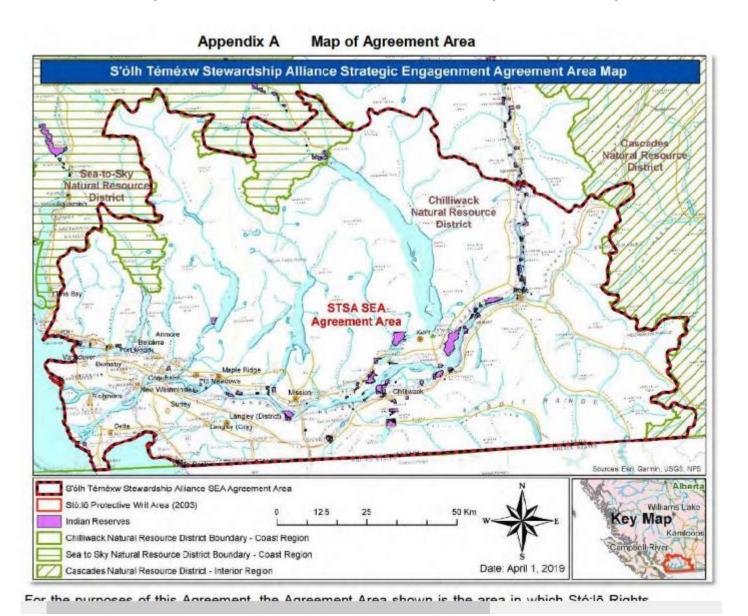
# **FOI TOL communications with WLRS**

https://west-creek-awareness.ca/wp-content/uploads/2025/01/township-of-langley-foi-24-174.pdf



Proposed Activities under the following statutes are subject t Engagement Framework:

Dike Maintenance Act

Environmental Management Act

Forest Act

Forest and Range Practices Act

Heritage Conservation Act

Integrated Pest Management Act

Land Act

Ministry of Lands, Parks and Housing Act

Mines Act

Mineral Tenure Act

Park Act

Protected Areas of British Columbia Act

Water Act

Water Sustainability Act

Wildlife Act

Kanichardson@tol.cab; Eric d cowoodward@tol.ca>

Subject [EXTERNAL] Ros

Hollo Stophon,

Thank you for the information

dug deapen/wider before turning the oca S. Expansion 3 8 # ming? Will broom F within the SS werea? 

On Saty Jun 5, 2025 at 6:25 PM Stophon Ě

Good afternoon Mayor Woodward:

following develop ct, with respect to the subject permanently dedicated and ent prerequisites: bject current Beedle application (14-05-0105) the pand areas (55 acres) is and protected as noted in the Report to Council and as referenced in the

Page 136 of 665

Expension and improvement of the community stammwater detention facilities in accordance th the Township's Subdivision and Development Servicing Bylow including dedication of the

ô securing any and all required enviro 885UIT ä nsfer of approximately 22.31 ha (55.13 ac) of land to the Township upon mental and servicing approvals and wo

7. Compliance with Schedule 3 — Development Permit Areas: Streamside Protection and Enhancement of the Township OGP including issuance of a Streamside Development Permit, security of required senior government approvals, security of proposed enhancement works including access infrastructure, and transfer of the lands to the Township;

The information shared in the e-mail below references and pertains to a separate, distinct (approximately 1.15 km southeast of the current application) and previous Development Permit application (ToL Project # 14-05-0058 / 4325 - 275 8treet / Beedle Development Group / Development Permit Application No. 100890) issued by Council Nov. 6 / 17. As part of that application the subject site included is biofibration/detention pond constructed in 2007 as part of the overall DFO compensation for the Gloucester Industrial Park. A non-disturbance restrictive covenant was registered on the property in 2008 to protect the pond. The subject development permit must co mply with the terms and conditions of the restrictive covenant."

let me know if staff can provide additional information / clarification or be of further assistance

Best regards - Steph

From:

Date: Tuesday, May 30, 2023 at 9:56 PM

To: Eric Woodward

Ηij

I found this in some paperwork regarding the application by Sociale to develop the area on the south side of the freeway. It refers to the area on the north side. Two areas to read both in bold and underlined. This means that nothing can be done to the good. There are also actions in the report that state the trees cannot be touched in the restricted area. All of this information came from the Township by way of a freedom of information application. I do not know if the areas that Sociale is trying to develop now are included in the restrictive covenant but certainly the good and wetland trees, shrubs, etc are in the restrictive covenant. Checking at the Land Titles office should let you know if the areas that Sociale wants to develop now are in the restrictive covenant area.

.

**Pages** 

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139

FOI 26-174

Whereas the original DFD Authorization #99-HPAC-A2 000 000217 MELP File# A 20004850 cited in the staff report states: The valid authorization period for the harmful alteration associated with various land development activities is from 10 May, 2000 through 15 September, 2005.. and ... If any phase of the project is not completed by that data, such that fish habitat may be affected, a new Authorization pursuant to Section 35(2) of the Fisheries Act may berequired.; and Whorcas the subject development proposal will now potentially adversely affect new fish populations. which have resulted from the enhancement works undertaken in and around the subject property, thereby triggering the involvement of the DFD in the proposed SRW relocation in order to ensure that the original conditions of Authorization are still applicable; Therefore, be it resolved that a reconsideration of the matter on the grounds of new information proceed and that the following conditions be added to the original DF: 1) Seedic Corporation and/or its Qualified Professional confirms that the location and general design of the works are consistent with the information originally provided to the DFD and that any substantive deviations be forwarded to them for review prior to current Authorization; and 2) That the DPD conduct a site review in order to determine the number and species of fish potentially affected by the re-location of the SRW; and 3) That the DF conditions be subject to the current jurisdiction of the DFO with respect any harmful alteration of fish habitat and that all current applicable DFO and Township of Langley standards and policies be therefore applied; and AlThat the Ministry Environment be consulted further to the application in order to ascertain compliance with all related provincial policies further to fish and riparian guidelines. and legislation; and S)The issuance of a building permit for 4525 275th Street will not be completed until the preceding requirements have all substantively been met. Thanks, Councillor Petrina Arnason Township of Langley POI 18-051. Page 47 of 657 From: Ramin Solfi Sont time: 11/27/2017 05:54:01 PM To: Stephen Richardson Ce: Robert Knall; Rod Shoad; Joel Nagtogaal; Davo Anderson; David Cocking; Paul Albrocht; Revin Larson Subject: RE: Information re: Development Permit Application No. 100590 Attachments: image001.gng image002.jpg Thanks Stephen; I would like us to respond to the LEPS letter with clarifications to the points raised as per your comments below. Revin is copied for information due to the working relationship we have/had with LEPS. Thanks. From: Stephen Richardson Sent: Monday, November 27, 2017 11:57 AM To: Ramin Seifi Co: Robert Knall ; Rod Shoad ; Joel Nagtogaal ; Dave Anderson ; David Cocking ; Paul Albrocht Subject: RE: Information re: Development Permit Application No. 100890 Good morning Ramin: Staff are able to provide the following comment at this time regarding: 1) information included in Nov. 6 / 17 Report to Council and 2. Langley Environmental Partners Society (LEPS) Nov. 24 / 17 correspondence. POI 18-051 Page 45 of 657 1. Nov. 6 / 17 Report to Council As part of the application, the applicant has proposed to relocate an existing Statutory Right of Way and stormsower. The north portion of the site includes a biofiltration/detention pond constructed in 2007 as part of the overallDFO compensation for the Gloucester Industrial Park. A nondisturbance restrictive covenant was registered on he property in 2008 to protect the pond. The subject development permit must comply with the terms and conditions of the restrictive covenant. (Report to Council November 6, 2017 Public Hearing (14-05-0098) Development Permit Application No. 100890 (161884 Canada Inc. / Scodio Development Group / 4825 - 275

Two areas to read both in bold and underlined. This means that nothing can be done to the pond. There are also sections in the report that state the trees cannot be touched in the restricted area. All of this information came from the Town ship by way of a freedom of information application. I do not know if the areas that Beedie is trying to develop now are included in the restrictive covenant but certainly the pond and wetland trees, shrubs, etc are in the restrictive covenant. Checking at the Land Titles office should let you know if the areas that Beedie wants to develop now are in the restrictive covenant area.

The north portion of the site includes a biofiltration/detention pond constructed in 2007 as part of the overall DFO compensation for the Gloucester Industrial Park. A non disturbance restrictive covenant was registered on the property in 2008 to protect the pond. The subject development permit must comply with the terms and conditions of the restrictive covenant. (Report to Council November 6, 2017 Public Hearing (14-05-0098) Development Permit Application No. 100890 (161884 Canada Inc. / Beedie Development Group / 4825 - 275 Street



July 7, 2023

Project: 14-05-0105 Folder: RO100245

Scott Barrett, Director Resource Management Ministry of Forests South Coast Regional Office 200, 10428 - 153 Street Surrey, BC V3R 1E1

Re: Gloucester Industrial Park Community Plan Amendment Bylaw No. 5885 and Rezoning Bylaw No. 5886 (161884 Canada Inc. / Beedle Group / 5500 Block of 268,

272 and 275 Streets)

The purpose of this letter is to share information with regards to Council's proceedings regarding the subject application. For your information, the aforementioned bylews were considered for third reading by Council at its regular meeting of June 28, 2023. According to the draft minutes, Council resolved the following:

# AMENDMENT

That Council grant third and final reading to "Langley Official Community Plan Bylaw 1979 No. 1842 Amendment (Gloucester Industrial Park) Bylaw 1998 No. 2558 Amendment (161864 Canada Inc. / Beedle Group) Bylaw No. 5885\*.

That Council deler consideration of third reading to "Township of Langley Zoning." Bylaw 1987 No. 2500 Amendment (161884 Canada Inc. / Beedle Group) Bylaw No. 5886", subject to provision of additional information pertaining to required senior government environmental approvals; and

That the subject development prerequisites apply to Rezoning Bylaw No. 5886.

We understand that the Ministry of Forests is currently reviewing Water Sustainability Act application WSA 2010025 for the subject lands. Consistent with the above motion, when available, please provide information with regards to the Ministry's proposed recommendations for the site and required approvals.

If you have any questions, please contact me at 604,533,6021 or thenson@fol.ca.

Teresa Hanson SENIOR PLANNER

TH/ba



June 30, 2023

Project: 14-05-0105 Folder: RO100245

Beedie Group / 161884 Canada Inc. Conner O'Leary 3030 Gilmore Diversion Burnaby, BC V5G 3B4

Gloucester Industrial Park Community Plan Amendment Bylaw No. 5685 and

Rezoning Bylaw No. 5886 (161884 Canada Inc. / Beedle Group / 5500 Block of 268.

272 and 275 Streets)

Please be advised that the aforementioned bylaws were considered for third reading by Council at its regular meeting of June 26, 2023. According to the draft minutes, Council resolved the following:

# AMENDMENT

That Council grant third and final reading to "Langley Official Community Plan Bylaw 1979 No. 1842 Amendment (Gloucester Industrial Park) Bylaw 1988 No. 2556 Amendment (161884 Canada Inc. / Beedle Group) Bylaw No. 5885\*.

That Council defer consideration of third reading to "Township of Lancley Zoning Bylaw 1987 No. 2500 Amendment (161884 Canada Inc. / Beedie Group) Bylaw No. 5886", subject to provision of additional information pertaining to required senior government environmental approvals; and

That the subject development prerequisites apply to Rezoning Bylaw No. 5886.

If you have any questions, please contact me at 604,533,6021 or thenson@tol.ca.

Yours, truly,

Terese Hangon

SENIOR PLANNER

TH/ba

copy: Paul Albrecht, Development Engineering Ana Velazquez, Green Infrastructure Services FQ134-1

To:

Terror Harrow

[BITHEOL] 1+05-0108 - Beede Charleste Lond. - PH Clarificate Tuesday, June 25, 2021 E-H-H7 PM Page 280

\_\_\_\_

His Torress

During the Council Meeting on June 12th, 2023, for the Public Hearing of the Golf Course Lands, Council he Raillie requested additional information regarding the use of the term "peopetainy" in reference to majort lands. This escall has been during to provide clasification in response to this impairy, it is not intended to provide any new information.

The notion of perpetuity is introduced in the original (2000) DFO Authorization agreement under Item #28, which

"All insureing areas along an ECL Densing No. 487-97-17 will be protected by a restriction arounded in the registered agreem the talk of the progress[out] afficient under sension 217 of the Lond Talks due to per the registered on § \$452.77. All these originations in the first in earlier was activated to expend the registered of \$452.77. All these originations in the first in the first including materials arounded by a registered EC Lond Densylve and a permanent force must be exercised at the severance invasion development absolutely dension development areas and the exercised energy in the severance invasion prior to the emphasisman (force) and endoctorment around the first the severance of the end of the severance of the end o

It should be noted, that the DFO Authorization was not specific to the Gulf Course Lands but all undeveloped had within the restine Glossoster Estates at that time. For a large, there can be viewed as two separate components. Habitate consiste the subject bands and full-bitate within the outlypest bands.

- Habitate <u>contribe</u> of the Golf Course Lands, have been approved and constructed in accordance with the DFO Authorization and legally protected and will remain undistanted in propertiely. These habitate can be seen to this day throughout the Gloscouter Industrial Estates which act as important revisionmental, decimage and widdlife considers.
- Hobitats <u>within</u> the foot! Consent Lands were severe developed to a fixed stage. As such, they have never been protected under the methodology discussion by item 25 of the DFO Authoritation. This is due to the several Califord attempts to design a food! Consent on those lands. Until a fixed design for the lands is approxed and constructed, the lands remain "not completed" and are not protected by a 219 Consent. Furthermore, the DFO Authoritation has now expired which requires the project to neek new approximate for all works within the Gelf Connel Lands.

Under our current application, not only the ner meet the protected area on theme in the original DFO Authorization, the proposed SS acres of land represents the meet significant area of land posteriors included in any of the applications rever made on the property. The works proposed within this strenning applications will be completed to current revisionmental posteriors standards and legislation at all levels of government. Finally, upon completion of the required Envisormental compressation, stelection and enhancement, remarking of the lands will be transferred to the Teruschip of Langitey for on-going Strennathing and protection.

We hope this information provides clarity to the historical DFO Authorization, the quesprovides conformation that works completed under the DFO Authorization remain valid as error.

Should you have any further questions or require additional information, please do not besitate from

All the best,

Fegg 200 of 800

FOI 34-ITE

Conner O'Leary

Senior Development Monoger



P804,455,5521, P804,452,7549

De04 458 7887 | 0778 858 7580 5050 Gilmore Diversion, Surneby, SC VSG 554

conner.clean@beadle.c

\_



The notion of perpetuity is introduced in the original (2000) DFO Authorization agreement under Item #28, which states:

"All leave-strip areas shown on ECL Drawing No. 467-02-12 will be protected by a restrictive covenant to be registered against the title of the property(ies) affected under section 219 of the Land Titles Act as per the requirements of MELP. All leave strips are to be left in a totally undisturbed, naturally vegetated state in perpetuity. The covenant boundary must be surveyed by a registered BC Land Surveyor and a permanent fence must be constructed at the covenant boundary between development areas and the covenant areas prior to the commencement of any site development, unless otherwise agree to by MELP."

It should be noted, that the DFO Authorization was not specific to the Golf Course Lands but all undeveloped land within the entire Gloucester Estates at that time. For clarity, these can be viewed as two separate components. Habitats outside the subject lands and habitats within the subject lands.

- Habitats <u>outside</u> of the Golf Course Lands, have been approved and constructed in accordance with the DFO Authorization and legally protected and will remain undisturbed in perpetuity. These habitats can be seen to this day throughout the Gloucester Industrial Estates which act as important environmental, drainage and wildlife corridors.
- Habitats <u>within</u> the Golf Course Lands were never developed to a final stage. As such, they have never been protected under the methodology described by item 28 of the DFO Authorization. This is due to the several failed attempts to design a Golf Course on these lands. Until a final design for the lands is approved and constructed, the lands remain "not completed" and are not protected by a 219 Covenant. Furthermore, the DFO Authorization has now expired which requires the project to seek new approvals for all works within the Golf Course Lands.



# ZONING SUMMARY

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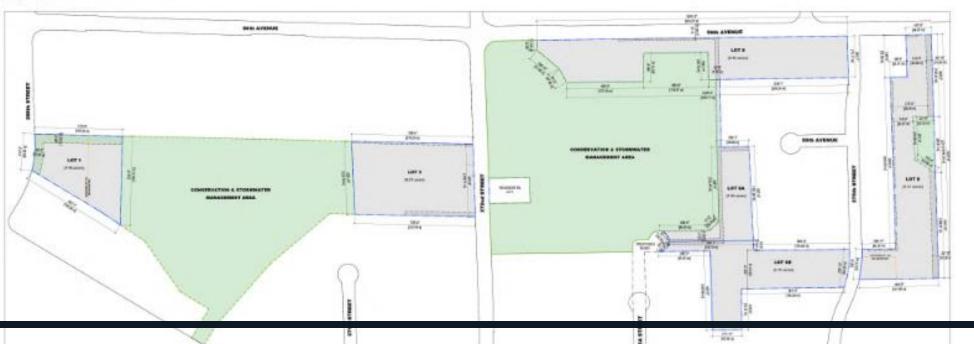
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Key Plan



GLOVGESTER NAV

Page 347

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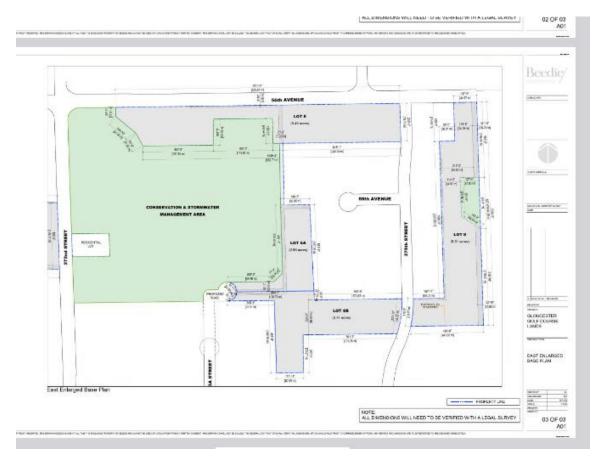
N-1000.00.00 2610000 PROJECT:

GLOUCESTER GOLF COURSE LANDS

0844WG 1156

PRELIMINARY BASE PLAN





↑ ∨ 375 of 983

From: FrontCounterBC@cov.bc.ca
To: orlenfo: Ashleigh Gilbert
Cer: Stonbon Birbardson

Subject: Province of BC Referral Request on an Approval for Changes In and About a Stream Under Section 11 of the

Nate: Friday, November 03, 2023 3:08:49 PM

Township of Langley Ashleigh Gilbert

Water Approval for Changes in and About a Stream (Section 11)

Referral Number: 162355310 - 001

Reference Number: Forests, Lands and Natural Resource Operations / 2010025

Request Sent: November 3, 2023 Response Due: December 3, 2023

You are invited to comment on the following Water Act application. A response is optional. If no response is received by the deadline, the application and adjudication process will move ahead.

File Number: 2010025

Proponent: 161884 Canada Inc.

Source: West Creek & Nathan Creek

Precinct: Cloverdale

Description of Works: Reconstruction of an existing stormwater management pond, stream and pond infills, and habitat enhancements.

Please <u>Click Here</u> to respond to this referral. You must be logged in using your BCeID account to view associated information. Forwarding or otherwise distributing this email will provide access to the associated information only if the receiver has a corresponding account.

Note that it can take an extended period of time to connect from the BCeID login to the E-Referrals website, this is normal. Avoid re-clicking the "Next" button or you could extend this connection time.

\*\*\*Please DO NOT reply to this email.\*\*\*

For "how-to" instructions on how to respond to this request, visit https://portal.nrs.gov.bc.ca/web/client/-/e-referrals for instructional videos. To obtain a BCeID, visit https://www.bceid.ca/

For technical assistance with E-Referrals, contact FrontCounter BC at 1-877-855-3222.

For more information regarding this referral, use the email link at the bottom of this message or use the "Email Coordinator" link located within the referral to contact the Referral Coordinator.

Page 375 of 983

File Number: 2010025

Proponent: 161884 Canada Inc.

Source: West Creek & Nathan Creek

**Shawn Fitzsimons** 

FrontCounter BC

Water Authorizations Specialist - Stream Management

(778) 572-2232

shawn.fitzsimons@gov.bc.ca



# Change Approval and Notification (Changes In and About a Stream)

Tracking Number: 100390145

ATS 684520 File 2010025

App		

If approved, will the authorization be issued to an Individual or Company/Organization?

Company/Organization

What is your relationship to the company/organization? Consultant

# APPLICANT COMPANY/ORGANIZATION CONTACT INFORMATION

Applicant is an individual or an Organization to whom this authorization Permit / Tenure / Decree will be issued, if approved.

Name: 181884 Canada Inc.

Doing Business As:

Phone: 604-435-3321

Dmeik

SC Incorporation Number: Extra Provincial Inc. No: Society Number:

GST Registration Number:

Contact Name: Mr. Adam Donnelly
Mailing Address: S050 Gilmore Diversion
Surnelly SC 175G 354

# CONSULTANT INFORMATION

Please enter the contact information of the individual/Organization who is acting on behalf of the applicant.

Name: ENVIRONEST CONSULTANTS INC.
Doing Business As: Environcest Consultants Inc.

Phone: 604-944-0502

Fig.

Email: blanchard@cnvirowest.ca

BC Incorporation Number: Extra Provincial Inc. No: Society Number:

**GST Registration Number:** 

Contact Name: Use Standard
Mailing Address: 2000 Hartley Avenue

Coguitlam SC VSK 6WS

Letter(s) Attached: You (Letter of Agency 22.04.2018.pdf)

# CORRESPONDENCE E-MAIL ADDRESS

If you would like to receive correspondence at a different email address than shown above, please provide the correspondence email address here. If left blank, all correspondence will be sent to the above given email address.

Email: whyte@envirowest.ca

Contact Name: Ian Whyto

# EUGIBIUTY

Please answer the following guestions related to your Change Approval/Notification.

Question Answer Warni

Is this application to support oil and gas activity that is being No

authorized by the Oil and Gas Commission?

TECHNICAL INFORMATION

GOVERNMENT AND FIRST NATION FEE EXEMPTION REQUEST

Treeling Number 100890143 | Version 1.0 | Submitted Detector 1, 2003

Fegs 1 of 0 Page 977 of 999 Do you belong to, are you applying on behalf of, or are you:

A provincial government ministry

The Government of Canada

A First Nation for water use on reserve land

A porson applying to use water on Treaty Lands

A Nisga's citizon

An ontity applying to use water from the Nisga's Water Reservation?

Please select the type of Notifications/Approvals you want to apply for as part of this application.

No

APPLICATION BY GOVERNMENT	
case indicate if you are someone who works in the go Are you, or are you applying on behalf of, a government entity?	vornment OR you are working on behalf of the government. No
TYPE OF WORKS	

Please select the type of works to be undertaken:	Notification  Road Crossing Culvert - Construction / Maintonance / Removal  Clear Span Sidige - Construction / Maintonance / Removal  Figeline Crossing - Construction / Maintonance  Dry Hydrant - Construction / Maintonance  Fier, Wharf, (including docks) - Construction / Maintonance / Removal  Cutting of annual vegetation in a stream channel  Dike or Eresion Protection Works - Regair / Maintonance  Storm Sewer Outfalls - Construction / Maintonance  Control of Eurasian Watermilfoil or other invasive aguatic vegetation  Ice Bridge / Winter Ford or Snowfill - Construction / Maintonance  Maintonance of minor and routine nature by a gublic utility  Romoval of a beaver dum (as authorized under the Wildlife Act)  Construction of a temporary diversion around a worksite
	Approval:    Sank Ensilon Protection     Bridge (other than clear span) - Construction / Maintenance / Removal     Stream Diversion     Large Debris Removal by machine - Plan required     Gravel removal     Other: Reconstruction of an existing stormwater management gond, stream infills, habitat creation and enhancements     Dike   No.
Maintenance Act been submitt	

Please note that the ultimate decision whether this constitutes a Notification or a Change Approval lies with the Province of British
Columbia NOTE: Answer the question below as No. The Dike Maintenance Act (DMA) Approval application is currently transitioning to
this form but is not yet been fully implemented. This guestion will be updated once the transition is complete.

SITES

this work?

Click on the Add Sites button to add one or more sites.

Treating Number 100990143 | Version 1.0 | Submitted Orienter 1, 2003

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FOI 26-174

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Pages

378

#### PROPOSED WORKS

# Detailed Description of Works:

Description of Proposed Activities/Works

The Applicant (Seedle) is proposing to resone a portion of the Golf Course Lands from RU-10 and RU-1 to M-2A. Approximately 40 percent of the Golf Course Lands are proposed to be reconed to M-2A with the remaining 60 percent to be transferred to the Township of Langley for coological and stormwater management uses.

Existing stormwater management (detention) gonds are located within the subject proporties. The West Fond is located west of 272 Street while the East Pond is located cast of 272 Street. The proposed works involve expansion of the East Pond to increase its stormwater detention canacity and will include significant habitat enhancements. Minor modification of control works at the existing west detention good are also proposed. A beaver management stratogy has been developed to restore the intended design objectives for the stormwater management gonds.

Ponds W4 and W5, and portions of Ponds W1 and W2 are proposed to be infilled. Streams W2, W3 and W6 are proposed to be infilled. The total proposed habitat losses west of 272 Street are 2,767 m2 of squatic habitat and 10.667 m2 of riperian habitat. Areas where aquatic habitat is infilled but redeveloped as rigarian habitat are characterized as "converted". Available off-actting area for rigarian (or potentially aquatic habitat) is \$6,280 m2.

Ponds 55, 57, 55 and 59, as well as the eastern extension of Pond 55 are proposed to be infilled. Streams 82, 85 and streams adjacent to pends 86 and 27 are proposed to be infilled. The total proposed habitat losses cast of 272 Street are 7,104 m2 of aquatic habitat and 25,125 m2 of rigarian habitat. Available off-setting area for riperian for potentially aquatic habitat) is 13.358. m2. Arces where equatic habitat is infilled but redeveloped as riparian habitat. are characterized as "converted". Note that the East Pond (interim detention gonds) area is excluded from this habitat balance and is addressed separately.

A conceptual plan for proposed offsetting is depicted by Environcest Drawing No. 467-15-55. West of 272 Street new habitats include 10.975 m2 of aquatic and 18,330 m2 of riperian. An additional 980 m2 of riperian habitet is: converted from equatic habitat. East of 272 Street an infiltration swale will be created along the eastern boundary of the Golf Course Lands.

Various forms of offsetting habitats are proposed and are generally to be developed within areas presently characterized by low coological values (i.e. proviously disturbed and/or prodominantly non-native vegetation). The proposed habitats include the following:

- shallow wotlands:
- gonds with depths over 1.0 metre;
- rigerien shrublends;
- riperian/upland woodlands; and

FOI 26-174 a landscaped infiltration swale. Equipment/Machinery - to be determined. Construction Stops/Timplines - to be determined. Timing Windows - all instream work will be completed during the standard fahorics window. Roles and Responsibilities - a Professional Engineer will oversee all aspects the proposed stormwater management works. A QEP (R.P.Bio. or P.Ag.) will over soc all habitat construction and landscaping. Long-term Maintenance - under agreement with the Township of Langley all constructed habitats will be monitored and maintained for ten (10) years. Pootprint of Project: 45,000 m2 PROPOSED TIMING FOR WORKS Aug 1, 2023 Instream Start Date: Instruers End Date: Sep 15, 2023 is the proposed timing within the approved Yes regional timing window? LOCATION OF WORKS Provide a legal description of the land(s) PID 024-650-617 where works are proposed: PID 024-650-625 PID 025-854-598 Geographic Coords of Works: 49.1010000 -122.4710000 Photo of Works Location: Golf Course Lands at Goucester - serial view of cast side of project area Golf Course Lands at Goucester - serial view of west side of project area. LAND OWNERSHIP AT THE WORKS Land Ownership: Applicant owns land ☐ Land is Crown Land but applicant has tonure ☐ Land is Crown Land but tonured to Ministry of Transportation A third Party owns the land but the applicant has lease or tenure. A third Party owns the land but applicant has written consent. ☐ Land is Crown Land but the applicant does not have a tenure If you are not carrying out the work, indicate contractor/company's name, professional affiliation, mailing address, postal code and Contact Info Type of Contact

telephone numbers. If a different company is designing and supervising the work, please include this information as well

Aglin & Martin Consultants Ltd.	Design and Supervision
604-597-9058	
201-12448 80 Avenue	
Surrey SC VSW 359	
	504-597-9058 201-12445 50 Avenue

Treebing Numbers 100890143 | Versier 1.0 | Submitted Orienton 1, 2003

Fage 6 of 9

Page 990 of 999

FOI 26-174

## LOCATION INFORMATION

#### LAND DETAILS

#### DRAWINGS

A Drawing to Scale is required that meets the Application Drawing Standards. Choose one of the options below to submit the required mag/drawing.

Additionally, it is recommended that you provide a topographical map showing the general location of the property where the water is proposed to be used and the works constructed in relation to nearby communities, highways, railways and other water sources.

(this additional map will not be necessary if your Drawing to Scale is provided using the Geomerk Service or a spatial file such as .KML or .KMZ)

☑ I have mag(s) saved to my computer and wish to provide these with my application

#### MAP FILES

Do you have a PDF or image file of a drawn map? You can upload it here.

Description	Filename
Location Mag	Figure 1 East and West Loca

# ATTACHED DOCUMENTS

Document Type	Description	Filename
Other	report with drawings	WSA - June 1 2022.pdf

## PRIVACY DECLARATION

PRIVACY NOTE FOR THE COLLECTION, USE AND DISCLOSURE OF PERSONAL INFORMATION

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FrontCounter SC Program Director FrontCounter SC. Provincial Operation

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Check here to indicate that you have read and agree to the privacy declaration stated above.

# REFERRAL INFORMATION

Some applications may also be passed on to other agencies, ministries or other affected parties for referral or consultation purposes. A referral or notification is necessary when the approval of your application might affect someone clack nights or resources or those of the elisens of SC. An example of someone who could receive your application for referral purposes is a habitat officer who looks after the fish and wildlife in the area of your application. This does not apply to all applications and is done only when required.

Tracking Numbers 100390143 | Version 1.0 | Submitted Order Jun 1, 2001 | Fage 3 of 9

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Please enter contact information below for the gerson who would best answer questions about your application that may arise ####174 anyone who received a referral or notification.

Company / Organization: Contact Name: Contact Address: Contact Phone:

Contact Email:

161544 Canada Inc.

Mr. Adam Donnolly 3030 Gilmore Diversion Sumaby SC VSG 384 604-455-5321

604-455-5521

edem.donnolly@boodic.ce

☑ I hereby consent to the disclosure of the information contained in this application to other agencies, government ministries or other affected parties for referral or First Nation consultation purposes.

#### IMPORTANT NOTICES

Please review the "important Notices" below and then check the declaration at the bottom confirming that everything in this application is complete and accurate.

- I understand that the submission of this application does not provide authority under the Water Sustainability Act to construct
  works in and about a stream. I also understand that my application must be reviewed before a decision is made as to whether
  an approval may be greated and that, as part of that review, additional information may be reducted of me.
- The application may be subject to further requirements under the federal Flaheries Act. Please refer to Flaheries and Oceans
  Canada Projects Near Wistor webgage (http://www.dfo-mgo.gc.ca/pnw-ggc/index-org.html) for information on how to ensure
  your project complics with the Flaheries Act.

#### median combine

Sy submitting this application form. I dodgro that the information contained on this form is complete and accurate.

### APPLICATION AND ASSOCIATED FEES

Item	Amount	Texas	Total	Outstanding Salance
Changes in and about a Stream	\$250.00		\$250.00	\$0.00
Application Foo				
OFFICE				

Surrey

# Office to submit application to: PROJECT INFORMATION

Is this application for an activity or project which requires more than one natural resource authorization from the Province of SC?

APPLICANT SIGNATURE
Applicant Signature

Office	File Number	Project Number
PPICE USE ONLY		

Treating Numbers 100390143 | Version 1.0 | Submitted Dates for 1, 2003

Disposition ID

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**Client Number** 

# GOLF COURSE LANDS AT GLOUCESTER, LANGLEY, BC

PROPOSED STREAM INFILLS AND DETENTION POND EXPANSION

November 30, 2022

# ENVIROWEST CONSULTANTS INC.

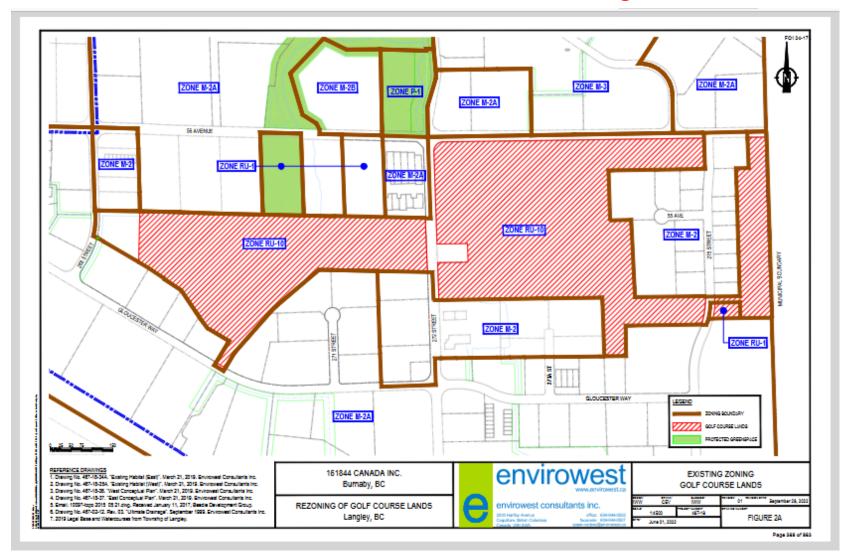
2000 Hartley Avenue Coquitlam, BC V3K 6W5 Tel.: 604-944-0502 www.envirowest.ca



FOI 26-174

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# Page 389



Ms. Teresa Hanson Proposed OCP Amendment and Rezoning Golf Course Lands at Gloucester, Langley, BC

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# DEVELOPMENT PERMIT REQUIREMENTS

The following information is provided to satisfy Subsection 4.20 of OCP Sch. 3. The fee will be submitted by the applicant. Mr. Ian Whyte, P.Ag. is the lead agent for this application. Supporting information follows

# FISH AND FISH HABITAT

# 3.1 Fish Distribution

West of 272 Street, only manmade habitat/drainage features occur south of 56 Avenue (except for a section of channel immediately south of 56 Avenue). Historical aerial imagery and mapping reflect only a small area of open water. However, extensive excavation and grading was undertaken in preparation for both the detention pond and golf course development, creating a large lentic (pond) ecosystem.

Since its construction beaver activity has raised the water levels in the West Pond (Photograph 1) resulting in inundation of adjacent areas that have developed as wetland habitats. All of the constructed drainage features drain through the West Pond. West of 272 Street coho salmon have been observed upstream as far as Highway 1. All of the stream features in the Golf Curse Lands west of 272 Street are considered accessible to (if not also inhabited by) salmonids. Other fish species captured during instream works west of 272 Street include cutthroat trout, threespine stickleback, fathead minnow, brown bullhead, black crappie and largemouth bass.



Photograph 1. Beaver lodge on the shoreline of Pond W1 (West Pond) (April 5, 2017).

East of 272 Street, upstream of the East Pond, historical records indicate presence of coho salmon, cutthroat trout, threespine stickleback and cravfish (not identified to species). Beaver activity has likely eliminated access for juvenile salmonids into some areas. Sampling in and about the East Pond in 2018 captured only threespine stickleback where salmonids were previously captured.

East of 272 Street. upstream of the East Pond, historical records indicate presence of coho salmon, cutthroat trout, threespine stickleback and crayfish (not identified to species). Beaver activity has likely eliminated access for juvenile salmonids into some areas. Sampling in and about the Fast Pond in 2018 captured only threespine stickleback where salmonids were previously captured

# **May 2025**

Proof of Life, Video Evidence of Coho Successfully **Spawning in West** Creek Headwaters

East of 272 St

black cottonwood, with wetlands/pond expanding into low lying areas. Himalayan blackberry is common throughout the Golf Course Lands east of 272 Street. A significant occurrence of Japanese knotweed (a noxious weed in British Columbia) occurs to the southeast of the East Pond; treatment of the Japanese knotweed by a licensed pesticide applicator is underway.

#### 3.4 Fish Distribution

West of 272 Street, only manmade habitat/drainage features occur south of 56 Avenue (except for a section of channel immediately south of 56 Avenue). Historical aerial imagery and mapping reflect only a small area of open water. However, extensive excavation and grading was undertaken in preparation for both the detention pond and golf course development, creating a large lentic (pond) ecosystem.

Since its construction beaver activity has raised the water levels in the West Pond (Photograph 24) resulting in inundation of adjacent areas that have developed as wetland habitats. All of the constructed drainage features drain through the West Pond. West of 272 Street coho salmon have been observed upstream as far as Highway 1. All of the stream features in the Golf Curse Lands west of 272 Street are considered accessible to (if not also inhabited by) salmonids. Other fish species captured during instream works west of 272 Street include cutthroat trout, threespine stickleback, fathead minnow, brown bullhead, black crappie and largemouth bass.



Photograph 24. Beaver lodge on the shoreline of Pond W1 (West Pond) (April 5, 2017).

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East of 272 Street, upstream of the East Pond, historical records indicate presence of coho salmon. cutthroat trout, threespine stickleback and crayfish (not identified to species). Beaver activity has likely eliminated access for juvenile salmonids into some areas. Sampling in and about the East Pond in 2018 captured only threespine stickleback where salmonids were previously captured.

West Creek continues approximately ten kilometres downstream and is confluent with the Fraser River upstream of MacMillan Island. Fish species known to inhabit West Creek include coho, chinook and chum salmon, coastal cutthroat and rainbow trout, threespine stickleback, prickly sculpin, lamprey and non-native brown catfish and brassy minnow.

https://west-creek-awareness.ca/wpcontent/uploads/2025/01/township-of-langley-foi-24-174.pdf Golf Course Lands at Gloucester, Langley, BC October 18, 2022

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Photograph 9. Pond W5 is a shallow area of seasonal ponding adjacent to developed lots south of the Golf Course Lands (January 27,

# 3.2.2 Aquatic Habitats East of 272 Street

Drainage features within the Golf Course Lands east of 272 Street include manmade/altered drainages and storm sewers, but also include a number of features that are natural and/or naturalized. A detention pond east of 272 Street (the East Pond; also referred to as Interim Detention Ponds) was constructed in 2004 to an interim standard. DFO approved the expansion of the East Pond in 2008; however, that work has not been completed to date. The East Pond drains into a section of natural channel that is conveved diagonally from the southeast of the 56 Avenue - 272 Street intersection to its northwest side. It then flows northward along the west side of 272 Street to the confluence with drainage from the West Pond and continues northward beyond the boundaries of the Gloucester Industrial Park.

Proposed modifications to the East Pond are addressed separately under the heading "Proposed Stormwater Management Improvements" below.

https://west-creek-awareness.ca/wp-content/uploads/2023/05/township-oflangley-foi-23-026-pgs.-209-256.pdf\

# Aquatic Habitats East of 272 Street

Drainage features within the Golf Course Lands east of 272 Street include manmade/altered drainages and storm sewers, but also include a number of features that are natural and/or naturalized. A detention pond east of 272 Street (the East Pond; also referred to as Interim Detention Ponds) was constructed in 2004 to an interim standard. DFO approved the expansion of the East Pond in 2008; however, that work has not been completed to date. The East Pond drains into a section of natural channel that is conveyed diagonally from the southeast of the 56 Avenue- 272 Street intersection to its northwest side. It then flows northward along the west side of 272 Street to the confluence with drainage from the West Pond and continues northward beyond the boundaries of the Gloucester Industrial Park.

# Nov 2023 Page 402



Photograph 8. Pond W5 is a shallow area of seasonal ponding adjacent to developed lots south of the Golf Course Lands (January 27,

# 3.1.2 Aguatic Habitats East of 272 Street

Drainage features within the Golf Course Lands east of 272 Street include manmade/altered drainages and storm sewers, but also include a number of features that are natural and/or naturalized. A detention pond east of 272 Street (the East Pond; also referred to as Interim Detention Ponds) was constructed in 2004 to an interim standard. DFO approved the expansion of the East Pond in the mid-2010s; however, that work has not been completed to date. The East Pond drains into a section of natural channel that is conveyed diagonally from the southeast of the 56 Avenue - 272 Street intersection to its northwest side. It then flows northward along the west side of 272 Street to the confluence with drainage from the West Pond and continues northward beyond the boundaries of the Gloucester Industrial Park.

Proposed modifications to the East Pond are addressed separately under the heading "Proposed Stormwater Management Improvements" below.

## 3.1.2.1 Streams

Stream E1 (Photograph 9) is a manmade channel that was constructed in 2004 to connect the storm sewer system at the 55 Avenue cul-de-sac (west of 275 Street) to the East Pond. This stream intersects original/natural channels that drained Ponds E4 and E5 and is currently flooded by beaver dams at its eastern end (currently considered the eastern end of Pond E5). The channel has a wetted width of 3 to 4 metres, although this is variable depending on the influence of beaver dams. The bankfull channel width is 6 to 8 metres.

https://west-creek-awareness.ca/wp-content/uploads/2025/01/township-oflangley-foi-24-174.pdf

# Aquatic Habitats East of 272 Street

Drainage features within the Golf Course Lands east of 272 Street include manmade/ altered drainages and storm sewers, but also include a number of features that are natural and/or naturalized. A detention pond east of 272 Street (the East Pond; also referred to as Interim Detention Ponds) was constructed in 2004 to an interim standard. DFO approved the expansion of the East Pond in the mid-2010s; however, that work has not been completed to date. The East Pond drains into a section of natural channel that is conveyed diagonally from the southeast of the 56 Avenue - 272 Street intersection to its northwest side. It then flows northward along the west side of 272 Street to the confluence with drainage from the West Pond and continues northward beyond the boundaries of the Gloucester Industrial Park.

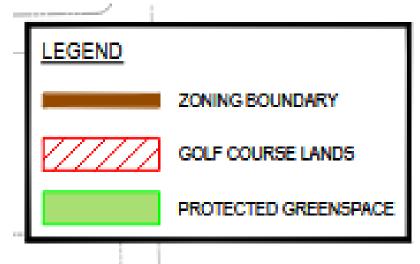
# 1.4 Development Objective

Beedie is proposing to rezone a portion of the Golf Course Lands from RU-10 and RU-1 to M-2A. The Golf Course Lands are comprised of one large lot (PID 024-650-617) of 36.05 ha (89.09 acres) and a smaller lot (PID 024-650625) of 0.24 ha (0.60 acres) located east of 275 Street. The development application also includes one lot outside of the Golf Course Lands. The lot east of 268 Street (PID 023-884-398) is currently zoned RU-10 and will also be rezoned to M-2A. Approximately 40 percent of the Golf Course Lands are proposed to be rezoned to M-2A with the remaining 60 percent to be transferred to the Township of Langley for ecological and stormwater management uses. Proposed zoning is shown n Figure 2B.

The Golf Course Lands are surrounded by developed industrial properties with the exception of several yet-to-be developed properties, and ALR land in the adjacent City of Abbotsford. The

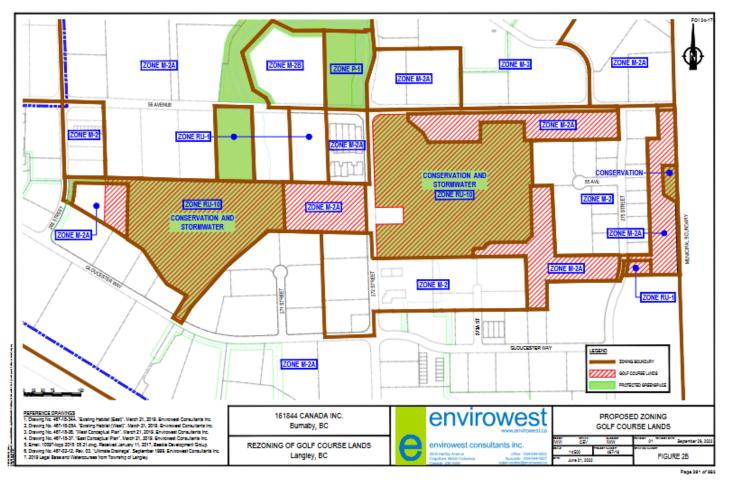
Golf Course Lands occur to the south of 56 Avenue, on both the east and wes

Figure 3 illustrates the boundaries of the Golf Course Lands.



# REFERENCE DRAWINGS

- 1. Drawing No. 467-18-34A. "Existing Habitat (East)". March 21, 2019. Envirowest Consultants Inc.
- 2. Drawing No. 467-18-35A. "Existing Habitat (West)". March 21, 2019. Envirowest Consultants Inc.
- 3. Drawing No. 467-18-36. "West Conceptual Plan". March 21, 2019. Envirowest Consultants Inc.
- 4. Drawing No. 467-18-37. "East Conceptual Plan". March 21, 2019. Envirowest Consultants Inc.
- 5. Email: 10097-topo 2015 05 21.dwg. Received January 11, 2017; Beedie Development Group.
- 6. Drawing No. 467-02-12. Rev. 03. "Ultimate Drainage". September 1999. Envirowest Consultants Inc.
- 2019 Legal Base and Watercourses from Township of Langley.

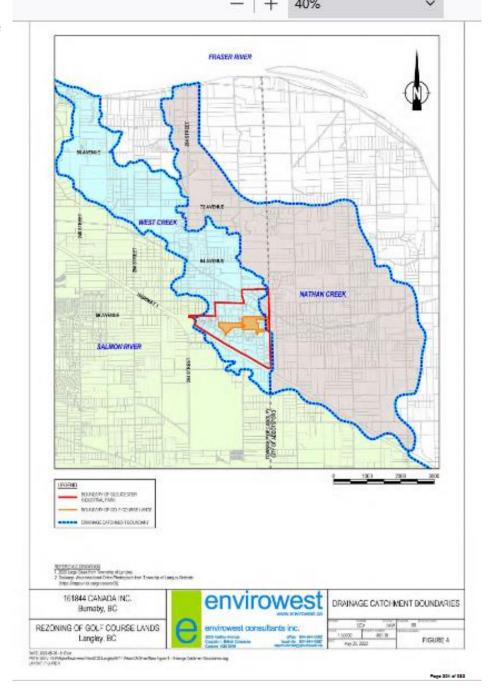


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# 2.1 Watershed Context

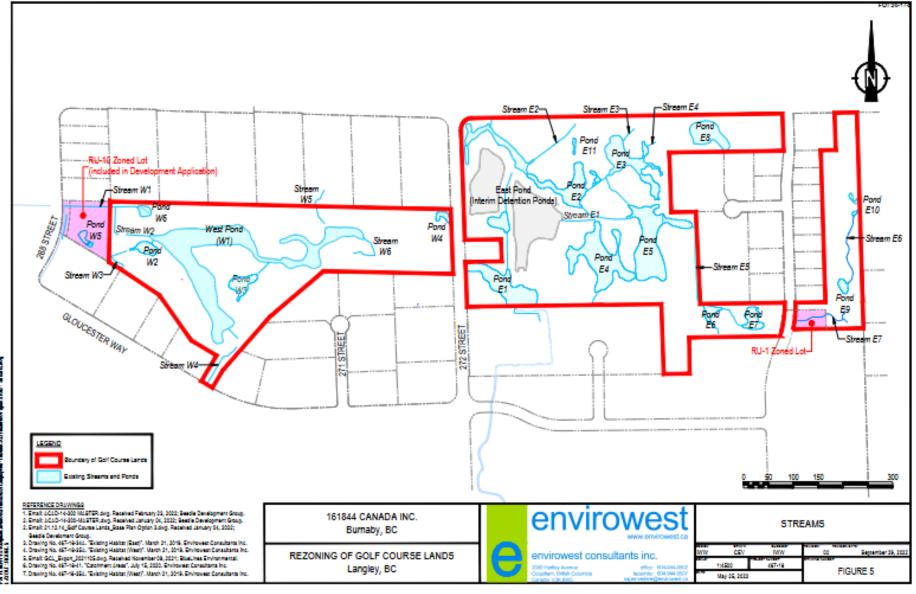
The Golf Course Lands are located primarily within the headwaters of West Creek, with a small eastern portion situated within the headwaters of Nathan Creek. These streams drain generally northward to the Fraser River and are both identified as sensitive streams under the Water Sustainability Regulation.

The location of the Gloucester Industrial Park (and Golf Course Lands) relative to watershed boundaries is depicted in Figure 4. Envirowest Drawing No. 467-18-41 (Attachment A) defines the catchment boundaries within the industrial park.



Ponds W4 and W5, and portions of Ponds W1 and W2 are proposed to be infilled. Streams W2, W3 and W6 are proposed to be infilled. The total proposed habitat losses west of 272 Street are 2,767 m2 of aquatic habitat and 10,667 m2 of riparian habitat. Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Available off-setting area for riparian (or potentially aquatic habitat) is 36,280 m2.

Ponds E6, E7, E8 and E9, as well as the eastern extension of Pond E5 are proposed to be infilled. Streams E2, E5 and streams adjacent to ponds E6 and E7 are proposed to be infilled. The total proposed habitat losses east of 272 Street are 7,104 m2 of aquatic habitat and 23,123 m2 of riparian habitat. Available off-setting area for riparian (or potentially aquatic habitat) is 13,358 m2. Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Note that the East Pond (interim detention ponds) area is excluded from this habitat balance and is addressed separately



# 3.4 Fish Distribution

West of 272 Street, only manmade habitat/drainage features occur south of 56 Avenue (except for a section of channel immediately south of 56 Avenue). Historical aerial imagery and mapping reflect only a small area of open water. However, extensive excavation and grading was undertaken in preparation for both the detention pond and golf course development, creating a large lentic (pond) ecosystem.

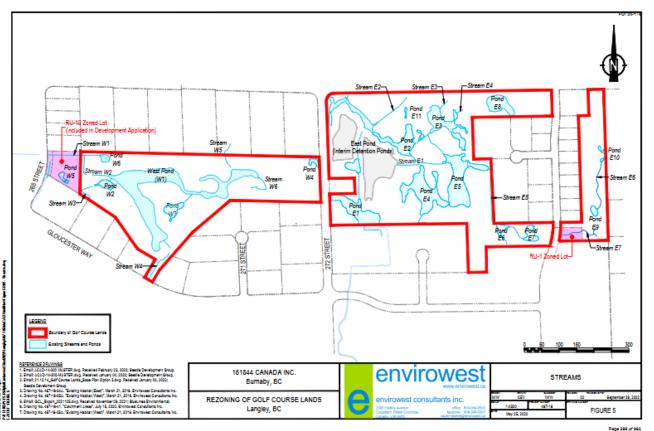
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Photograph 24. Beaver lodge on the shoreline of Pond W1 (West Pond) (April 5, 2017).

East of 272 Street, upstream of the East Pond, historical records indicate presence of coho salmon, cutthroat trout, threespine stickleback and crayfish (not identified to species). Beaver activity has likely eliminated access for juvenile salmonids into some areas. Sampling in and about the East Pond in 2018 captured only threespine stickleback where salmonids were previously captured.

West Creek continues approximately ten kilometres downstream and is confluent with the Fraser River upstream of MacMillan Island. Fish species known to inhabit West Creek include coho, chinook and chum salmon, coastal cutthroat and rainbow trout, threespine stickleback, prickly sculpin, lamprey and non-native brown catfish and brassy minnow.



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Ms. Teresa Hauson Proposed OCP Amendment and Rezoning Golf Course Lands at Gloucester, Langley, BC October 18, 2022

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## 12.3 Impact Summary

Ponds W4 and W5, and portions of Ponds W1 and W2 are proposed to be infilled. Streams W2, W3 and W6 are proposed to be infilled. The total proposed habitat losses west of 272 Street are 2,767 m<sup>2</sup> of aquatic habitat and 10,667 m<sup>2</sup> of riparian habitat. Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Available off-setting area for riparian (or potentially aquatic habitat) is 36,280 m<sup>2</sup>.

Ponds E6, E7, E8 and E9, as well as the eastern extension of Pond E5 are proposed to be infilled. Streams E2, E5 and streams adjacent to ponds E6 and E7 are proposed to be infilled. The total proposed habitat losses east of 272 Street are 7,104 m² of aquatic habitat and 23,123 m² of riparian habitat. Available off-setting area for riparian (or potentially aquatic habitat) is 13,358 m². Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Note that the East Pond (interim detention ponds) area is excluded from this habitat balance and is addressed separately.

A conceptual plan for proposed WSA/FA offsetting is depicted by Envirowest Drawing No. 467-18-57A (Attachment A). West of 272 Street new habitats include 10,978 m² of aquatic and 18,330 m² of riparian. An additional 980 m² of riparian habitat is converted from aquatic habitat. East of 272 Street an infiltration swale (treated herein as riparian habitat) will be created along the eastern boundary of the Golf Course Lands in association with an ALR buffer requirement.

A summarized habitat balance table for WSA/FA losses and gains is presented below.

Table 1. Impacts addressed by WSA and FA Authorizations

Habitat	Aquatic Habitat Area (m²)			Riparian Habitat Area (m²)		
Feature	Loss	Gain	Net	Loss	Gain	Net
Streams/wetlands	9,871	10,978	1,107			
RAPR SPEAs				33,790	31,546	-2,244
Converted	1,107	0	-1,107	0	1,107	1,107
Infilt'n swale				0	1,137	1,137
TOTALS:	10,978	10,978	0	33,790	33,790	0

A conceptual plan for proposed OCP Sch. 3 offsetting is depicted by Envirowest Drawing No. 467-18-57B. Infilling of streamside areas that are outside of RAPR setbacks include 23,263 m². New riparian habitats that are exclusive of those required to balance the loss of RAPR areas include 2,153 m² of additional streamside area (that will also require restoration/enhancement) and 42,870 m² of area inside streamside setbacks (also requiring restoration/enhancement). The latter is afforded only 50% credit. A nominal net gain of riparian area is proposed.

A summarized habitat balance table for OCP Sch. 3 losses and gains is presented below.

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# Nov 2023

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# 4.2.1 Impact Summary

Ponds W4 and W5, and portions of Ponds W1 and W2 are proposed to be infilled. Streams W2, W3 and W6 are proposed to be infilled. The total proposed habitat losses west of 272 Street are 2,767 m<sup>2</sup> of aquatic habitat and 10,667 m<sup>2</sup> of riparian habitat. Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Available off-setting area for riparian (or potentially aquatic habitat) is 36,280 m<sup>2</sup>.

Ponds E6, E7, E8 and E9, as well as the eastern extension of Pond E5 are proposed to be infilled. Streams E2, E5 and streams adjacent to ponds E6 and E7 are proposed to be infilled. The total proposed habitat losses east of 272 Street are 7,104 m² of squatic habitat and 23,123 m² of riparian habitat. Available off-setting area for riparian (or potentially aquatic habitat) is 13,358 m². Areas where aquatic habitat is infilled but redeveloped as riparian habitat are characterized as "converted". Note that the East Pond (interim detention ponds) area is excluded from this habitat balance and is addressed separately.

A conceptual plan for proposed offsetting is depicted by Envirowest Drawing No. 467-18-55 (Attachment A). West of 272 Street new habitats include 10,978 m<sup>2</sup> of aquatic and 18,330 m<sup>2</sup> of riparian. An additional 980 m<sup>2</sup> of riparian habitat is converted from aquatic habitat. East of 272 Street an infiltration swale (treated herein as riparian habitat) will be created along the eastern boundary of the Golf Course Lands in association with an ALR buffer requirement.

A summarized habitat balance table is presented below; a detailed habitat balance is provided in Attachment C.

Habitat	Aquatic H	labitat Area (	(m²)	Riparian Habitat Area (m²)				
Feature	Loss	Gain	Net	Loss	Gain	Net		
Streams/wetlands	9,871	10,978	1,107					
RAPR SPEAs				33,790	31,546	-2,244		
Converted	1,107	0	-1,107	0	1,107	1,107		
Infilt'n swale				0	1,137	1,137		
TOTALS:	10,978	10,978	0	33,790	33,790	0		

# 4.2.2 Habitat Descriptions for Proposed Infill Areas

The aquatic areas proposed to be infilled include a variety of habitat types. Ponds/wetlands proposed to be infilled include permanent and seasonal water bodies of various depths and exposure (forested or open areas). Several are isolated with no overland connectivity to other drainage features. Streams proposed to be infilled include permanent and seasonal features and exposure (forested or open areas). These are discussed below

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POI 23-026

Ms. Teresa Hauson Proposed OCP Amendment and Rezoning Golf Course Lands at Gloucester, Langley, BC October 18, 2022

r 18, 2022 Page 37 of 47

Table 2. Impacts addressed by OCP Schedule 3 Development Permit.

Habitat	Aquatic l	Habitat Area	(m <sup>2</sup> )	Riparian Ha	Riparian Habitat Area (m2)					
Feature	Loss	Gain	Net	Loss	Gain	Net				
OCP SPEAs				23,263	2,153	-21,110				
OCP SPEAs					42,870	21,435				
TOTALS:						325				

# 12.4 Habitat Descriptions for Proposed Infill Areas

The aquatic areas proposed to be infilled include a variety of habitat types. Ponds/wetlands proposed to be infilled include permanent and seasonal water bodies of various depths and exposure (forested or open areas). Several are isolated with no overland connectivity to other drainage features. Streams proposed to be infilled include permanent and seasonal features and exposure (forested or open areas). These are discussed below

# 12.4.1 Permanent Open Ponds

The eastern extent of Pond Wlis an open expanse of deep water whose banks are characterized by reed canarygrass (*Phalaris arundinacea*) and shrubs, with small red alders (*Alnus rubra*) on the north bank, and snags on the south bank. Parts of this pond are considered likely to be suitable for breeding by Pacific treefrog (*Pseudacris regilla*), but also by introduced American bullfrog (*Lithobates catesbeianus*) and green frog (*Lithobates clamitans*). Pond Wl is accessible to fish.

Pond W2 is a smaller, sun-exposed pond surrounded by trees on its west side, that is characterized by a deeper area of open water with shrubs and reed canarygrass growing in the water around the edge, and a shallower area characterized by denser reed canarygrass and common cattail (Typha latifblia) growing in the water. Pond W2 is considered suitable for breeding by northern redlegged frog (Rana aurora), Pacific treefrog, and northwestern salamander (Ambystoma gracile), but may also be suitable for American bullfrog and green frog. Oregon spotted frog (Rana pratiosa) is not expected to occur on site due to its decline at the nearest known occurrence location (Aldergrove), but shallow inundated areas around the edges of this pond are considered suitable for breeding by this species. Pond W2 is accessible to fish.

The eastern extent of Pond E5 is generally shallow with a deeper central area; its general character is marshy, with common cattail and small red alder trees growing in the water, along with reed canarygrass. Evidence of recent beaver activity is abundant. A great blue heron was observed foraging here. The location is considered suitable for breeding by northwestern salamander, Pacific treefrog and potentially northern red-legged frog, but likely also American bullfrog and green frog. Pond E5 is considered to be accessible to fish.

Pond E8 is of broadly similar character to the eastern extent of Pond W1 (i.e., open deeper water with reed canarygrass around the edges), but less of its banks have shrubs or trees. A small number of mature conifers occur at its west edge. A small amount of woody debris occurs in the pond, as do some submerged plants, but cattail is absent. This pond is expected to be used for breeding by

FOI 24-174

# Page 448 to 450

# ATTACHMENT B Species-at-Risk List

FOI 24-174

Table 1. Species at risk (provincially Red- or Blue-listed species, and species designated Special Concern, Threatened or Endangered by COSEWIC), considered to have some likelihood of occurrence on the subject Property. Acronyms: COSEWIC = Committee on the Status of Endangered Wildlife in Canada, SARA = Species at Risk Act, CDC = BC Conservation Data Centre, N/A = not applicable. 'N/A' in occurrences columns indicates that the species is not mapped by that resource, or that critical habitat does not exist for that species.

		Conservation Status		Potential Use of Property				Occurrences Within 5 km of Property's Midpoint					
Scientific Name	Common Name	BC List	COSEWIC	SARA Schedule 1	Reproduction	Foraging	Sheltering (e.g. Roosting, Over- wintering)	Dispersal / Migration	CDC Element Occurrence	E-Fauna BC / E-Flora BC (non-CDC records)	All Fish Points	BC Frogwatch Atlas	Critical Habitat
Amphibians and Reptiles													
Anaxyrus boreas	Western Toad	Yellow	Special Concern	Special Concern	1	1	1	1	N/A	-	N/A	-	N/A
Скгузетуз pieta pop. 1	Painted Turtle - Pacific Coast Population	Red	Threatened	Endangered	1	1	1	1	-	-	N/A	-	1
Rana aurora	Northern Red-legged Frog	Blue	Special Concern	Special Concern	1	1	1	1	(on Property)	-	N/A	-	N/A
Rana pretiosa	Oregon Spotted Frog	Red	Endangered	Endangered	1	1	1	1	-		N/A		1
Birds													
Ardea herodias fannini	Great Blue Heron, fannini subspecies	Blue	Special Concern	Special Concern	/	1	1	1	-	-	N/A	N/A	N/A
Asio flammeus	Short-eared Owl	Blue	Threatened	Special Concern	-	1	1	1	-	-	N/A	N/A	N/A
Botaurus lantiginosus	American Bittern	Blue	-	-	1	1	1	1	-	-	N/A	N/A	N/A
Butorides virescens	Green Heron	Blue	-	-	1	1	1	1	-	1	N/A	N/A	N/A
Contogus cooperi	Olive-sided Flycatcher	Blue	Special Concern	Threatened	1	1	1	1	N/A	-	N/A	N/A	N/A
Hirundo rustica	Barn Swallow	Blue	Special Concern	Threatened	-	-	1	1	N/A	-	N/A	N/A	N/A
Megascops kannicottii kannicottii	Western Screech-Owl, kennicottii subspecies	Blue	Threatened	Threatened	1	1	1	1	-	-	N/A	N/A	N/A
Nyeticorax nyeticorax	Black-crowned Night-heron	Red	-	-	1	*	1	1	-	-	N/A	N/A	N/A
Patagioenas fasciata	Band-tailed Pigeon	Blue	Special Concern	Special Concern	1	1	1	1	-	-	N/A	N/A	N/A
Progne subis	Purple Martin	Blue	-	-	-	1	1	1	-	-	N/A	N/A	N/A
Tyto alba	Barn Owl	Red	Threatened	Threatened	1	1	1	1	-	-	N/A	N/A	(on Property)

Table 1, continued.

		Co	onservation Status		Potential Use of Property				Occurrences Within 5 km of Property's Midpoint				
Scientific Name	Common Name	BC List	COSEWIC	SARA Schedule 1	Reproduction	Foraging	Sheltering (e.g. Roosting, Over- wintering)	Dispersal / Migration	CDC Element Occurrence	E-Fauna BC / E-Flora BC (non-CDC records)	All Fish Points	BC Frogwatch Atlas	Critical Habitat
Mammals													
Corynorhinus townsendii	Townsend's Big-eared Bat	Blue		-	-	*	1	*	-	-	N/A	N/A	N/A
	Snowshoe Hare, washingtonii subspecies	Red	-	-	/	*	1	1	-	-	N/A	N/A	N/A
	Long-tailed weasel, altifrontalia subspecies	Red	-	-	1	*	1	1	-	-	N/A	N/A	N/A
Myotis lucifugus	Little Brown Myotis	Yellow	Endangered	Endangered	1	*	1	1	N/A	-	N/A	N/A	-
Sorex bendirii	Pacific Water Shrew	Red	Endangered	Endangered	-	1	-	-	-	-	N/A	N/A	-
Sorex rohweri	Olympic Shrew	Red	-	-	-	1	1	1	-	-	N/A	N/A	N/A
Sorex trombridgii	Trowbridge's Shrew	Blue	-	-	-	1	1	-	-	-	N/A	N/A	N/A
Fishes													
Catostomus sp. cf. catostomus	Salish Sucker	Red	Threatened	Threatened	-	-	-	-		N/A		N/A	1
	Cutthroat Trout, elarkii subspecies	Blue	-	-	-	*	1	1	N/A	N/A	-	N/A	N/A
Rhinichthys cataractae	Nooksack Dace	Red	Endangered	Endangered	-	-	-	-		N/A	*	N/A	*
Molluscs													
Allogona townsendiana	Oregon Forestsnail	Red	Endangered	Endangered		*	1	*		-	N/A	N/A	*
Carychium occidentale	Western Thorn	Blue	-	-	1	*	1	1	-	-	N/A	N/A	N/A
Galba bulimoides	Prairie Fossaria	Blue	-	-	-	-	-	-	-	-	N/A	N/A	N/A
Galba dalli	Dusky Fossaria	Blue		-	-	1	-	-	N/A	-	N/A	N/A	N/A
Galba parva	Pygmy Fossaria	Blue		-	-	*	-	-	-	-	N/A	N/A	N/A

Table 1, continued.

	Common Name	Conservation Status		Potential Use of Property				Occurrences Within 5 km of Property's Midpoint					
Scientific Name		BC List	COSEWIC	SARA Schedule 1	Reproduction	Foraging	Sheltering (e.g. Roosting, Over- wintering)	Dispersal / Migration	CDC Element Occurrence	E-Fauna BC / E-Flora BC (non-CDC records)	All Fish Points	BC Frogwatch Atlas	Critical Habitat
Insects													
Erythemis collocata	Western Pondhawk	Blue		-	1	*	1	*	-	•	N/A	N/A	N/A
Eughyas vastris	Dun Skipper	Blue	Threatened	Threatened	1	1	1	1	-	•	N/A	N/A	-
Ophiogomphus occidentis	Sinuous Snaketail	Blue	-	-	1	1	1	1	N/A	-	N/A	N/A	N/A
Pachydiplax longipennis	Blue Dasher	Blue	-	-	1	1	1	1	-	-	N/A	N/A	N/A
Parnassius clodius claudianus	Clodius Parnassian, elaudianus subspecies	Blue	-	-	-	*	-	1	-	-	N/A	N/A	N/A
Sympetrum vicinum	Autumn Meadowhawk	Blue	-	-	1	1	1	1	-	-	N/A	N/A	N/A
Lichens				•									
Scytinium polycarpum	Peacock Vinyl	Yellow	Special Concern	Special Concern	-	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A
Vascular Plants													
Bidens amplissima	Vancouver Island Beggarticks	Blue	Special Concern	Special Concern	1	N/A	N/A	N/A	-	-	N/A	N/A	N/A
Nonvascular Plants													
Brotherella roellii	Roell's Brotherella	Red	Endangered	Endangered	-	N/A	N/A	N/A	-	1	N/A	N/A	-

#### Data Sources:

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- Klinkenberg, B. (ed.) 2021. E-Fauna BC: Electronic Atlas of the Fauna of British Columbia [efauna bc.ca]. Lab for Advanced Spatial Analysis, Department of Geography, University of British Columbia, Vancouver, BC. https://linnet.geog.ubc.ca/biodiversity/efauna/ (04/06/2022)
- Klinkenberg, B. (ed.) 2020. E-Flora BC: Electronic Atlas of the Plants of British Columbia [eflora.bc.ca]. Lab for Advanced Spatial Analysis, Department of Geography, University of British Columbia, Vancouver, BC. https://linnet.geog.ubc.ca/biodiversity/eflora/ (04/06/2022)

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Park. The two storm ponds have been severely degraded by beaver activities that have reduced the storage capacity and functionality of the ponds. The Beaver Management Plan will illustrate inform management considerations and provide an overview of mitigation strategies for the management of North American beavers (Castor canadensis) within the Gloucester Stormwater Detention Ponds Complex. Photograph 29 shows a beaver dam located at Stream E2; photographs 30 and 31 illustrate damage caused by beavers.



Photograph 29. Beaver dam at Stream E2 near the East Pond (September 23, 2021).

# 12.6.1 Objectives

The overarching objective of this beaver management strategy is to provide a high-level document that will be used to assist with the restoration and maintenance of the stormwater ponds. To meet these objectives the modified ponds will need to work with beavers through the use of flow conveyance devices that allow for manipulation of water levels. Water levels are key for ensuring success of the proposed habitat compensation and ensure protection of downstream habitats (ponds and properties from flash precipitation events). The strategy will also provide an overview of the relevant regulatory frameworks as they apply to beaver management, to outline the ecology of beavers, to describe both the ecological benefits and impacts to urban infrastructure and to summarize the common mitigation strategies utilized in managing the impacts associated with beaver activities.

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#### 7 BEAVER MANAGEMENT

EBB Environmental Consulting Inc. (EBB) was retained by the Beedie Group of Companies (Beedie) to prepare a beaver management strategy, which is intended to compliment the restoration works that are designed to enhance the existing storm pond function for the Gloucester Industrial Park. The two storm ponds have been severely degraded by beaver activities that have reduced the storage capacity and functionality of the ponds. The Beaver Management Plan will illustrate inform management considerations and provide an overview of mitigation strategies for the management of North American beavers (Castor canadensis) within the Gloucester Stormwater Detention Ponds Complex. Photograph 29 shows a beaver dam located at Stream E2; photographs 30 and 31 illustrate damage caused by beavers.



Photograph 29. Beaver dam at Stream E2 near the East Pond (September 23, 2021).

# 7.1 Objectives

The overarching objective of this beaver management strategy is to provide a high-level document that will be used to assist with the restoration and maintenance of the stormwater ponds. To meet these objectives the modified ponds will need to work with beavers through the use of flow conveyance devices that allow for manipulation of water levels. Water levels are key for ensuring success of the proposed habitat compensation and ensure protection of downstream habitats (ponds and properties from flash precipitation events). The strategy will also provide an overview of the relevant regulatory frameworks as they apply to beaver management, to outline the ecology of beavers, to describe both the ecological benefits and impacts to urban infrastructure and to summarize the common mitigation strategies utilized in managing the impacts associated with beaver activities.

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township-of-langley-foi-24-174.pdf



Photograph 25. Aerial view of the West Pond, looking west (May I, 2021).



Photograph 2s. Ground level view of the Worl Pond (January 21, 202).



Photograph 27. Acrial time of the East Pond, looking south (August 17, 2021).

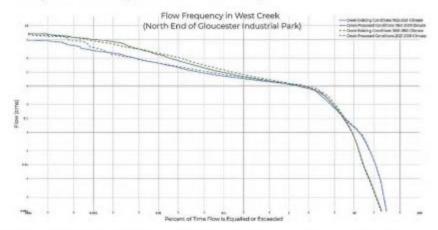
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Photograph 28. Ground treat view of the East Pond (January 27, 2022).

be a positive outcome as it will provide the creek with more frequent, more sustained base flows that are well below the likely erosion threshold, while limiting potentially damaging high flows above 0.6 m³/s. Also shown by the graphs, the **proposed** condition with climate change (2021-2100) shows less frequency of flows above 0.6 m³/s than the existing condition without climate change (1962-2021). This demonstrates that the proposed works not only mitigate proposed development, but also mitigate the effects of climate change.



The results for the West Pond have a similar pattern but it has a more distinct transition from more frequent to less frequent flows. This is because of the absence of a weir or orifice on the existing control structure. By adding the proposed orifice, low flows will be sustained for a much longer period of time, whereas higher flows will be restricted to a far greater extent. The only exception is for flow around 2 m³/s, where modelling suggests more frequency in the future, but still a very rare event. This exception only applies to the future climate condition (2021-2100) demonstrating that the proposed works are sufficient to mitigate proposed development but not fully capable of mitigating against the rare storms associated with climate change alone. Note also that this pond was never designed for an event greater than 1:25 years.

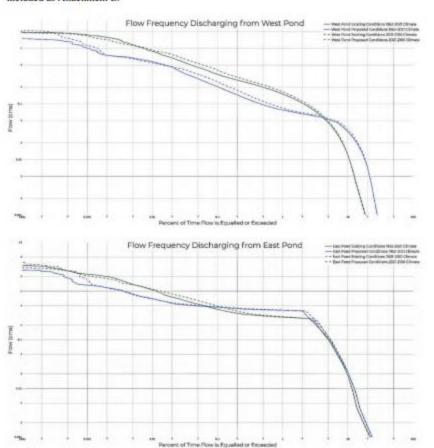
For the East Pond, the existing 1:2 year peak flow is  $0.7 \text{ m}^3/\text{s}$ , with the 6 month flow then being estimated at  $0.5 \text{ m}^3/\text{s}$ . Again, in the absence of rigorous sediment transport analysis,  $0.5 \text{ m}^3/\text{s}$  is suggested as being the safe threshold for considering risk to erosion. Between of flow of  $0.3 \text{ and } 0.5 \text{ m}^3/\text{s}$  there will be an increase in discharge frequency as a result of the pond being less restrictive at low flows in order to optimize its performance for the larger damaging flows. Above  $0.5 \text{ m}^3/\text{s}$  the proposed condition once again shows less frequency than the existing condition, except for future conditions around  $3 \text{ m}^3/\text{s}$  where, like the West Pond, climate change will cause in increase for very rare events.

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# 5.4 East Pond Improvements

While no physical works are proposed at the West Pond (only control structure modifications) the East Pond will be enlarged and regraded to achieve the design capacity of approximately 99,000 m<sup>3</sup>. This work is in accordance with the previous DFO Authorization that acknowledged the commitment to complete these works; a new DFO Authorization will be obtained.

Grading plans and details have been developed by Aplin & Martin Consultants Ltd. and are included as Attachment E.



Habitat	Aquatic Ha	bitat Area (m	r²)	Riparian Habitat Area (m <sup>2</sup> )					
Feature	Loss	Gain	Net	Loss	Gain	Net			
Streams/wetlands	9,871	10,978	1,107						
RAPR SPEAs				33,790	31,546	-2,244			
Converted	1,107	0	-1,107	0	1,107	1,107			
Infilt'n swale				0	1,137	1,137			
TOTALS:	10,978	10,978	0	33,790	33,790	0			

Most of the proposed offsetting will occur west of 272 Street; proposed impacts are summarized below:

- Development of 10,978 m<sup>2</sup> of new aquatic habitats;
- Protection and enhancement of 18,330m<sup>2</sup> of riparian habitat outside of RAPR SPEAs;
- Conversion of 980 m<sup>2</sup> of aquatic habitat to riparian habitat;
- 4. Infilling of 2,767 m2 of aquatic habitat (streams, ponds and wetlands); and
- Infilling of 10,667 m<sup>2</sup> of riparian habitat (defined by RAPR SPEAs).

East of 272 Street proposed habitat impacts include the following:

- 6. Protection of 13,216 m2 of high value riparian habitat outside of RAPR SPEAs;
- Conversion of 127 m<sup>2</sup> of aquatic habitat to riparian habitat;
- Construction of an infiltration swale (1,137 m<sup>2</sup>);
- 9. Infilling of 7,104 m2 of aquatic habitat (streams, ponds and wetlands); and
- Infilling of 23,123 m<sup>2</sup> of riparian habitat (defined by RAPR SPEAs).

The total gains and losses of both aquatic and riparian habitats balance within an overall protected area of 21.7 ha (53.6 acres), or approximately 40% of the Golf Course Lands. Most of the offsetting is proposed west of 272 Street within previously disturbed areas of limited habitat value (predominantly invasive vegetation). All proposed habitats will be designed and landscaped to provide high value and diverse habitats that will support all fish and wildlife species presently occupying the Golf Course Lands, with emphasis on native species and species-at-risk.

# 8.3 Offset Implementation and Effectiveness Monitoring

The project involves the rezoning of the Golf Course Lands to allow industrial development on approximately 60 percent (14.6 ha or 36.1 acres) while retaining/improving stormwater

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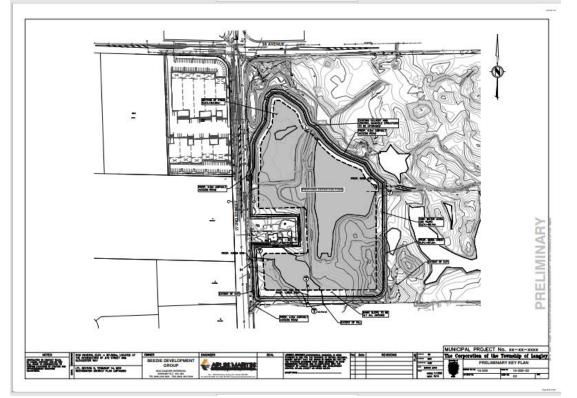
Habitat	Aquatic Ha	bitat Area (m	n <sup>2</sup> )	Riparian Habitat Area (m <sup>2</sup> )				
Feature	Loss	Gain	Net	Loss	Gain	Net		
Streams/wetlands	9,871	10,978	1,107					
RAPR SPEAs				33,790	31,546	-2,244		
Converted	1,107	0	-1,107	0	1,107	1,107		
Infilt'n swale				0	1,137	1,137		
TOTALS:	10,978	10,978	0	33,790	33,790	0		

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The East Pond, as it currently exists, was intended only as an interim pond. This pond is to be expanded and a new control structure built to service six of the new lots. Analysis shows that peak flows in West Creek downstream of the development will improve significantly over current conditions and meet the original criteria of the development. The maximum permissible flow in West Creek immediately north of the Gloucester Industrial Park based on its original approval was 2.58 m<sup>3</sup> /s for the 25 year event. Applying the same historic design event today, the peak flow in the proposed condition would be 2.4 m 3/s, thereby satisfying the original criteria for West Creek. Analysis also shows that peak flow in West Creek will be significantly reduced from current levels when applying current design storms, thereby also meeting current criteria. And finally, continuous simulation shows that flow frequency above potentially damaging flows (using the 6 month, 24 hour event as the benchmark) will decrease with the proposed works, whereas the flow frequency below potentially damaging flows will increase. Both of these are positive outcomes for the health of West Creek



# https://www.youtube.com/watch?v=A6xie0URhcA



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