByRegionalDistrict.aspx>] Webpage accessed on August 26, 2014.

Environment Canada. 2014. Canadian Climate Normals 1981-2010 Station Data – Keremeos 2, British Columbia, Climate ID 1124112.

FIGURES

Figure 1 Site Location

Figure 2 Site Plan



LEGEND

— - APPROXIMATE SITE BOUNDARY

NOTES

IMAGE PROVIDED BY GOOGLE EARTH PRO.

CLIENT

**REGIONAL DISTRICT OF
OKANAGAN-SIMILKAMEEN**



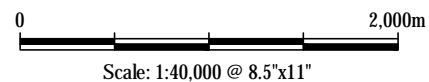
TETRA TECH EBA

**ORGANIC MANAGEMENT CONSULTANT
KEREMEOS GREENFIELD SITE, VILLAGE OF KEREMEOS, BC**

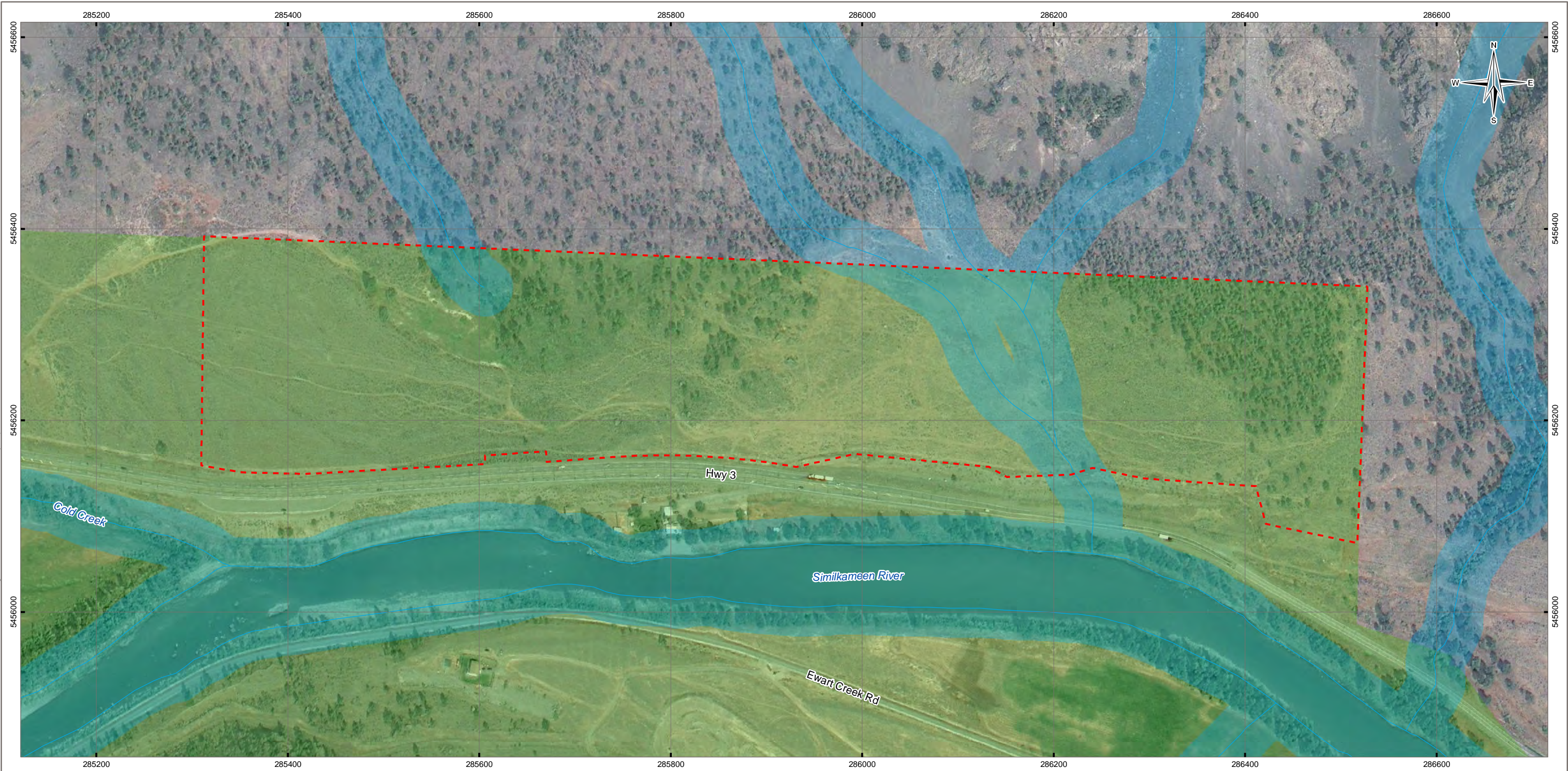
SITE LOCATION

PROJECT NO. ENVSWM03094-01	DWN MMK	CKD LZ	REV 0
OFFICE EBA-RIV	DATE JUNE 2014		

Figure 1



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LEGEND

- Property Boundary (Approximate)
- Watercourse / Waterbody
- Watercourse Development Area
- Agricultural Land Reserve

NOTES
Base data source:
ALR and Watercourse Development Area
provided by RDOS.
Imagery provided by Google; Digital Globe
(2010).

STATUS
ISSUED FOR USE

ORGANIC MANAGEMENT CONSULTANT
KEREMEOS GREENFIELD SITE,
VILLAGE OF KEREMEOS, BC

Site Plan

PROJECTION UTM Zone 11	DATUM NAD83	CLIENT Regional District of Okanagan-Similkameen
Scale: 1:4,000 50 25 0 50 Metres		TETRA TECH EBA
FILE NO. SWM03094-01_KeremeosG_Fig02_SitePlan.mxd		
PROJECT NO. ENVSWM03094-01	DWN SL	CKD MEZ
	APVD BL	REV 0
OFFICE Tt EBA-VANC	DATE December 8, 2014	

Figure 2

PHOTOGRAPHS

Photo 1 Undeveloped Greenfield area



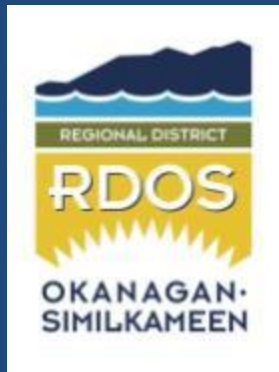
Photo 1: Undeveloped Greenfield area

ORGANIC MANAGEMENT CONSULTANT

TASK 1 – SITE ASSESSMENT



TETRA TECH



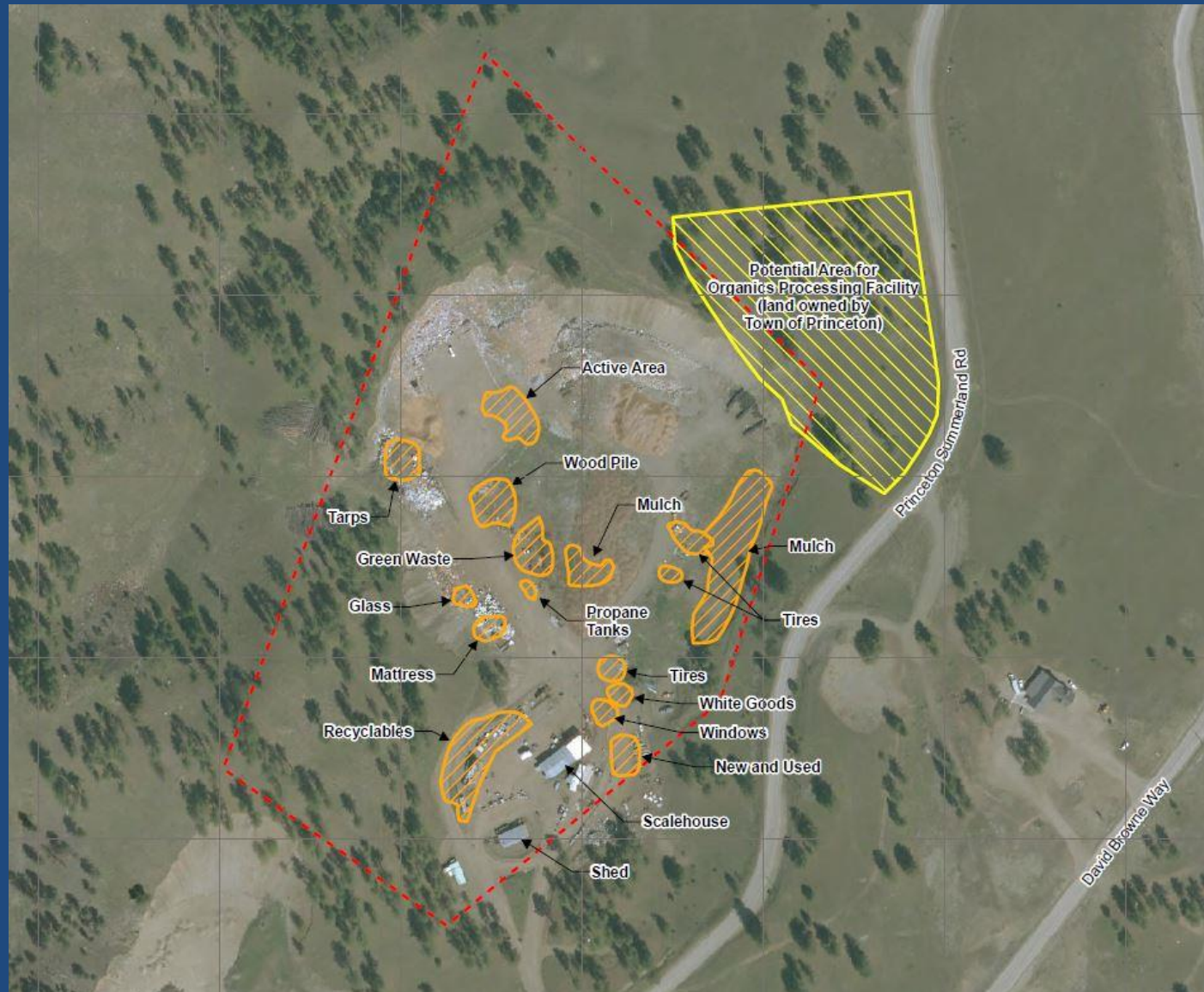
Organic Management Assessment of Public Properties

Organic Management Project

- Between 30-50% of waste is compostable
- RDOS commenced public and private sector comparison for enhancing organic management
- All food waste, yard waste, bio-solids, soiled paper and wood
- Tetra-Tech EBA hired to provide feasibility studies and odour modeling
- Initial assessments complete



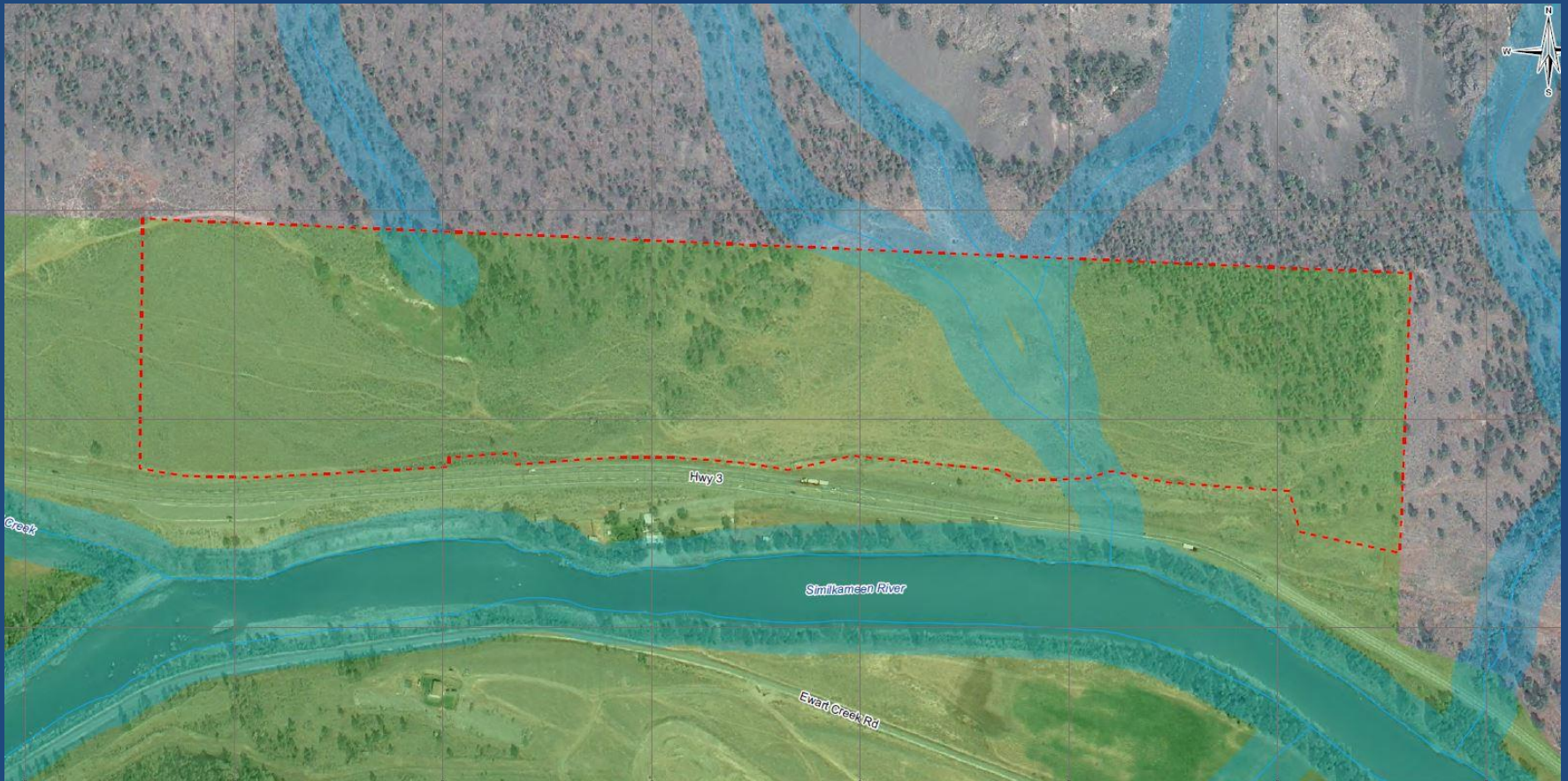
Princeton Landfill



Princeton Hayfield Site



Keremeos Greenfield Site

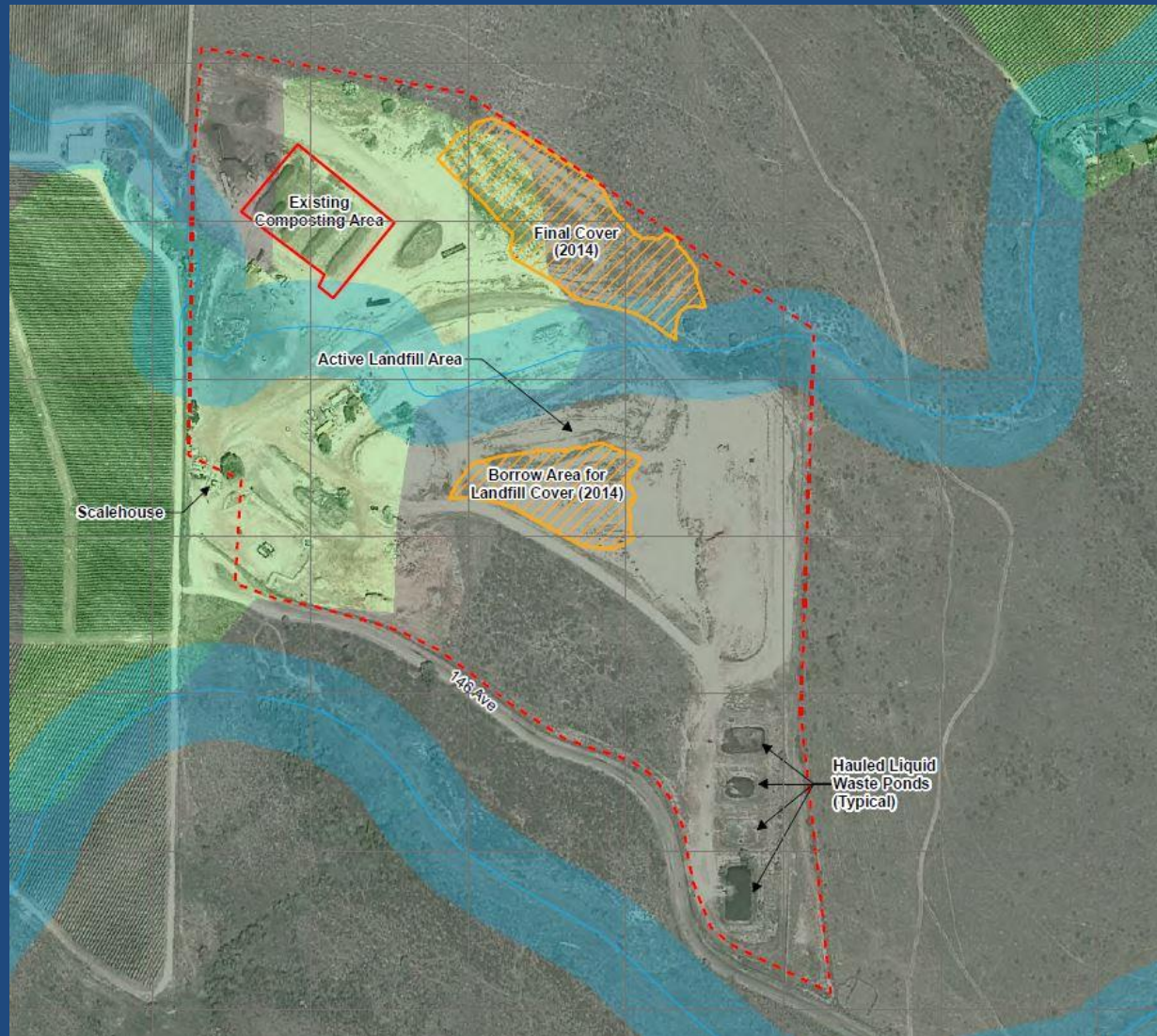


- Within ALR, close to home, RAR, high probability of endangered species
- Not recommended for further study

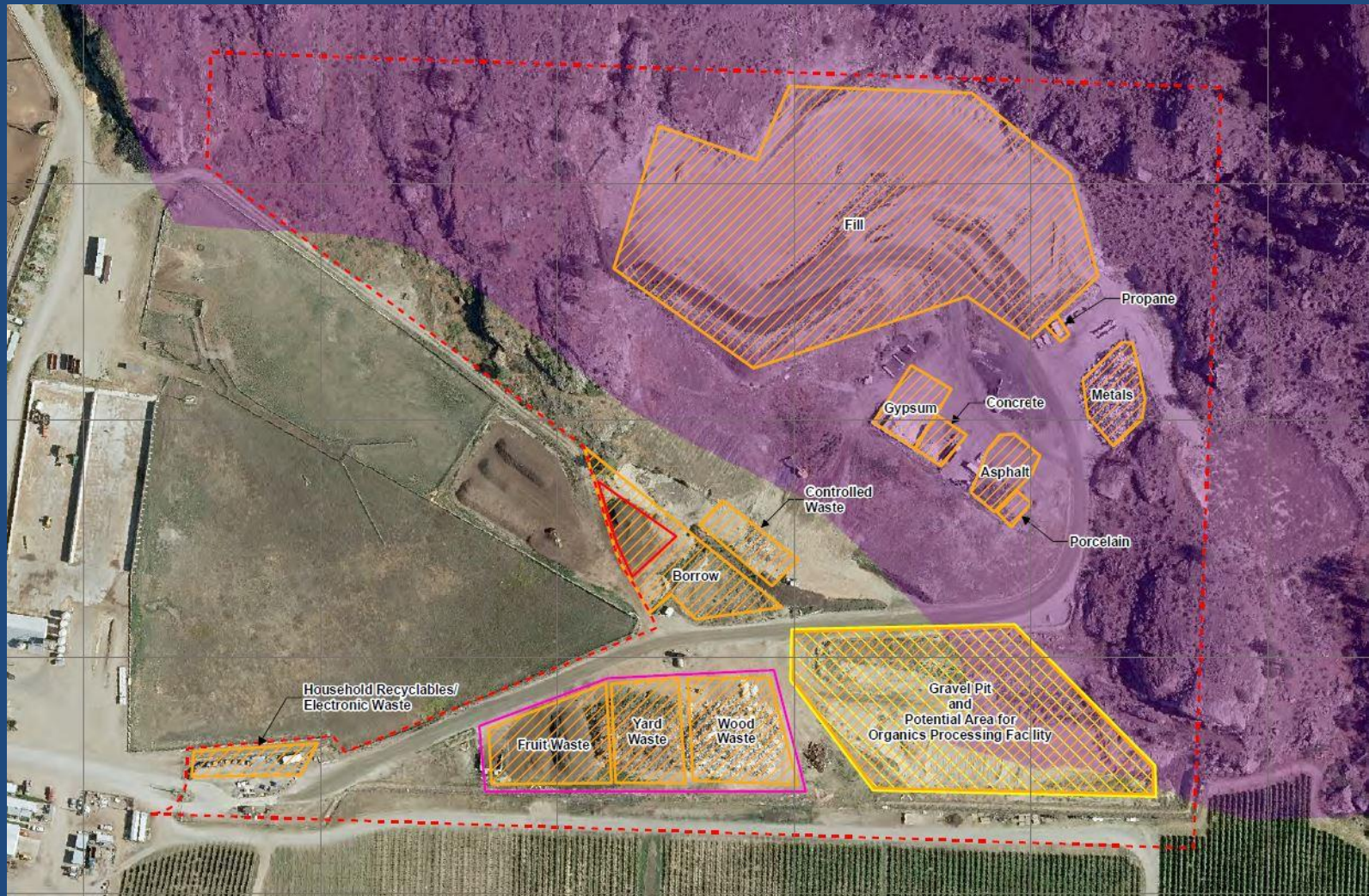
Keremeos Landfill



Osoyoos Landfill



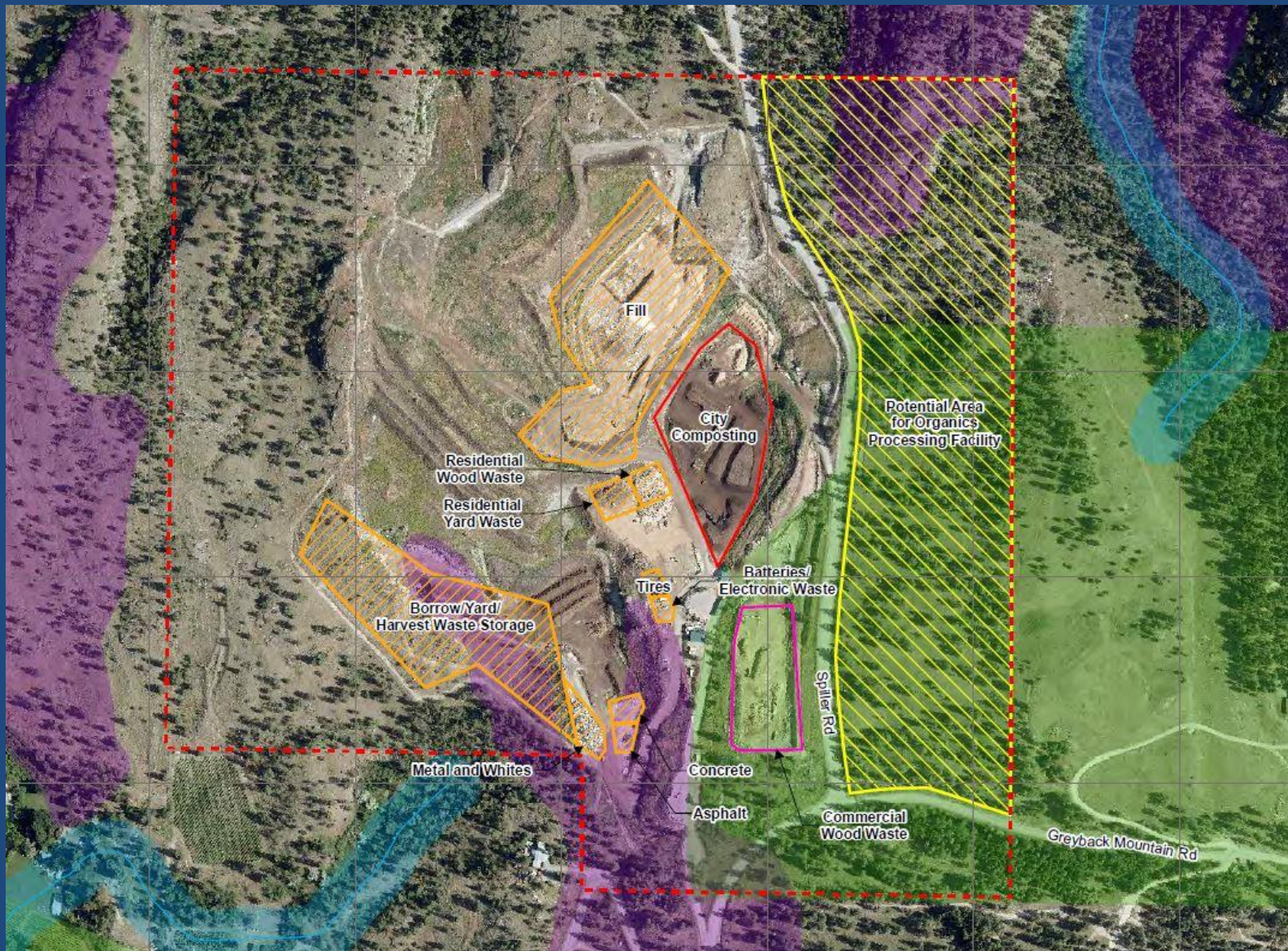
Oliver Landfill



Okanagan Falls Landfill



Campbell Mountain Landfill



Summerland Landfill



Next Steps

- Feasibility Studies for Public Sites
- Expression of Interest Private Compost sites
- Request for Proposals Private Compost Sites
- Comparison of Public and Private Sites
- Late 2015 Recommend Site(s)



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Protective Services Committee

Thursday, January 22, 2015

10:30 a.m.

REGULAR AGENDA

A. APPROVAL OF AGENDA

B. Superintendent Kevin Hewco, Penticton RCMP

Superintendent Hewco will provide the Committee with his quarterly update

C. Fourth Quarter Activity Report – For Information Only

D. ADJOURNMENT

ADMINISTRATIVE REPORT



TO: Protective Services Committee
FROM: B. Newell, Chief Administrative Officer
DATE: January 9, 2015
RE: Fourth Quarter Activity Report – For Information Only

1.0 COMMUNITY SERVICES DEPARTMENT

1.1 Fire Services, Emergency Management, Policing

Activities in Q4 2014:

- Continued implementation the Regional Fire Dispatch Telecommunications Infrastructure upgrade plan; equipment audit and annual maintenance completed (3 shelter placements, RFP for entire communications system maintenance contract), awaiting final design approval from Industry Canada
- Continued implementation and training of the 'BAR5' leadership training program for the RDOS fire departments in Naramata, Keremeos, Tulameen, Anarchist Mountain, Willowbrook and Okanagan Falls
- Assisted Regional Fire Departments with 2015 Budget submissions
- Implemented the fire fighter compensation (stipends and wages) for budget committee
- Supported MOE during their response mitigation of Copper Mine Tailings spill
- Monitored River Ice activity in Tulameen and Similkameen Rivers

Planned Activities for Q1 2015:

- Continue implementation plan for the Regional Fire Radio Communications upgrade project; initiate installation of equipment in the 3 radio shelters, award radio system maintenance contract, follow up on final Industry Canada approval, prepare for installation upgrades at Fire Halls
- Develop a Fire Service 'Equipment Use' policy for presentation to the Board
- Develop a Fire Underwriters presentation to address concerns with residential insurance ratings based on fire apparatus age, response distances and water supply
- Prepare implementation of Fire "Playbook" components as implemented by the Office of the Fire Commissioner of British Columbia
- Facilitate Emergency Response activities (workshops/tabletop activities) with the communities of Osoyoos and Hedley

Respectfully submitted:

M. Woods, Manager of Community Services



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Corporate Services Committee

Thursday, January 22, 2015

11:30 a.m.

REGULAR AGENDA

A. APPROVAL OF AGENDA

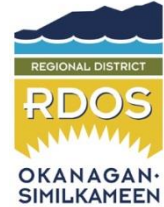
B. Fourth Quarter Activity Report – For Information Only

C. Board Action Tracking

D. Strategic Planning

E. ADJOURNMENT

ADMINISTRATIVE REPORT



TO: Corporate Services Committee
FROM: Bill Newell, Chief Administrative Officer
DATE: January 22, 2015
RE: Fourth Quarter Activity Report – For Information Only

1.0 OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER/LEGISLATIVE SERVICES

2014 Q4 Activities

- Participated in Healthy Living Coalition activities
- Continue with 2015 Strategic Planning Cycle
- Reviewed Q4 Department Business Plans
- Write 2015-2019 Strategic Plan and 2015 Business Plan
- Collective Bargaining
- 2015 Budget Process
- Conducted 2014 General Local Elections and Referendum for Venables Theatre
- Conducted Board Orientation
- Assisted Finance in preparation of Budget presentations
- Developed and implemented new Board / Committee agenda process
- Organize Board Inaugural
- Secured funding and commenced planning of 2015 C2C Forum

2015 Q1 Activities

- Present Strategic Plan and Business Plan to the Board of Directors
- Penticton Regional Airport Due Diligence
- Continue with EDMS – Public Works, Community Services and external departments
- Implement strategic customer service initiatives based on 2014 survey
- Provide FOI and Communications training to the Board and other elected officials
- Conduct 2015 C2C Forum
- Introduce E-Manual for Board reference
- Begin review of grant-in aid conversion to potential services
- With Finance, introduce Grant-in Aid policies
- With Public Works, introduce Water Acquisition policy
- Introduce new Fees & Charges Bylaw
- Commence Corporate Bylaw review

2.0 INFORMATION SERVICES DEPARTMENT

2014 Q4 - Activities

- Create HTML5 internet mapping viewer for public applications
- Move intranet functionality into EDMS
- IT support for setting up new budgeting software
- Move GIS platform to latest version
- Update of Building Inspection tracking application
- Implement security for mobile devices (Tablets)
- Set up new tablets for Rural Board members

- IT support for new budgeting software
- Elections: mapping and update of voting application for Electoral Areas and municipalities of Oliver, Osoyoos and Keremeos
- Create GIS dataset for Princeton cemetery

2015 Q1 - Planned Activities

- Launch HTML5 internet mapping viewer for public applications
- Decommission old internet mapping viewer
- Electronic Document Management System (EDMS)
 - Work on moving demolition documents to EDMS
 - Work on moving water service card information to EDMS
 - Work on moving Kaleden Rec information to EDMS
 - Support to 911 radio project for external access to EDMS
- Move backup server off-site
- Research new contract for mobile phones
- Set up redundant internet connection to main office
- Research requirements on Board Action Tracking application
- Work on Water Maintenance Tracking application

3. FINANCE DEPARTMENT

Q4 Activities:

- 3rd Quarter Variance analysis and report
- Award of Banking RFP –Valley First Credit Union
- Continue Budget software implementation (salaries and wages module)
- Begin Budget Software training for employees
- West Bench commutated payments
- West Bench metering implementation
- 2015 Budget
 - Department submissions
 - Administration Cost analysis and recovery plan
 - Finance Department review and consolidation of budget entries
 - Senior Management Review of initial submissions
 - Preparation and review of Change Requests
 - SMT review of overall budget and follow-up department revisions
 - Budget delivery to Board

Q1-2015 Planned Activities:

- Presentation of Financial Plan to Budget Committee
- 1st Reading of 2015 Budget
- Budget consultation process
- Adoption of 2015 Budget
- Begin fleet acquisition and maintenance plan
 - review existing fleet
 - engage departments to determine needs/opportunities
- Assist PW with development of 20 year infrastructure lifecycle plan
-

3.0 HUMAN RESOURCES DEPARTMENT

2014 Q4 Activities

- Completed Job Evaluation Plan Review, including re-write of all job descriptions
- Completed the Princeton Arena Successorship with the affected employees
- Completed collective bargaining and ratified a 5 year agreement that is effective from January 1, 2015 to December 31, 2019
- SIMEA third party administrator changeover underway – effective January 1, 2015
- Provided assistance to fire departments and parks and recreation commissions
- Working with the Labour Board re: Certification drive by BCGEU for OK Falls and Kaleden Parks and Recreation facilities
- Continued to implement the 2014 COR Safety Action Plan
- Completed recruitment and selection for the following positions: Parks and Rec Assistant (Kaleden), Administration Clerk – Temporary (Development Services), Princeton Arena Facility Attendant – Casual, Labourer (Public Works).
- The HR Enterprise Centre assisted Summerland with the CAO Recruitment

Planned 2015 Q1 Activities

- Job Evaluation Process – final changes to Job Descriptions and provide access to all staff
- Train Managers on new collective agreement changes
- Complete Training Guidelines policy
- Finalize changeover of the SIMEA benefits to new contract administrator – Morneau Shepell
- Finalize Organizational Development plan for 2014 (TCLI Committee)
- Implement WorkSafeBC legislative requirements for Bullying and Harassment
- Revise Employee Recognition committee program and objectives and roll out to staff
- Prepare long service awards for distribution in Q2
- Continue to provide assistance to fire departments and parks and recreation commissions
- Enterprise Centre assisting Summerland and Osoyoos with recruitment and Oliver P&R Society with Bargaining.



Outstanding Board Action Tracking as of December 31, 2014

Dept.	Meeting	Title	Resolution	Status	Comments
A	December-11-14	Olalla Local Community Commission Appointment	THAT the Board of Directors appoint four qualified people to the Olalla Local Community Commission for a four year term ending with the next local government elections in 2018. THAT if a sufficient number of individuals are not appointed the Board of Directors initiate the dissolution process for the Olalla Local Community Commission and establish an Advisory Committee in its place. - CARRIED	0%	
B	September-20-12	Building Infraction A05881.500 Lot 395A Plan 1957 DL2450S (no civic address)	commence injunctive action	IN PROGRESS	
B	November-07-13	Building Violation D02807.950 306/308/310/316 Creekview Road Apex	commence injunctive action	IN PROGRESS	
B	November-07-13	Building Violation H00053.160 289 Bettes Tulameen	commence injunctive action	IN PROGRESS	
CS	February-20-14	Director Wells requested that Staff investigate the new Interior Health beach sampling process and report to the Board.	begin investigating new Interior Health Beach sampling process and report.	IN PROGRESS	
CS	September-18-14	License of Occupation KVR Area "A" and "C"	Prepare applications. Execute License of Occupation.	IN PROGRESS	
CS	October-16-14	2015 Age-friendly Community Planning & Project Grants Program	Board support the application to UBCM for an Age-friendly Community Planning & Project Grant for an age-friendly Plan for Okanagan Falls	IN PROGRESS	
CS	October-16-14	Award of Construction Lakeshore Pedestrian Corridor	Chair and Chief Administrative Officer to execute the consultant contract agreement.	IN PROGRESS	
CS	October-16-14	Donation of Parkland in Electoral Area "H"	Board of Directors acknowledge receipt of the donation of land and refer it to Administration for due diligence.	IN PROGRESS	

Dept.	Meeting	Title	Resolution	Status	Comments
CS	November-06-14	South Okanagan Transit System	THAT the Board of Directors approve the increase in the local share for the South Okanagan Transit System currently being funded by Electoral Areas "A", "C" and "D" and be added to the 2015 Budget; and THAT staff be directed to ensure that the South Okanagan Transit System is part of the 25 year Transit Future Plan and to include a review of the funding distribution and routing schedule	0%	
CS	November-06-14	Adriana McMullen and Daniel Pizarro BC Transit	THAT the Board of Directors approve in principle that BC Transit proceed with 5 next	0%	
E	September-21-06	Campbell Mountain Sanitary Landfill Buffer/Setback Requirements	Ongoing studies. Waiting for Province. Currently with MOE.	IN PROGRESS	
F	July-19-12	Tipping fees for Charitable organizations	update Grant-in-Aid policy	0%	
F	October-16-14	Five Year Financial Plan Amendment Okanagan Falls Fire Hall Bay Floor	Board of Directors support a Five-year Financial Plan Amendment for Okanagan Falls Fire Hall Bay Floor	0%	
HR	November-06-14	BCGEU Collective Bargaining update	THAT the Board ratify the agreement between the RDOS and the BC Government and Service Employees Union (BCGEU) summarized in Schedule A attached to the report to the Board of Directors from B. Newell CAO; and That the Chair and CAO be authorized to sign the agreement when properly formatted.	0%	
P	October-03-13	Untidy and Unsightly premises enforcement action	undertake review of procedures	IN PROGRESS	
P	October-17-13	Working Group to review and provide input for an update to Okanagan Valley zoning bylaws	Working Group to review and provide input for an update to Okanagan Valley zoning bylaws	IN PROGRESS	
P	April-03-14	Bylaw Enforcement Derelict Vehicles Contravention of Sections 6.4 7.4.2 and 10.2.1 of Zoning Bylaw 2453 2008 C06526.000	Commence legal proceedings	IN PROGRESS	
P	April-03-14	Signage Enforcement Director Patton	bring forward amendments to the agricultural signage regulations (Section 7.20) in Zoning Bylaws for Areas A C D-1 D-2 E F and H to address input received at public consultations during the ongoing Highway Signage Enforcement Project.	IN PROGRESS	

Dept.	Meeting	Title	Resolution	Status	Comments
P	April-03-14	Signage Enforcement Director Patton	examine successful signage models and develop a plan for action for the entire regional district using funds from the Economic Development budget to be brought to the May 8 meeting.	IN PROGRESS	
P	August-07-14	Siting of Cellular and Large Utility Towers	Develop a new tower siting policy and procedural guidelines for review.	IN PROGRESS	
P	November-06-14	Update of Environmentally Sensitive Development Permit Areas	THAT the matter of Environmentally Sensitive Development Permit Areas Okanagan Electoral Area Official Community Plan Bylaws be referred back to Administration for further research.	0%	
P PW	January-20-11	Willowbrook Water System Transfer Request	apply for Restructure Implementation Grant. Investigate feasibility of transferring the Willowbrook Utilities water system to RDOS	IN PROGRESS	
P PW	November-06-14	Award for Faulder Water System Uranium Treatment System	THAT the Board of Directors authorize the purchase of a uranium treatment system for the Faulder Water System from BI Pure Water (Canada) Inc. in the amount of \$91 875.00 plus applicable taxes.	IN PROGRESS	
PW	November-06-14	Multi-Material British Columbia Depots	THAT the Campbell Mountain Landfill remain a contracted depot for Multi-Material BC. THAT the Keremeos Landfill reduce Multi-Material BC services to only the collection of plastic bags polystyrene and container glass. THAT the Okanagan Falls Landfill be eliminated as a Multi-Material BC depot. THAT the matter of the Oliver Landfill remaining a contracted depot for Multi-Material BC and developing the necessary infrastructure to collect recycling in Mega bags be referred back to administration for further information and returned to the November 6 2014 Environment and Infrastructure Committee meeting.	0%	
PW	November-06-14	Building Canada Fund Grant Application	THAT the Board of Directors commit to completing a Referendum and associated bylaws to authorize the borrowing of funds necessary to implement the wastewater collection project for Kaleden and Skaha Estates within six (6) months of receiving New Building Canada Fund Small Communities Fund approval for the project.	0%	



REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

BOARD of DIRECTORS MEETING

Thursday, January 22, 2015

2:30 p.m.

REGULAR AGENDA

A. APPROVAL OF AGENDA

RECOMMENDATION 1 (Unweighted Corporate Vote – Simple Majority)

That the Agenda for the RDOS Board Meeting of January 22, 2015 be adopted.

1. Consent Agenda – Corporate Issues

a. Corporate Services Committee – January 8, 2015

THAT the Minutes of the January 8, 2015 Corporate Services Committee be received.

THAT a letter be drafted to Fortis and BCUC opposing the two tier system and continued rate increase

b. Environment and Infrastructure Committee – January 8, 2015

THAT the Minutes of the January 8, 2015 Environment and Infrastructure Committee be received.

c. Planning and Development Committee – January 8, 2015

THAT the Minutes of the January 8, 2015 Planning and Development Committee be received.

d. RDOS Regular Board Meeting – January 8, 2015

THAT the minutes of the January 8, 2015 Regional District of Okanagan-Similkameen Regular Board meeting be adopted.

RECOMMENDATION 2 (Unweighted Corporate Vote – Simple Majority)

That the Consent Agenda – Corporate Issues be adopted.

B. DELEGATIONS

1. Mr. Richard Toperczer, Ministry of Jobs, Tourism, and Skills Training

Mr. Toperczer will be addressing the Board to introduce himself and to provide information on the resources available from the Ministry.

2. Ms. Jenny Mitchell, Okanagan Similkameen Healthy Living Coalition (OSHLC)

C. DEVELOPMENT SERVICES – Bylaw Enforcement**1. Animal Control Officers – Appointment of Officers**

RECOMMENDATION 3 (Unweighted Corporate Vote – Simple Majority)

THAT the Regional District of Okanagan-Similkameen rescind the appointments of Patricia Marshall, Steve Marshall and Richard Mohninger, of Marshall Enforcement Services, as Animal Control Officers for the Regional District of Okanagan-Similkameen, effective February 1, 2015; and

THAT the Regional District Okanagan-Similkameen Board appoint Greg Ivens and Jason Hadland, of K-9 Control as Animal Control Officers for the Regional District of Okanagan-Similkameen, effective February 1, 2015.

D. DEVELOPMENT SERVICES – Rural Land Use Matters**1. Electoral Area “D-1” Citizens Committee Appointments****a. Terms of Reference**

RECOMMENDATION 4 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors endorse the Terms of Reference for the Area ‘D-1’, Kaleden, Apex Official Community Plan (OCP) Review Citizen’s Committee dated January 22, 2015; and,

THAT the Board of Directors appoint the following as members of the Electoral Area “D-1” Citizens Committee for purpose of the Official Community Plan review project:

Andrew Allin	Gayle Bukowsky	Coral Brown	Wendy Busch
Debra McGinn	Kelly O’Beirn	Brian Moen	Barb Leslie
Peter Little	Verna Mumby	Bruce Shepherd	
Lynn Henderson (alternate for Peter Little)			

E. FINANCE

1. Bylaw No. 2686, 2015-2019 Five Year Financial Plan
(Bylaw and report to follow under separate cover)

RECOMMENDATION 5 (Weighted Corporate Vote)

THAT Bylaw No. 2686, 2015 Regional District of Okanagan-Similkameen 2015-2019 Five Year Financial Plan Bylaw be read a first time.

F. OFFICE OF THE CAO

1. Petition to BC Hydro for Single Radial Electrical Line from Merritt to West Kelowna, Westbank First Nation, Peachland, Regional District Central Okanagan Electoral Area West, Penticton Indian Band, and Regional District of South Okanagan-Similkameen Electoral Area “F”.

RECOMMENDATION 6 (Unweighted Corporate Vote – Simple Majority)

THAT the Board support the signing of the petition provided by the District of West Kelowna regarding BC Hydro Single Radial Electrical Line concerns.

2. Southern Interior Local Government Association (SILGA)
 - a) Call for nominations
 - b) Call for resolutions
-

3. Advisory Planning Commission (APC) Appointments

RECOMMENDATION 7 (Unweighted Corporate Vote – Simple Majority)

That the Board of Directors appoint the following as members of the Electoral Area “H” Advisory Planning Commission until October 31, 2018:

Tom Rushworth
Ole Juul
Gail Smart

Marg Riechart
Dennis Dawson
Lynn Smythe

Rob Miller
Dave Rainer

4. Okanagan Falls Parks and Recreation Commission Appointments 2015/2016

RECOMMENDATION 8 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors re-appoint the following people as members of the Okanagan Falls Parks & Recreation Commission for the periods indicated:

Name	Term	Expires
Kim Baker	2 years	December 31, 2016
Lynn Tsumuraya	2 years	December 31, 2016
Tammie Smart	2 years	December 31, 2016
Mike Pearce	2 years	December 31, 2016

THAT the following members continue to serve Okanagan Falls Parks & Recreation Commission.

Name	Expires
Don Clark	December 31, 2015
Darcey Godfrey	December 31, 2015
Pat Rawkins	December 31, 2015
Alf Hartviksen	December 31, 2015
Ed Melenka	December 31, 2015

5. Okanagan Falls and District Recreation Services

- a) Report
- b) Bylaw No. 2684
- c) Bylaw No. 2685

RECOMMENDATION 9 (Unweighted Corporate Vote – Simple Majority)

THAT Bylaw No. 2684, 2015 Okanagan Falls & District Recreation Service Establishment Amendment Bylaw AND Bylaw No. 2685, 2015 Okanagan Falls Parkland Acquisition Loan Authorization Bylaw be read a first, second and third time and be forwarded to the Inspector of Municipalities for approval prior to public assent; and,

THAT the Board of Directors authorize that elector approval for the adoption of the bylaw be obtained through assent vote (referendum); and,

THAT Christy Malden be appointed as Chief Election Officer and Gillian Cramm be appointed as Deputy Chief Election Officer for the Okanagan Falls Parks and Recreation Parkland Acquisition Assent Vote in Electoral Area “D”; and,

THAT the question be –‘Are you in favour of the Regional District of Okanagan-Similkameen adopting Bylaw No. 2684, 2015 and Bylaw No. 2685, 2015 to provide for the following:

- **Increase the Okanagan Falls & District Recreation Service maximum requisition to not exceed the greater of five hundred and twenty five thousand dollars (\$525,000) or seventy three cents (\$0.73) per thousand dollars of the net taxable value of land and improvements in the service area, and;**
- **Authorizing the borrowing of nine hundred and fifty thousand dollars (\$950,000) to purchase parkland within Okanagan Falls.**

-
- 6. Foreshore Application – Skaha Lake**
Report and bylaws to follow under separate cover
-

G. CAO REPORTS

1. Verbal Update

H. OTHER BUSINESS

1. Chair’s Report

2. Board Presentation

- a) Chair’s Report
 - b) Municipal Finance Authority (MFA)
 - c) Okanagan Basin Water Board (OBWB)
 - i. Board Report - November 6, 2014
 - d) Okanagan-Kootenay Sterile Insect Release Board (SIR)
 - e) Okanagan Regional Library (ORL)
 - f) Okanagan and Similkameen Invasive Species Society (OASISS)
 - g) Okanagan Film Commission (OFC)
 - h) Southern Interior Beetle Action Coalition (SIBAC)
 - i) Southern Interior Municipal Employers Association (SIMEA)
 - j) Southern Interior Local Government Association (SILGA)
 - k) Starling Control
-

3. Directors Motions

THAT a Regional Economic Development service be established with a maximum requisition of

4. Board Members Verbal Update

I. INFORMATION RELEASES

J. ADJOURNMENT



**Minutes are in DRAFT form and are subject
to change pending approval by Regional District Board**

REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Corporate Services Committee

Thursday, January 8, 2015

9:15 am

Minutes

MEMBERS PRESENT:

Chair M. Pendergraft, Electoral Area "A"
Vice Chair A. Jakubeit, City of Penticton
Director F. Armitage, Town of Princeton
Director M. Bauer, Village of Keremeos
Director M. Brydon, Electoral Area "F"
Director G. Bush, Electoral Area "B"
Director E. Christensen, Electoral Area "G"
Director B. Coyne, Electoral Area "H"

Director R. Hovanes, Town of Oliver
Director H. Konanz, City of Penticton
Director K. Kozakevich, Electoral Area "E"
Director A. Martin, City of Penticton
Director S. McKortoff, Town of Osoyoos
Director T. Schafer, Electoral Area "C"
Director J. Sentes, City of Penticton
Director T. Siddon, Electoral Area "D"

MEMBERS ABSENT:

Director T. Boot, District of Summerland

Director P. Waterman, District of Summerland

STAFF PRESENT:

B. Newell, Chief Administrative Officer
C. Malden, Manager of Legislative Services

A. APPROVAL OF AGENDA

MP Albas had a scheduling conflict, and sent his regrets

It was MOVED and SECONDED

THAT the agenda for the Corporate Services Committee Meeting of January 8, 2015 be amended with the inclusion of Fortis 2-tier system, and Bob Ogden, Crime Stoppers Society; and removing Dan Albas, MP - **CARRIED**

It was MOVED and SECONDED

THAT a letter be drafted to Fortis and BCUC opposing the two tier system and continued rate increase - **CARRIED**

B. Richard Thompson, Gilchrist & Co. – Legal Counsel

C. [Bob Ogden, Crime Stoppers Society](#)

D. Lunch

E. Alex Atamanenko, MP for British Columbia Southern Interior – Introduction and Question/Answer period

F. **ADJOURNMENT**

By consensus, the Corporate Services Committee meeting concluded at 1:03 p.m.

APPROVED:

CERTIFIED CORRECT:

M. Pendergraft
Corporate Services Committee Chair

B. Newell
Chief Administrative Officer



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REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Environment and Infrastructure Committee

Thursday, January 8, 2015

1:03 p.m.

Minutes

MEMBERS PRESENT:

Director M. Pendergraft, Electoral Area "A"
Director A. Jakubeit, City of Penticton
Director F. Armitage, Town of Princeton
Director M. Bauer, Village of Keremeos
Director M. Brydon, Electoral Area "F"
Director G. Bush, Electoral Area "B"
Director E. Christensen, Electoral Area "G"
Director B. Coyne, Electoral Area "H"

Director R. Hovanes, Town of Oliver
Director H. Konanz, City of Penticton
Director K. Kozakevich, Electoral Area "E"
Director A. Martin, City of Penticton
Director S. McKortoff, Town of Osoyoos
Director T. Schafer, Electoral Area "C"
Director J. Sentes, City of Penticton
Director T. Siddon, Electoral Area "D"

MEMBERS ABSENT:

Director P. Waterman, District of Summerland

Director T. Boot, District of Summerland

STAFF PRESENT:

B. Newell, Chief Administrative Officer
C. Malden, Manager of Legislative Services

D. French, Public Works Manager
C. Baughen, Solid Waste Management Coordinator

A. APPROVAL OF AGENDA

It was MOVED and SECONDED

THAT the agenda for the Environment and Infrastructure Committee Meeting of January 8, 2015 be adopted as amended to include Dike Assessment (Item C) if time permits. -

CARRIED

B. Solid Waste Management Plan Update

a. Solid Waste Management Checklist

The Committee was advised that the RDOS Solid Waste Management Plan calls for an improved diversion rate (waste recycled or composted instead of landfilled) from just over 50% to 73% in 5 years. It also calls for the implementation of reduction strategies that limit the overall creation of waste. There are three major focuses of the Plan: increasing the reuse and recycling of construction, demolition and renovation waste; maximizing the diversion of organic waste from landfilling or burning through increased composting; and increasing recycling levels at multi-family residents and workplaces.

C. Dike Assessment

- Policy
- Hotspots

Staff will provide a report at a future Environment and Infrastructure Committee meeting.

D. ADJOURNMENT

By consensus, the Environment and Infrastructure Committee meeting concluded at 1:29 p.m.

APPROVED:

CERTIFIED CORRECT:

M. Pendergraft
Environment and Infrastructure Committee Chair

B. Newell
Chief Administrative Officer



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REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

Planning and Development Committee

Thursday, January 8, 2015

9:01 a.m.

Minutes

MEMBERS PRESENT:

Director M. Pendergraft, Electoral Area "A"
Director A. Jakubeit, City of Penticton
Director F. Armitage, Town of Princeton
Director M. Bauer, Village of Keremeos
Director M. Brydon, Electoral Area "F"
Director G. Bush, Electoral Area "B"
Director E. Christensen, Electoral Area "G"
Director B. Coyne, Electoral Area "H"

Director R. Hovanes, Town of Oliver
Director H. Konanz, City of Penticton
Director K. Kozakevich, Electoral Area "E"
Director A. Martin, City of Penticton
Director S. McKortoff, Town of Osoyoos
Director T. Schafer, Electoral Area "C"
Director T. Siddon, Electoral Area "D"

MEMBERS ABSENT:

Director P. Waterman, District of Summerland
Director J. Sentes, City of Penticton

Director T. Boot, District of Summerland

STAFF PRESENT:

B. Newell, Chief Administrative Officer
C. Malden, Manager of Legislative Services

S. Juch, Subdivision Supervisor

A. APPROVAL OF AGENDA

It was MOVED and SECONDED

THAT the agenda for the Planning and Development Committee Meeting of January 8, 2015 be adopted. - **CARRIED**

B. Vintage Views Phase 3 – Parkland Donation

The Committee was provided an update on the Vintage Views subdivision development and the subdivision applicant's proposition regarding donation of parkland.

C. ADJOURNMENT

By consensus, the Planning and Development Committee Meeting of January 8, 2015 concluded at 9:15 a.m.

APPROVED:

CERTIFIED CORRECT:

M. Pendergraft
Planning and Development Committee Chair

B. Newell
Corporate Officer



**Minutes are in DRAFT form and are subject
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REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

BOARD of DIRECTORS MEETING

Minutes of the Board Meeting of the Regional District of Okanagan-Similkameen (RDOS) Board of Directors held at 1:37 pm Thursday, January 8, 2015 the Boardroom, 101 Martin Street, Penticton, British Columbia.

MEMBERS PRESENT:

Chair M. Pendergraft, Electoral Area "A"
Vice Chair A. Jakubeit, City of Penticton
Director F. Armitage, Town of Princeton
Director M. Bauer, Village of Keremeos
Director T. Boot, District of Summerland
Director M. Brydon, Electoral Area "F"
Director G. Bush, Electoral Area "B"
Director E. Christensen, Electoral Area "G"
Director B. Coyne, Electoral Area "H"

Director R. Hovanes, Town of Oliver
Director H. Konanz, City of Penticton
Director K. Kozakevich, Electoral Area "E"
Director A. Martin, City of Penticton
Director S. McKortoff, Town of Osoyoos
Director T. Schafer, Electoral Area "C"
Director J. Sentes, City of Penticton
Director T. Siddon, Electoral Area "D"
Director P. Waterman, District of Summerland

MEMBERS ABSENT:

STAFF PRESENT:

B. Newell, Chief Administrative Officer
C. Malden, Manager of Legislative Services
D. Butler, Manager of Development Services

M. Woods, Manager of Community Services
D. French, Manager of Public Works

A. APPROVAL OF AGENDA

It was MOVED and SECONDED

THAT the Agenda for the RDOS Board Meeting of January 8, 2015 be adopted as amended to include:

Item A3 Delegation – ABC Communications

CARRIED

1. Consent Agenda – Corporate Issues**a. Corporate Services Committee – November 6, 2014**

THAT the Minutes of the November 6, 2014 Corporate Services Committee be received.

b. Environment and Infrastructure Committee – November 6, 2014

THAT the Minutes of the November 6, 2014 Environment and Infrastructure Committee be received.

c. RDOS Regular Board Meeting – November 6, 2014

THAT the minutes of the November 6, 2014 RDOS Regular Board meeting be adopted.

d. RDOS Inaugural Board Meeting – December 11, 2014

THAT the minutes of the December 11, 2014 RDOS Regular Board meeting be adopted.

It was MOVED and SECONDED

RECOMMENDATION 1 (Unweighted Corporate Vote – Simple Majority)

That the Consent Agenda – Corporate Issues be adopted. - **CARRIED**

2. Consent Agenda – Development Services**a. Development Variation Permit (DVP) Application – S. & R. Ross, 545 Lakehill Road, Kaleden****i. Permit**

THAT the Board of Directors approve Development Variance Permit No. D2014.105 – DVP

b. Development Variation Permit (DVP) Application – Enns, 4640 Mill Road, Naramata**i. Permit**

THAT the Board of Directors approve Development Variance Permit No. E2014.125-DVP

c. Development Variation Permit (DVP) Application – Carvalho, 9885 12 Ave (Hayes Road), Osoyoos**i. Permit****ii. Responses**

THAT the Board of Directors approve Development Variance Permit No. A2014.124-DVP

Director Konanz declared a conflict of interest because the applicant is her neighbour. She vacated the meeting for this section.

It was MOVED and SECONDED

RECOMMENDATION 2 (Unweighted Participant Vote – Simple Majority) (Part 26 LGA)

That the Consent Agenda – Development Services be adopted. - **CARRIED**

ADDENDUM**3. DELEGATION**

- a. [ABC Communications](#) – Brenda Bouchette

It was MOVED and SECONDED

THAT the Regional District of Okanagan-Similkameen support ABC Communications application to the Digital Canada 150 Connecting Canadians Program - **CARRIED**

B. DEVELOPMENT SERVICES – Bylaw Enforcement**1. Animal Control Contract**

It was MOVED and SECONDED

RECOMMENDATION 3 (Weighted Corporate Vote – Simple Majority)

THAT the a 5 year contract, commencing February 1, 2015 for Animal Control Services for Electoral Areas A, B, C, D, E, F and G be awarded to K9 Control in the amount of \$65,000 annually; and,

THAT the Chair and Chief Administrative Officer be authorized to execute the Animal Control Service contract. - **CARRIED**

Opposed: Directors Christensen, Pendergraft

C. DEVELOPMENT SERVICES – Rural Land Use Matters**1. Advisory Planning Commission (APC) Bylaw No. 2339, 2006**

Bylaw No. 2339.01, 2015, Regional District of Okanagan-Similkameen Advisory Planning Commission Amendment Bylaw

It was MOVED and SECONDED

RECOMMENDATION 4 (Unweighted Participant Vote – 2/3 Majority)

THAT Bylaw No. 2339.01, 2015, Regional District of Okanagan-Similkameen Advisory Planning Commission Amendment Bylaw be read a first, second and third time and be adopted. - **CARRIED**

2. Zoning Amendment – Klamut, 3861 Solana Crescent, Summerland

- a. Bylaw No. 2461.07, 2014, Electoral Area 'F' Zoning Amendment Bylaw

It was MOVED and SECONDED

RECOMMENDATION 5 (Unweighted Participant Vote – Simple Majority)

THAT Bylaw No. 2461.07, 2014, Electoral Area 'F' Zoning Amendment Bylaw be adopted. - **CARRIED**

3. **Development Permit (DP) – R 134 Enterprises Ltd (C. Meiklejohn), 1045 Highway 97, Okanagan Falls**
a. **Permit**

The Chair asked if anyone was present to speak to the matter; no one was present.

It was MOVED and SECONDED

RECOMMENDATION 6 (Unweighted Participant Vote – Simple Majority)

THAT the Board of Directors deny an amendment to Development Permit No.

D-09-00866.000 - **CARRIED**

Opposed: Director Bush

4. **Development Variance Permit (DVP) Application D01515 – White & Liu, 172 Pine Avenue, Kaleden**
a. **Permit**
b. **Responses Received**

The Chair asked if anyone was present to speak to the matter. Benoit Cadeaux, agent, addressed the Board of Directors on behalf of the owner.

It was MOVED and SECONDED

RECOMMENDATION 7 (Unweighted Participant Vote – Simple Majority)

THAT the Board of Directors deny Development Variance Permit No. D2014.121-DVP

It was MOVED and SECONDED

THAT the motion be amended to read “the Board of Directors refer Development Variance Permit No. D2014.121-DVP to the Electoral Area “D” APC.”

Question on the Main Motion:

THAT the Board of Directors refer Development Variance Permit No. D2014.121-DVP to the Electoral Area “D” APC. - **CARRIED**

5. **Temporary Use Permit (TUP) – High Risk Entertainment, Vintage Views Subdivision Phase 3 (Chadwell Place), Penticton**
- a. **Permit**
 - b. **Responses Received**

RECOMMENDATION 8 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors approve Temporary Use Permit No. D2014.108-TUP; and,

THAT the Temporary Use Permit No. D2014.108-TUP be amended to include the following conditions:

1. Within 10 days of the issuance of this permit, a meeting shall be convened on-site at which local residents and property owners may receive a briefing on any planned gravel processing activities to be undertaken over the course of the following week. This meeting shall re-occur on a weekly basis until such time as the permit lapses; and
2. A security in the amount of \$5000 shall be provided to the Regional District prior to the issuance of this permit and shall be forfeited to the Regional District in the event that a condition of this permit is not complied with. This security shall be released by the Regional District to the property owner upon the expiry of the permit.

CARRIED

6. **Temporary Use Permit (TUP) – 436167 BC Ltd (Sundial Vineyards), 4315 Black Sage Road, Oliver**
- a. **Permit**

It was MOVED and SECONDED

RECOMMENDATION 9 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors approve Temporary Use Permit No. C2014.120-TUP -

CARRIED

7. **Official Community Plan (OCP) & Zoning Amendment – Electoral Area “D-2”**
- a. **Bylaw No. 2603.01, 2015, Electoral Area “D-2” Official Community Plan Amendment Bylaw**
 - b. **Bylaw No. 2455.16, 2015, Electoral Area “D-2” Zoning Amendment Bylaw**
 - c. **Responses Received**

It was MOVED and SECONDED

RECOMMENDATION 10 (Unweighted Participant Vote – Simple Majority)

THAT Bylaw No. 2603.01, 2015, Electoral Area “D-2” Official Community Plan Amendment Bylaw and Bylaw No. 2455.16, 2015, Electoral Area “D-2” Zoning Amendment Bylaw be read a first and second time and proceed to a public hearing;

AND THAT the Board considers the process, as outlined in the report from the Chief Administrative Officer dated January 8, 2015, to be appropriate consultation for the purpose of Section 879 of the *Local Government Act*;

AND THAT, in accordance with Section 882 of the *Local Government Act*, the Board has considered Amendment Bylaw No. 2603.01, 2015, in conjunction with its Financial and applicable Waste Management Plans. - **CARRIED**

It was MOVED and SECONDED

RECOMMENDATION 11 (Unweighted Corporate Vote – Simple Majority)

THAT the holding of the public hearing be delegated to Director Siddon or delegate;

AND THAT staff schedule the date, time, and place of the public hearing in consultation with Director Siddon;

AND THAT staff give notice of the public hearing in accordance with the requirements of the *Local Government Act*. - **CARRIED**

-
8. **Official Community Plan (OCP) & Zoning Amendment – McCall, 2170 Highway 97, Okanagan Falls**
- a. **Bylaw No. 2603.03, 2014, Electoral Area “D-2” Official Community Plan Amendment Bylaw**
 - b. **Bylaw No. 2455.17, 2014, Electoral Area “D-2” Zoning Amendment Bylaw**
 - c. **Responses Received**

It was MOVED and SECONDED

RECOMMENDATION 12 (Unweighted Participant Vote – Simple Majority)

THAT Bylaw No. 2603.03, 2014, Electoral Area “D-2” Official Community Plan Amendment Bylaw and Bylaw No. 2455.17, 2014, Electoral Area “D-2” Zoning Amendment Bylaw be read a first and second time and proceed to a public hearing; and,

THAT the Board considers the process, as outlined in the report from the Chief Administrative Officer dated November 6, 2014, to be appropriate consultation for the purpose of Section 879 of the *Local Government Act*; and,

THAT, in accordance with Section 882 of the *Local Government Act*, the Board has considered Amendment Bylaw No. 2603.03, 2014, in conjunction with its Financial and applicable Waste Management Plans. - **CARRIED**

It was MOVED and SECONDED

RECOMMENDATION 13 (Unweighted Corporate Vote – Simple Majority)

THAT the holding of the public hearing be delegated to Director Siddon or delegate; and,

THAT staff schedule the date, time, and place of the public hearing in consultation with Director Siddon; and,

THAT staff give notice of the public hearing in accordance with the requirements of the *Local Government Act*. - **CARRIED**

9. **Official Community Plan (OCP) & Zoning Amendment – Ponech, District Lot 901, YDYD, except Plan KAP57545, KAP57546 & S7.5 chains (civic address unknown)**
- a. **Bylaw No. 2497.04, 2014, Electoral Area “H” Official Community Plan Amendment Bylaw**
 - b. **Bylaw No. 2498.05, 2014, Electoral Area “H” Zoning Amendment Bylaw**

It was MOVED and SECONDED

RECOMMENDATION 14 (Unweighted Corporate Vote – Simple Majority)

THAT Bylaw No. 2497.04, 2014, Electoral Area “H” Official Community Plan Amendment Bylaw and Bylaw No. 2498.05, 2014, Electoral Area “H” Zoning Amendment Bylaw be adopted. - **CARRIED**

D. ENGINEERING SERVICES**1. Petition to Enter Naramata Water Service Area**

It was MOVED and SECONDED

RECOMMENDATION 15 (Unweighted Corporate Vote – Simple Majority)

THAT Bylaw No. 1804.06, 2011, "Naramata Water System Development Cost Charge Amendment Bylaw" be adopted;

AND THAT Bylaw No. 2551, 2011, "Naramata Water Service Extension Bylaw" be adopted. - **CARRIED**

E. COMMUNITY SERVICES – Protective Services**1. Licence of Occupation Renewal – Willowbrook Fire Department**

It was MOVED and SECONDED

RECOMMENDATION 16 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors authorizes the Chair and Chief Administrative Officer to execute a renewal agreement for the License of Occupation for Block B, DL 3100, SDYD to be used by the Willowbrook Fire department for water storage tanks for fire protection purposes. - **CARRIED**

F. OFFICE OF THE CAO**1. Advisory Planning Commission (APC) Appointments**

It was MOVED and SECONDED

RECOMMENDATION 17 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors appoint the following as members of the Electoral Area "A" Advisory Planning Commission until November 30, 2018; and,

Bill Plaskett	Bonnie Douglas	Dwayne Svendsen
Gerry Hesketh	Mark McKenney	Peter Beckett
Grant Montgomery		

THAT the Board of Directors appoint the following as members of the Electoral Area "D" Advisory Planning Commission until November 30, 2018; and,

Don Albright	Bob Haddow	Jill Adamson
Bob Handfield	Ed Melenka	Doreen Olson
Bob Pearce	Jerry Stewart	Mike Bland
Navid Chaudry	Doug Lychak	

THAT the Board of Directors appoint the following as members of the Electoral Area “E” Advisory Planning Commission until November 30, 2018:

Bruce Clough

Phil Janzen

Judy Harvey

David Kopp

Heather Fleck

Tom Hoenisch

Tim Forty

- **CARRIED**

2. Joint Council Update

a. Minutes – November 30, 2014

3. Appointments to the Board of Variance

It was MOVED and SECONDED

RECOMMENDATION 18 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors appoint Dave Corbeil, Jim Cavin and Margaret Chadsey to the Board of Variance - **CARRIED**

4. Frank Venables Theatre Service Establishment Bylaw

a. Bylaw No. 2660, 2014 Frank Venables Theatre Service Establishment Bylaw

It was MOVED and SECONDED

RECOMMENDATION 19 (Unweighted Corporate Vote – Simple Majority)

THAT Bylaw No. 2660, 2014 Frank Venables Theatre Service Establishment be adopted - **CARRIED**

5. Appointments to External Agencies and Standing Committees

RECOMMENDATION 20 (Unweighted Corporate Vote – Simple Majority)

THAT appointments to external agencies and appointments of Standing Committee Chairs and Vice Chairs, as outlined in the Board report of January 8, 2015 be confirmed.

External Agencies:

Municipal Finance Authority - Chair and Vice Chair

- Mark Pendergraft (Board Chair)
- Andrew Jakubeit (Vice Chair), alternate

Municipal Insurance Association - Chair and Vice Chair

- Mark Pendergraft (Board Chair)
- Andrew Jakubeit (Vice Chair), alternate

Okanagan Basin Water Board – Participants are Electoral Areas A, C, D, E, F, part of G, City of Penticton, District of Summerland, Town of Osoyoos, Town of Oliver

- Sue McKortoff
- Andre Martin
- Peter Waterman
- Tom Siddon (alternate for A. Martin)
- Mark Pendergraft (alternate for S. McKortoff)
- Toni Boot (alternate for P. Waterman)

Okanagan Film Commission - Participants are all jurisdictions

- Andrew Jakubeit

Okanagan Regional Library - Participants are Electoral Areas A, B, C, D, E, F, G

- Karla Kozakevich
- Elef Christensen - Alternate

Okanagan Sterile Insect Release Board - Participants are Electoral Areas A, B, C, D, E, F, & G, City of Penticton, District of Summerland, Town of Osoyoos, Town of Oliver, Village of Keremeos

- George Bush
- Terry Schafer (alternate)

Southern Interior Beetle Action Coalition - Participants are all jurisdictions

- Frank Armitage
- Helena Konanz (Alternate)

Okanagan and Similkameen Invasive Species Society - Participants are all jurisdictions

- The current representative has indicated a willingness to continue on with this committee, but noted that the committee is made up of staff and it may be appropriate for the RDOS to appoint a Public Works staff member instead of an Elected Official. Currently the Manager of Public Works is a member of this committee. Administration will delegate the appointment to staff as required.

Southern Interior Municipal Employers Association - Participants are all jurisdictions

- Karla Kozakevich
- Andre Martin (alternate)

Starling Control – Participants are all jurisdictions

- George Bush

UBCO Water Research Chair Advisory Committee – All Jurisdictions

- Manfred Bauer

Intergovernmental FN Joint Council – Board Chair, Vice Chair and one other member

- Mark Pendergraft, Chair (South Okanagan)
- Andrew Jakubeit, (Large Municipality)
- Manfred Bauer, (Similkameen)

Committee Chairs:**Corporate Services:**

- Mark Pendergraft, Chair (Board Chair)
- Andrew Jakubeit, Vice Chair (Board Vice Chair)

Community Services:

- Karla Kozakevich, Chair
- Ron Hovanes, Vice Chair

Environment and Infrastructure:

- Tom Siddon, Chair
- Karla Kozakevich, Vice Chair

Protective Services:

- Andrew Jakubeit, Chair
- Terry Schafer, Vice Chair

Planning and Development:

- Michael Brydon, Chair
- George Bush, Vice Chair

6. Vermilion Forks Community Forest Corporation Appointments**It was MOVED and SECONDED****RECOMMENDATION 21 (Unweighted Corporate Vote – Simple Majority)**

THAT the Board of Directors appoint the following individuals to represent the Regional District on the Vermilion Forks Community Forest Corporation Board:

Members: Bob Coyne, Electoral Area “H” Director and Bill Newell, RDOS Chief Administrative Officer

Alternate: Sandy Croteau, RDOS Manager of Finance

CARRIED

G. CAO REPORTS

1. Verbal Update
-

H. OTHER BUSINESS

1. Chair's Report
-

2. Directors Motions
-

3. Board Members Verbal Update
-

I. ADJOURNMENT

By consensus, the meeting adjourned at 3:25 p.m.

APPROVED:

CERTIFIED CORRECT:

M. Pendergraft
RDOS Board Chair

B. Newell
Corporate Officer

ADMINISTRATIVE REPORT



TO: Board of Directors
FROM: B. Newell, Chief Administrative Officer
DATE: January 22, 2015
RE: Animal Control Officers – Appointment of Officers

Administrative Recommendation:

THAT the Regional District of Okanagan-Similkameen rescind the appointments of Patricia Marshall, Steve Marshall and Richard Mohninger, of Marshall Enforcement Services, as Animal Control Officers for the Regional District of Okanagan-Similkameen, effective February 1, 2015; and

THAT the Regional District Okanagan-Similkameen Board appoint Greg Ivens and Jason Hadland, of K-9 Control as Animal Control Officers for the Regional District of Okanagan-Similkameen, effective February 1, 2015.

Reference:

Section 264 (1) of the Community Charter

History:

On March 21, 2013, the RDOS Board appointed three employees of Marshall Enforcement Services as Animal Control Officers. This contract has since expired and was not renewed or awarded to Marshall Enforcement Services.

The current contract to provide this service has been awarded to K-9 Control. Legislation requires that Animal Control Officers be appointed by the Regional District Board. In consideration that the contract has been awarded to K-9 Control, Administration recommends that their employee(s) be appointed as RDOS Animal Control Officers.

Respectfully submitted:

Roza Aylwin

R. Aylwin, Bylaw Enforcement Coordinator

ADMINISTRATIVE REPORT



TO: Board of Directors
FROM: B. Newell, Chief Administrative Officer
DATE: January 22, 2015
RE: Electoral Area "D-1" Citizens Committee Appointments

Administrative Recommendation:

THAT the Board of Directors endorse the Terms of Reference for the Area 'D-1', Kaleden, Apex Official Community Plan (OCP) Review Citizen's Committee dated January 22, 2015; and,

THAT the Board of Directors appoint the following as members of the Electoral Area "D-1" Citizens Committee for purpose of the Official Community Plan review project:

Andrew Allin	Gayle Bukowsky	Coral Brown	Wendy Busch
Debra McGinn	Kelly O'Beirn	Brian Moen	Barb Leslie
Peter Little	Verna Mumby	Bruce Shepherd	
Lynn Henderson (alternate for Peter Little)			

Purpose:

The Citizens Committee will play a vital role in the review and update of the Electoral Area "D-1" Official Community Plan currently underway. The roles of the Committee are to provide local knowledge into the OCP review process and to act as ambassadors about the process back into their respective communities.

Background:

The project to review and update the Electoral Area "D-1" OCP was initiated in 2014 with a number of steps currently completed. As an initial stage of the project, residents within "D-1" were sought to volunteer to be on the Citizens Committee. Ideally the Committee is to be made up of a diversity of residents from all areas within D-1 in order to represent a broad range of perspectives. All of the people who applied have been recommended to be appointed.

Alternative:

THAT the Board not appoint the recommended members to be on the D-1 Citizens Committee.

Analysis:

Administration considers that the members being appointed to the Committee represent a broad range of interests and geographical perspectives. Members are made up from Kaleden, Twin Lakes, St Andrews, Apex and rural holdings and come from various walks of life.

Respectfully submitted:

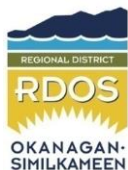
E. Riechert

E. Riechert, Planner

Endorsed by:

CG

C. Garrish, Planning Supervisor



TERMS OF REFERENCE

AREA 'D-1', KALEDEN, APEX OFFICIAL COMMUNITY PLAN (OCP) REVIEW CITIZEN'S COMMITTEE

BACKGROUND

The Regional District of Okanagan-Similkameen (RDOS) has initiated the review and update of the Electoral Area 'D-1' Kaleden, Apex Official Community Plan (OCP). The Plan process will be conducted in accordance with the *Local Government Act* which specifies purpose, required content, and adoption procedures of OCPs.

One of the desired outcomes of this Plan process is an OCP document that is accepted by the community, adopted by the Board, and will have a positive social, economic, and environmental impact on how the area grows and changes over time.

ROLE OF THE COMMITTEE

The role of the Electoral Area 'D-1' OCP Citizen's Committee is to represent the community's interest in creating and guiding the draft Electoral Area 'D-1' OCP goals, objectives, policies and implementation strategies. Specifically, the Citizen's Committee will review and provide recommendations on various topics related to the OCP, in collaboration with RDOS staff, the consulting team and the public consultation process.

PURPOSE OF THE COMMITTEE

The purpose of the Citizen's Committee is to participate directly and actively in the OCP process. In addition, the Citizen's Committee will:

1. identify key issues relating to the community, future development, and growth management;
2. share information about the OCP process with the community;
3. identify issues and questions from the community and bring them to the Committee;
4. respond to ideas and proposals from the RDOS prior to presenting them to the community;
5. make non-binding recommendations to the RDOS on various components of the draft OCP throughout the review process;
6. assist in the public consultation program, advertising, and scheduled events;
7. review and provide comments and recommendations on each version of the draft Official Community Plan;
8. review and provide comments on any other issues of relevance to the Plan referred from the RDOS;
9. assist RDOS planning staff in identifying and evaluating potential alternatives to key issues relating to the community, future development, and growth management; and,
10. provide information about the OCP review process to the community and encourage community involvement.

MEMBERSHIP

The OCP Citizen's Committee will be comprised of a maximum of 12 members of the community. The membership should reflect the diversity of ages, gender, cultures and other interests generally present in the community. The Electoral Area Director or their Alternate shall serve on the OCP Citizen's Committee as a non-voting Ex Officio member and shall not be included towards the maximum number of Committee members.

MEETINGS

Conduct

1. All Committee meetings will be conducted in an orderly and business-like manner and will be notified and open to the public.
2. The order of business will be indicated in the agenda which will be prepared by the Chairperson and the staff liaison. Any additions or changes in the prepared agenda may be requested by a Committee member and must be approved by a majority vote of the Committee members at the meeting.
3. All Committee meetings shall commence at the stated time. The conduct of meetings shall enable members of the Committee to consider information presented, weigh evidence related thereto, and make informed decisions.
4. Committee members will respect the following rules of meeting conduct:
 - (i) Group discussion is important; and everyone should get a chance to speak;
 - (ii) Provide honest, open opinions;
 - (iii) Agree to disagree; consensus may not always be achieved; and
 - (iv) Promise to stay on track and on topic.

Meeting Frequency and Project Duration

Dates, times and places of the meetings will be established at the first (or as early as possible in the process) Committee meeting. Once established, notice of these meetings will be posted on the Regional District's web site and a schedule will be given to each member of the Committee.

It is anticipated that this project will take until early of 2016 to complete. The Citizen's Committee, while having regular meetings, may also be involved in longer (eg. half day/ weekend) special meetings to discuss certain aspects of the plan as it is developed. As well, it is also expected that the Citizen's Committee assist with any public information sessions as reasonably that can be expected.

Procedure

1. The OCP Citizen's Committee will elect a chairperson as its first order of business during its inaugural meeting.
2. The OCP Citizen's Committee will operate on a consensus basis. Consensus means there is substantial agreement where all group members can accept a decision.
3. If consensus cannot be achieved, all positions will be forwarded to the Electoral Area Director.

4. Attendance by at least half of the OCP Citizen's Committee members will be considered a quorum.
5. The OCP Citizen's Committee is appointed by the Regional District Board, and reports to the Electoral Area Director who reserves the right to recommend to the Board amendments to the OCP Citizen's Committee structure as required, the appointment of new members to the OCP Citizen's Committee, or the termination of the OCP Citizen's Committee. The reasons for any decision in these matters will be publicly stated.
6. The OCP Citizen's Committee may hear delegations on issues being considered or on proposed content in the Plan.
7. Members of the OCP Citizen's Committee must excuse themselves from recommendations related to their particular property interests.
8. Regional District Planning staff or consultants contracted to undertake the project will be available, as required, to explain the legislative and technical context which affects the review, and the implications of proposals or recommendations made by the OCP Citizen's Committee.
9. Consultants, with staff input, will also be responsible for drafting the new Plan.
10. The new Plan will be presented to the public to allow comment on the Official Community Plan as part of a public consultation program using methods to be determined by the consultant, with input from the OCP Citizen's Committee and approved by the Regional District Board.
11. As an Ex Officio member of the OCP Citizen's Committee, the Electoral Area Director or Alternate Director will provide background information, advice and direction. The Electoral Area Director or Alternate Director cannot vote or present motions to the OCP Citizen's Committee.
12. A Secretary will be provided by the RDOS to prepare agendas in consultation with the Electoral Area Director, record minutes, and distribute those minutes to each member after the meetings.
13. The OCP Citizen's Committee has no authority to call public meetings, commit funds, enter into contracts, or represent the RDOS.
14. The recommendations of the Official Community Plan Citizen's Committee shall be considered by the Electoral Area Director, but shall not be binding.

Minutes

The RDOS will prepare the minutes of all committee meetings. The minutes shall be signed by the Committee Chair and made available to the public, Committee members, and the Board.

Attendance at Meetings

Attendance at meetings will be encouraged for all Committee members. In situations where a particular member cannot attend, the Regional District will forward a copy of the minutes of the meeting to that Committee member. Each Committee member is responsible for informing staff if they will be absent at the next meeting. Frequent non-attendance by a Committee member will be reviewed by the Electoral Area Director and may warrant a replacement being sought.

Meeting Facilitator

The Chair shall preside at all meetings of the Committee, maintain order, and ensure the rules of the committee are followed. An alternate Chair will be selected by the members of the Committee in the event of an absence.

RENUMERATION

1. Members of the OCP Citizen's Committee will serve without remuneration but the RDOS will pay appropriate preapproved and necessary expenses that arise directly out of the performance of their duties as members of the Official Community Plan Citizen's Committee.
2. The RDOS will cover necessary meeting expenses (room rental, meals, etc.) if applicable.
3. Secretarial Services will be provided by the RDOS.
4. Meeting locations will be decided by the OCP Citizen's Committee and coordinated by the RDOS.



Office of the Mayor

2760 Cameron Road, West Kelowna, British Columbia V1Z 2T6

Tel (778) 797.2210 Fax (778) 797.1001

January Board

October 21, 2014

File No.: 5500-02-04
BC Hydro, Electrical Transmission Line

Chair Mark Pendergraft
Board of Directors
Regional District of Okanagn-Similkameen
101 Martin Street
Penticton, BC V2A 5J9

Dear Chair Pendergraft and Board of Directors:

Re: Single Radial Electrical Line from Merritt to West Kelowna, Westbank First Nation, Peachland, Regional District Central Okanagan Electoral Area West, Penticton Indian Band, and RDOS Electoral Area F

On October 1, 2014 BC Hydro's main transmission line experienced a major failure. This single radial electrical line services all of West Kelowna, Westbank First Nation, Peachland, and portions of Regional District Central Okanagan Electoral Area West, Regional District of Okanagan-Similkameen Area F, and Penticton Indian Band reserve.

This single radial transmission line, from Merritt Substation to Westbank Substation, provides service to over 60,000 permanent residents and thousands of businesses in our regions. Our region is totally vulnerable when this line fails threatening municipal infrastructure, health and safety of residents, and business commerce.

BC Hydro maintains that this level of service is safe and reliable. However, we have experienced serious outages including the nine-hour event on October 1, 2014, and in July 2014, without substantial air attack, the Smith Creek Fire would have resulted in a power outage for a minimum of three days to the same large service area on the Westside of Okanagan Lake.

A secondary transmission line is a priority to ensure public safety, to provide our existing population with a secure power source and ensure future growth can be supported. Our voices will be stronger together and I therefore request your Council or Board to endorse the attached petition to BC Hydro to commit to provide an alternate, secondary electrical transmission line to our region.

Please feel free to contact my office if you have questions or require clarification.

Yours truly,

Doug Findlater
Mayor

Enclosures

cc West Kelowna Council
Jim Zaffino, Chief Administrative Officer
Christy Clark, Premier / MLA Westside-Kelowna

RECEIVED
Regional District

OCT 27 2014

101 Martin Street
Penticton BC V2A 5J9



Petition to BC Hydro

We the undersigned Mayors, Chiefs, and Board Chairs, request BC Hydro to commit to providing an alternate, secondary electrical transmission line to service our regions.

Currently, only a single-circuit 138 kilovolt transmission line provides electrical service to a region of over 60,000 permanent residents and thousands of businesses in the District of West Kelowna, Westbank First Nation, District of Peachland, and portions of Regional District Central Okanagan Electoral Area West (RDCO), Regional District of Okanagan-Similkameen Electoral Area F, and Penticton Indian Band reserve.

On behalf of our communities we request BC Hydro to commit to providing an alternate, secondary electrical transmission line to service this growing region.

Background:

This region, in particular West Kelowna, Westbank First Nation, and portions of RDCO Electoral Area West have experienced a number of significant power outages over a number of years. BC Hydro maintains that this level of service is safe and reliable; however we have experienced enough outages including the nine-hour event on October 1, 2014 to know this simply isn't true.

There was significant risk to the entire region during the July 2014 Smith Creek fire and without substantial air attack to this fire, power to 60,000 plus residents, thousands of tourists, and businesses would have lost power. This would have put vulnerable populations at risk and significantly impacted in this region to provide water and sewer infrastructure to our residents and businesses, including fire-fighting capacity.

During the Smith Creek Fire Emergency Operation Centre briefings, BC Hydro personnel indicated that if the power is cut it could be a minimum three days before being restored (if personnel were able to access the line safely) to the entire region on the Westside of Okanagan Lake.

On October 1, 2014 this transmission line again experienced a major failure near Merritt resulting in a power outage affecting all regions.¹ Fortunately October's weather is mild and residents were able to keep warm during this nine-hour power outage. The economic impact to the business community was significant through the loss of revenue and good and services.

¹ October 1, 2014 BC Hydro Power Outage Map

During the July 2014 Smith Creek Fire, Premier Christy Clark, committed to District of West Kelowna residents the need to fix the problem. Premier Clark said *"We're talking about 60,000 people who are dependent on it (hydro), so I've instructed BC Hydro this morning to get it fixed; we are going to make sure this gets done."* Source: AM1150 Local News²

Mayor Doug Findlater
District of West Kelowna

Date

Chief Robert Louie
Westbank First Nation

Date

Chair Robert Hobson
Regional District Central Okanagan

Date

Mayor Keith Fielding
District of Peachland

Date

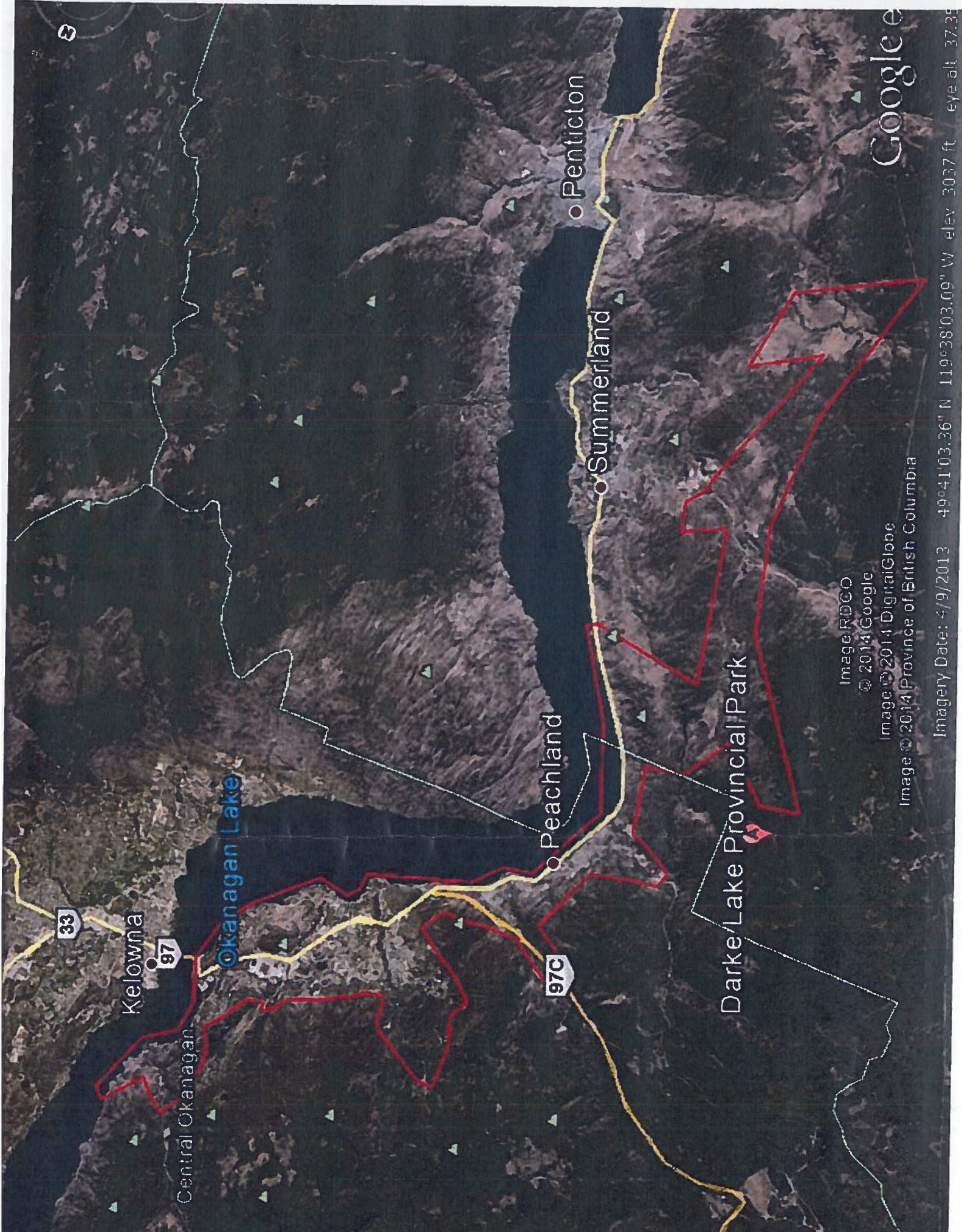
Chief Jonathan Kruger
Penticton Indian Band

Date

Chair Mark Pendergraft
Regional District of Okanagan-Similkameen

Date

² AM 1150 Article



Google

Image RPOCO

© 2014 Google

Image © 2014 DigitalGlobe

Image © 2014 Province of British Columbia

Imagery Date: 4/9/2013

49°41'03.36" N 119°38'03.00" W elev 3037 ft eye alt 27.39

Power outages possible in West Kelowna: residents urged to be prepared

Posted on July 18, 2014 by AM 1150



BC Hydro is warning residents of West Kelowna and Peachland to be prepared for possible power outages as a result of the Smith Creek Fire.

The fire is burning within 100 metres of the main feeder line which is the only line supplying power to residents of the Westside.

West Kelowna Mayor Doug Findlater is frustrated by this fact.

"Here we are with a major fire staring us in the face and our firefighters are having to protect the line which they would in any event, but what we need in the long term, in the next few years is some redundancy," Mayor Findlater told AM1150 Friday morning.

Findlater is recommending a second power line into West Kelowna, something local MLA & Premier Christy Clark agrees with.

Clark told AM1150 this (Friday) morning that she has instructed BC Hydro to fix the problem.

"We're talking about 60,000 people who are dependant on it (hydro), so I've instructed BC Hydro this morning to get it fixed; we are going to make sure this gets done," says Premier Clark.

SILGA *Southern Interior Local Government Association*

December 16, 2014

To: All SILGA Members

Re: SILGA Convention – Call for Nominations

As per the Constitutional Requirements of the Southern Interior Local Government Association, the “Call for Nominations” is now going out to all member Mayors, Councillors, Regional Chairs and Directors who wish to seek a position on the SILGA Executive for the 2015/2016 term. Elections are to be held at the SILGA Convention in Kamloops from April 29th to May 1st.

Offices to be filled are President, 1st Vice President, 2nd Vice President and seven Directors, one of whom must be an Electoral Area Director of a member Regional District. All positions are for one year. Those presently serving may run for another term if they so wish.

Deadline for nominations is Friday, February 27, 2015. You will be asked to complete a biography and submit a photo for the printing of the official Nominating Committee Report to be contained in the Convention Package.

The SILGA nomination committee is chaired by Director Rhona Martin, CSRD.

All those interested in serving are asked to contact Director Martin at 250-517-9471 or by email at rmartin@csrd.bc.ca. All information should be forwarded to both Director Martin and the SILGA office (email alislater@shaw.ca).

Rhona Martin,
Past President, SILGA

December 16, 2014

To: All SILGA Members

Call for Resolutions for 2015 SILGA Convention

The SILGA Annual General Meeting and Convention is scheduled to be held in Kamloops from April 29th to May 1st, 2015. The SILGA Constitution requires that resolutions to be considered at the Annual Meeting are to be received by the Secretary-Treasurer no later than 60 days prior to this meeting. Friday, February 27, 2015 will be the deadline for receipt of resolutions.

If your local government wishes to submit a resolution for consideration at the 2015 SILGA Convention, please forward by email your resolution to alislater@shaw.ca and follow with a hard copy to #5-690 Robson Dr., Kamloops BC V2E 2B7. Any background information on the resolution would be helpful.

For information on how to properly write a resolution please refer to the UBCM website below.

<http://www.ubcm.ca/EN/main/resolutions/resolutions/resolutions-procedures.html>

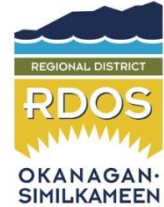
Resolutions not received by February 27th will be considered late resolutions and must go through the following procedures to be considered at the AGM.

(1) Late resolutions may only be introduced if received by the Resolutions Committee Chair at least twenty-four (24) hours prior to the commencement of an Annual Meeting, providing that enough copies are supplied in order that they may be circulated to all Member Representatives at the Meeting Registration Desk at the time of registration and provided that a resolution to allow its debate receives an affirmative vote of three-fifths (60%) of the Member Representatives in attendance at the meeting;

(2) Late resolutions will be reviewed by the Resolutions Committee prior to the Meeting and only those of a subject matter which could not have been submitted by the normal deadline date outlined in section 10.4 will be considered.

Marg Spina
President, SILGA

ADMINISTRATIVE REPORT



TO: Board of Directors
FROM: B. Newell, Chief Administrative Officer
DATE: January 22, 2015
RE: Advisory Planning Commission (APC) Appointments

Administrative Recommendation:

THAT the Board of Directors appoint the following as members of the Electoral Area “H” Advisory Planning Commission until October 31, 2018:

Tom Rushworth
Ole Juul
Gail Smart

Marg Riechart
Dennis Dawson
Lynn Smythe

Rob Miller
Dave Rainer

History:

Bylaw 2339, being a bylaw of the Regional District of Okanagan Similkameen, provides for the creation of Advisory Planning Commissions for each of our electoral areas.

Section 3 of the Bylaw establishes that the role of the Commission is to provide recommendations to the Regional District on all matters referred to it by the Regional District or by its Electoral Area Director respecting land use, the preparation and adoption of an official community plan or a proposed bylaw and permits under Divisions 2, 7, 9 and 11 of Part 26 of the *Local Government Act*.

Section 4 of the Bylaw provides for the appointment of members, requiring the Board, by resolution, to appoint members to each Commission on the recommendation of the respective Electoral Area Director.

At least two-thirds of the members of a Commission for an Electoral Area shall be residents of that electoral area and the members should represent a cross-section of the people and geographic zones in its jurisdiction.

Commission appointments shall be made by the Board for terms which run concurrent with the Board term, and no term of appointment shall extend beyond term of the Electoral Area Director unless re-appointed by the Board.

An Electoral Area Director, Alternate Director, Regional District employee or officer are not eligible to be members of the Commission but may attend a meeting of the Commission in a resource capacity.

Analysis:

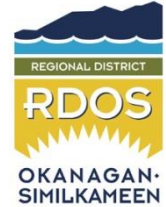
Director Coyne has requested that the above names be appointed as members of the Electoral Areas “H” Advisory Planning Commission.

Respectfully submitted:

"C. Malden"

C. Malden, Manager of Legislative Services

ADMINISTRATIVE REPORT



TO: Board of Directors
FROM: B. Newell, Chief Administrative Officer
DATE: January 22, 2015
RE: Okanagan Falls Parks & Recreation Commission Appointments 2015/2016

Administrative Recommendation:

THAT the Board of Directors re-appoint the following people as members of the Okanagan Falls Parks & Recreation Commission for the periods indicated:

Name	Term	Expires
Kim Baker	2 years	December 31, 2016
Lynn Tsumuraya	2 years	December 31, 2016
Tammie Smart	2 years	December 31, 2016
Mike Pearce	2 years	December 31, 2016

The following members continue to serve Okanagan Falls Parks & Recreation Commission.

Name	Expires
Don Clark	December 31, 2015
Darcey Godfrey	December 31, 2015
Pat Rawkins	December 31, 2015
Alf Hartviksen	December 31, 2015
Ed Melenka	December 31, 2015

Reference:

Bylaw 2253, 2004 Okanagan Falls Parks & Recreation Commission Establishment Bylaw.

History:

It is the recommendation of the Okanagan Parks and Recreation Commission to reappoint Mike Pearce, Kim Baker, Lynn Tsumuraya, and Tammie Smart to the Commission. Members were selected by the elected representatives as identified in Bylaw No. 2253, 2004.

Respectfully submitted:

C. Malden, Manager of Legislative Services

ADMINISTRATIVE REPORT



TO: Board of Directors
FROM: B. Newell, Chief Administrative Officer
DATE: February 5, 2015
RE: Okanagan Falls Parks and Recreation Parkland Acquisition Loan Authorization Bylaw

Administrative Recommendation:

THAT Bylaw No. 2684, 2015 Okanagan Falls & District Recreation Service Establishment Amendment Bylaw be read a first, second and third time; AND;

THAT Bylaw No. 2685, 2015 Okanagan Falls Parkland Acquisition Loan Authorization Bylaw be read a first, second and third time; AND,

THAT the Board of Directors authorize that elector approval for the adoption of the bylaw be obtained through assent vote (referendum); AND,

THAT Christy Malden be appointed as Chief Election Officer and Gillian Cramm be appointed as Deputy Chief Election Officer for the Okanagan Falls Parks and Recreation Parkland Acquisition Assent Vote in Electoral Area "D"; AND,

THAT the question be –‘Are you in favour of the Regional District of Okanagan-Similkameen adopting Bylaw No. 2684, 2015 and Bylaw No. 2685, 2015 to provide for the following:

- **Increase the Okanagan Falls & District Recreation Service maximum requisition to not exceed the greater of five hundred and twenty five thousand dollars (\$525,000) or seventy three cents (\$0.73) per thousand dollars of the net taxable value of land and improvements in the service area, and;**
- **Authorizing the borrowing of nine hundred and fifty thousand dollars (\$950,000) to purchase parkland within Okanagan Falls.**

Reference:

Bylaw No. 1174 Okanagan Falls & District Recreation Services Establishment Bylaw

History:

The Director for Electoral Area "D" has been actively involved over a number of years in the acquisition of parkland. The Area Director has approached a landowner within Okanagan Falls to acquire additional parkland and has submitted an offer to purchase that property for parkland. The Director and Administration are also working on the acquisition of property for parkland in Heritage Hills. Both of these properties are located within the Okanagan Falls & District Recreation Service Area.

Alternatives:

1. Do not proceed with Bylaw No. 2684, 2015 and Bylaw No. 2685, 2015.

2. Amend Bylaw No. 2684, 2015 to a requisition limit of the greater four hundred and fifty five dollars (\$455,000) or sixty-one cents (\$0.63) per thousand dollars of the next taxable value of land and improvements
3. Amend Bylaw No. 2685, 2015 to a maximum term of Thirty (30) years

Analysis:

In order to finance this project the Regional District must issue long term borrowing which must be approved by the electorate in the Okanagan Falls recreation service area. The amount that is being borrowed will not be more than nine hundred and fifty thousand (\$950,000). The Electoral Area Director has asked that the Regional District use the Assent Voting method to obtain the assent of the electorate for the purchase of this land. All costs involved with the Assent Voting process will be allocated to the Okanagan Falls recreation service area.

For a 20 year term the financial impact per average household will be an additional \$32. /year. Interest at 4% over a 20 year term is \$760,000 and the payment required each year is \$71,593. A 30 year term will impact the average household an additional \$25/year and the yearly payment would be \$56,403; however interest at 4% over the 30 years is \$1,140,000. Administration is recommending that the term be for 20 years as although the cost differential between 20 and 30 years per household is approximately a \$7 savings, interest costs are an additional \$380,000 for the extra 10 year period.

To allow for the purchase of the property, the tax requisition limit must be increased. Currently the tax requisition limit for the Okanagan Falls Parks and Recreation Service is the greater of \$380,000 or \$0.50/1,000 of the net taxable value of land and improvements. Although an increase of \$0.18/1,000 would provide for the purchase of the property and meet the needs of the current proposed budget (\$490,000 total), it does not provide additional funds for future projects. Administration is recommending that the requisition limit be increased to the greater of \$525,000 or \$0.73/\$1,000. This impact associated with going from \$0.68/\$1,000 to the recommended \$0.73//\$1,000 would change the maximum cost per average household from \$218 to \$234.

Respectfully submitted,



C. Malden, Manager of Legislative Services

**REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN
BYLAW NO. 2684, 2015**

A bylaw to amend “Okanagan Falls & District Recreation Service Establishment Bylaw No. 1174, 1990” to increase the maximum requisition.

WHEREAS the Regional District has adopted “Okanagan Falls & District Recreation Programming, Parks and Facility Maintenance Local Service Establishment Bylaw No. 1174, 1990;

AND WHEREAS the Regional District wishes to increase the maximum requisition;

AND WHEREAS the Regional Board of the Regional District of Okanagan-Similkameen has obtained the assent of electors in accordance with the Local Government Act;

NOW THEREFORE, the Board of the Regional District of Okanagan-Similkameen, in open meeting assembled, enacts as follows:

CITATION

1. This bylaw may be cited as the “Okanagan Falls & District Recreation Service Establishment Amendment Bylaw No. 2684, 2015.”

AMENDMENT

2. Section 5 is deleted in its entirety and the following text is substituted therefore:

“The maximum amount that may be requisitioned shall not exceed the greater of five hundred and twenty five thousand dollars (\$525,000) or seventy three cents (\$0.730) per thousand dollars of the net taxable value of land and improvements in the service area.”

READ A FIRST SECOND AND THIRD TIME this day of , 2015.

APPROVED BY THE INSPECTOR OF MUNICIPALITIES the day of , 2015.

RECEIVED ASSENT OF THE ELECTORATE THROUGH REFERENDUM this day of , 2015.

ADOPTED this day of , 2015.

Chair

Corporate Officer

REGIONAL DISTRICT OF OKANAGAN-SIMILKAMEEN

BYLAW NO. 2685, 2015

A bylaw to authorize the long-term borrowing of for the acquisition of parkland within Okanagan Falls

WHEREAS pursuant to Section 819 of the Local Government Act and Section 179 of the Community Charter, the Regional District of Okanagan-Similkameen may, by loan authorization bylaw, borrow money for capital purposes;

AND WHEREAS the Board of the Regional District of Okanagan-Similkameen has established by Bylaw No.1174, a service for the purpose of providing recreation to the Okanagan Falls Service Area;

AND WHEREAS it is deemed desirable and expedient to acquire parkland serving the Okanagan Falls Recreation Service Area;

AND WHEREAS the maximum term for which a debenture may be issued to secure the debt created by this bylaw is for a term not to exceed twenty (20) years;

AND WHEREAS the authority to borrow under this bylaw expires five (5) years from the date on which this bylaw is adopted;

AND WHEREAS the Regional Board of the Regional District of Okanagan-Similkameen has obtained the approval of electors in accordance with the *Local Government Act*;

NOW THEREFORE, the Board of the Regional District of Okanagan-Similkameen in open meeting assembled enacts as follows:

1. AUTHORIZATION OF PURCHASE

The Regional Board is hereby empowered and authorized to purchase lands which will be used as parkland serving the Okanagan Falls Recreation Service Area and to do all things necessary in connection therewith and without limiting the generality of the foregoing:

2. LOAN AUTHORIZATION

- a) To borrow upon the credit of the Regional District a sum not more than nine hundred and fifty thousand dollars (\$950,000).
- b) To acquire all such real property, easements, rights-of-way, licenses, rights or authorities as may be requisite or desirable for or in connection with the construction of said parks & playgrounds to the Okanagan Falls Recreation Service Area.

3. TERM OF DEBENTURE

The maximum term for which debentures may be issued to secure debt created by this bylaw is twenty (20) years.

4. CITATION

This bylaw may be cited as Okanagan Falls Parkland Acquisition Loan Authorization Bylaw No. 2685, 2015

READ A FIRST, SECOND, AND THIRD TIME this xx day of xx, 2015

APPROVED by the Inspector of Municipalities this xx day of xx, 2015

RECEIVED ASSENT OF THE ELECTOR THIS xx day of xx, 2015

ADOPTED this xx day of xx, 2015

RDOS Board Chair

Corporate Officer



Okanagan Basin

WATER BOARD

BOARD REPORT: November 6, 2014

1450 KLO Road, Kelowna, BC V1W 3Z4

P 250.469.6271 F 250.762.7011

www.obwb.ca

OBWB Directors

Doug Findlater - Chair,
Regional District of Central
Okanagan

Juliette Cunningham - Vice-
Chair, Regional District of
North Okanagan

Doug Dirk, Regional District of
North Okanagan

Bob Fleming, Regional District
of North Okanagan

Keith Fielding, Regional
District of Central Okanagan

Patty Hanson, Regional
District of Central Okanagan

Gary Litke, Regional District of
Okanagan-Similkameen

Allan Patton, Regional District
of Okanagan-Similkameen

Stu Wells, Regional District of
Okanagan-Similkameen

James Pepper, Okanagan
Nation Alliance

Toby Pike, Water Supply
Association of B.C.

Don Dobson, Okanagan Water
Stewardship Council

**The next regular meeting of the
OBWB is 10 a.m. February 3,
2014 at Regional District of
Central Okanagan in Kelowna.**

Okanagan Basin Water Board Meeting Highlights

Water grants program now accepting funding applications: The Water Board invites non-profit community groups, local governments, and irrigation or improvement districts in the Okanagan to submit applications to its Water Conservation and Quality Improvement (WCQI) Grant Program. With \$300,000 available in total, successful applicants can receive up to \$30,000 for their project. While the board will review all applications that meet the conservation and quality improvement criteria, special consideration will be given to projects that address priority areas identified in the OBWB's 2014-19 Strategic Plan and which help close some of the gaps in the valley-wide management of water. Those categories include: Drought Planning, Groundwater, Irrigation, Metering, Restoration, Source Protection, Water System Improvement (Quantity and Quality), and Water Flow Monitoring. This year's application deadline is 4 p.m. Friday, February 6, 2015. For more info. please visit www.obwb.ca/wcqi.

Okanagan Water Board weighs in on proposed groundwater regs: Directors voted to send a letter to the Province regarding new groundwater regulations, proposed as part of B.C.'s Water Sustainability Act. In particular, the letter recommends adequate funding and staff resources to ensure successful groundwater protection. The letter, developed in consultation with water managers, agriculture sector representatives, and groundwater experts in the Okanagan, also recommends: improved groundwater data collection and interpretation; a recognition that groundwater and surface water are interconnected and equally important; and adequate and meaningful consultation with local government, First Nations and water users. It also suggests running a pilot project for the new regulations in the Okanagan.

Water Board requests Zosel Dam operators to protect from mussels: In its continued effort to protect the Okanagan from invasive zebra and quagga mussels, the Board will be sending a letter to the Osoyoos Lake Board of Control (OLBC) which is responsible for the operation of Zosel Dam, just south of the Canadian border. The OBWB is recommending that OLBC develop an emergency response plan to address the potential for the mussels' arrival.

OBWB call for action prompts B.C. response on blue-green algae: The Water Board was provided an update from Interior Health on a B.C.-wide protocol to deal with blue-green algae blooms. The protocol is the result of a request from OBWB to have a system put in place after it became apparent this was missing during a bloom at an Osoyoos beach in the summer of 2013. Since then, Interior Health has been working to develop a protocol. The system will help local governments and B.C. Ministry of Health better address the issue, knowing when to post signs at beaches and alert the public.

For more information, please visit: www.OBWB.ca

BOARD of DIRECTORS MEETING

January 22, 2015

3:00 p.m.

BOARD MEETING AGENDA

A. ADOPTION OF AGENDA

B. MINUTES

1. OSRHD Inaugural Board Meeting – December 11, 2014
2. OSRHD Board Meeting – October 16, 2014

**C. Interior Health Authority Capital Projects and Planning Status Report, Master
Summary – November 2014**

D. Bylaw No. 160 - 2015 – 2019 Five Year Financial Plan Bylaw

**Minutes are In DRAFT form and are subject
to change pending approval by Regional District Board**

OKANAGAN-SIMILKAMEEN REGIONAL HOSPITAL DISTRICT INAUGURAL BOARD MEETING

Minutes of the Regular Board Meeting of the Okanagan-Similkameen Regional Hospital Board (OSRHD) of Directors held at 3:59 pm on Thursday, December 11, 2014 in the Boardroom, 101 Martin Street, Penticton, British Columbia.

MEMBERS PRESENT:

Chair M. Brydon, Electoral Area "F"	Director R. Hovanes, Town of Oliver
Vice Chair J. Sentes, City of Penticton	Director A. Jakubeit, City of Penticton
Director M. Pendergraft, Electoral Area "A"	Director H. Konanz, City of Penticton
Director F. Armitage, Town of Princeton	Director K. Kozakevich, Electoral Area "E"
Director M. Bauer, Village of Keremeos	Director A. Martin, City of Penticton
Director T. Boot, District of Summerland	Director S. McKortoff, Town of Osoyoos
Director G. Bush, Electoral Area "B"	Director T. Schafer, Electoral Area "C"
Director E. Christensen, Electoral Area "G"	Director T. Siddon, Electoral Area "D"
Director B. Coyne, Electoral Area "H"	Director P. Waterman, District of Summerland

MEMBERS ABSENT:

STAFF PRESENT:

B. Newell, Chief Administrative Officer	M. Woods, Manager of Community Services
C. Malden, Manager of Legislative Services	S. Croteau, Manager of Finance
D. Butler, Manager of Development Services	D. French, Manager of Public Works

A. CALL TO ORDER

B. ELECTION OF 2015 OSRHD BOARD CHAIR AND VICE CHAIR

Chief Administrative Officer Newell called for nominations for the position of OSRHD Board Chair.

Nomination: Director Konanz nominated Director Sentes.

Nomination: Director Bauer nominated Director Brydon.

CAO Newell called two more times for nominations. No further nominations were forthcoming.

It was MOVED and SECONDED

THAT nominations for Board Chair be closed. - **CARRIED**

By consensus, the Board appointed C. Malden and G. Cramm to serve as scrutineers.

Nominees were given an opportunity to provide a brief speech.

Director Brydon was elected OSRHD Chair for the ensuing year.

Chief Administrative Officer Newell called for nominations for the position of OSRHD Board Vice Chair.

Nomination: Director Armitage nominated Director Sentes.

CAO Newell called two more times for nominations. No further nominations were forthcoming.

It was MOVED and SECONDED

THAT nominations for Board Vice Chair be closed. - **CARRIED**

CAO Newell declared Judy Sentes acclaimed as OSRHD Vice Chair for the ensuing year.

It was MOVED and SECONDED

THAT the Board of Directors directs the scrutineers to destroy the ballots. - **CARRIED**

C. ADOPTION OF AGENDA

It was MOVED and SECONDED

THAT the agenda for the OSRHD Inaugural Board Meeting of the December 11, 2014 be adopted. - **CARRIED**

D. LEGISLATIVE ISSUES

1. 2015 RDOS Schedule of Meetings

It was MOVED and SECONDED

RECOMMENDATION 1 (Unweighted Corporate Vote – Simple Majority)

THAT the 2015 Okanagan-Similkameen Regional Hospital District Board Schedule of Meetings as contained in the December 11, 2014 report from the Chief Administrative Officer, be approved. - **CARRIED**

2. 2015 Regional District Signing Authority

It was MOVED and SECONDED

RECOMMENDATION 2 (Unweighted Corporate Vote – Simple Majority)

THAT the Board of Directors appoint the following Directors as signing officers for the Okanagan-Similkameen Regional Hospital District for the 2015 year:

OSRHD Board Chair: Michael Brydon

OSRHD Board Vice Chair: Judy Sentes

- CARRIED

E. FINANCE

1. Anticipated Borrowing

It was MOVED and SECONDED

RECOMMENDATION 3 (Weighted Corporate Vote – Simple Majority)

WHEREAS pursuant to Section 31 of the Hospital District Act, the Board may, by resolution, with the approval of the Minister, or a person authorized by him to act in his behalf, borrow for the purposes other than capital expenditures, by way of temporary loan, such sums as the Board may deem necessary to meet current operating expenditures for the year, including the amounts required for current operating expenditures for the year, including the amounts required for principal and interest falling due within the year upon any debt of the Board; and

WHEREAS pursuant to Section 25 of the Act, member municipalities and the Province are not required to make payment from taxation revenues of amounts requisitioned by a District until August 1, of each year; and

WHEREAS estimated expenditures in the amount of five hundred thousand dollars, (\$500,000) may be required before payment of such revenue is due;

NOW THEREFORE be it resolved that the Board of the Okanagan-Similkameen Regional Hospital District borrow, pursuant to Section 31 of the Hospital District Act, a sum not exceeding five hundred thousand dollars, (\$500,000) for the purpose of paying 2015 lawful expenditures. **- CARRIED**

F. ADJOURNMENT

By consensus, the meeting adjourned at 4:15 p.m.

APPROVED:

CERTIFIED CORRECT:

OSRHD Board Chair

B. Newell
Corporate Officer

**OKANAGAN-SIMILKAMEEN REGIONAL HOSPITAL DISTRICT
REGULAR BOARD MEETING**

Minutes of the Regular Board Meeting of the Okanagan-Similkameen Regional Hospital Board (OSRHD) of Directors held at 1:00 pm on Thursday, October 16, 2014 in the Boardroom, 101 Martin Street, Penticton, British Columbia.

MEMBERS PRESENT:

Chair J. Perrino, District of Summerland
Vice Chair J. Sentes, City of Penticton
Director F. Armitage, Town of Princeton
Director M. Bauer, Village of Keremeos
Director G. Bush, Electoral Area "B"
Director M. Brydon, Electoral Area "F"
Director B. Hallquist, District of Summerland
Director B. Hope, Electoral Area "H"
Director D. Mattes, Alt. Town of Oliver

Director A. Jakubeit, City of Penticton
Director H. Konanz, City of Penticton
Director K. Kozakevich, Electoral Area "E"
Director G. Litke, City of Penticton
Director A. Patton, Electoral Area "C"
Director M. Pendergraft, Electoral Area "A"
Director T. Siddon, Electoral Area "D"
Director C. Rhodes, Alt. Town of Osoyoos
Director A. Wood, Electoral Area "G"

MEMBERS ABSENT:

Director S. Wells, Town of Osoyoos

Director R. Hovanes, Town of Oliver

STAFF PRESENT:

B. Newell, Chief Administrative Officer
C. Malden, Manager of Legislative Services

1. ADOPTION OF AGENDA

HB21/14 It was MOVED and SECONDED

THAT the Board of Directors amend the agenda of the October 16, 2014 Okanagan-Similkameen Regional Hospital District Regular Board Meeting by adding:

Item 3. Correspondence from Interior Health.

CARRIED

2. MINUTES (*Unweighted Corporate Vote – Simple Majority*)

2.1 OSRHD Board Meeting – September 18, 2014

HB22/14 It was MOVED and SECONDED

THAT the Board of Directors adopt the minutes of the Okanagan-Similkameen Regional Hospital District Special Board Meeting held September 18, 2014.

CARRIED

3. Correspondence from Interior Health.
addendum

3.1 [2013-2014 Global Grant](#)

3.2 [Closed Projects/Major Equipment](#)

4. A WORD FROM THE 2014 CHAIR

Chair Perrino noted some of the challenges faced by Interior Health and successes which often go unrecognized, including their handling of the recent commercial bus crash on the Coquihalla and their preparations for Boonstock to name a few. The Chair also discussed the value of the RHD Board, summed up past achievements, and thanked the members for their commitment.

ADJOURN

By consensus, the meeting concluded at 1:25 pm.

APPROVED:

CERTIFIED CORRECT:

J. Perrino
OSRHD Board Chair

B. Newell
Chief Administrative Officer

Oct16HspBdMinutes

IHA Capital Projects and Planning Status Report Master Summary - November 2014

Project Number	Project Name/Phase Name	Project Manager	% Complete Status			Substantial Complete Date	On Time	On Budget	Issues	Project Budget	Insight Actuals 13-Nov-14	RHD
			Prog.	Design	Const.							
	Interior Heart and Surgical Centre Bundled Project*											\$ -
9907151	KGH IHSC - Business Case (Complete)	Nicola H.	100%	N/A	N/A	Sep-09	Y	Y	N	\$ 3,300,000	\$ 3,185,890	CO
9910156	KGH IHSC - IHSC Building	David F.	100%	100%	85%	Apr-15	Y	Y	N	\$ 172,548,619	\$ 123,195,429	CO
9910157	KGH IHSC - Clinical Support Building (Dr. W. Anderson Bldg)	Doris L.	100%	100%	100%	May-12	Y	Y	N	\$ 38,116,374	\$ 36,497,239	CO
9910158	KGH IHSC - Royal Building	David F.	100%	100%	50%	Oct-15	Y	Y	N	\$ 27,446,474	\$ 16,498,130	CO
9910160	KGH IHSC - Centennial Building IH	David F.	100%	100%	90%	May-15	Y	Y	N	\$ 2,164,648	\$ 1,797,419	CO
9910161	KGH IHSC - Strathcona Building	Doris L.	100%	85%	2%	2017	Y	Y	N	\$ 71,771,693	\$ 3,616,564	CO
9911144	KGH IHSC - Acquisition (Complete)	Doug L.	0%	N/A	N/A	Jul-11	Y	Y	N	\$ 23,465	\$ 23,465	CO
6110354	KGH IHSC - Royal/Abbott Surface Parking (Complete)	Doris L.	0%	100%	100%	Dec-12	Y	Y	N	\$ 756,188	\$ 482,216	CO
6110361	KGH IHSC - Rose Ave Entrance & Seismic U/G (Complete)	David F.	100%	100%	100%	Oct-13	N	Y	Y	\$ 2,691,188	\$ 2,429,915	CO
9910159	KGH IHSC - Centennial Bldg Infusion Health (Complete)	David F.	100%	100%	100%	May-12	Y	Y	N	\$ 33,178,313	\$ 33,211,251	CO
6110350	KGH IHSC - Land Acquisition	Doug L.	100%	100%	20%	Jun-14	Y	Y	N	\$ 466,252	\$ 351,335	CO
6110349	KGH IHSC - PICIS Enhanced Surgical Services Systems	Todd K.	75%	0%	0%	TBD	Y	Y	N	\$ 3,117,364	\$ 1,482,023	CO
	Cariboo Chilcotin (CO)*											
6214126	CMH Redevelopment Concept Plan	Jackie W.	60%	0%	0%	Apr-15	Y	Y	N	\$ 600,000	\$ 274,495	CC
6215000	OMH Building Management System Replacement	Johann K.	100%	75%	0%	Feb-15	Y	Y	N	\$ 375,000	\$ 6,248	CC
6215002	CMH Cart Washer	Johann K.	100%	100%	10%	Jan-15	Y	Y	N	\$ 296,000	\$ 14,444	CC
	Central Okanagan (CO)*											
6114175	KGH Hybrid OR	Brian M.	N/A	100%	25%	Mar-15	Y	Y	0	\$ 4,100,000	\$ 1,080,674	CO
6114178	KGH 3 OR Fit-outs	Brian M.	N/A	100%	50%	Mar-15	Y	Y	0	\$ 800,000	\$ 482,415	CO
6115008	KGH HVAC Building Management System Panel Replacement	Doris L.	N/A	100%	5%	Jan-15	Y	Y	N	\$ 200,000	\$ -	CO
6115186	KGH Ceiling Lifts (~32)	Doris L.	N/A	1%	0%	Jun-15	Y	Y	N	\$ 400,000	\$ -	CO
	Kootenay East (KE)*											
6412058	EKH Emergency Generator Replacement	Lucas M.	N/A	100%	10%	Jul-16	Y	Y	N	\$ 650,000	\$ 87,923	KE
6413088	EKH ICU Redevelopment & Electrical Upgrade	Lucas M.	100%	100%	48%	Jul-16	Y	Y	N	\$ 20,000,000	\$ 4,472,403	KE
6414001	EKH Anatomic Pathology Renovation	Lucas M.	0%	75%	0%	Sep-14	Y	Y	N	\$ 250,000	\$ 7,564	KE
6415000	EKH Psych Seclusion Rooms (x2)	Lucas M.	0%	10%	0%	Mar-15	Y	Y	N	\$ 150,000	\$ -	KE
6415004	GOL Development of Isolation Room in Emergency	Lucas M.	0%	0%	0%	Mar-15	Y	Y	N	\$ 460,000	\$ 83	KE
6415001	RML Fire Alarm Upgrade	Norbert F.	0%	0%	0%	Jun-15	Y	Y	N	\$ 150,000	\$ -	KE
6415002	SWH Building Management System Replacement	Norbert F.	20%	95%	0%	May-15	Y	Y	N	\$ 225,000	\$ 17,232	KE
6415006	EKH Cart Washer	Norbert F.	90%	100%	95%	Nov-14	Y	Y	N	\$ 209,000	\$ 5,137	KE
6415058	CVH ED Renovation - Planning	Lucas M.	0%	10%	0%	Jul-15	Y	Y	N	\$ 60,000	\$ 15	KE
	North Okanagan Columbia Shuswap (NOCS)*											
6113139	VJH Pharmacy Dpt. Upgrade	Rhonda G.	100%	100%	0%	Oct-15	Y	Y	N	\$ 1,713,000	\$ 339,692	NOCS
6113138	VJH Lab Ventilation	Rhonda G.	100%	100%	90%	Dec-14	Y	Y	N	\$ 731,000	\$ 398,927	NOCS
6113269	VJH Inpatient Beds Expansion	Rhonda G.	100%	100%	30%	Oct-15	Y	Y	N	\$ 27,620,000	\$ 5,344,722	NOCS
6114001	GIF HVAC Upgrades	Johann K.	100%	95%	0%	Apr-15	Y	Y	N	\$ 445,000	\$ 38,291	NOCS
6115016	VJH Gamma Camera	Rhonda G.	100%	100%	0%	Sep-15	Y	Y	N	\$ 1,099,000	\$ 8,588	NOCS
6115140	VJH Mammography System	Rhonda G.	100%	100%	55%	Dec-14	Y	Y	N	\$ 756,502	\$ -	NOCS
6215006	SLH Multipurpose System	Johann K.	100%	0%	0%	Apr-15	Y	Y	N	\$ 1,042,000	\$ 2,155	NOCS
6215001	SLH Cooling Tower	Dave R.	20%	80%	15%	Jun-15	Y	Y	N	\$ 635,000	\$ 2,420	NOCS
6214233	QVH Helipad Design	Dave R.	20%	50%	0%	TBD	Y	Y	N	\$ 47,350	\$ 22,250	NOCS
	Okanagan Similkameen (OS)*											
6113137	PRH Lab Ventilation	Lucas M.	100%	100%	90%	Dec-14	Y	Y	Y	\$ 1,369,000	\$ 547,214	OS
6113140	PRH Intern Modular Unit	Johann K.	100%	100%	5%	Jan-15	Y	Y	N	\$ 512,000	\$ 18,163	OS
6113283	PRH Patient Care Tower (PCT) Business Case Project	David F.	100%	0%	0%	May-14	Y	Y	N	\$ 700,000	\$ 685,324	OS
6114004	PRH Replacement of Fuel Tanks (x2)	Ralph U.	0%	0%	0%	Oct-16	N	Y	Y	\$ 325,000	\$ -	OS
6114005	PRH Upgrade to Domestic Hot Water Tank System	Martin d.	N/A	100%	90%	Dec-14	Y	Y	N	\$ 500,000	\$ 375,739	OS
6114009	TCC Tub Room Renovations	Lucas M.	0%	100%	50%	Jan-15	N	Y	N	\$ 340,000	\$ 48,033	OS
6114105	PRH General Rad Room - Digital (x2)	Lucas M.	0%	100%	55%	Mar-15	Y	Y	N	\$ 1,500,000	\$ 685,145	OS
6115048	PRH Digital Plate	Lucas M.	0%	100%	75%	Feb-15	Y	Y	N	\$ 197,000	\$ 175,988	OS
6115010	PGH Cooling Tower & Chiller Replacement	Ralph U.	0%	25%	0%	May-15	Y	N	Y	\$ 200,000	\$ -	OS
6115012	SOG Chiller Replacement	Ralph U.	0%	25%	0%	May-15	Y	N	Y	\$ 200,000	\$ 39	OS
6115193	PRH Patient Care Tower	David F.	100%	0%	0%	TBD	Y	Y	N	\$ 315,049,000	\$ 38,913	OS
	Thompson (T)*											
6213134	RIH Pediatric Psychiatry Inpatient Unit	Martin d.	N/A	100%	100%	Oct-14	Y	Y	N	\$ 850,000	\$ 637,981	T
6214001	PON Building Management System Upgrade	Steve M.	5%	100%	0%	May-15	Y	Y	N	\$ 375,000	\$ 27,964	T
6214002	PON Patient Room Renovations	Ryan M.	N/A	100%	90%	Mar-15	0	Y	N	\$ 360,000	\$ 284,655	T
6214003	RIH Chiller 600 Ton	Steve M.	4%	50%	0%	Apr-15	Y	N	Y	\$ 750,000	\$ 9,288	T
6214004	RIH Elevator Upgrade - Alumnae Tower	Steve M.	5%	100%	0%	Jul-15	Y	Y	N	\$ 275,000	\$ 5,481	T
6214005	RIH Parkade Elevator	Steve M.	4%	50%	0%	Jul-15	Y	Y	N	\$ 300,000	\$ 2,617	T
6214009	RIH Anatomic Pathology Renovation	Ryan M.	N/A	100%	50%	Dec-14	Y	Y	N	\$ 674,000	\$ 91,762	T
6214010	PON Nurse Call	Steve M.	45%	100%	70%	Jan-15	Y	Y	N	\$ 293,000	\$ 112,524	T
6214128	RIH Clinical Services Building	Ryan M.	N/A	98%	20%	May-16	Y	Y	N	\$ 67,752,000	\$ 9,188,495	T
6215005	RIH Provincial Colon Screening Prog. - Fit Out Colonoscopy Rm	Ryan M.	N/A	100%	15%	Jan-15	Y	Y	N	\$ 600,000	\$ 39,636	T
6215009	RIH Gamma Camera	Ryan M.	N/A	99%	0%	Mar-15	Y	Y	N	\$ 934,000	\$ 6,332	T
6215063	RIH Surgical Services Expansion	Ryan M.	N/A	100%	15%	Apr-15	Y	Y	N	\$ 3,600,000	\$ 171,610	T
6215120	RIH Trauma Boom (x2)	Ryan M.	N/A	100%	1%	Mar-15	Y	Y	N	\$ 437,712	\$ -	T
6215140	RIH Lighting Upgrade	Johann K.	100%	100%	10%	Dec-14	Y	Y	N	\$ 453,826	\$ 7,052	T
6215059	RIH MRI Bundle	Steve M.	5%	95%	0%	TBD	Y	Y	N	\$ 921,662	\$ 833,021	T

Project Number	Project Name/Phase Name	Project Manager	% Complete Status			Substantial Complete Date	On Time	On Budget	Issues	Project Budget	Insight Actuals 13-Nov-14	RHD
			Prog.	Design	Const.							
	West Kootenay Boundary (WKB)*											
6314001	KLH Emergency Power System Upgrade	Martin d.	N/A	95%	0%	Dec-15	N	N	Y	\$ 1,950,000	\$ 136,085	WKB
6315002	KBH Development of an Isolation Room in ICU	Lucas M.	0%	10%	0%	May-15	Y	Y	N	\$ 660,000	\$ 19	WKB
6315000	KBH Connecting Chilled Water Piping from 3 Existing Chillers	Jonathan J.	NA	100%	0%	Mar-15	Y	Y	N	\$ 427,300	\$ 34,105	WKB
6315001	KBH Replace Steam Chiller (Absorption Chiller)	Jonathan J.	NA	100%	0%	TBD	Y	Y	N	\$ 654,300	\$ 25,541	WKB
6315003	KLH 4th Floor Redevelopment & Renovation	Jonathan J.	100%	100%	80%	Dec-14	Y	Y	N	\$ 188,531	\$ 69,351	WKB
6315004	HVL Nurse Call	Jonathan J.	100%	100%	90%	Nov-14	Y	Y	N	\$ 280,000	\$ 79,298	WKB
	Property Purchases											
KE	Property Purchases									\$ 18,000	\$ 494	KE
WKB	Property Purchases									\$ -	\$ -	WKB
OK	Property Purchases									\$ 666,000	\$ 610,343	CO/OS
TCS	Property Purchases									\$ 1,300,000	\$ 1,298,880	T/CC/NOCS
	On Hold											
9908166	WHC West Kelowna Community Health Centre - Planning	Jackie W.	100%	0%	0%	TBD		On Hold		\$ 500,000	\$ 62,650	CO
	Substantially Completed Projects but Not Financially Closed **											
9909207	RIH ICU - 17 bed ICU (14 operational)	Rhonda G.	100%	100%	100%	1-Aug-11	Y	Y	Y	\$ 11,000,000	\$ 10,104,027	T
6212130	CMH Replace Fire Alarm	Steve M.	99%	100%	99%	1-Oct-13	Y	Y	N	\$ 420,000	\$ 404,965	CC
9908332	KLH Nelson 1st Floor Reno/DI Redevelopment	Rhonda G.	100%	100%	100%	1-Sep-13	N	Y	N	\$ 14,163,651	\$ 13,912,007	WKB
6212187	OMH Wheelchair Accessible Bathrooms	Steve M.	N/A	95%	65%	1-Feb-15	Y	Y	N	\$ 421,708	\$ 270,549	CC
6214017	RIH Nurse Call	Steve M.	100%	100%	100%	1-Mar-14	Y	Y	N	\$ 890,000	\$ 731,812	T
6114013	KGH CT Scanner	Rhonda G.	100%	100%	100%	1-Mar-14	Y	Y	N	\$ 2,800,000	\$ 2,040,036	CO
6414000	IDH Replace Emergency Generator	Norbert F.	98%	100%	98%	1-May-14	N	Y	N	\$ 600,000	\$ 462,394	KE
6112151	SHC Electrical System	Ralph U.	N/A	100%	100%	1-May-14	Y	Y	N	\$ 290,000	\$ 271,525	OS
6114006	PRH Neg Pres Bronchoscopy Suite & Patient Recovery Area Reno	Martin d.	N/A	100%	0%	1-May-14	Y	Y	Y	\$ 250,000	\$ 231,432	OS
6114008	TLM Tub Room Renovations	Ryan M.	N/A	100%	100%	1-Apr-14	Y	Y	N	\$ 110,000	\$ 84,293	CO
6415005	CLH Nurse Call	Norbert F.	100%	100%	100%	1-Nov-14	Y	Y	N	\$ 178,000	\$ 140,208	KE
6214008	OEC Relocate Laundry	Ryan M.	N/A	100%	100%	1-May-14	Y	Y	N	\$ 256,000	\$ 253,574	T
6314003	KBH Multipurpose System	Lucas M.	N/A	100%	90%	1-Jun-14	Y	Y	N	\$ 1,050,000	\$ 995,874	WKB
6314005	KLH General Rad Room	Lucas M.	N/A	100%	100%	1-Jun-14	Y	Y	N	\$ 285,708	\$ 268,952	WKB
6314006	KLH Pyxis Medstations	Lucas M.	N/A	100%	99%	1-May-14	Y	Y	N	\$ 375,000	\$ 315,485	WKB
6213006	RIH Rad Fluoro System	Martin d.	N/A	100%	100%	1-Jun-14	Y	Y	N	\$ 1,100,000	\$ 887,175	T
6214000	MER Replacement of Switchboard & Public Address System	Steve M.	95%	100%	95%	1-Apr-14	Y	Y	N	\$ 140,000	\$ 26,099	T
6214240	KAM Mammography System	Ryan M.	0%	100%	100%	1-Aug-14	Y	Y	N	\$ 615,540	\$ 585,905	T
6115013	KGH Royal Avenue Parking Lot†	Doris L.	N/A	100%	93%	1-Nov-14	Y	Y	N	\$ 1,000,000	\$ 653,783	CO
6114242	PRC Emergency HVAC System Major Repairs & Replacement†	Doug L.	100%	100%	95%	1-Dec-14	Y	Y	N	\$ 1,385,000	\$ 1,216,947	OS
6315006	KBH General Rad Room†	Johann K.	100%	100%	95%	1-Dec-14	Y	Y	N	\$ 226,000	\$ 33,675	WKB
6114230	VJH UBC Academic Space†	Rhonda G.	100%	100%	95%	1-Dec-14	Y	Y	N	\$ 983,221	\$ 347,237	NOCS
6115009	POL Heating Boilers (x 2)†	Rhonda G.	100%	100%	100%	1-Oct-14	Y	Y	N	\$ 200,000	\$ 198,870	NOCS

NOTES:

SUB-TOTAL OF PROJECTS

12	Interior Heart & Surgical Centre	\$355,580,578	\$222,770,876
0	Regional Construction Projects	\$0	\$0
0	Master Planning	\$0	\$0
3	Cariboo Chilcotin	\$1,271,000	\$295,186
4	Central Okanagan	\$5,500,000	\$1,563,089
9	Kootenay East	\$22,154,000	\$4,590,356
9	North Okanagan Columbia Shuswap	\$34,088,852	\$6,157,045
11	Okanagan Similkameen	\$320,892,000	\$2,574,560
15	Thompson	\$78,576,200	\$11,418,419
6	West Kootenay Boundary	\$4,160,131	\$344,400
0	Parking Projects	\$0	\$0
69	Total Active Projects	\$822,222,761	\$249,713,932
4	Property Purchases	\$1,984,000	\$1,909,717
1	On Hold	\$500,000	\$62,650
23	Substantially Complete	\$38,739,828	\$34,436,824
0	Cancelled/Deferred Projects	\$0	\$0
97	Total	\$863,446,589	\$286,123,123

* For this section's project details, please click on the link.

** For this section's project details, please click on the relevant RHD link above.

† Moved to Substantially Completed this month.

Project Name KGH IHSC - IHSC Building Project Number 9910156 Project Manager David F.						Current Budget: \$172,548,619 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	85%	Y	Y	N	Jan-10	2016	0	Apr-15
Scope									
Construction of the Interior Heart and Surgical Centre Building which will contain the Surgical Suite, MDR and CSICU plus associated support spaces. Project will be a Private Public Partnership (P3).									
Progress									
~ As design issues arise they are reviewed with applicable user groups and addressed quickly. ~ The project is on schedule. ~ 1st Level - Final painting, millwork and flooring in progress. ~ 2nd Level - Final painting, millwork and flooring in progress. ~ 3rd Level - Final painting, millwork and flooring in progress ~ The equipment procurement is underway with the majority of the large equipment selected and ordered. ~ Exterior finishes are complete with the exception of the cedar siding which is under review to determine if alternate product will perform better. ~ Commissioning of new mechanical and electrical systems has commenced and ongoing until Service Commencement. ~ The Medical Gas connections and testing has commenced. Interface work continues on the Strathcona and Centennial links. ~ 4th Floor - Design development is complete for the architectural components. Mechanical and electrical are currently finalizing design drawings. 100% CD submittal will be issued to IH on Nov 25/14. ~ Updated 4th Floor pricing has been submitted to IH and informal approved to proceed and an updated schedule is due from PCL by the end of November 2014. ~ The steel structure work is complete and the exterior envelope is now in construction.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 90,547,187	\$ (90,547,187)	\$ 47,251,867	\$ 18,463,292	\$ 21,086,264	\$ -	\$ -	\$ 177,348,610	\$ -	\$ (1)
Project Name KGH IHSC - Clinical Support Building (Dr. Walter Anderson Building) Project Number 9910157 Project Manager Doris L.									
						Current Budget: \$38,116,374 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	100%	Y	Y	N	Jan-10	Apr-12	1	May-12
Scope									
The Clinical Support Building will contain decanted programs from the existing Pandosy Building which needs to be demolished to accommodate the new IHSC Building. Programs include the Laboratory including the Autopsy Suite, clinical and office spaces plus a bridge link to the Centennial Building. Projects is a Design Build. Substantial Completion extended from April 27 to May 11 to allow for additional training and commissioning.									
Progress									
Substantially complete May, 2012. Warranty holdback to be released once all outstanding items finalized. Graham working with B&M to close off last remaining warranty items.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 36,146,884	\$ (36,146,884)	\$ 450,872	\$ -	\$ 1,518,616	\$ -	\$ -	\$ 38,116,372	\$ -	\$ -
Project Name KGH IHSC - Royal Building Project Number 9910158 Project Manager David F									
						Current Budget: \$27,446,474 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	50%	Y	Y	N	Jan-10	2013	3	Oct-15
Scope									
Renovations to the first floor of the Royal Building where the Emergency and Ambulatory Care Departments previously resided. These departments have relocated to the new Centennial Building, renovations can commence for a new Cardiac Catheterization Suite and Diagnostic Cardiology Suite. This also includes a small renovation to the Pharmacy and Diagnostic Imaging Departments. The renovations will be completed as a construction management contract.									
Progress									
~ The components of the Cath Lab and Pharmacy project are about 100% complete. ~ Very minor deficiencies/warranty items are being identified and being quickly addressed by contractors. ~ The second Phillips machine is fully operational. Stage 2 Pharmacy Renovation - Construction for Phase 1 commenced in November - anticipated 6 week duration.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 14,655,535	\$ 1,847,975	\$ 2,390,975	\$ 700,000	\$ 9,699,964	\$ -	\$ -	\$ 27,446,474	\$ -	\$ -

Project Name Project Number Project Manager						KGH IHSC - Centennial Building IH 9910160 David F		Current Budget: \$2,164,648 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
100%	100%	90%	Y	Y	N	Jan-10	May-12	1	May-15	
Scope										
This portion of the project will address scope associated with the work related to the Centennial Building but is completed outside of the work Infusion will undertake.										
Progress										
The scope to address work related to Centennial Building is substantially complete. Design for 2nd Fortis Electrical Feed ongoing. Fortis scope document approved. Automatic Transfer Scheme Working drawings due at the end of November.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 33,858,966	\$ (33,858,966)	\$ 1,166,064	\$ 350,829	\$ -		\$ -	\$ -	\$ 35,375,859	\$ -	\$ -
Project Name Project Number Project Manager						KGH IHSC - Strathcona Building 9910161 Doris L.		Current Budget: \$71,771,693 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
100%	85%	2%	Y	Y	N	Jan-10	2017	0	2017	
Scope										
Renovations to the second floor to accommodate Cardiac Inpatient beds and Coronary Care Unit (CCU) (2015-2017). Renovations to Level 1 in the vacated MDR and current Cath Lab will accommodate support department expansions and a loading dock expansion (2013 to 2015). Procurement is proposed to be a Construction Management process. This project budget is the placeholder of the IHSC project unallocated contingency funds.										
Progress										
1. Strathcona Level 1 Support Services: Package A, B and C together with Pharmacy Reno. Work on Pharmacy Phase 1 has commenced. Work on Package A to commence January. 2. M&E Upgrade for Priority 1 items approved. Schematic Design report completed 3. Strathcona Level 2: Schematic Design commenced in Oct 2014.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 2,596,872	\$ (2,596,872)	\$ 2,913,760	\$ 2,105,000	\$ 38,530,661		\$ 10,207,452	\$ -	\$ 56,353,745	\$ -	\$ -
Project Name Project Number Project Manager						KGH IHSC PICIS - Enhanced Surgical Services Systems 6110349 Todd K.		Current Budget: \$3,117,364 RHD Contribution (Y/N): N		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
75%	0%	0%	Y	Y	N	Jan-10	TBD	0	TBD	
Scope										
Project Budget 3.0M Scope is currently under review for final approval. Project Scope is under review for approval from the Project Steering Committee, the estimated approval date is end October 2013 instead of April 2013. This is mainly due to the decision of the anesthetic module.										
Progress										
~Project Charter review date has been modified to end of Oct rather than July 2013 to align with the anesthetic module decision. The intent is the full scope will be reviewed and if any portion of the Project Charter does not proceed a Decision Record will be used to capture the change. ~ Anesthetic module is under review and will not have a decision until Oct 2013. ~ The application upgrades were slated for Summer of 2013 but now it is more realistic to be in Oct 2013, The delay is due to Picis and their internal schedule. This should have no effect on Picis overall schedule. ~ RTLS for the software upgrade and maintenance agreement will be discussed at the June 10/13 IHSC project team meeting. If approval is given, IHSC will cover the cost of the software/maintenance agreement. This has been approved. The last remaining step is to obtain full credit for design, procure, install, commissioning of RTLS from Plenary Health. PCI has been issued.										
Issues										
No issues to report.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 1,252,709	\$ (1,252,709)	\$ 743,611	\$ 581,515	\$ 539,526		\$ -	\$ -	\$ 3,117,361	\$ -	\$ -

Project Name			CMH Redevelopment Concept Plan				Current Budget: \$600,000		
Project Number			6214126				RHD Contribution (Y/N): Y		
Project Manager			Jackie W.						
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
60%	0%	0%	Y	Y	N	Sep-13	Jul-14	0	Apr-15
Scope									
<p>The scope of this project will be the completion of a Concept Plan based on projected space and service needs to the year 2028/29 for the following clinical priorities: i) Inpatient Units (medical/surgical and obstetrics); ii) Emergency Department ; iii) Ambulatory Care services; and iv) pharmacy services.</p> <p>Completion of the Concept Plan includes:</p> <ul style="list-style-type: none"> • Completion of a Block Schematic Report; • Completion of Indicative Design drawings; • Completion of a detailed Functional Program; • Completion of LEAN process mapping; • Completion of a traffic/parking strategy; • Completion of relevant site assessments (structural, mechanical, electrical, geotechnical, site servicing, environmental impact, & landscaping); • Completion of a Heliport Location Assessment; • Detailed Equipment list; • Quantity Surveyor Report; • Completion of initial Procurement Option Screen; • Completion of Health Human Resources Plan; • Completion of Communication Plan; and • Proposed capital and operating Budget/Funding structure. 									
Progress									
A preferred option for the project scope has been selected by the Site leaders. Preliminary capital costs have been determined for this option. A review of procurement options is currently underway by PartnershipsBC. A project progress report was shared with the CCRHD on November 14, 2014. Concept Plan submission to the Ministry of Health is targetted for Spring 2015.									
Issues									
No issues to report at this time.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 210,071	\$ 64,424	\$ 293,971	\$ -	\$ -	\$ -	\$ -	\$ 504,042	\$ 95,958	\$ -
Project Name			OMH Building Management System Replacement				Current Budget: \$375,000		
Project Number			6215000				RHD Contribution (Y/N): Y		
Project Manager			Johann K.						
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	75%	0%	Y	Y	N	Jul-14	Dec-14	0	Feb-15
Scope									
To replace the obsolete system with a full new reliable and energy efficient system. The scope of work will include new valves, damper actuators, transducers, temperature controls and sensors.									
Progress									
Rocky Point Engineering has released 50% drawing that have been reviewed by Project Manager and OMH Maintenance Department. 95% Drawings will be released early December. Project Manager will review on site with design team and plant services and resubmit for final Quantity Survey costing. Construction of new DDC system is expected to start in January.									
Issues									
No issues currently identified									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 6,248	\$ 375,000	\$ -	\$ -	\$ -	\$ -	\$ 375,000	\$ -	\$ -

Project Name Project Number Project Manager							CMH Cart Washer 6215002 Johann K.			Current Budget: \$296,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion					
Prog.	Design	Const.					Original	Rev. #	Revised			
100%	100%	10%	Y	Y	N	Jul-14	Jan-15	0	Jan-15			
Scope												
To replace a 1997 cart washer in the Medical Device Reprocessing department.												
Progress												
Equipment purchase has been approved by user group and a purchase order has been issued to Steris. Construction contract has been awarded to RL7 Mechanical and work on site has begun in preparation for Steris equipment delivery early December and room to be reopened late December.												
Issues												
0												
Financial												
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget	
\$ -		\$ 14,444		\$ 289,000		\$ -		\$ -		\$ -		
Project Name Project Number Project Manager							CMH Replace Fire Alarm System 6212130 Steve M.			Current Budget: \$420,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion					
Prog.	Design	Const.					Original	Rev. #	Revised			
99%	100%	99%	Y	Y	N	Sep-12	Oct-12	6	Oct-13			
Scope												
This project encompasses the complete replacement of the 15 year old fire alarm system and all attached devices, which is currently not supported and irreparable. Project was extended from March 2012 to July 2012 due to workload limitations, then extended to October to address expected long delivery items. Quantity Survey results came in substantially higher than expected but funding has been increased to ensure that this project gets completed as a whole.												
Progress												
Oct/13 Substantially complete. Deficiencies in existing fire protection system noted during inspection are being addressed.												
Issues												
None.												
Financial												
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget	
\$ 398,221		\$ 6,744		\$ 21,779		\$ -		\$ -		\$ -		
Project Name Project Number Project Manager							OMH Wheelchair Accessible Bathrooms 6212187 Steve M.			Current Budget: \$421,708 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion					
Prog.	Design	Const.					Original	Rev. #	Revised			
N/A	95%	65%	Y	Y	N	May-13	Feb-14	2	Feb-15			
Scope												
To provide an accessible en-suite washroom, a bariatric en-suite washroom with a new shower room and three standard washrooms within three of the single occupancy units. A common area washroom and tub room will also be renovated to allow for full accessibility. June 2014: Additional scope identified to be the upgrade of the existing access control system and to rekey the site. This is to improve the security of the site and its occupants.												
Progress												
June 12/14: Project transferred from Ryan Maalerud to Brian Manke for Phase 2 completion. Sept. 2014: Design completed. Tendering for work to commence shortly.												
Issues												
None.												
Return to main Status Report.												
Financial												
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget	
\$ 241.743		\$ 28,806		\$ 129,965		\$ 50,000		\$ -		\$ -		

[Return to main Status Report.](#)

Project Name KGH Hybrid OR Project Number 6114175 Project Manager Brian Miller						Current Budget: \$4,100,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	25%	Y	Y	0	Mar-13	Mar-15	0	Mar-15
Scope									
To design and construct a Hybrid OR at IHSC. The Hybrid Operating Room integrates digital imaging diagnostics, radiological, catheterization and surgical capabilities in one suite under the control of the surgical team.									
Progress									
14.07.28 IH formal comments have been provided to Project Co. IH anticipates the final IFC drawing to be issued in August. 14.08.22 Authority conducting final review of room. Project Co to place order for Hybrid room booms and lights in September 2014. 14.09.23 Authority has provided reviewed status for the booms/lights/monitor quote recieved from Project Co. Order to be placed with Stryker Medical this week. 14.10.23 Recieved revised PCI from Plenary. Authority is reviewing the changes. 14.11.18 Construction cost in PCI have been approved by Authority. Additional construction costs will be funded from equipment procurement savings/cost avoidance.									
Issues									
Project Co is seeking additional lifecycle/maintenance for the integration equipment which has been purchased for the OR. Currently working with Business Support to determine impact.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 1,080,422	\$ 252	\$ 652,868	\$ 2,366,710	\$ -	\$ -	\$ -	\$ 4,100,000	\$ -	\$ 0
Project Name KGH OR Fit-outs Project Number 6114178 Project Manager Brian Miller									
						Current Budget: \$800,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	50%	Y	Y	0	Sep-12	Mar-15	0	Mar-15
Scope									
To Fit-out 3 Operating Rooms in the IHSC Tower which were previously shelled in. This includes the purchase of all necessary equipment.									
Progress									
14.06.26 waiting for equipment delivery and installation revised plan from Project Co. 14.07.28 Project Co has retained the services of a hospital relocation firm and will be working on the the delivery schedule over the summer. 14.08.22 OR booms and lights to be delivered September 2014. Installation is planned for the fall of 2014. 14.10.23 Stryker OR equipment is in Kelowna being stored by Project Co. Installations planned for November 2014, December 2014 and January 2015. 14.10.23 Progress claim was issued by Plenary for the Stryker equipment that has been delivered. 14.11.18 Installation of booms is ongoing. Walk through was conducted in late October to view progress.									
Issues									
The Authority is discussing the responsibilities and support of the equipment management systems (booms, lights, monitors and system integration with other medical devices) with Project Co. As these are very complex pieces of equipment which support the functions within the OR's, a clear understanding of each parties role needs to be established. Project Co is seeking additional lifecycle/maintenance for the integration equipment which has been purchased for the OR. Currently working with Business Support to determine impact.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 195,566	\$ 286,849	\$ 482,415	\$ 78,226	\$ -	\$ -	\$ -	\$ 756,207	\$ 43,793	\$ -
Project Name KGH HVAC Building Management System Panel Replacement Project Number 6115008 Project Manager Doris L.									
						Current Budget: \$200,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	5%	Y	Y	N	May-14	Jan-15	0	Jan-15
Scope									
This project will replace the outdated system with a new energy efficient system. The scope of work will include UPSs, design and commissioning costs, electrical work and the replacement of existing control boards.									
Progress									
Black and McDonald anticipate Siemens on site to complete work by end of January, 2015									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ -	\$ 130,000	\$ -	\$ -	\$ -	\$ -	\$ 130,000	\$ 70,000	\$ -

Project Name KGH Ceiling Lifts (~32) Project Number 6115186 Project Manager Doris L.						Current Budget: \$400,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	1%	0%	Y	Y	N	Nov-14	Jun-15	0	Jun-15
Scope									
To replace 3 ceiling track lift systems in room #431 & ICUB (rooms 13 & 14) and the installation of 29 new lifts in various areas of Centennial, Strathcona & Royal Buildings.									
Progress									
Equipment vendor walkthrough scheduled for November. NOTCC/PCI to be issued to Infusion/Black and MacDonald to provide Construction Management Services.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ -	\$ 15,000	\$ 385,000	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ -
Project Name KGH Royal Avenue Parking Lot Project Number 6115013 Project Manager Doris L.						Current Budget: \$1,000,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	93%	Y	Y	N	Apr-14	Sep-14	2	Nov-14
Scope									
This project includes the design and construction of an asphalt surface parking lot with landscaping, lighting and parking kiosks.									
Progress									
Project is substantially complete and has been turned over to site. Working on deficiencies.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 653,783	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -
Project Name KGH CT Scanner Project Number 6114013 Project Manager Rhonda Greggain						Current Budget: \$2,800,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	100%	Y	Y	N	Jun-13	Mar-14	0	Mar-14
Scope									
To replace a four slice 2001 machine, located in the Diagnostic Imaging Department. This premium CT scanner is required to meet the current and future demands of the Cancer Clinic, surgery (thoracic, neuro, vascular, etc) and the new cardiac program.									
Progress									
Project is complete; Official Opening / Ribbon Cutting - March 26, 2014. Project is 100% and financially closed with Capital Accounting.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 1,617,923	\$ 422,113	\$ 422,113	\$ -	\$ -	\$ -	\$ -	\$ 2,040,036	\$ 759,964	\$ -

Project Name			TLM Tub Room Renovations				Current Budget:			\$110,000
Project Number			6114008				RHD Contribution (Y/N):			Y
Project Manager			Ryan M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	100%	100%	Y	Y	N	May-13	Jan-14	2	Apr-14	
Scope										
To reconfigure current 1980 tub at this site to accommodate a new tub as well as the removal of walls to remediate any mold issues. There will also be new flooring, counters and a lift installed.										
Progress										
Construction is complete and the room is turned over to the site.										
The cabinets are nearly complete, just waiting on some back ordered hardware. The ceiling lift is also installed.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 5,043	\$ 79,250	\$ 93,124	\$ -	\$ -	\$ -	\$ -	\$ 98,167	\$ 11,833	\$ -	

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Project Name EKH Emergency Generator Replacement Project Number 6412058 Project Manager Lucas M.						Current Budget: \$650,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	10%	Y	Y	N	Jun-11	Jun-13	3	Jul-16
Scope									
April 2014 update: Scope has been re-aligned with the EKH ICU and Electrical upgrade project. This project will address upgrades to the secondary distribution and branch circuitry needed to accommodate the generator replacement and the new 600V primary distribution being installed by the main project.									
Progress									
The design for the required electrical rooms is complete and the work is being tendered. Upgrades to the main motor control centre and associated branch wiring were included in the EKH ICU and Electrical Upgrade main tender and have been awarded to the General Contractor - Lark Projects. Further investigative work will be done as the work progresses to determine any more upgrades required. Shop Drawings for the main motor control centre and boiler room branch wiring have been approved and equipment is scheduled for install mid 2015.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ 67,293	\$ 20,630	\$ 35,630	\$ 547,077	\$ -	\$ -	\$ -	\$ 650,000	\$ -	\$ -
Project Name EKH Intensive Care Unit (ICU) Redevelopment & Electrical Upgrade Project Number 6413088 Project Manager Lucas M.									
						Current Budget: \$20,000,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	48%	Y	Y	N	Mar-13	Jul-16	0	Jul-16
Scope									
The project includes construction of a new ICU department with required support spaces and equipment, an electrical upgrade to meet current code requirements and renovations in the existing hospital, including upgrades to the existing public access corridor, a common new entrance for the ICU and security systems.									
Progress									
The concrete structure is substantially complete. Work to close the building is in progress. Interior framing is 20% complete. Prep work is underway to begin roofing in early Dec 2014. The major electrical equipment has successfully been factory tested and is being dismantled and shipped to site - due to arrive by Mid Dec 2014. The scaffolding to hoard the masonry work will start at the end of Nov 2014. Temporary construction heat is on site and the hoarding will be closed in by end of Nov 2014. Detailed transition planning is underway with site staff and will continue until execution of the plan for final move-in and completion of the project spring 2016.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ 1,181,246	\$ 3,291,157	\$ 10,211,157	\$ 8,145,099	\$ 462,498	\$ -	\$ -	\$ 20,000,000	\$ -	\$ -
Project Name EKH Anatomic Pathology Renovation Project Number 6414001 Project Manager Lucas M.									
						Current Budget: \$250,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	75%	0%	Y	Y	N	Apr-13	Oct-13	3	Sep-14
Scope									
To renovate the histology department to ensure adequate and proper ventilation is maintained for staff safety, equipment and all the WorkSafeBC requirements. Part of the project will ensure that the cryostat and biological safety cabinets are contained and vented in a separate area to minimize any potential hazardous exposure.									
Progress									
The revised Concept plan and cost report have been issued and will be reviewed with the users in late Nov 2014.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ 7,564	\$ -	\$ -	\$ 242,436	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -

Project Name EKH Psych Seclusion Rooms (x2) Project Number 6415000 Project Manager Lucas M.						Current Budget: \$150,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	10%	0%	Y	Y	N	May-14	Mar-15	0	Mar-15
Scope									
To renovate two 1968 rooms to conform to the current BC Hospital Standards and Codes. Renovations include door replacement with structural steel frames, new locking hardware, new impact resistant wall board, tamper proof floor drain, break away sprinkler and an intercom.									
Progress									
The design kick-off has taken place and engineering teams completed more detailed site inspection late Oct 2014. The schematic options are under review with regards to the newly adopted provincial standards. Construction will be planned to begin in Spring 2015 to ensure patient and staff safety in the event more transfers are required during the construction closure.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ -	\$ 6,500	\$ 143,500	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
Project Name GOL Development of Isolation Room in Emergency Project Number 6415004 Project Manager Lucas M.						Current Budget: \$460,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	0%	0%	Y	Y	N	May-14	Mar-15	0	Mar-15
Scope									
This project will retrofit an existing inpatient room into a new airborne isolation room, complete with an ante-room, washroom and pressure monitoring system. A new ceiling lift, Vernacare Washer Disinfectant, installation of a dedicated pad mounted air handling unit and exhaust are also included.									
Progress									
The design kick-off and initial engineering reviews have been completed. The schematic options have been submitted for review with the users in late Nov 2014.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ 83	\$ 20,083	\$ 439,917	\$ -	\$ -	\$ -	\$ 460,000	\$ -	\$ -
Project Name RML Fire Alarm Upgrade Project Number 6415001 Project Manager Norbert F.						Current Budget: \$150,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	0%	0%	Y	Y	N	Sep-14	Jun-15	0	Jun-15
Scope									
To upgrade the existing 1980 system.									
Progress									
Expecting start date Dec 2014 with consultant									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ -	\$ 20,000	\$ 130,000	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -

Project Name SWH Building Management System Replacement Project Number 6415002 Project Manager Norbert F.						Current Budget: \$225,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
20%	95%	0%	Y	Y	N	May-14	May-15	0	May-15
Scope									
To replace the 1978 obsolete system with a new reliable and energy efficient system. The scope of work will include new valves, damper actuators, transducers, temperature controls and sensors.									
Progress									
Scope of Work has been completed, out for QS									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ 17,232	\$ 72,232	\$ 152,768	\$ -	\$ -	\$ -	\$ 225,000	\$ -	\$ -
Project Name EKH Cart Washer									
Project Number 6415006						Current Budget: \$209,000			
Project Manager Norbert F.						RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
90%	100%	95%	Y	Y	N	Apr-14	Nov-14	0	Nov-14
Scope									
To replace a 2003 cart washer in the Medical Device Reprocessing department.									
Progress									
Cart washer has been installed, final connections taking place, awaiting Getttinge to arrive for commisioning									
Issues									
None at this time									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ 5,137	\$ 209,000	\$ -	\$ -	\$ -	\$ -	\$ 209,000	\$ -	\$ -
Project Name CVH ED Renovation - Planning									
Project Number 6415058						Current Budget: \$60,000			
Project Manager Lucas M.						RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	10%	0%	Y	Y	N	Aug-14	Jul-15	0	Jul-15
Scope									
Planning and renovation to improve the critical flow and security issues of the Emergency Department.									
Progress									
The design kick-off meeting took place mid-Oct 2014 and included LEAN design sessions with the users and observation of the ED. The schematic design options are being reviewed in several session with the stakeholders. The final schematic design review is set for mid Dec 2014.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ 15	\$ 17,515	\$ 42,485	\$ -	\$ -	\$ -	\$ 60,000	\$ -	\$ -

Project Name IDH Replace Emergency Generator Project Number 6414000 Project Manager Norbert F.						Current Budget: \$600,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
98%	100%	98%	N	Y	N	May-13	Dec-13	0	May-14
Scope									
To redesign the emergency power transfer switching to simplify the automatic transfer of hospital loads to emergency power. This project will also include a new above ground diesel tank to increase fuel capacity and removal of the underground diesel tank.									
Progress									
Project is now complete.									
Issues									
none at this time									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ 257,435	\$ 204,959	\$ 212,565	\$ -	\$ -	\$ -	\$ -	\$ 470,000	\$ 130,000	\$ -
Project Name CLH Nurse Call Project Number 6415005 Project Manager Norbert F.						Current Budget: \$178,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	100%	Y	Y	N	Apr-14	Jun-14	0	Nov-14
Scope									
To replace a 2005 Nurse Call system to a Rauland 4000 with integration to Vocera.									
Progress									
Nurse call has been installed, waiting for bed exit controls. System has been commissioned. Connexal integration has been commissioned Nov 2014. All complete now									
Issues									
<div>Return to main Status Report.</div>									
Financial									
Actuals to March 31, 2014	Actuals YTD	Projected					Total Actuals + Projected	Projected Unspent	Variance to Budget
		FY15	FY16	FY17	FY18	FY19			
\$ -	\$ 140,208	\$ 173,000	\$ -	\$ -	\$ -	\$ -	\$ 173,000	\$ 5,000	\$ -

Project Name VJH Pharmacy Department Upgrade Project Number 6113139 Project Manager Rhonda G.						Current Budget: \$1,713,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	0%	Y	Y	N	Apr-12	Dec-14	0	Oct-15
Scope									
The renovation will ensure the new Pharmacy meets all current and anticipated regulatory and licensing requirements; has sufficient space to accommodate the growth of VJH and BC Cancer Agency Satellite Clinic; and enhances the service provided to patients.									
Progress									
Budget increase approved Nov 2014, Tentative: Substantial Completion - Oct 2015									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 276,861	\$ 62,831	\$ 307,831	\$ 1,128,308	\$ -	\$ -	\$ -	\$ 1,713,000	\$ -	\$ -
Project Name VJH Lab Ventilation Project Number 6113138 Project Manager Rhonda G.									
						Current Budget: \$731,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	90%	Y	Y	N	Jul-12	Dec-14	0	Dec-14
Scope									
The laboratory suite at this site has a number of deficient specialized areas. The scope of the project is to relocate the deficient areas into appropriate lab and support spaces and to upgrade the equipment and ventilation to meet current standards.									
Progress									
Tendering will commence end of March/Apr; construction start June 23 2014; project is on schedule; target completion date is end of November 2014.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 114,903	\$ 284,024	\$ 616,097	\$ -	\$ -	\$ -	\$ -	\$ 731,000	\$ -	\$ -
Project Name VJH Inpatient Beds Expansion Project Number 6113269 Project Manager Rhonda G.									
						Current Budget: \$27,620,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	30%	Y	Y	N	0	Oct-15	0	Oct-15
Scope									
To add a thirty bed inpatient unit to each of the sixth and seventh floors of the Polson Tower. Fourteen beds will be additional and forty-six will be relocated from other nursing units in the hospital. The rooms will be reconfigured from four-bed rooms to single and double occupancy. This will also include electrical work and elevator upgrades.									
Progress									
Design and construction started in April 2014. Level 6 - Oct 2014 Mock up of a Patient Room was completed and signed off. Construction framing, mechanical and electrical is ongoing, drywall has started on the west side of the building; Level 7 - Construction framing and mechanical and electrical rough ins / conduit have started. Substantial Completion - fall 2015.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 1,522,488	\$ 3,822,234	\$ 7,215,234	\$ 17,459,824	\$ -	\$ -	\$ -	\$ 26,197,546	\$ 1,422,454	\$ 0

Project Name			GIF HVAC Upgrades				Current Budget:			\$445,000
Project Number			6114001				RHD Contribution (Y/N):			Y
Project Manager			Johann K.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Estimated	
100%	95%	0%	Y	Y	N	May-13	Mar-14	3	Apr-15	
Scope										
To perform required air supply upgrades required for staff and patient safety. This will correct deficiencies to comply with current HVAC standards.										
Progress										
Consultants have completed 95% drawings utilizing 6 Natural Gas AHU's and 4 Exhaust fans to meet CSA standards for building air supply. 95% drawings have been reviewed by the project team and Quantity Surveyor's costing has been completed. Issued for Tender drawings will be completed in early December with Invitation to Bid for contractors released shortly after.										
Issues										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 15,364	\$ 22,927	\$ 214,927	\$ 206,709	\$ -	\$ -	\$ -	\$ 437,000	\$ 8,000	\$ -	
Project Name			VJH Gamma Camera				Current Budget:			\$1,099,000
Project Number			6115016				RHD Contribution (Y/N):			Y
Project Manager			Rhonda G.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Estimated	
100%	100%	0%	Y	Y	N	May-14	Feb-15	0	Sep-15	
Scope										
To replace a 2002 model in the Diagnostic Imaging Department.										
Progress										
Siemens has not been awarded Equipment contract - Project has been approved an increased to budget by \$165k. Tentative Substantial Completion Sept 2015.										
Issues										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 8,588	\$ 378,257	\$ 720,743	\$ -	\$ -	\$ -	\$ 1,099,000	\$ -	\$ -	
Project Name			VJH Mammography System				Current Budget:			\$756,502
Project Number			6115140				RHD Contribution (Y/N):			Y
Project Manager			Rhonda G.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Estimated	
100%	100%	55%	Y	Y	N	May-14	Dec-14	0	Dec-14	
Scope										
To replace a 2005 model in the Diagnostic Imaging Department with a small renovation. Project received an increase in budget of \$112k in Sept 2014.										
Progress										
Sept 2014 - Decision Brief was approved for an increase to the budget. B&M to begin demolition of walls, floors/ millwork, construction to begin mid Nov 2014 on framing in the washroom and change rooms. Equipment to arrive for install first week of Dec 2014. Substantial Completion and Financial Close December 2014										
Issues										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ -	\$ 756,502	\$ -	\$ -	\$ -	\$ -	\$ 756,502	\$ -	\$ -	

Project Name SLH Multipurpose System Project Number 6215006 Project Manager Johann Kron						Current Budget: \$1,042,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Estimated
100%	0%	0%	Y	Y	N	Jul-14	Nov-14	1	Apr-15
Scope									
To replace a 2002 Radiographic Fluoroscopy System in the Diagnostic Imaging Department.									
Progress									
User group has completed site visits to examine both Toshiba and Siemens equipment and have recommended their preferred choices for equipment. Project Manager has reviewed site conditions with site User Group and has completed a conceptual cost estimate with the Quantity Survey. Selected equipment choice and required room renovation will fall within budget. Consultant services will be obtained in December with room renovation start date expected for late February 2015.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 2,155	\$ 357,935	\$ 649,065	\$ -	\$ -	\$ -	\$ 1,007,000	\$ 35,000	\$ -
Project Name SLH Cooling Tower Project Number 6215001 Project Manager Dave R.						Current Budget: \$635,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Estimated
20%	80%	15%	Y	Y	N	Jun-14	Jun-15	0	Jun-15
Scope									
Pursuing alternate option of installing an Air to Air Chiller possible in same budget and enables us to have 100% redundancy									
Progress									
Tender equipment November 18th, final QS on construction November 21st									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 2,240	\$ 210,000	\$ 425,000	\$ -	\$ -	\$ -	\$ 635,000	\$ -	\$ -
Project Name QVH Helipad Design Project Number 6214233 Project Manager Dave R.						Current Budget: \$47,350 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Estimated
20%	50%	0%	Y	Y	N	Jul-14	TBD	0	TBD
Scope									
To cover the design costs for the construction of the helipad.									
Progress									
Funding for additional design costs received from foundation, proceeding to full design. Design completion expected by Decmber 15th									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 22,250	\$ 47,350	\$ -	\$ -	\$ -	\$ -	\$ 47,350	\$ -	\$ -

Project Name			VJH UBC Academic Space				Current Budget:			\$983,221
Project Number			6114230				RHD Contribution (Y/N):			N
Project Manager			Rhonda G.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Estimated	
100%	100%	95%	Y	Y	N	Sep-13	Dec-14	1	Dec-14	
Scope										
To renovate the 5th floor of the Polson Tower for use as UBC academic space for clinical teaching. Scope of work to include a teaching & learning area, a locker/on-call sleeping area, administartion offices, and miscellaneous support spaces.										
Progress										
Overall construction is complete, equipment is being installed, commissioning and testing is underway. Substantial Completion - December 2014 - Financial Close Jan 15 2015.										
Issues										
0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 42,602	\$ 304,635	\$ 940,619	\$ -	\$ -	\$ -	\$ -	\$ 983,221	\$ -	\$ -	
Project Name			POL Heating Boilers (x2)				Current Budget:			\$200,000
Project Number			6115009				RHD Contribution (Y/N):			Y
Project Manager			Rhonda G.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Estimated	
100%	100%	100%	Y	Y	N	May-14	Oct-14	0	Oct-14	
Scope										
To replace two 1982 boilers which are beyond useful life.										
Progress										
New boilers on order and will arrive mid Sept, B&M to switch out boilers and start up beginning to late Sept 2014, Substantial Completion Oct 2014, financial close Nov 2014.										
Issues										
Return to main Status Report. 0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 198,870	\$ 198,870	\$ -	\$ -	\$ -	\$ -	\$ 198,870	\$ 1,130	\$ -	

Project Name PRH Lab Ventilation Project Number 6113137 Project Manager Lucas M.						Current Budget: \$1,369,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	90%	Y	Y	Y	Jun-12	Jul-13	2	Dec-14
Scope									
The scope of the project had been changed to address the immediate HVAC issues. It includes: relocate Histology to vacated Microbiology area with revised HVAC to suit new layout; remove existing storage/tissue processing areas (old Foundation area) from Lab space; eliminate existing low level exhaust fan and provide new exhaust fans that discharge at a high level; repair fire separation at corridor wall; supply and install new tissue storage cabinets; install new Foundation funded equipment (grossing and BSC).									
Progress									
Phase 4 completion is set for early Dec 2014. Electrical issues with the new exhaust fans are being resolved - see Issues. Testing and commissioning phases will continue into Dec 2014.									
Issues									
The electrical infrastructure feeding the new exhaust fans has had several intermittent faults. Detailed investigation work continues but a resolution has not been found. Site meeting with contractor and engineers set for late Nov 2014.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 115,758	\$ 431,456	\$ 662,242	\$ 70,000	\$ -	\$ -	\$ -	\$ 848,000	\$ 521,000	\$ -
Project Name PRH Intern Modular Unit Project Number 6113140 Project Manager Johann K.									
						Current Budget: \$512,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	5%	Y	Y	N	0	Jan-15	0	Jan-15
Scope									
To replace a 30 year old modular trailer with larger, more efficient and attractive accommodation. The initial project (2012) exceeded the \$330K budget. April, 2014 - After further analysis (on-site vs off-site) and through discussions with funding partners the project is proceeding with a revised budget of \$476K based on the additional funding received from the PRH foundation.									
Progress									
The PRH design team has approved the layout of the Intern Building including a proposed location for the building in the SW corner of PRH. The proposed location has been approved by the city of Penticton and an application for a building permit has been approved. Contracts to the Modular manufacturer and the site General Contractor have been awarded. Placement of the building at Penticton Regional Hospital is planned for January with occupancy shortly after.									
Issues									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 960	\$ 17,203	\$ 476,040	\$ -	\$ -	\$ -	\$ -	\$ 477,000	\$ 35,000	\$ -
Project Name PRH Patient Care Tower (PCT) Business Case Project Project Number 6113283 Project Manager David F.									
						Current Budget: \$700,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	0%	0%	Y	Y	N	Jun-13	Mar-14	0	May-14
Scope									
Planning funds to hire consultants to work with the Planning Team to prepare Business Case Plan for the proposed new Patient Care Tower. The Patient Care Tower will include various services and once these services have been relocated the remaining area will be used for future expansion of other on-site services.									
Progress									
~ User group meetings were conducted Sept-Nov 2013. The draft Indicative design report and functional program were submitted in November 2013 and final version were completed in December 2013. Inpatient floors are being designed with all single patient rooms. ~ Cost estimates were updated with QS and PBC in January 2014. A Risk Analysis workshop took place in January 2014. ~ A high level review of the existing site was undertaken to determine renovations that would be required to convert 3rd Floor into single patient rooms meeting current design and accessibility standards. ~ Functional Program, Indicative Design and QS have been updated to include a 3rd Floor of inpatient beds. ~ The IH Executive & Board approved the Business Plan. ~ The Business Plan submission to MOH was completed June 2014. ~ The Business Plan is with treasury board for review and approval.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 449,251	\$ 236,073	\$ 250,749	\$ -	\$ -	\$ -	\$ -	\$ 700,000	\$ -	\$ -

Project Name Project Number Project Manager						PRH Replacement of Fuel Tanks (x2) 6114004 Ralph U.		Current Budget: \$325,000 RHD Contribution (Y/N): Y					
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
0%	0%	0%	N	Y	Y	Apr-16	Jun-14	1	Oct-16				
Scope													
To purchase and install two double-walled above-ground fuel tanks and associated piping to replace the 24 and 40 year old existing single walled underground tanks which do not have leak detection monitoring. The project will include removal of oil from underground piping and tanks, as well as removal and disposal of the underground tanks. The surrounding soil will be tested for contaminants by a consulting firm when the tanks are removed.													
Progress													
We have received confirmation of the PCT project. We must wait for the selection of the contractor and work with the designers to select a suitable location for the tanks required for our existing needs as well as the new tanks required for the Patient Care Tower.													
Issues													
Locating new tanks is an issue due to the conflict of the proposed new addition. Location is under review.													
Financial													
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget				
\$ -	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ -	\$ 325,000	\$ -	\$ -				
Project Name Project Number Project Manager										PRH Upgrade to Domestic Hot Water Tank System 6114005 Martin d.		Current Budget: \$500,000 RHD Contribution (Y/N): Y	
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
N/A	100%	90%	Y	Y	N	May-13	Mar-14	1	Dec-14				
Scope													
Installation of three 2500 Litre stainless steel insulated hot water tanks, modifications to piping, valves and controls and replacement of two plate heat exchangers.													
Progress													
The 3 new stainless steel DHW tanks are installed. Final connection of the heat exchangers, hot water pumps is underway. The new DHW system will then be flsuhed, commissioned and turned over to the site.													
Issues													
Financial													
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget				
\$ 41,523	\$ 334,216	\$ 451,977	\$ -	\$ -	\$ -	\$ -	\$ 493,500	\$ 6,500	\$ -				
Project Name Project Number Project Manager										TCC Tub Room Renovations 6114009 Lucas M.		Current Budget: \$340,000 RHD Contribution (Y/N): Y	
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
0%	100%	50%	N	Y	N	Apr-13	Nov-13	3	Jan-15				
Scope													
To renovate two tub rooms at TCC. Due to Licensing issues (see Issues section) the scope of the renovations will be limited to flooring and wall finish replacement, equipment replacement/upgrades, electrical and mechanical upgrades. The scope specifically excludes any changes, structural or otherwise, to the walls, doors, layout, etc that would change the function of the space.													
Progress													
Phase 1 is complete and the tub rooms are in use. Phase 2 is underway with demolition and is scheduled to be complete Jan 2015.													
Issues													
Financial													
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget				
\$ 3,691	\$ 44,342	\$ 336,309	\$ -	\$ -	\$ -	\$ -	\$ 340,000	\$ -	\$ -				

Project Name PRH General Rad Room - Digital (x2) Project Number 6114105 Project Manager Lucas M.						Current Budget: \$1,500,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	100%	55%	Y	Y	N	Apr-13	Oct-13	4	Mar-15
Scope									
To replace the two 2001 model standard general X-ray machines in room 3 (phase 1, approved for 2013/14) and 2 (phase 2, approved for 2014/15) with Digital General Radiographic Systems in the Diagnostic Imaging Department. Includes the renovation of the shared tech space adjoining the Xray rooms.									
Progress									
Phase 1 is complete and the new equipment has been installed and commissioned. Equipment issues caused delays in the commissioning and training phases that have delayed the start of Phase 2 by several weeks. Phase 2 completion has now been delayed to March 2015									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 453,990	\$ 231,155	\$ 842,010	\$ 204,000	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -
Project Name PRH Digital Plate Project Number 6115048 Project Manager Lucas M.									
						Current Budget: \$197,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	100%	75%	Y	Y	N	May-14	Sep-14	2	Feb-15
Scope									
To upgrade/convert a digital plate to a Digital Radiographic System in the Diagnostic Imaging Department.									
Progress									
The new digital plate is installed and operational. Temporary modifications to the room to improve work and patient flow are complete. Final work to complete the door and frame replacement has been delayed by the xray room 2 and 3 renovations. Work is currently scheduled to be completed in Feb 2015.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 175,988	\$ 197,000	\$ -	\$ -	\$ -	\$ -	\$ 197,000	\$ -	\$ -
Project Name PGH Cooling Tower & Chiller Replacement Project Number 6115010 Project Manager Ralph U.									
						Current Budget: \$200,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	25%	0%	Y	N	Y	Aug-14	Dec-14	1	May-15
Scope									
To replace current chiller installed over 40 years ago to allow consistent temperature control. This project will also encompass the removal of a cooling tower which is rotted out and failing. Planning on installing a air-cooled package scroll chiller on a concrete pad on grounds behind hospital and piping in through boiler room into fan room to connect with existing Chilled Water loop.									
Progress									
Williams Engineering has provided the Schematic Design Report and we have received the Schematic Design Estimate from LTA Consultants. Williams is continuing with creation of tender drawings and documents. Once we have received the 95% tender documents I will obtain a pre-tender QS to confirm required budget prior to tender.									
Issues									
Schematic Design Estimate came in above budget, proceeding with tender document preparation to confirm required funding before finalizing increased budget request & going to tender.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ -	\$ 14,525	\$ 185,475	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -

Project Name SOG Chiller Replacement Project Number 6115012 Project Manager Ralph U.						Current Budget: \$200,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
0%	25%	0%	Y	N	Y	Aug-14	Dec-14	1	May-15
Scope									
There are currently two chillers at this site, one for ECU & one for acute. This project will replace the 40 year old chiller for the acute hospital. Planning on installing a air-cooled package scroll chiller on a concrete pad close to boiler room or on top of roof if it won't fit.									
Progress									
Williams Engineering has provided Schematic Design Report and we have received the Schematic Design Estimate from LTA Consultants. Williams is continuing with creation of tender drawings and documents. Once we have received the 95% tender documents I will obtain a pre-tender QS to confirm required budget prior to tender. We have confirmed that there is insufficient room at grade and existing roof is wood construction that would require significant construction to support chiller load. We have decided on a new steel platform on columns outside boiler room.									
Issues									
Schematic Design Estimate came in above budget, proceeding with tender document preparation to confirm required funding before finalizing increased budget request & going to tender.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 39	\$ 14,564	\$ 185,436	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -
Project Name PRH Patient Care Tower Project Number 6115193 Project Manager David F.									
						Current Budget: \$315,049,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	0%	0%	Y	Y	N	TBD	TBD	0	TBD
Scope									
Phase 1 encompasses the construction of a new patient care tower which includes a new walk-in care centre, surgical services center, 84 medical/surgical single patient rooms, a new medical device reprocessing unit, parkade and space for the UBC Faculty of Medicine Program. Phase 2 covers the renovation of the vacated areas in the current hospital to expand the emergency department, pharmacy, laundry and material stores.									
Progress									
~ IH with IBI and other technical consultants are developing the Project Agreement documents to be issued with the RFP in January 2015. ~ The RFQ was released on September 18, 2014 which closed on November 6, 2014. There were six responses to the RFQ. ~ The Authority will review RFQ's proposals and shortlist a maximum of three Respondent teams. ~ The entire procurement process will take approximately 18 months to complete. A fairness monitor and legal advisor have been procured for this project. ~ A zoning amendment was granted by the City of Penticton to increase the height allowed on the hospital site to accommodate the new tower.									
Issues									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ -	\$ 1,260,030	\$ 16,096,719	\$ 79,488,372	\$ 133,309,801	\$ 74,095,479	\$ 309,047,352	\$ 6,001,648	\$ -
Project Name PRC Emergency HVAC System Major Repairs & Replacement Project Number 6114242 Project Manager Doug L.									
						Current Budget: \$1,385,000 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	95%	Y	Y	N	0	Dec-14	0	Dec-14
Scope									
This project now includes scope for 2 phases: Phase 1: To replace 4 makeup air units and roof top units and 1 kitchen exhaust fan. Phase 2: To replace 5 makeup air units and roof top units and 4 exhaust fans. Budget uplift of \$85k approved to deal with unforeseen issues that arose as a consequence of the significant impact of the new HVAC installations - eg. emergency power and emergency lighting issues (sharing some of the same circuitry). 50% of costs are being reimbursed by BC Housing									
Progress									
Work on Phase 2 was initiated in mid-April/14; proceeding on schedule (July/14); Effective Nov 15 remaining work is related to wrap up and final invoicing									
Issues									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget

\$ 627,030	\$ 589,917	\$ 757,970	\$ -	\$ -	\$ -	\$ -	\$ 1,385,000	\$ -	\$ -
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Project Name SHC Electrical System Project Number 6112151 Project Manager Ralph U.						Current Budget: \$290,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	100%	Y	Y	N	Oct-12	TBD	3	May-14
Scope									
Replace the high voltage cables, transformers and switchgear as well as upgrading obsolete electrical panels.									
Progress									
Project is complete, awaiting financial close.									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 199,524	\$ 72,001	\$ 78,001	\$ -	\$ -	\$ -	\$ -	\$ 277,525	\$ 12,475	\$ (0)
Project Name PRH Negative Pressure Bronchoscopy Suite & Patient Recovery Area Renovation Project Number 6114006 Project Manager Martin d.									
						Current Budget: \$250,000 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	0%	Y	Y	Y	May-13	Feb-14	1	May-14
Scope									
Renovate the Bronchoscopy suite to conform to the current CSA Standard Z317.2-10. This will require five outdoor air exchanges, twenty overall air changes per hour and all exhaust vented directly outside.									
Progress									
Financial close underway.									
Issues									
<div>Return to main Status Report.</div>									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 25,984	\$ 205,448	\$ 205,448	\$ -	\$ -	\$ -	\$ -	\$ 231,432	\$ 18,568	\$ -

Project Name Project Number			RIH Pediatric Psychiatry Inpatient Unit 6213134 Martin d.				Current Budget: \$850,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	100%	Y	Y	N	Sep-12	Mar-13	4	Oct-14
Scope									
To provide two bedrooms and seclusion room on the 5th floor south wing with support space for bathing, interview, multipurpose, teaching, exercise and staff space within a proper suite built to correct standards for this patient type.									
Progress									
Contract awarded in early May. Construction commenced 20th May. Substantial performance was delayed by several weeks to repair deficient millwork.									
Issues									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 62,731	\$ 575,250	\$ 737,449	\$ 16,671	\$ -	\$ -	\$ -	\$ 816,851	\$ 33,149	\$ -
Project Name Project Number Project Manager			PON Building Management System Upgrade 6214001 Steve M.				Current Budget: \$375,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
5%	100%	0%	Y	Y	N	0	Dec-14	0	May-15
Scope									
To add a Building management system, which will improve patient and staff comfort levels while reducing the amount of energy consumed currently at this facility.									
Progress									
Sept/14: Issued for tender, results by the end of the month. Contract awarded to Johnson Controls on October 24th 2014, estimated installation time is 24 weeks. Contract is within budget									
Issues									
None.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 24,636	\$ 3,328	\$ 317,864	\$ 32,500	\$ -	\$ -	\$ -	\$ 375,000	\$ -	\$ -
Project Name Project Number Project Manager			PON Patient Room Renovations 6214002 Ryan M.				Current Budget: \$360,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	90%	0	Y	N	May-13	May-14	4	Mar-15
Scope									
To perform renovations to include new wall coverings, flooring and windows in the patient rooms plus improvements to the adjacent washrooms including new fixtures and millwork. These renovations will reduce draft, increase comfort and leave the residents, staff and public with an uplifted confidence in this facility.									
Progress									
No progress from last month. Work to 3rd floor washrooms is on hold pending completion of other projects on site.									
Issues									
The remaining work is the 3rd floor washroom pods - due to additional projects on site (asbestos flooring & mold abatement), the 3rd floor has not been accessible. We plan to wait until the 2nd floor flooring project is complete in order to move the 3rd floor residents down and allow for full access to the 3rd floor. The existing flooring project is delayed, which is pushing the completion of the patient room project out to March 2015.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 174,596	\$ 110,059	\$ 117,309	\$ 57,363	\$ -	\$ -	\$ -	\$ 349,268	\$ 10,732	\$ -

Project Name			RIH Chiller 600 Ton				Current Budget:			\$750,000
Project Number			6214003				RHD Contribution (Y/N):			Y
Project Manager			Steve M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
4%	50%	0%	Y	N	Y	Jul-13	Jun-14	2	Apr-15	
Scope										
This project is for the addition of a third chiller in order to provide redundancy for two other aging chillers. This would enable the site to plan the replacement of the two existing chillers and perform maintenance with little or no impact to the facility.										
Progress										
Oct. 2014: 50% drawings nearing completion, 50% QS completed.										
Issues										
50% QS estimates are over budget, proceeding to 95% design/tender documents										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 9,288	\$ 30,000	\$ 705,000	\$ -	\$ -	\$ -	\$ 735,000	\$ 15,000	\$ -	
Project Name			RIH Elevator Upgrade - Alumnae Tower				Current Budget:			\$275,000
Project Number			6214004				RHD Contribution (Y/N):			Y
Project Manager			Steve M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
5%	100%	0%	Y	Y	N	Jun-13	Aug-14	3	Jul-15	
Scope										
To upgrade the 1964 vintage model elevator (#7 elevator).										
Progress										
Aug./14 Tender awarded to Kone. Sept/14: Construction is scheduled for April-June of 2015.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 3,707	\$ 1,774	\$ 18,618	\$ 252,675	\$ -	\$ -	\$ -	\$ 275,000	\$ -	\$ -	
Project Name			RIH Parkade Elevator				Current Budget:			\$300,000
Project Number			6214005				RHD Contribution (Y/N):			Y
Project Manager			Steve M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
4%	50%	0%	Y	Y	N	Aug-13	Oct-14	2	Jul-15	
Scope										
This is an additional elevator to service a 300 stall parkade for which there is an existing elevator shaft already in place. This elevator will result in improved and uninterrupted service for patients, staff and visitors using the facility.										
Progress										
Oct. 2014: design nearing completion.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 907	\$ 1,710	\$ 24,093	\$ 275,000	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	

Project Name Project Number Project Manager			RIH Anatomic Pathology Renovation 6214009 Ryan M.				Current Budget: \$674,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	50%	Y	Y	N	May-13	Jun-14	3	Dec-14
Scope									
To execute renovations required to meet WCB requirements for air flow due to the use of formalin. Renovations will include creating a well vented room to house the processors and to move a wall to extend the working space for Histology staff.									
Progress									
Construction is underway and on schedule. Completion is expected in early December.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 27,401	\$ 64,361	\$ 542,361	\$ 55,000	\$ -	\$ -	\$ -	\$ 624,762	\$ 49,238	\$ -
Project Name Project Number Project Manager									
				PON Nurse Call 6214010 Steve M.			Current Budget: \$293,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
45%	100%	70%	Y	Y	N	Jun-13	Oct-14	1	Jan-15
Scope									
To replace a pre-1990 Rauland 3000 model with a Rauland 4000 system. The new system will provide much needed reliability and extra features such as compatibility with newer nursing aids such as nursing bed assignments and tracking software. Original scope and estimate were based on the occupancy at the site at the time which was 3 wards on 2 floors. Since that time the facility has seen an increase in utilization and all 6 wards on 3 floors are being currently utilized and will likely continue to be. April 2014: Budget was increased to \$293,000 from \$162,000 ensuring the successful completion of this project.									
Progress									
Oct. 2014 Construction completed on 2nd floor. Sept/14: Construction underway on 1st floor. The Flooring and asbestos contractors are causing scheduling challenges for the nurse call contractor which has slowed the progress.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 87	\$ 112,437	\$ 254,913	\$ -	\$ -	\$ -	\$ -	\$ 255,000	\$ 38,000	\$ -
Project Name Project Number Project Manager									
				RIH Clinical Services Building 6214128 Ryan M.			Current Budget: \$67,752,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	98%	20%	Y	Y	N	Apr-13	May-16	0	May-16
Scope									
The project aligns with Phase 2 of the RIH Master Site Plan, providing improved site access (pedestrian & vehicular), a 350 stall parking garage, 600 square meters of retail space and 2 levels of clinical services space.									
Progress									
Design-Build: 100% Design Submission is being reviewed. The design will be substantially complete by the end of November. Design of the service integration with the existing systems is underway. The construction is on schedule with concrete work ongoing. To date, the majority of the slab on grade has been poured as well as the 1st suspended slab. Concrete work will continue throughout the winter months with interior work starting in 2015. Utility connections - gas, water - are complete. Photos of progress can be seen on the buildingpatientcare.ca website. Communications: Communications continues to work closely with the project team to ensure staff & public are aware of potential impacts. Finance: The project is in the early stages and there are currently no budget concerns. Risk Registry: Risk registry was updated to reflect the current stage of the project.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 2,393,003	\$ 6,795,492	\$ 15,235,492	\$ 35,797,638	\$ 6,458,795	\$ -	\$ 1,000,000	\$ 60,884,928	\$ 6,867,072	\$ -

Project Name			RIH Provincial Colon Screening Prog. - Fit Out				Current Budget:			\$600,000
Project Number			Colonoscopy Rm							
Project Manager			Ryan M.				RHD Contribution (Y/N):			N
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	100%	15%	Y	Y	N	Apr-14	Jan-15	0	Jan-15	
Scope										
To renovate existing space to establish procedure room and recovery space area.										
Progress										
Construction is underway and progressing on schedule. Expected completion is end of January 2015.										
Issues										
0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 39,636	\$ 442,236	\$ -	\$ -	\$ -	\$ -	\$ 442,236	\$ 157,764	\$ -	
Project Name			RIH Gamma Camera				Current Budget:			\$934,000
Project Number			6215009							
Project Manager			Ryan M.				RHD Contribution (Y/N):			Y
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	99%	0%	Y	Y	N	Apr-14	Oct-14	1	Mar-15	
Scope										
To replace a 2004 model in the Diagnostic Imaging Department.										
Progress										
The PO was issued for the new camera and the tender documents are awaiting a final piece of information from the equipment vendor. Tender will be issued in December and close in the new year. Construction is expected to commence in February 2015 and last approximately 4 weeks.										
Issues										
0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 6,332	\$ 18,832	\$ 855,500	\$ -	\$ -	\$ -	\$ 874,332	\$ 59,668	\$ -	
Project Name			RIH Surgical Services Expansion				Current Budget:			\$3,600,000
Project Number			6215063							
Project Manager			Ryan M.				RHD Contribution (Y/N):			Y
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	100%	15%	Y	Y	N	Apr-14	Jan-15	1	Apr-15	
Scope										
Renovate the existing space to create a 9th OR and expand PAR by 4 bays (project also includes operationalization of 8 surgical beds and 1 ICU bed).										
Progress										
Construction has begun on Phase 1 - PARR, biomed and respiratory. The discovery of unforeseen plumbing lines has slowed things down, but it is still not known if that will impact the overall schedule.										
Issues										
0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 171,610	\$ 1,041,610	\$ 2,292,000	\$ -	\$ -	\$ -	\$ 3,333,610	\$ 266,390	\$ -	

Project Name RIH Trauma Boom (x2) Project Number 6215120 Project Manager Ryan M.						Current Budget: \$437,712 RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
N/A	100%	1%	Y	Y	N	Apr-14	Dec-14	1	Mar-15
Scope									
To renovate/install Equipment Management Systems (Booms) in the RIH Emergency Department trauma room.									
Progress									
The project is out for tender and closes in early December. The construction will take place between mid-jan to mid-feb, which will allow time for the contractor to fabricate the structural steel for the new booms and limit the downtime of the trauma bays.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ -	\$ 151,500	\$ 230,000	\$ -	\$ -	\$ -	\$ 381,500	\$ 56,212	\$ -
Project Name RIH Lighting Upgrade									
Project Number 6215140						Current Budget: \$453,826			
Project Manager Johann K.						RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	10%	Y	Y	N	Jul-14	Dec-14	0	Dec-14
Scope									
To upgrade RIH outdoor and parkade lighting in order to complete measures of the Carbon Neutral Capital Projects (CNCP) program. Modifications to the mechanical controls side of the buildings radiant heat panels will also be preformed as part of the CNCP program.									
Progress									
Stantec Consulting has completed and released issued for tender drawings for outside lighting after site review and approval. Contract for outside lighting has been awarded to Howell Electric. Work is expected to begin on-site in December. Stantec Consulting is currently working on specifications for the control modifications to the radiant heat panels. 95% review of this mechanical portion is expected for mid December.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 7,052	\$ 443,826	\$ -	\$ -	\$ -	\$ -	\$ 443,826	\$ 10,000	\$ -
Project Name RIH MRI Bundle									
Project Number 6215059						Current Budget: \$921,662			
Project Manager Steve M.						RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
5%	95%	0%	Y	Y	N	TBD	TBD	0	TBD
Scope									
This upgrade to the 2004 RIH GE Signa 1.5T MRI is required to improve exam speed and quality, and to extend the life of the MRI system. Other highlights include an MRI compatible anaesthesia machine and monitor to allow scanning of sedated patients, a "sentinelle" table to enhance breast imaging, and multiple enhancements to cardiac imaging.									
Progress									
Oct/14: Equipment ordered. Aenesthetic gas scavenging system consulting work awarded to Rocky Point Engineering.									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected			Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 833,021	\$ 921,662	\$ -	\$ -	\$ -	\$ -	\$ 921,662	\$ -	\$ -

Project Name			RIH ICU - 17 bed ICU (14 operational)				Current Budget:			\$11,000,000
Project Number			9909207				RHD Contribution (Y/N):			Y
Project Manager			Rhonda G.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
100%	100%	100%	Y	Y	Y	Aug-08	Aug-11	2	Aug-11	
Scope										
Funding is in place for project. Based on the completion of the Functional Program, the scope includes renovations for 17 ICU beds with associated support space and decants to accommodate the relocation of the ICU department to the third floor of the RIH adjacent to the OR suite										
Progress										
This matter has been finalized with previous contractor and project is now proceeding through internal processes in IHA to close out as there are no further expenses expected against this project.										
Issues										
Although project is substantially complete and space is being fully utilized, resolution on claim regarding flooring issue is still outstanding. IHA resolved issue utilizing the remedies available under construction contract and no further response from contractor has been received, however there is still a potential of legal recourse. This project will remain in 'open' status until matter is finalized.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 10,104,027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,104,027	\$ 895,973	\$ -	
Project Name			RIH Nurse Call				Current Budget:			\$890,000
Project Number			6214017				RHD Contribution (Y/N):			Y
Project Manager			Steve M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
100%	100%	100%	Y	Y	N	Jun-13	Mar-14	0	Mar-14	
Scope										
To replace a 1984 Rauland 3 in 1 and 7 South and a 1986 Rauland 3000 model in 5-7 North with Rauland 5 systems. These new systems will provide much needed reliability and extra features such as compatibility with newer nursing aids such as nursing bed assignments and tracking software. June 19, 2013: A nurse call system for 4N will also be included.										
Progress										
Aug. 2014: Construction completed. Deficiencies have been addressed. A few additional devices required have been identified and are being purchased for installation by Plant Services staff.										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 725,326	\$ 6,486	\$ 12,674	\$ -	\$ -	\$ -	\$ -	\$ 738,000	\$ 152,000	\$ -	
Project Name			OEC Relocate Laundry				Current Budget:			\$256,000
Project Number			6214008				RHD Contribution (Y/N):			Y
Project Manager			Ryan M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	100%	100%	Y	Y	N	May-13	Dec-13	2	May-14	
Scope										
To relocate the laundry to a more central location to improve staff productivity for delivering laundry and relieve congestion for residents in wheelchairs in the South Wing. This relocation will comply with safety recommendations for laundry staff from Occupational Health & Safety and Infection Control.										
Progress										
Construction is complete and the laundry room has been turned over to site. We are currently waiting on the As-built drawings before closing the project.										
Issues										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 42,183	\$ 211,391	\$ 213,817	\$ -	\$ -	\$ -	\$ -	\$ 256,000	\$ -	\$ -	

Project Name RIH Rad Fluoro System							Current Budget: \$1,100,000			
Project Number 6213006										
Project Manager Martin d.							RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	100%	100%	Y	Y	N	May-13	Feb-14	2	Jun-14	
Scope										
To replace a 2001 Toshiba KXO-80G machine in the Diagnostic Imaging Department.										
Progress										
All work in this room was completed by end of June. The flooring was repaired in August 2014 due to deficient installation of the flash coving. This work occurred outside of operational hours to mitigate disruption to DI services.										
Issues										
0										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 389,724	\$ 497,451	\$ 515,006	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 904,730	\$ 195,270	\$ -
Project Name MER Replacement of Switchboard & Public Address System							Current Budget: \$140,000			
Project Number 6214000										
Project Manager Steve M.							RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
95%	100%	95%	Y	Y	N	0	Dec-13	4	Apr-14	
Scope										
To replace the current system which is over 20 years old. If this system fails we risk leaving patients and staff at this site with no public communication system in case of an emergency situation.										
Progress										
Sept./14 Substantially complete, contractor working on deficiencies. Reviewing the replacement of the cameras, monitor and security systems										
Issues										
None.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 575	\$ 25,434	\$ 30,149	\$ 109,276	\$ -	\$ -	\$ -	\$ -	\$ 140,000	\$ -	\$ -
Project Name KAM Mammography System							Current Budget: \$615,540			
Project Number 6214240										
Project Manager Ryan M.							RHD Contribution (Y/N): N			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
0%	100%	100%	Y	Y	N	Feb-14	Aug-14	0	Aug-14	
Scope										
To replace 2004 analog mammography equipment with a digital system plus associated renovations to the leased site.										
Progress										
Project complete. Awaiting 1 minor deficiency before closing the project.										
Issues										
Return to main Status Report.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 165,000	\$ 420,905	\$ 420,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 585,905	\$ 29,635	\$ -

Project Name			KLH Emergency Power System Upgrade				Current Budget:			\$1,950,000
Project Number			6314001				RHD Contribution (Y/N):			Y
Project Manager			Martin d.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
N/A	95%	0%	N	N	Y	May-13	Aug-14	3	Dec-15	
Scope										
To perform upgrade required to meet the electrical code and the current CSA standard for an Acute Care facility. In order to meet these standards and the electrical code it is required to replace all of the original 1958 electrical distribution, add a second emergency power generator and replace the automatic transfer switch.										
Progress										
Users have reviewed the pre-tender design. Class A (pre-tender) cost estimate was completed in May, 2014. The project design requires installation of two 750 kW generator sets and an electrical room with switchgear and automatic transfer switches housed in outdoor enclosures. The equipment will be provided as a pre-fabricated system shipped to site and installed on a new concrete equipment pad. The old generator will be removed.										
Issues										
During design development, the Consultant provided a technical memorandum confirming the only design that meets CSA requirements is the installation of two new generators sets. The original project was to replace the existing generator only. This additional requirement (to allow for required redundancy and electrical load (the generators have been sized to meet future projected hospital loads)) will have a cost impact on the project. The Consultant has completed the pre-tender design estimate which indicates a budget of \$3.6 million is required. This process has delayed the project as this project had to be resubmitted to the FY16 Capital Project Steering Committee (CPSC) for the additional \$1.65M funding request. This request which was approved on 30th October, 2014 however formal approval from the funding partners must be obtained prior to proceeding with the tender and construction process.										
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ 56,012	\$ 80,073	\$ 60,967	\$ 1,823,767	\$ -	\$ -	\$ -	\$ 1,940,746	\$ 9,254	\$ -	
Project Name			KBH Development of an Isolation Room in ICU				Current Budget:			\$660,000
Project Number			6315002				RHD Contribution (Y/N):			Y
Project Manager			Lucas M.							
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion			
Prog.	Design	Const.					Original	Rev. #	Revised	
0%	10%	0%	Y	Y	N	May-14	Mar-15	0	May-15	
Scope										
This project will retrofit an existing ICU inpatient room into a new airborne isolation room, complete with an ante-room, washroom and pressure monitoring system. The room will also be outfitted to accommodate bariatric patients and include a new ceiling lift. The installation of a dedicated roof mounted air handling unit and exhaust are also included.										
Progress										
The design kick-off and engineering review has been completed. Schematic plan options will be reviewed in late Nov 2014 with final approval of the Schematic Plan scheduled for early Dec 2014. Design completion and start of construction scheduled for early in the New Year.										
Issues										
										0
Financial										
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget	
\$ -	\$ 19	\$ 24,519	\$ 635,481	\$ -	\$ -	\$ -	\$ 660,000	\$ -	\$ -	

Project Name Project Number Project Manager						KBH Connecting Chilled Water Piping from 3 Existing Chillers 6315000 Jonathan J.		Current Budget: \$427,300 RHD Contribution (Y/N): Y					
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
NA	100%	0%	Y	Y	N	Jun-14	Mar-15	0	Mar-15				
Scope													
This project will link all three cooling systems into one loop by interconnecting the piping systems. Redundancy will be created and allow boilers to be shut down in the summer.													
Progress													
Contract out to tender to be closed on Dec. 4. To be awarded on Dec. 8.													
Issues													
0													
Financial													
Actuals to March 31, 2014		Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget		
\$ -		\$ 34,105	\$ 304,105	\$ 123,195	\$ -		\$ -	\$ -	\$ 427,300	\$ -	\$ -		
Project Name Project Number Project Manager										KBH Replace Steam Chiller (Absorption Chiller) 6315001 Jonathan J.		Current Budget: \$654,300 RHD Contribution (Y/N): Y	
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
NA	100%	0%	Y	Y	N	TBD	TBD	0	TBD				
Scope													
To replace 1994 chiller which has become increasingly unreliable. This project was approved under the Provincial Government's Carbon Neurtal Capital Program and as such is intended to be completed and reported out on not later than March 31, 2015.													
Progress													
Pre tender of chiller equipment awarded to Trane. Main tender to be closed on Dec. 4, to be awarded on week of Dec.8													
Issues													
0													
Financial													
Actuals to March 31, 2014		Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget		
\$ -		\$ 25,541	\$ 565,000	\$ 89,300	\$ -		\$ -	\$ -	\$ 654,300	\$ -	\$ -		
Project Name Project Number Project Manager										KLH 4th Floor Redevelopment & Renovation 6315003 Jonathan J.		Current Budget: \$188,532 RHD Contribution (Y/N): N	
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion						
Prog.	Design	Const.					Original	Rev. #	Revised				
100%	100%	80%	Y	Y	N	Jul-14	Nov-14	1	Dec-14				
Scope													
This project will renovate the fourth floor to accommodate two internal medicine physicians and improve flow of the Chronic Disease Management Program.													
Progress													
Architect hired and design meetings in progress. Nov. 15 - Construction at 80% Occupancy on Dec. 15													
Issues													
0													
Financial													
Actuals to March 31, 2014		Actuals YTD	FY15	FY16	Projected FY17		FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget		
\$ -		\$ 69,351	\$ 188,532	\$ -	\$ -		\$ -	\$ -	\$ 188,532	\$ -	\$ -		

Project Name Project Number Project Manager						HVL Nurse Call 6315004 Jonathan J.		Current Budget: \$280,000 RHD Contribution (Y/N): Y	
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	90%	Y	Y	N	Jun-14	Dec-14	1	Nov-14
Scope									
To replace a 2007 Homefree Nurse Call system with a Responder 4000.									
Progress									
Design complete, PO to be issued to Terracom by July 30, work to start on August 15. Work started, project at 33% complete. Nov 15 - Work complete to 90%									
Issues									
0									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 79,298	\$ 280,000	\$ -	\$ -	\$ -	\$ -	\$ 280,000	\$ -	\$ -
Project Name KBH General Rad Room Project Number 6315006 Project Manager Johann K.									
Current Budget: \$226,000 RHD Contribution (Y/N): Y									
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	95%	Y	Y	N	May-14	Dec-14	0	Dec-14
Scope									
To replace a 2003 Radiographic Fluoroscopy System in the Diagnostic Imaging Department.									
Progress									
Project is very close to completion. Equipment has been delivered, installed and commissioned for operation. The room has been reopened and KBRH plant services is finishing up with correcting a few deficiencies.									
Issues									
None identified at this time.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ -	\$ 33,675	\$ 226,000	\$ -	\$ -	\$ -	\$ -	\$ 226,000	\$ -	\$ -
Project Name KLH Nelson 1st Floor Reno/DI Redevelopment Project Number 9908332 Project Manager Rhonda G						Current Budget: \$14,163,651 RHD Contribution (Y/N): Y			
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion		
Prog.	Design	Const.					Original	Rev. #	Revised
100%	100%	100%	N	Y	N	Nov-08	TBD	3	Sep-13
Scope									
Design and construction of Phase 1 (ER, DI, partial parking & shelled-in space). Budget reduced from \$15.3M to \$13.8M based on new market condition costs for equal scope of work. March 2011 - budget increased to \$14,911,000 to include the purchase of the CT scanner. Elevator and laundry projects pulled \$254,000 out of the increased budget, leaving the new overall budget at \$14,657,000. Time extended based on construction schedule submitted by successful bidder. Yellowridge Contracting - stipulated price contract; Stantec Prime Consultant. Update Sept.12: \$1,994.00 was transferred from this project budget to the KLH Laundry Renovation project.									
Progress									
Owners/users have occupied the space and it is being used to its full capacity - Phase 1 of the project is now complete and can now be closed.									
Issues									
Flooring re-work required by IHA. IHA has retained the cost of this work and contractor may dispute. Coordination concerns on project and IHA has claimed partial reimbursement.									
Financial									
Actuals to March 31, 2014	Actuals YTD	FY15	FY16	Projected FY17	FY18	FY19	Total Actuals + Projected	Projected Unspent	Variance to Budget
\$ 13,912,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,912,007	\$ 251,644	\$ (0)

Project Name Project Number Project Manager							KBH Multipurpose System 6314003 Lucas M.		Current Budget: \$1,050,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion				
Prog.	Design	Const.					Original	Rev. #	Revised		
N/A	100%	90%	Y	Y	N	Apr-13	Jan-14	1	Jun-14		
Scope											
To replace a 1999 Rad Fluoro System in the Diagnostic Imaging department. This system utilizes a multidirectional interactive digital C-arm system, providing a variety of configurations which enable radiographic procedures that cannot be completed on any other equipment.											
Progress											
Construction is substantially complete and the room is in use. Final interior work and deficiencies are complete. Exterior work is scheduled for completion by Dec 2014.											
Issues											
None.											
Financial											
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget
\$ 706,265		\$ 289,609		\$ 343,735		\$ -		\$ -		\$ -	
Project Name Project Number Project Manager							KLH General Rad Room 6314005 Lucas M.		Current Budget: \$285,708 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion				
Prog.	Design	Const.					Original	Rev. #	Revised		
N/A	100%	100%	Y	Y	N	Apr-13	Oct-13	2	Jun-14		
Scope											
To replace a 2002 model in the Diagnostic Imaging department. General Radiographic System is an X-ray system including a table, overhead X-ray tube and wall stand with bucky.											
Progress											
Project is substantially complete. Signage has now been installed and the project is fully complete.											
Issues											
Financial											
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget
\$ 31,535		\$ 237,417		\$ 254,173		\$ -		\$ -		\$ -	
Project Name Project Number Project Manager							KLH Pyxis Medstations 6314006 Lucas M.		Current Budget: \$375,000 RHD Contribution (Y/N): Y		
% Complete Status			On Time	On Budget	Issues	Start Date	Substantial Completion				
Prog.	Design	Const.					Original	Rev. #	Revised		
N/A	100%	99%	Y	Y	N	Apr-13	Nov-13	1	May-14		
Scope											
To add automated medication cabinets in the Surgical (X1) and Medical (X2) departments. Scope revised to defer purchase of 2nd floor Pyxis units. Full medstations will be constructed for each floor - 3rd floor Pyxis units (x2) will be purchased.											
Progress											
Project is substantially complete. One final deficiency in labeling will be completed in Dec 2014 2014. Additional cooling for the 3rd floor room will be completed as part of a larger cooling system being added for the 4th floor as this is more efficient for operation and maintenance than installing a smaller dedicated system. The 4th floor system is planned to be installed by Jan 2015. Improved monitoring of the medstations fridges will be installed in Jan 2015. Additional staff training for the Pyxis equipment is being reviewed.											
Issues											
Financial											
Actuals to March 31, 2014		Actuals YTD		Projected			Total Actuals + Projected		Projected Unspent		Variance to Budget
\$ 12,684		\$ 302,801		\$ 352,316		\$ -		\$ -		\$ -	

Return to main Status Report.