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**Table 1. Selected Details about Other Three Wells in the Northwest Part of D.L. 1499, at Myrtle Point**

Well No.	Completion Depth		Static Water Level		Aquifer Litholog and Well Completion	Driller's Litholog				Remarks	
						Interval		Sediment Description			
	m	ft	m	ft		m	ft				
Myrtle Creek Estates Well 1-05	30.5	100	13.2	43.3	Sand and gravel aquifer; completed with 6.7 m (22 ft) of well screen assembly which includes 150 mm (5") nominal diameter steel well screen with slot sizes ranging from 0.635 to 0.762 mm (0.025 to 0.030"). The screen assembly was set between 23.9 and 30.5 m (78.3 to 100 ft).	0.0 - 0.6	0 - 2	fill	150 mm (6") diameter well; tested on March 10, 2005 at a constant rate of 1.04 l/sec (13.7 igpm; 16.5 USgpm).  Capacity rated at 0.696 l/sec (9.2 igpm; 11.0 USgpm); however, continuous pumping of Well 1-05 at a rate as high as 1.04 l/sec (13.7 igpm; 16.5 USgpm) for up to 4 hours to meet peak demand periods, should be of no concern.		
			(03/10/05)			0.6 - 6.7	2 - 22	brown hardpan and till, layered			
						6.7 - 8.2	22 - 27	grey blue hardpan with boulders			
						8.8 - 14.0	27 - 46	brown till with boulders and gravel, layered			
						14.0 - 15.5	46 - 51	brown silt and sand with minor gravel, soft; wet			
			13.18	43.2				brown hardpan			
			(08/14/06)			15.5 - 17.4	51 - 57	reddish brown gravel; wet			
						17.4 - 17.8	57 - 58.5	brown silt and clay, compacted			
						17.8 - 18.0	58.5 - 59	grey brown silt, packed			
						18.0 - 23.2	59 - 76	grey blue silty sand with fine gravel; water-bearing			
			12.86	42.2				23.2 - 25.0		76 - 82	clean sand; water bearing
			(02/11/08)			25.0 - 26.2	82 - 86	grey blue gravel and tilly silt, packed			
						26.2 - 26.8	86 - 88	sand and silt, layered			
						26.8 - 29.3	88 - 96	grey blue medium sand and fine gravel; water-bearing			
						29.3 - 29.9	96 - 98	grey blue clay			
						29.9 - 30.3	98 - 99.5	grey till			
						30.3 - 31.1	99.5 - 102	grey silt, packed			
						31.1 - 32.3	102 - 106	grey silt, sand and gravel, with clay layers, packed			
						32.3 - 33.2	106 - 109	silt with minor sand and gravel, layered			
						33.2 - 34.4	109 - 113	sand and gravel; water-bearing			
						34.4 - 34.6	113 - 113.5	silt, sand and stones, packed			
						34.6 - 35.1	113.5 - 115	grey blue silt, sand and gravel; water-bearing			
						35.1 - 35.4	115 - 116	grey blue silt, sand and stones, packed			
						35.4 - 40.2	116 - 132	grey clay and sand, layered; dry			
						40.2 - 42.1	132 - 138	grey silt, sand and stones with minor clay, layered; dry.			
		42.1 - 45.9	138 - 150								

## FW: Application Tracking #100187710 - Myrtle Point (100231111)

From: Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>  
To: Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>  
Sent: May 21, 2019 9:47:10 AM PDT  
Attachments: image001.png

Applies to file 100231111 as well. See highlighted below. Asking client to include this well on the other application since it is on the same parcel of land - same title.

---

**From:** Craddock, Cynthia L FLNR:EX  
**Sent:** Wednesday, May 15, 2019 12:37 PM  
**To:** 'Katherine Maycher'  
**Subject:** Application Tracking #100187710 - Myrtle Point

Hi Katherine, thank you for the above noted application on behalf of the PRRD. There are a few questions for this file. From the information provided, it appears there are 4 wells on this property as noted below, and we will require the information for all four wells.

- 1) W Tag Record 102370 = W93 well drilled in 1993, capped but still used for filling fire trucks. (separate application – Misc. industrial)
- 2) W Tag Record 49911 = Adamson well drilled in 1982, abandoned / collapsed.
- 3) ?? = W1-05 drilled in 2004 (part of current application for Waterworks)
- 4) W Tag Record 95437 = W1-08 drilled in 2008 (part of current application for Waterworks)

Can you confirm the above is correct?

Missing Information required:

- Could you please provide the well record for well W1-05.
- Please provide the co-ordinates for the abandoned/collapsed well 49911.
- Please provide a map that has all four wells noted.

\*\*\*Also, please advise why there is a separate application for the W93 well for fire trucks since well is on the same property (Application Tracking#100231111)?

Thanks,



Cynthia Craddock  
A/Natural Resource Specialist, FrontCounter BC  
Ministry of Forests, Lands, Natural Resource Operations and Rural Development  
South Coast Natural Resource Region  
200 – 10428 153<sup>rd</sup> Street, Surrey BC, V3R 1E1  
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## Re: Application Tracking #100187710 - Myrtle Point

---

From: Katherine Maycher <kmaycher@gwsolutions.ca>  
To: Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>  
Sent: May 31, 2019 9:30:16 AM PDT  
Attachments: Well No 1 (WTN 49911) and Well No 2 (W-93) details.pdf, Schematic of Existing Water Systems April 2005.png, WTN 49911\_Well Record.pdf, Email .png, Well 1-05 details.pdf, ATT00003.htm, ATT00004.htm, ATT00002.htm, ATT00001.htm, ATT00005.htm

Hi Cynthia,

I just wanted to let you know I am working on getting the information you have requested. Here is some info I have found so far on W1-05 and WTN 49911 (abandoned well). Mike Wall at the regional district is working on getting the coordinates for WTN 49911. I'm pretty sure it's very close to W2-08. I made a separate application for W-93 because I was advised to do so by another Natural Resource Specialist (see attached email).



**Table 1. Selected Details about Other Three Wells in the Northwest Part of D.L. 1499, at Myrtle Point (Cont'd)**

Well No.	Completion Depth		Static Water Level		Aquifer Litholog and Well Completion	Driller's Litholog			Remarks
						Interval		Sediment Description	
	m	ft	m	ft		m	ft		
Myrtle Pond Well No. 1	68.6	225	20.1	66.1	Sand and gravel aquifer; completed with plastic casing slotted between 30.5 and 42.7 m (100 and 140 ft) and 61.0 and 67.1 m (200 and 220 ft).	0.0 - 4.6 4.6 - 13.7 13.7 - 28.3 28.3 - 38.1  38.1 - 45.1  45.1 - 59.4 59.4 - 68.6	0 - 15 15 - 45 45 - 93 93 - 125  125 - 148  148 - 195 195 - 225	surface till and brown clay clay and boulder till coarse gravel and boulder till angular and round rocks with fine gravel and trace of grey clay coarse and fine sand, with angular rocks and some grey clay clay till angular rocks with some medium sand and trace of grey clay.	150 mm (6") diameter well; deteriorated in summer of 1992, indicating probable formation collapse. Capacity is reported to have declined.
Myrtle Pond Well No. 2	163.1	535	23.9 (1993)  ~25(?) ~82(?)  (02/11/08)	78.3	Rock fractures at 133.5, 138.7 and 158.5 m (438, 455 and 520 ft) in bedrock. Open hole completion with well casing to 30.5 m (100 ft).	0.0 - 5.5 5.5 - 10.4 10.4 - 17.7 17.7 - 27.1 27.1 - 29.3 29.3 - 38.4 38.4 - 40.2 40.2 - 48.5 48.5 - 66.1 66.1 - 67.4 67.4 - 71.6  71.6 - 94.2 94.2 - 100.0 100.0 - 103.6 103.6 - 116.1 116.1 - 163.1	0 - 18 18 - 34 34 - 58 58 - 89 89 - 96 96 - 126 126 - 132 132 - 159 159 - 217 217 - 221 221 - 235  235 - 309 309 - 328 328 - 340 340 - 381 381 - 535	stoney top soil and brown clay brown silty sand and gravel sand and gravel, loose very silty grey gravel (till-like); wet grey clay and silty layers layers of till and clay very fine silty sand; wet silty clay silty with vegetation; wet fine sand; water-bearing silty, very fine sand with layers of clay; water-bearing clay till and boulders till and layers of sand, tight sand and gravel, cemented shale with minor sandstone.	150 mm (6") diameter well; tested on September 20, 1993 at a constant rate of 1.82 l/sec (24.0 igpm; 28.8 USgpm).  Theoretical capacity exceeds the test rate of 1.82 l/sec (24.0 igpm; 28.8 USgpm); however, under prevailing conditions, Myrtle Pond Well No. 2 should not be pumped at rates higher than the test rate without further testing.  Well No. 2 has been supplying groundwater to about 45 connections.

- Notes: 1. All the measurements are referenced to ground surface, except for the static water level which is referenced to the top of the well casing.  
2. Well locations are shown on a 1:9,080 scale subdivision layout, included as Figure 2 in Appendix A.

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**Table 1. Selected Details about Other Three Wells in the Northwest Part of D.L. 1499, at Myrtle Point**

Well No.	Completion Depth		Static Water Level		Aquifer Litholog and Well Completion	Driller's Litholog				Remarks
						Interval		Sediment Description		
	m	ft	m	ft		m	ft			
Myrtle Creek Estates Well 1-05	30.5	100	13.2	43.3	Sand and gravel aquifer; completed with 6.7 m (22 ft) of well screen assembly which includes 150 mm (5") nominal diameter steel well screen with slot sizes ranging from 0.635 to 0.762 mm (0.025 to 0.030"). The screen assembly was set between 23.9 and 30.5 m (78.3 to 100 ft).	0.0 - 0.6	0 - 2	fill brown hardpan and till, layered grey blue hardpan with boulders brown till with boulders and gravel, layered brown silt and sand with minor gravel, soft; wet brown hardpan reddish brown gravel; wet brown silt and clay, compacted grey brown silt, packed grey blue silty sand with fine gravel; water-bearing clean sand; water bearing grey blue gravel and tilly silt, packed sand and silt, layered grey blue medium sand and fine gravel; water-bearing grey blue clay grey till grey silt, packed grey silt, sand and gravel, with clay layers, packed silt with minor sand and gravel, layered sand and gravel; water-bearing silt, sand and stones, packed grey blue silt, sand and gravel; water-bearing grey blue silt, sand and stones, packed grey clay and sand, layered; dry grey silt, sand and stones with minor clay, layered; dry.	150 mm (6") diameter well; tested on March 10, 2005 at a constant rate of 1.04 l/sec (13.7 igpm; 16.5 USgpm).  Capacity rated at 0.696 l/sec (9.2 igpm; 11.0 USgpm); however, continuous pumping of Well 1-05 at a rate as high as 1.04 l/sec (13.7 igpm; 16.5 USgpm) for up to 4 hours to meet peak demand periods, should be of no concern.	
			(03/10/05)	0.6 - 6.7		2 - 22				
			13.18	43.2		6.7 - 8.2	22 - 27			
						8.8 - 14.0	27 - 46			
						14.0 - 15.5	46 - 51			
						15.5 - 17.4	51 - 57			
			(08/14/06)			17.4 - 17.8	57 - 58.5			
						17.8 - 18.0	58.5 - 59			
			12.86	42.2		18.0 - 23.2	59 - 76			
						23.2 - 25.0	76 - 82			
			(02/11/08)			25.0 - 26.2	82 - 86			
						26.2 - 26.8	86 - 88			
						26.8 - 29.3	88 - 96			
						29.3 - 29.9	96 - 98			
						29.9 - 30.3	98 - 99.5			
						30.3 - 31.1	99.5 - 102			
						31.1 - 32.3	102 - 106			
						32.3 - 33.2	106 - 109			
						33.2 - 34.4	109 - 113			
						34.4 - 34.6	113 - 113.5			
						34.6 - 35.1	113.5 - 115			
						35.1 - 35.4	115 - 116			
						35.4 - 40.2	116 - 132			
						40.2 - 42.1	132 - 138			
						42.1 - 45.9	138 - 150			

B - 4

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)  
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On May 15, 2019, at 12:37 PM, Craddock, Cynthia L FLNR:EX  
<[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)> wrote:

Hi Katherine, thank you for the above noted application on behalf of the PRRD. There are a few questions for this file. From the information provided, it appears there are 4 wells on this property as noted below, and we will require the information for all four wells.

- 1) W Tag Record 102370 = W93 well drilled in 1993, capped but still used for filling fire trucks. (separate application – Misc. industrial)
- 2) W Tag Record 49911 = Adamson well drilled in 1982, abandoned / collapsed.
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- 4) W Tag Record 95437 = W1-08 drilled in 2008 (part of current application for Waterworks)

Can you confirm the above is correct?

Missing Information required:

- Could you please provide the well record for well W1-05.
- Please provide the co-ordinates for the abandoned/collapsed well 49911.
- Please provide a map that has all four wells noted.

\*\*\*Also, please advise why there is a separate application for the W93 well for fire trucks since well is on the same property (Application Tracking#100231111)?

Thanks,

<image001.png>

**Cynthia Craddock**  
**A/Natural Resource Specialist, FrontCounter BC**  
**Ministry of Forests, Lands, Natural Resource Operations and Rural Development**  
South Coast Natural Resource Region  
200 – 10428 153<sup>rd</sup> Street, Surrey BC, V3R 1E1  
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## RE: Existing Use Groundwater Application 100231111 / 100187710 - both received November 2017

---

From: Wang, Shirley FLNR:EX <Shirley.Wang@gov.bc.ca>  
To: Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>  
Sent: June 21, 2019 2:07:03 PM PDT  
Attachments: image001.png

Hi Cynthia,

Thank you for the detailed email. From my understanding, it appears that:

- qathet Regional District (aka Powell River) has three wells located on the same property, which they have been using for waterworks (local provider) purpose to serve the Myrtle Bay Community.
- In 2015, one well (W93) was capped and is currently no longer in service, but qathet Regional District is keeping it, and would like to use it for fire protection in the future

I think from the 3 great options that you listed, Option 3 (cancel 100231111 and add W93 to the waterworks application) would work best for this case. because Ross received some direction from policy a while back, and waterworks (local provider) purpose include considerations for fire protection, so qathet Regional District doesn't require a separate purpose for fire protection.

I hope this helps, please feel free to let me know if anything doesn't make sense, and I hope you have a great weekend!

Shirley

---

**From:** Craddock, Cynthia L FLNR:EX  
**Sent:** Friday, June 21, 2019 12:35 PM  
**To:** Wang, Shirley FLNR:EX  
**Subject:** Existing Use Groundwater Application 100231111 / 100187710 - both received November 2017

Hi Shirley, I am working on the above noted applications. They are both for the same applicant, the Powell River Regional District. There are 3 wells in total and all are on the same property, but 2 are on one application and 1 on the other.

- 100187710 is for 2 wells (W1-05 & W2-08) for Waterworks Local Provider – for the Myrtle Bay Community – 61,361 m3/year.
- 100231111 is for 1 well (W93) for filling fire trucks – 600 m3/year - that is on the same property as above. It was originally one of the wells that provided water to the community but it was capped / closed because of complaints on the water quality with too much THM. A new well (W2-08) was drilled for the community and is one of the wells that is on the other above application 100187710. The Powell River Regional District still wants to use the W93 on this application 100231111 to fill fire trucks. The application 100231111 notes that “this well (W93) is used for filling fire trucks”. And, “In August 2015, well W93 was capped and the power source was removed. The well (W93) is closed but is still used to fill fire trucks.” There is a letter from VCH that confirms the closure of old well (W93) – capped, power source removed and no longer connected to the Waterworks connection.

Since 2017, there is now a new PRRD employee is involved. My dilemma is that in emails with the consultant, I questioned why this well93 was not on the other application 100187710 when it was on the same property. It was then mentioned in subsequent emails that this Well93 is not being used but that they plan to use it in future for fire protection. I then asked to clarify that, but because it is a different person at PRRD, I can't truly confirm whether W93 has ever been used to fill fire trucks before 2016.

Options: 1) Accept 10023111 application as an existing use application.

- 2) Cancel application and ask them to submit this as a new application because of new purpose (but they say not currently using and so can't prove beneficial use)
- 3) Cancel application and add this well to the Waterworks application so it is all under the same.

Could you advise?

Thanks,



**Cynthia Craddock**  
**Natural Resource Specialist**  
**South Coast Natural Resource Region**  
**FrontCounter BC | Forests, Lands, Natural Resource Operations**  
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## **RE: Existing Use Application Tracking #T#100231111 - Myrtle Point (W-93 )**

---

From: Craddock, Cynthia L FLNR:EX  
\$15  
To: Katherine Maycher  
Sent: June 25, 2019 10:11:55 AM PDT  
Attachments: image001.png

Hi Katherine – I realize my previous email lacked some crucial information.

This is the information provided to me by the Water Officer after I questioned on how to proceed with this application:

- “I think from the options that you listed, Option 3 (cancel 100231111 and add W93 to the waterworks application) would work best for this case. Because we received some direction from policy a while back, and **waterworks (local provider) purpose include considerations for fire protection**, so qathet Regional District doesn’t require a separate purpose for fire protection.”

I understand that the W93 is not tied to the Waterworks as providing water for the community since it has been completely removed from that system, but is only for possible fire protection for the community as a stand alone well. Under the purpose Waterworks, policy allows that water can also be used for fire protection. It doesn’t have to be attached to the system, but as it is on the same property and could be used for the same community for fire protection, we can put this well under that application.

I trust this provides a bit more clarity. I will cancel application T#100231111 and add this well to application T#100187710.

Thanks,



**Cynthia Craddock**  
**Natural Resource Specialist**  
**South Coast Natural Resource Region**  
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**From:** Katherine Maycher <kmaycher@gwsolutions.ca>  
**Sent:** June 24, 2019 4:24 PM  
**To:** Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>  
**Subject:** Re: Existing Use Application Tracking #T#100231111 - Myrtle Point (W-93 )

From Mike:

We will not ever put W93 back into Myrtle Water potable water service again as it is low production and different treatment requirement than the other two in service wells. The well will either stay closed or at best be used for Fire Service only.

So whichever way addresses this description best I would suggest we go with.

Best Regards,

Katherine

**GW Solutions Inc.**



Katherine Maycher  
Office Manager

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On Jun 24, 2019, at 2:35 PM, Craddock, Cynthia L FLNR:EX <[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)> wrote:

Hi Katherine, I discussed these two applications with the Groundwater Officer and they advised that we should put this well W93 under the Waterworks application and cancel the fire truck one. Otherwise we will have to cancel and ask PRRD to submit this application as a New application and not as an Existing Use application. However, with a new application, beneficial use must be presented - and since they are not even using the water, it is possible that the application could be rejected.

So can you confirm with PRRD that we can cancel application 10023111 (fire truck application) and add it to the 100187710 – (waterworks) Myrtle Point application?

Thanks,

<image001.png>

**Cynthia Craddock**  
**Natural Resource Specialist**  
**South Coast Natural Resource Region**  
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**From:** Katherine Maycher <[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)>

**Sent:** June 24, 2019 1:56 PM

**To:** Craddock, Cynthia L FLNR:EX <[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)>

**Subject:** Re: Existing Use Application Tracking #T#100231111 - Myrtle Point (W-93 )

Hi Cynthia,

I asked Mike if W93 was used for filling fire trucks prior to it going offline...he still didn't answer the question. I think what Shawn told me about it being still used to fill fire trucks was incorrect. This was Mike's response:

W93 is no longer part of the Myrtle Water Source and is offline and locked. Conversation with VCH in 2014 was that this well may be used for Fire Service (only) in the future. This has not happened yet.

**Mike Wall**, RFT  
Manager of Asset Management and Strategic Initiatives

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

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[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)  
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On Jun 21, 2019, at 9:37 AM, Katherine Maycher <[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)> wrote:

Hi Cynthia,

Sorry for all the confusion about W93. I'm sort of confused about it myself. Shawn, who was helping me with the application a couple of years ago, told me the well was used for filling fire trucks. Mike Wall, who is helping me now, told me it was taken off line in 2014-2015 and could potentially be used in the future for filling fire trucks. I don't believe it was

ever used for filling fire trucks, it's just an option in the future. W93 used to be the supply well, but was replaced by W1-05 and W2-08.

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
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When addressed to a client of GW Solutions Inc. any opinions or advice contained in this e-mail are subject to the terms and conditions of the confirmation of assignment agreement.*

On Jun 20, 2019, at 4:26 PM, Craddock, Cynthia L FLNR:EX  
<[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)> wrote:

Hi Katherine – just need to clarify one more thing about Well 93 on Existing  
Use Groundwater Application Tracking #10023111 – Myrtle Point.

It is noted below that it has been closed and they are not using it. PRD  
would like to keep it for Fire Protection – used to fill fire trucks.

From application:

“In August 2015, well W93 was capped and the power source was  
removed. The well is closed but is still used to fill fire trucks.”

Can you clarify what is meant by “well is closed but is still used”? Can you  
confirm that the well has been used to fill fire trucks before March 2016?

If you have any questions, please do not hesitate to contact me.

Thanks,

<image001.png>

**Cynthia Craddock**  
**Natural Resource Specialist**  
**South Coast Natural Resource Region**  
**FrontCounter BC | Forests, Lands, Natural Resource Operations**  
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**From:** Katherine Maycher <[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)>

**Sent:** June 4, 2019 1:29 PM

**To:** Craddock, Cynthia L FLNR:EX <[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)>

**Subject:** Re: Application Tracking #100187710 - Myrtle Point (W-93 - T#100231111)

Yes, their plan is to use it in the future, but only for fire protection.

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)  
[www.gwsolutions.ca](http://www.gwsolutions.ca)

Unit 201 - 5180 Dublin Way, Nanaimo, BC, V9T 0H2

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On Jun 3, 2019, at 11:29 AM, Craddock, Cynthia L FLNR:EX  
<[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)> wrote:

Hi Katherine, yes if they would like to use it at all in the future  
then it should be licenced.

Thanks, Cynthia

---

**From:** Katherine Maycher [<mailto:kmaycher@gwsolutions.ca>]  
**Sent:** Monday, June 3, 2019 11:05 AM  
**To:** Craddock, Cynthia L FLNR:EX  
**Subject:** Re: Application Tracking #100187710 - Myrtle Point  
(W-93 - T#100231111)

Does it need to be licensed even though they have closed  
it and aren't using?

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
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On Jun 3, 2019, at 10:52 AM, Craddock, Cynthia L  
FLNR:EX <[Cynthia.Craddock@gov.bc.ca](mailto:Cynthia.Craddock@gov.bc.ca)> wrote:

Hi Katherine – after discussing with another colleague, we can keep the W-93 application (T#100231111) separate from this one as suggested in the email from Amber. It was not necessary as they are on the same property, however perhaps the PRRD would like to keep them separate.

Thanks,

<image001.png>

**Cynthia Craddock**  
**A/Natural Resource Specialist, FrontCounter BC**  
**Ministry of Forests, Lands, Natural Resource Operations and Rural Development**  
South Coast Natural Resource Region  
200 – 10428 153<sup>rd</sup> Street, Surrey BC, V3R 1E1  
Phone (604) 586-5435 Fax: (604) 586-4434  
Toll Free: 1-877-855-3222  
[www.frontcounterbc.gov.bc.ca](http://www.frontcounterbc.gov.bc.ca)

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---

**From:** Katherine Maycher [<mailto:kmaycher@gwsolutions.ca>]  
**Sent:** Friday, May 31, 2019 9:30 AM  
**To:** Craddock, Cynthia L FLNR:EX  
**Subject:** Re: Application Tracking #100187710 - Myrtle Point

Hi Cynthia,

I just wanted to let you know I am working on getting the information you have requested. Here is some info I have found so far on W1-05 and WTN 49911 (abandoned well). Mike Wall at the regional district is working on getting the coordinates for WTN 49911. I'm pretty sure it's very close to W2-08. I made a separate application for W-93 because I was advised to do so by another Natural Resource Specialist (see attached email).

<2017-11-27 - APPFORM - 100231111.pdf>

## RE: Application Tracking #100187710 - Myrtle Point

---

From: Craddock, Cynthia L FLNR:EX

§ 15

To: Katherine Maycher

Sent: July 4, 2019 11:37:00 AM PDT

Attachments: image001.png

Hi Katherine – just to advise that I am still looking for the well record for W1-05. We do not have a tag or plate number. I know the depth of the well is 100 ft from the report you provided but that doesn't provide the diameter of the casing. Can the PRRD provide the well record, tag or plate number?

Thanks,



Cynthia Craddock  
Natural Resource Specialist  
South Coast Natural Resource Region  
FrontCounter BC | Forests, Lands, Natural Resource Operations  
and Rural Development

200 – 10428 153<sup>rd</sup> Street, Surrey BC, V3R 1E1

Phone (778) 572-2249 Fax: (604) 586-4434

[FrontCounter BC Website](#) | Toll-Free Contact Centre: 1-877-855-3222

*Tell us about your experience with FrontCounter BC: [Complete an Online Comment Card](#)*

---

**From:** Katherine Maycher <kmaycher@gwsolutions.ca>

**Sent:** May 31, 2019 9:30 AM

**To:** Craddock, Cynthia L FLNR:EX <Cynthia.Craddock@gov.bc.ca>

**Subject:** Re: Application Tracking #100187710 - Myrtle Point

Hi Cynthia,

I just wanted to let you know I am working on getting the information you have requested. Here is some info I have found so far on W1-05 and WTN 49911 (abandoned well). Mike Wall at the regional district is working on getting the coordinates for WTN 49911. I'm pretty sure it's very close to W2-08. I made a separate application for W-93 because I was advised to do so by another Natural Resource Specialist (see attached email).

Page 22 of 73

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## **Fwd: Myrtle Pond Well # 1 49911**

---

From: Katherine Maycher <kmaycher@gwsolutions.ca>  
To: Cynthia.Craddock@gov.bc.ca, Craddock, Cynthia L FLNR:EX  
Sent: July 29, 2019 12:10:32 PM PDT  
Attachments: image006.jpg, image005.png, 20190718\_134452.jpg, 20190718\_140841.jpg, Map.pdf, 2019-07-19 Wells.pdf, ATT00006.htm, ATT00008.htm, ATT00007.htm, ATT00005.htm, 20190718\_134250.jpg, ATT00004.htm, image004.png, ATT00001.htm, ATT00002.htm, ATT00003.htm

Below is information from Caleb at PRRD regarding abandoned well 1982. There are pictures and maps as well, let me know if the attachments don't come through.

Best Regards,

Katherine

**GW Solutions Inc.**

Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)  
[www.gwsolutions.ca](http://www.gwsolutions.ca)

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Begin forwarded message:

**From:** Gilles Wendling <[gwsolutions@shaw.ca](mailto:gwsolutions@shaw.ca)>  
**Subject:** Fwd: Myrtle Pond Well # 1 49911  
**Date:** July 22, 2019 at 3:59:23 PM PDT  
**To:** Katherine Maycher <[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)>

Do you know what they are referring to?

thx  
gw

Begin forwarded message:

**From:** Caleb Allen <[callen@gathet.ca](mailto:callen@gathet.ca)>  
**Subject:** Myrtle Pond Well # 1 49911  
**Date:** July 22, 2019 at 3:52:54 PM PDT  
**To:** "[gwsolutions@shaw.ca](mailto:gwsolutions@shaw.ca)" <[gwsolutions@shaw.ca](mailto:gwsolutions@shaw.ca)>

**Cc:** Mike Wall <MWall@qathet.ca>, Nancy Schmeister  
<NSchmeister@qathet.ca>

Hi Katherine,

I have been tasked to investigate the closure of the original 1982 well at Myrtle Pond.  
Please find my results below.

We were unable to find a written definitive record as to when this well was decommissioned. However site inspections and interviews show that it was likely decommissioned in the mid to late 90's. As nothing is visible above ground today I have attached a map (2019-07-19 Wells.pdf) with our existing wells and an approximate coordinate based on the KWL photos and the verbal information from Paul Anderson of Canwest drilling.

Please find that and some other background information attached including photos of the old well site and historic photos for comparison.

We did an internal records search and 2 site investigations and came up with the following:

Records search and Caleb Allen site visit 1 (July 11, 2019) report, and verbal Report results from Bill Taylor (current water system operator):

The well ring in the photo from KWL report is sitting on site but not on the old well. It has no lock on top of it and it is in plain sight. When I was there doing the survey about 2.5 years ago Bill Taylor told me it was just a well ring that had been removed from one of the other wells and was being stored on site.

I went out and picked up the position for our records. However I also phoned Bill to confirm that it was not the well, and he relayed a verbal report from the previous operator that the original well from 1982 had been decommissioned. Apparently it was plastic and collapsed, but he understood that when they drilled W-93 they pulled the pump, poured concrete down the well and sealed it with bentonite clay. The previous operator took Bill to the location of the well about 30 feet further toward the new wells where nothing was visible above ground. Is it possible that the old well ring was just sitting on the ground at the time the photos from KWL were taken, much as it is now? Bill has never seen a written report about this decommissioning. I looked through the TCA binder and the new system and have found recommendations that it be done in the 1993 report but no written backup that it was done. I also found line items in the 2008 works about decommissioning the "old well" but again it is unclear whether this is W-93 or the old "Myrtle Pond Well Number 1."

I am going back on site to check a couple of things that came up in my last site visit and I will bring the KWL report with the photos of the old well site.

**Second Site visit (Thursday, July 18, 2019):**

Here are some pictures from Myrtle. Two of them try to replicate the pictures from the KWL 2005 report. The other (panorama 20190718\_140841.jpg) is taken looking at the old well location from our new well (W-2-08).

There is no evidence on aboveground of the old "Myrtle Pond Well Number 1" anywhere that I can find. Looks decommissioned to me.

I wonder looking at the map 4-1 that the well ring was just sitting on the ground and was mistaken for a well at some point because the map shows the old well in the wrong location but does sort of match where the well ring was stored until quite recently. Note that it is up the hill higher than the original water tower in the map but the location of the old well was clearly below the tower as shown in the photo from the same report. In any case the map and the photos from KWL below don't match.

**Caleb Allen**

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Verbal Report from Paul Anderson of Canwest Drilling via Mike Wall July:

- Caswell Drilling drilled the original Well back in approx.. 1981 and it was about 230' deep, PVC Casing. Caswell went broke in 1982.
- In 1994 the well was producing fine silt and was taken offline. Paul believes a company called Pacific Hydrology was involved.
- Paul said the old well was located between the two current wells. Stand between them, look to 10 o'clock (on left) and approx.. 1 metre.
- Paul had pulled the pump for Mike Bolch at one time, he also recalled the PRRD talking about closing the well but was never hired to do it. He said they hired another company ...not sure who.

Please let me know if you need anything else.

Cheers,

**Caleb Allen**  
GIS/Survey Technician

This Coast Salish name meaning 'working together' was gifted to the Powell River Regional District by the Elders of Tla'amin Nation.  
The official name change to qathet (pronounced 'KA-thet') Regional District was issued by the Lieutenant Governor on July 5, 2018.

**qathet Regional District**  
**#202 – 4675 Marine Avenue**  
**Powell River, BC V8A 2L2**  
**T. 604.485.2260**  
**F. 604.485.2216**  
**[www.powellriverrd.bc.ca](http://www.powellriverrd.bc.ca)**

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## Fwd: Myrtle Pond Wells info for Well 1-05

---

From: Katherine Maycher <kmaycher@gwsolutions.ca>  
To: Cynthia.Craddock@gov.bc.ca, Craddock, Cynthia L FLNR:EX  
Sent: August 1, 2019 3:40:38 PM PDT  
Attachments: ATT00002.htm, Well Dwg with pipe layout Aug 2014 .pdf, image003.jpg, ATT00001.htm

Hi Cynthia

Here is some more info from Caleb regarding Well 1-05.

Best Regards,

Katherine

**GW Solutions Inc.**  
Katherine Maycher  
Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659  
[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)  
[www.gwsolutions.ca](http://www.gwsolutions.ca)

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Begin forwarded message:

**From:** Caleb Allen <[callen@gathet.ca](mailto:callen@gathet.ca)>  
**Subject:** RE: Myrtle Pond Wells info  
**Date:** August 1, 2019 at 3:35:59 PM PDT  
**To:** 'Katherine Maycher' <[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)>  
**Cc:** Mike Wall <[MWAll@gathet.ca](mailto:MWAll@gathet.ca)>

Hi Katherine,

I have been unable to find a well tag number or an ID plate number in the office records and Bill Taylor didn't have it either. I will try to go out and pull the lid and have a look tomorrow. However I did manage to dig up a report with an as built of the wells from 2014 that shows a 150mm diameter casing. I have attached it to this email.

Also I noted that this as-built shows the 1982 well we were looking into before as a "decommissioned and sealed old well".

I will let you know what I find tomorrow.

Cheers,

**Caleb Allen**  
GIS/Survey Technician

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This Coast Salish name meaning 'working together' was gifted to the Powell River Regional District by the Elders of Tla'amin Nation.  
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qathet Regional District  
#202 – 4675 Marine Avenue  
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---

**From:** Katherine Maycher [<mailto:kmaycher@gwsolutions.ca>]

**Sent:** Monday, July 29, 2019 11:57 AM

**To:** Caleb Allen

**Subject:** Myrtle Pond Wells info

Hi Caleb,

Thanks so much for getting the information to us on the abandoned well. I will pass this on to Cynthia at the ministry who is reviewing the water license application.

I have one further request, would it be possible to find out if there is well record for Well W1-05 (I checked the wells database online and couldn't find one)? Does this well have a tag number or an ID Plate number? We also need the diameter of the casing. Perhaps Bill Taylor would know?

Best Regards,

Katherine

**GW Solutions Inc.**

Katherine Maycher

Office Manager

phone: (250) 756-4538 - cel: (250) 327-4659

[kmaycher@gwsolutions.ca](mailto:kmaycher@gwsolutions.ca)

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# Existing Use Groundwater Application

Tracking Number: 100187710

ATS#266306

## Applicant Information

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

Please upload a scan of your Letter of Agency or Agency Agreement. The scan can be either in PDF or image format (jpg, gif or png). Applicant is an Individual or an Organization to whom this authorization will be issued, if approved

Name: Powell River Regional District  
Doing Business As:  
Phone: 604-485-2260  
Fax:  
Email:  
BC Incorporation Number:  
Extra Provincial Inc. No:  
Society Number:  
GST Registration Number:  
Contact Name: Shawn Gullette  
Mailing Address: 202-4675 Marine Avenue  
Powell River BC V8A 2L2

## CONSULTANT INFORMATION

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

Name: GW SOLUTIONS INC.  
Doing Business As:  
Phone: 250-756-4538  
Fax:  
Email: gw@gwsolutions.ca  
BC Incorporation Number:  
Extra Provincial Inc. No:  
Society Number:  
GST Registration Number:  
Contact Name: KATHERINE MAYCHER  
Mailing Address: Unit 201-5180 Dublin Way  
Nanaimo BC V9T0H2  
Letter(s) Attached: Yes (Signed Letter of Agency.pdf)

## CORRESPONDENCE E-MAIL ADDRESS

It is recommended that you provide your correspondence email address in this section.

Email: kmaycher@gwsolutions.ca  
Contact Name: Katherine Maycher

## ELIGIBILITY

If you answer yes to any ONE of the following questions, you are eligible to apply for a water licence.

Question	Answer	Warning
- Are you the owner of land or a mine in British Columbia where the water will be used?	Yes	
- Are you entitled to possession of land or a mine in British Columbia where the water will be used?		
- Do you have a substantial interest in the land, mine, or an undertaking in British Columbia where the water will be used?		
- Are you a holder of a certificate of public convenience and		

necessity issued under the Public Utilities Act, the Utilities Commission Act or the Water Utility Act?

- Are you a municipality, regional district, improvement district, development district or water users' community?
- Are you representing the government of British Columbia or Canada?
- Are you representing a commission, board or person having charge of the administration of Crown land or a mine or an undertaking on Crown land, administered by British Columbia or Canada or controlled by a ministry, department, branch or other subdivision of the government of British Columbia or Canada?
- Are you representing the Greater Vancouver Water District or any other water district incorporated by an Act?
- Are you representing the British Columbia Hydro and Power Authority?
- Are you applying as an agent on behalf of an eligible applicant as described above?

## TECHNICAL INFORMATION

### GOVERNMENT AND FIRST NATION FEE EXEMPTION REQUEST

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 person applying to use water on Treaty Lands
- A Nisga'a citizen
- An entity applying to use water from the Nisga'a Water Reservation?

No

### EXISTING USE

Groundwater users that have been using groundwater prior to the date that the Water Sustainability Act came into force may be granted a priority date for their water licence that is equal to the date they first beneficially used the water.

Do you use groundwater for a non-domestic purpose? Yes

Did your groundwater use begin on or before February 29, 2016? Yes

### PURPOSE OF WATER USE

Add the purpose(s) your groundwater is being used for. Check the list of Purpose Definitions to determine your correct purpose of water use.

It is possible that the purpose(s) you select may change, be removed, or new ones be added during the review of your application. This may affect the fees due.

Purpose	Quantity	Use of Water	How estimate water use?	Rental Fee	Application Fee
Waterworks Local Provider	61,961 m3/year	Year Round	Supplies 84 lots. Amount based on Domestic use of 2 m3/day. 61361 m3/year for community use. 600 m/3 year for fire protection.	\$767.76	
Total:				\$767.76	

The one-time application fee has been waived until March 1, 2022. Annual water rentals are still payable and are required when submitting the application.

Note: The rentals payable with this application represent the total that has accrued since February 29, 2016.

#### HISTORY OF WATER USE

To assign the correct date of precedence (priority date) for your licence it is necessary to gather information about the history of water use.

For each water use purpose you are requesting please indicate to the best of your knowledge when groundwater use began, including the previous owners.

Purpose	Quantity	Date
Waterworks - Waterworks Local Provider	61,961 m3/year	Feb 01, 1982

If possible, please describe the history of use for all the purposes back to the date(s) referenced above:

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Description	File Name
Water sample report for the original Adamson well 1982	Water Sample Report.pdf

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Water sample report for the original Adamson well 1982	Water Sample Report.pdf
--	-------------------------

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Report	MyrtlePond-FinalReport2.pdf
--------	-----------------------------

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Report	PRRD_Southern_Region_Water_Study_Nov-09_FINAL_reduced.pdf
--------	---

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Report	Water Quality and Delineation of a Wellhead Protection Area for the Myrtle Pond Community Well.pdf
--------	--

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Report	Myrtle Pond Zoning and Covenant Enforcement, 3130 .pdf
--------	--

Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.

Report for W93 (Fire well)	Completion Report Construction and Testing of a Water Well for Myrtle Pond Waterworks.pdf
----------------------------	---

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Well Record for W93 (Fire well)

Myrtle Water System W93  
Well Log.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Description of system

2004 Myrtle Pond Water  
Caretaker.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Construction and pumping test report for Well 2-08

2008-05-05 Final Pump Test  
Report-Pacific  
Hydrology.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Well Construction and Capacity testing of deepened Well 2-08

2010-04-29 Well  
Construction 2-08.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Closure letter for Well W93

2015-08-12 Well  
Closure.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Adamson Well Log (Original Well from 1982)

1982 Well Adamso  
wellsreport1.do.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Well Log for deepened Well 2-08

Well 2-08 Well Deepened  
wellsreport1.do.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Information on 2015 system upgrades

Request for Final Decision  
Report July 16, 2015.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Includes information on usage in Appendix A

Rural Services Committee -  
16 Jul 2015 - Agenda -  
Pdf.pdf

**Upload any documents you have to support the date water use began, e.g. well construction report, pump installation receipt or signed statement.**

Water reservoir specs

Reservoir specifications .pdf

## **WORKS**

Works are the physical equipment used to move the water from its source to where it will be used. For example, works can include a screened intake, pump, pipeline, irrigation system, dugout, storage structure etc. Scroll down the list provided to see all the options available for selection. For a formal definition of "works", refer to Section 1(1) of the Water Sustainability Act.

NOTE: For works not on the list, please describe them in the box below. Hover over the works list to see a quick definition of the work.

Works	Status
Access Road	Partly Constructed
Distribution system	Fully Constructed
Hydrant	Fully Constructed
Meter	Fully Constructed
Pipe	Fully Constructed
Pump	Fully Constructed
Pumphouse	Fully Constructed
Reservoir	Fully Constructed
Standpipe	Fully Constructed
Sump	Fully Constructed
Tank	Fully Constructed
Treatment facility/system	Fully Constructed

Please provide details about the works selected above, and your water system: Pipe - Fully Constructed

Treatment facility/system - Fully Constructed  
 The system is equipped with a greensand filtration system that was required to remove high manganese content from the original well source. This system has been inactivated as the present well water does not have high manganese levels; however, the system must be regularly back flushed (once per month) to keep the sand medium from solidifying.

SOURCE OF WATER FOR APPLICATION

WELL WORKS

Do you access groundwater from a well? Yes

As an existing user, your works should be fully constructed. If your works are not fully constructed for some reason, (e.g. under repair), please provide details in the "Comments" field below.

Works	Common Well Name	Status	Comments
Well	W1-05	Fully Constructed	
Well Tag Number:		Well ID Plate Number:	
Depth of Well:	100 feet		
Method of location measurement:		Google Earth	
Geographic Coordinates of well:	Latitude: 49.801662 Longitude: -124.483302 Decimal Degrees		
Is the well a flowing artesian well at any time of the year?	No		
Is the well head in a pit or a sump?	No		
Well	Fire Protection Well (W93 or Well No.2)	Fully Constructed	
Well Tag Number:	102370	Well ID Plate Number:	5776
Depth of Well:	535 feet		
Method of location measurement:		Google Earth	
Geographic Coordinates of well:	Latitude: 49.8020218 Longitude: -124.4830263 Decimal Degrees		
Is the well a flowing artesian well at any time of the year?	No		
Is the well head in a pit or a	Yes		

sump?

Description	Filename
Well Report	2017-11-27_WELL DR_100231111.pdf

Well W2-08 Fully Constructed  
Well Tag Number: 95437 Well ID Plate Number: 25686  
Depth of Well: 240 feet  
Method of location measurement: Google Earth  
Geographic Coordinates of well: Latitude: 49.801844 Longitude: -124.48315 Decimal Degrees  
Is the well a flowing artesian well at any time of the year? No  
Is the well head in a pit or a sump? No

Are there any other wells on the property that are not in use? No

#### JOINT WORKS

Are your works connected to the works of another person or group of people?

If you share or are connected to another person's works, it is recommended that a Joint Works Agreement-outlining each party's role and responsibilities-be completed and uploaded

Do you share or are you connected to another person's works? No

#### MAPPING

☒ I have map(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
Distribution system map	Myrle Pond Water System Ske...

#### ADDITIONAL QUESTIONS

In many cases you might require other authorizations or permits in order to complete your project. In order to make that determination and point you in the right direction, please answer the questions below. More information can also be found on the Water Stewardship website. In addition, your application may be referred to other agencies for comments.

Does any work occur within the public road allowance or has to cross a public road? Yes

It may be necessary to file an application for permission to construct works with the Ministry of Transportation.  
<http://www.th.gov.bc.ca/permits/Apply.asp>

Are you planning to cut timber on Crown Land? No

Are you planning to use an open fire to burn timber or other materials? No

Are you supplying potable water to consumers? Yes

The Drinking Water Protection Act and the Drinking Water Protection Regulation describe the responsibilities of the water



supplier, which include supplying potable water to consumers, disinfecting surface water and preparing an emergency response plan. The Local Health Authorities are responsible.<http://www.health.gov.bc.ca/protect/dwact.html>

Will fish or wildlife habitat be affected? No

Are you planning to undertake mineral exploration? No

Do you need to construct a road to the dam (if there are no existing roads)? No

Do you want to construct works within an existing forest road right-of-way on Crown land? No

Do you want to transport heavy equipment or materials on an existing forest road? No

Do you want to use the water for livestock watering on Crown land? No

## LOCATION INFORMATION

### LAND DETAILS

List all parcels of land where the water will be used. Click "Add Land Information" button to add each parcel of land.

#### Description

Private Land

Parcel ID: 027942201 All those properties served by the Myrtle Pond Water System

Legal Description: Part of Lot D, D.L. 1650, Plan 7711 and Part of Lot 4, D.L. 1499, Plan 13390 at Myrtle Point, near Powell River

### PERMIT OVER CROWN LAND

Do any of these circumstances apply to your water use:

- Any of your works cross or are located on Crown land
- Your well is located on Crown Land
- You are flooding Crown Land

No

Based on your answer you do not appear to be affecting or flooding Crown land and neither a Permit over Crown land nor a Crown land tenure appears to be required.

## PRIVACY DECLARATION

**PRIVACY NOTE FOR THE COLLECTION, USE AND DISCLOSURE OF PERSONAL INFORMATION** Personal information is collected by FrontCounter BC under the legal authority of section 26 (c) and 27 (1)(a)(i) of the Freedom of Information and Protection of Privacy Act (the Act). The collection, use, and disclosure of personal information is subject to the provisions of the Act. The personal information collected by FrontCounter BC will be used to process your inquiry or application(s). It may also be shared when strictly necessary with partner agencies that are also subject to the provisions of the Act. The personal information supplied in the application package may be used for referrals or notifications as required. Personal information may be used by FrontCounter BC for survey purposes. For more information regarding the collection, use, and/or disclosure of your personal information by FrontCounter BC, please contact FrontCounter BC at 1-877-855-3222 or at: FrontCounter BC Program Director FrontCounter BC, Provincial Operation 441 Columbia Street Kamloops, BC V2C 2T3

☒ 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 else's rights or resources or those of the citizens of BC. 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.

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

**Company / Organization:** Powell River Regional District  
**Contact Name:** Shawn Gullette  
**Contact Address:** 202-4675 Marine Avenue  
 Powell River BC V8A 2L2  
**Contact Phone:** 604-485-2260  
**Contact Email:** shawn.gullette@powellriverrd.bc.ca

☒ 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

- I understand that the submission of this ground water licence does not provide authority under the Water Sustainability Act to divert, use or store water from a stream or to construct works. I also understand that my application must first be investigated and a decision made on the application as to whether a ground water licence may be granted and, as part of that review, additional information may be requested of me.
- The application may be subject to further requirements under the federal Fisheries Act. Please refer to Fisheries and Oceans Canada's "Projects Near Water" webpage (<http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>) for information on how to ensure your project complies with the Fisheries Act.
- Once you click 'Next' the application will be locked down and you will NOT be able to edit it any more.

#### DECLARATION

☒ By submitting this application form, I, declare that the information contained on this form is complete and accurate.

#### APPLICATION AND ASSOCIATED FEES

Item	Amount	Taxes	Total	Outstanding Balance
00A-REN 2016 61361 m3/y - Waterworks: Local Provider	\$0.00		\$0.00	\$-167.76
00A-REN 2016 61961 m3/y - Waterworks: Local Provider	\$167.76		\$167.76	\$167.76
00A-REN 2017 61361 m3/y - Waterworks: Local Provider	\$0.00		\$0.00	\$-200.00
00A-REN 2017 61961 m3/y - Waterworks: Local Provider	\$200.00		\$200.00	\$200.00

#### OFFICE

Office to submit application to: Surrey

PROJECT INFORMATION

Is this application for an activity or project which requires more than one natural resource authorization from the Province of BC? No

APPLICANT SIGNATURE

Applicant Signature

Date

OFFICE USE ONLY

Office Surrey	File Number 20012518	Project Number ATS#266306
	Disposition ID	Client Number 20963



iMapBC Mapping

### Legend

Water Rights - Applications - APPLICATION\_STATUS

- Active Application
- Refused

Water Rights - Licences - Int POD\_STATUS

- Active
- Inactive

Active Forest Road Sections  
Digital Road Atlas - Lines  
ROAD\_CLASS

- Ferry
- == Highway
- == Freeway
- == Arterial
- == Collector
- == Ramp
- == Service
- == Local Road
- == Strata Road
- == Restricted Access
- == Runway
- == Lane
- Recreation

0 0.02 0.0 km

1:1,000

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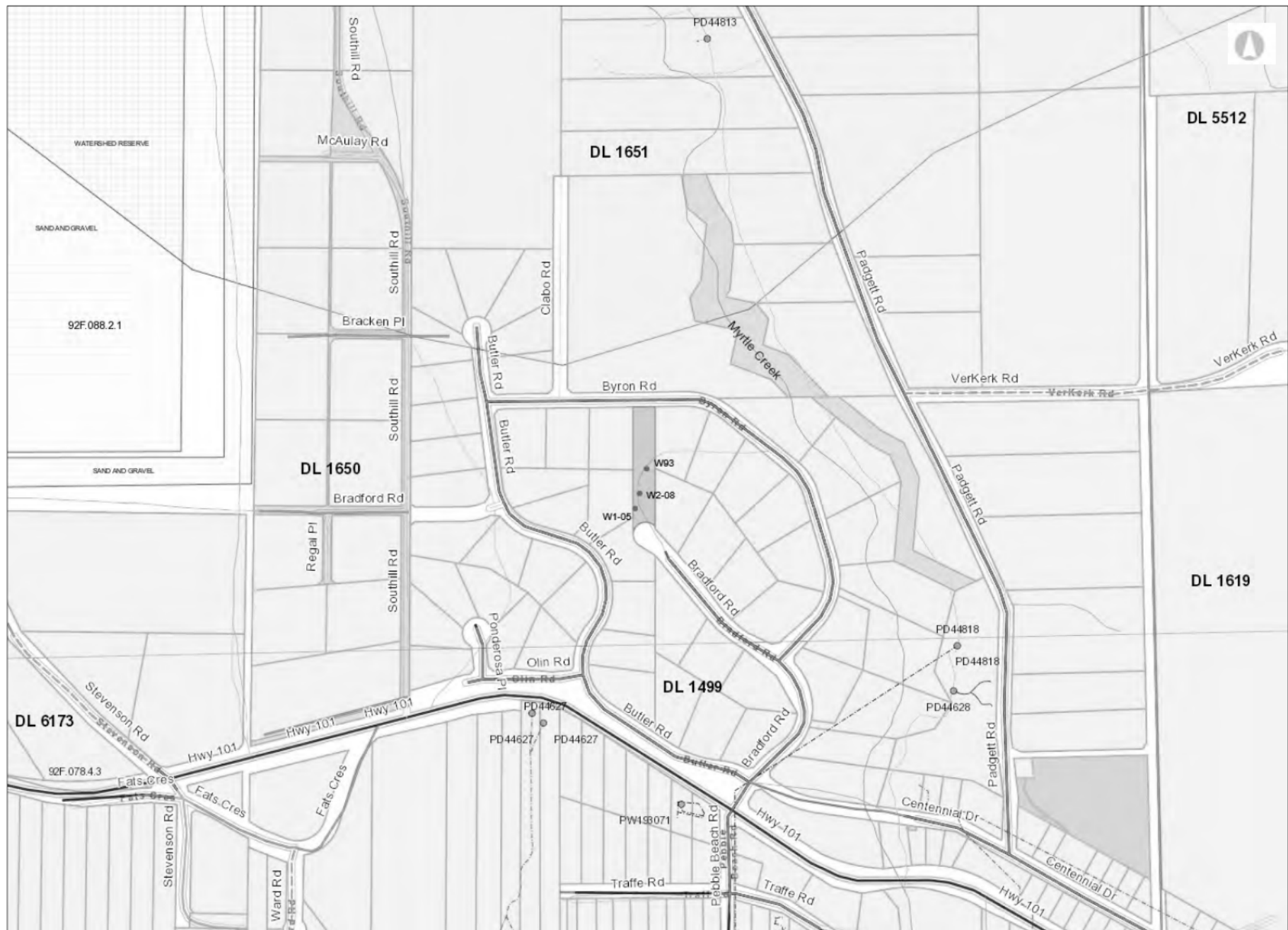
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Datum: NAD83  
Projection: NAD\_1983\_BC\_Environment\_Albers

### Key Map of British Columbia





iMapBC Mapping

### Legend

#### Water Rights - Applications - APPLICATION\_STATUS

- Active Application
- Refused

#### Water Rights - Licences - Int POD\_STATUS

- Active
- Inactive

#### Active Forest Road Sections Digital Road Atlas - Lines ROAD\_CLASS

- Ferry
- Highway
- Freeway
- Arterial
- Collector
- Ramp
- Service
- Local Road
- Strata Road
- Restricted Access
- Runway
- Lane
- Recreation



1:5,000

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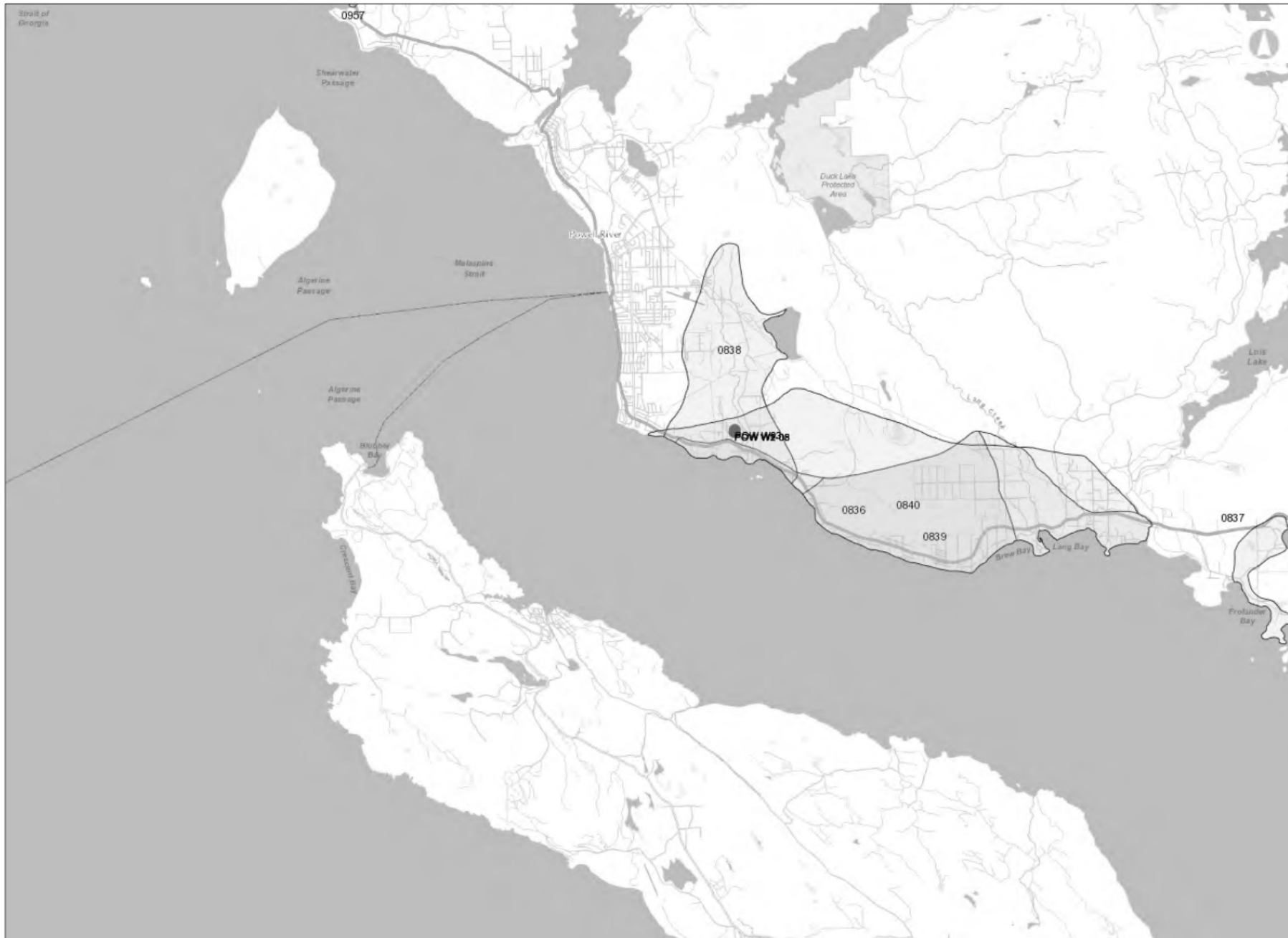
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Datum: NAD83  
Projection: NAD\_1983\_BC\_Environment\_Albers

### Key Map of British Columbia

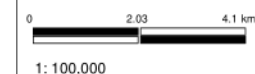




iMapBC Mapping

### Legend

- ☐ Aquifers - BC - Outlined TileCache



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Datum: NAD83  
Projection: NAD\_1983\_BC\_Environment\_Albers

### Key Map of British Columbia





## POW MAP

### Legend

#### Water Rights - Applications - APPLICATION\_STATUS

- Active Application
- Refused

#### Water Rights - Licences - Int POD\_STATUS

- Active
- Inactive

#### Active Forest Road Sections Digital Road Atlas - Lines ROAD\_CLASS

- Ferry
- == Highway
- == Freeway
- == Arterial
- == Collector
- == Ramp
- == Service
- == Local Road
- == Strata Road
- == Restricted Access
- == Runway
- == Lane
- Recreation

0 0.10 0.2 km

1:5,000

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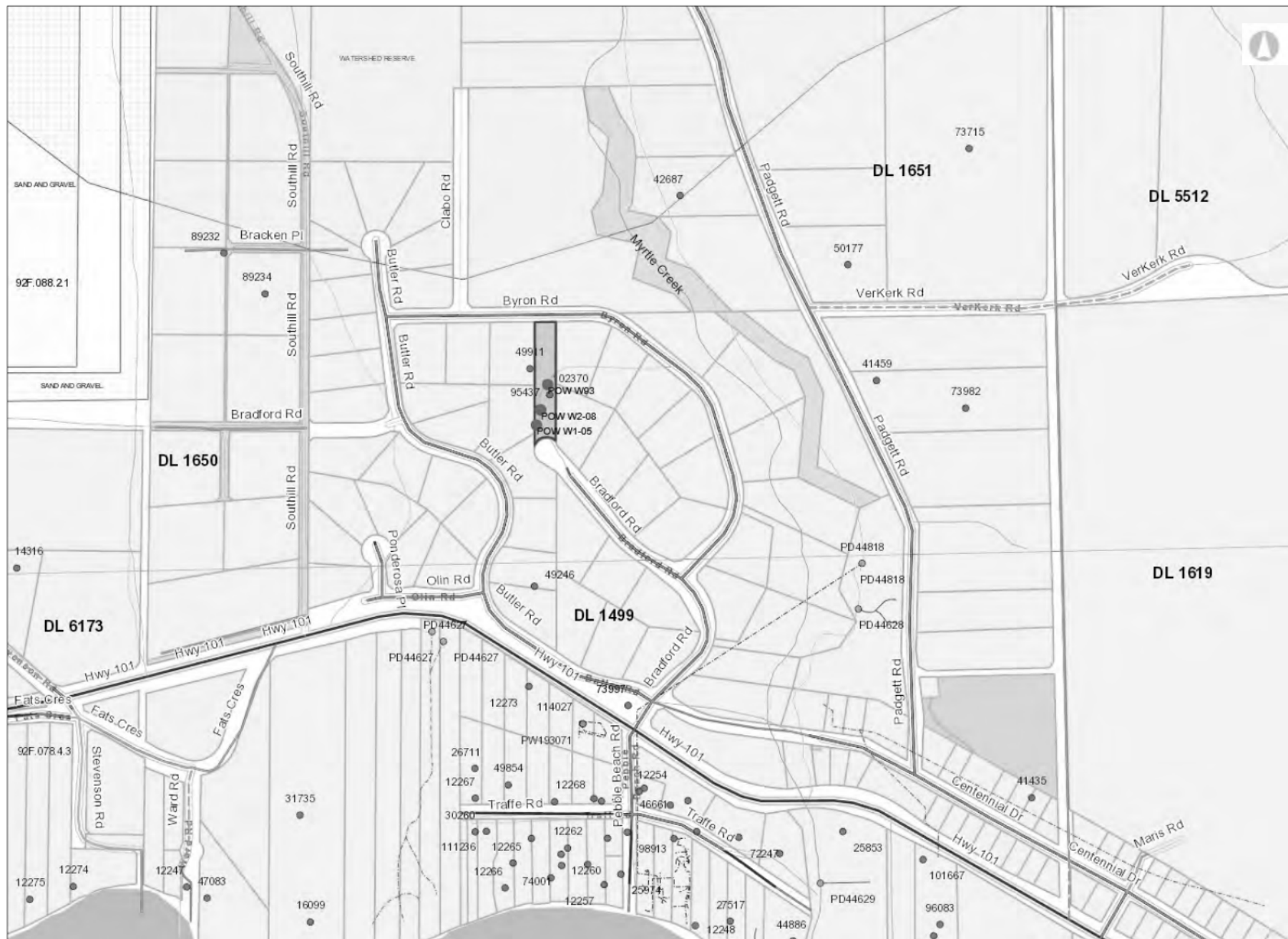
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Datum: NAD83  
Projection: NAD\_1983\_BC\_Environment\_Albers

### Key Map of British Columbia





# POW MAP

## Legend

### Water Rights - Applications - APPLICATION\_STATUS

- Active Application
- Refused

### Water Rights - Licences - Int POD\_STATUS

- Active
- Inactive

- Water Wells - All
- Active Forest Road Sections
- Digital Road Atlas - Lines
- ROAD\_CLASS

- Ferry
- Highway
- Freeway
- Arterial
- Collector
- Ramp
- Service
- Local Road
- Strata Road
- Restricted Access
- Runway
- Lane

0 0.10 0.2 km

1:5,000

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Datum: NAD83  
Projection: NAD\_1983\_BC\_Environment\_Abers

## Key Map of British Columbia







## Groundwater Wells and Aquifers

## Aquifer 838 Summary

Aquifer number	838
Year of mapping	2007
Aquifer name	
Litho stratigraphic unit	Glaciofluvial deposits
Descriptive location	Powell River
Vulnerability	Low
Material type	Sand and Gravel
Subtype	Confined sand and gravel - glacial
Quality concerns	None
Productivity	Moderate
Size (km <sup>2</sup> )	11.9
Demand	Moderate



## Well Information

Number of wells associated to the aquifer 38

Well info last updated 7/19/2019

## Documentation

- [AQ\\_00838\\_Aquifer\\_Factsheet.pdf](#)
- [AQ\\_00838\\_Aquifer\\_Mapping\\_Report.pdf](#)

## Licensing Information

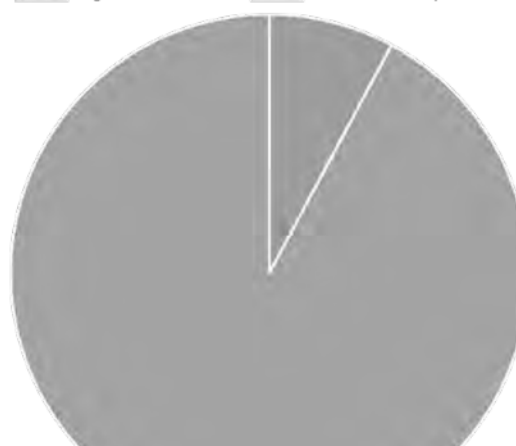
The licensing summaries should be considered estimates. Due to complexities in the structure of the licensing data, reported values should be confirmed through the e-licensing portal.

Number of groundwater licences 2

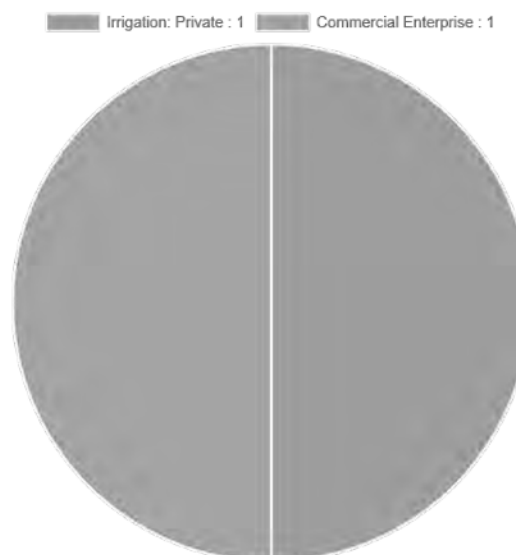
Water withdrawal volume (annual) 18615 cubic metres

Licensed volume by purpose

Irrigation: Private : 1460 Commercial Enterprise : 17155



Number of licences by purpose



Licence Number	Well Tag Numbers In Licence
500188	113151
500075	73970

*Licence info last updated 7/28/2019*

Licensing information is obtained from the [Water Rights Licence - Public data layer](#).

Unique licenses are counted once for each aquifer that they are associated with.

The total licensed volume is counted once for each licence (the total volume may be shared between wells if there are multiple wells in a licence). In cases where specific volumes are licensed for multiple purposes, individual volumes are summed.



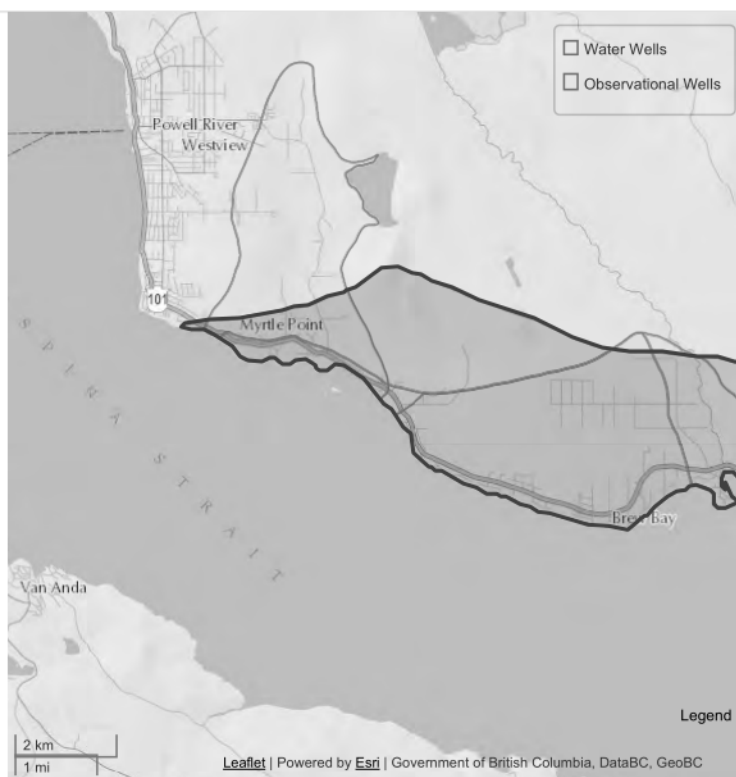




## Groundwater Wells and Aquifers

## Aquifer 840 Summary

Aquifer number	840
Year of mapping	2007
Aquifer name	
Litho stratigraphic unit	intrusive igneous granodiorite
Descriptive location	Powell River, BC
Vulnerability	Low
Material type	Bedrock
Subtype	Fractured crystalline bedrock
Quality concerns	Regional
Productivity	Low
Size (km <sup>2</sup> )	30.8
Demand	Low



## Well Information

Number of wells associated to the aquifer 22

*Well info last updated 3/1/2019*

## Documentation

- [AQ\\_00840\\_Aquifer\\_Factsheet.pdf](#)
- [AQ\\_00840\\_Aquifer\\_Mapping\\_Report.pdf](#)

## Licensing Information

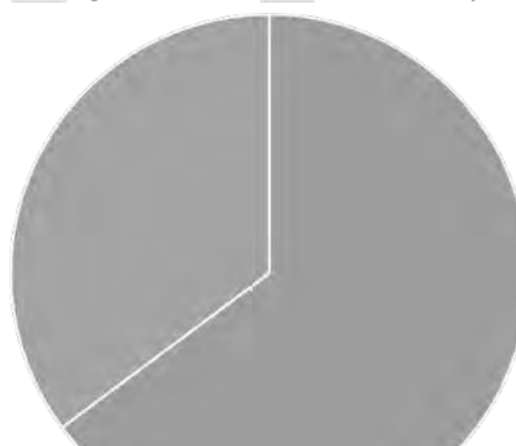
The licensing summaries should be considered estimates. Due to complexities in the structure of the licensing data, reported values should be confirmed through the e-licensing portal.

Number of groundwater licences 1

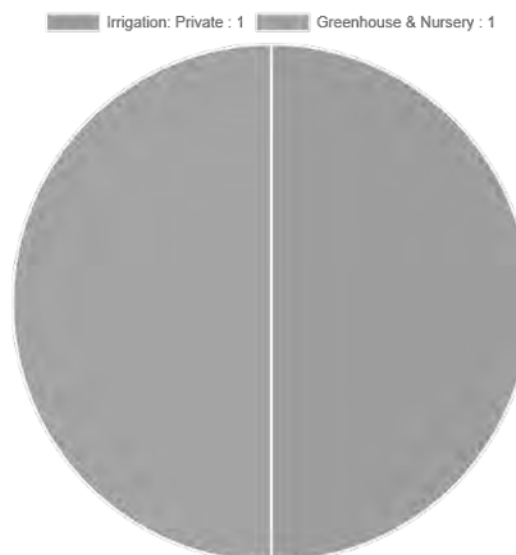
Water withdrawal volume (annual) 13641 cubic metres

Licensed volume by purpose

Irrigation: Private : 8840.8 Greenhouse & Nursery : 4800



Number of licences by purpose



Licence Number	Well Tag Numbers In Licence
500252	30704, 112392, 112391

*Licence info last updated 7/28/2019*

Licensing information is obtained from the [Water Rights Licence - Public data layer](#).

Unique licenses are counted once for each aquifer that they are associated with.

The total licensed volume is counted once for each licence (the total volume may be shared between wells if there are multiple wells in a licence). In cases where specific volumes are licensed for multiple purposes, individual volumes are summed.

--







## Groundwater Wells and Aquifers

## Well Summary

Well Tag Number: 95437  
 Well Identification Plate Number: 25686  
 Owner Name: TOD ENGLISH FRONTIER DEVELOPMENTS  
 Intended Water Use: Water Supply System

Well Status: Alteration  
 Well Class: Water Supply  
 Well Subclass:  
 Aquifer Number:

Observation Well Number:  
 Observation Well Status:  
 Environmental Monitoring System (EMS) ID:  
 Alternative specs submitted: No

## Licensing Information

Licensed Status: Unlicensed

Licence Number:

## Location Information

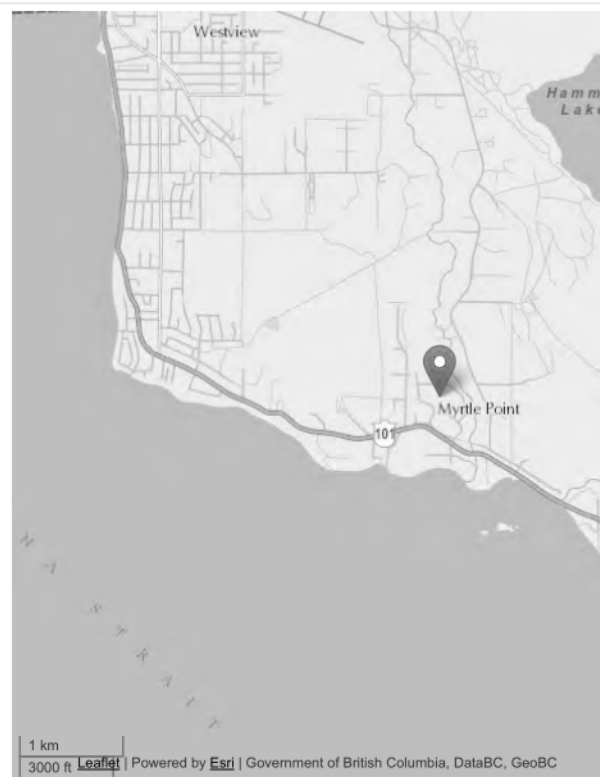
Street Address:

Town/City:

Legal Description:

Lot	D
Plan	1650 & 7711
District Lot	1499
Block	4
Section	
Township	
Range	
Land District	36
Property Identification Description (PID)	

Description of Well Location: NOT PROVIDED.



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.801857

Longitude: -124.483244

UTM Easting: 393266

UTM Northing: 5517656

Zone: 10

Coordinate Acquisition Code: (10 m accuracy) Handheld GPS with accuracy of +/- 10 metres

## Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
There has been no activity related to this well.				

## Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
2008-01-01	2008-01-01	2009-07-21	2009-07-23		

## Well Completion Data

Total Depth Drilled: 316.00 feet	Static Water Level (BTOC): 79.00 feet	Well Cap: ALUMINUM CAO
Finished Well Depth: 240.00 feet	Estimated Well Yield: 20.000 USGPM	Well Disinfected Status: Disinfected
Final Casing Stick Up: 24.000 inches	Artesian Flow:	Drilling Method: Dual Rotary
Depth to Bedrock:	Artesian Pressure:	Orientation of Well: VERTICAL
Ground elevation: 204.00	Method of determining elevation: Unknown	

## Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0.00	21.00	SAND WITH COBBLES	silty		brown	Soft		
21.00	71.00	GRAVEL & SAND	silty		brown	Hard	TILL LIKE	
71.00	79.00	WITH FINE GRAVEL	coarse		grey	Soft	WB	
79.00	85.00	TILL WITH COBBLES			grey	Hard		
85.00	95.00	COARSE SAND WITH FINE GRAVEL			grey	Soft	WB. CLEAN UP OPEN BOTTOM AT 94'.	
95.00	130.00	SAND & GRAVEL	silty		grey		WATER BEARING VERY SILTY.	
130.00	140.00	SILT WITH STONES			grey			
140.00	210.00	SAND	fine		grey		VERY FINE AND SILTY	
210.00	252.00	CLEANER - SAND			grey			
252.00	290.00	SILT			grey	Hard		
290.00	309.00	TILL WITH SHELLS			grey			
309.00	314.00	GRANITE BOULDER						
314.00	316.00	TILL	sandy		grey			

## Casing Details

From (ft)	To (ft)	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0.00	16.00	Steel Removed		10.000		Not Installed
0.00	95.00		Steel	6.000	0.219	Installed
0.00	224.00		Steel	5.000		Installed

## Surface Seal and Backfill Details

Surface Seal Material: Bentonite clay	Backfill Material Above Surface Seal:
Surface Seal Installation Method: Poured	Backfill Depth:
Surface Seal Thickness: 2.00	
Surface Seal Depth:	

## Liner Details

Liner Material:	Liner Thickness:	Liner perforations
Liner Diameter:		From To

Liner from:

Liner to:

From	To
There are no records to show	

## Screen Details

Intake Method:

Screen

Type: Telescope

Material: Stainless

Steel

Opening: Continuous

Slot

Bottom: Plug

Installed Screens

From	To	Diameter	Assembly Type	Slot Size
222.00 ft	224.00 ft	5.00	K_RISER	
224.00 ft	236.00 ft	5.00	SCREEN	8.00
236.00 ft	240.00 ft	5.00	SCREEN	6.00

## Well Development

Developed by:

Development Total Duration: 3.00 hours

## Well Yield

No well yield data available.

## Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

## Comments

WELL ORIGINALLY DRILLED IN 2008 BY DRILLWELL. PULLED SCREEN, DRILLED DEEPER &amp; SET SCREENS.

Alternative Specs Submitted: No

## Documents

No additional documentation available for this well.

## Disclaimer

The information provided should not be used as a basis for making financial or any other commitments. The Government of British Columbia accepts no liability for the accuracy, availability, suitability, reliability, usability, completeness or timeliness of the data or graphical depictions rendered from the data.







## Groundwater Wells and Aquifers

## Well Summary

Well Tag Number: 102370

Well Identification Plate Number:

Owner Name: POWELL RIVER REGIONAL DISTRICT

Intended Water Use: Water Supply System

Well Status: New

Well Class: Water Supply

Well Subclass:

Aquifer Number:

Observation Well Number:

Observation Well Status:

Environmental Monitoring System (EMS) ID:

Alternative specs submitted: No

## Licensing Information

Licensed Status: Unlicensed

Licence Number:

## Location Information

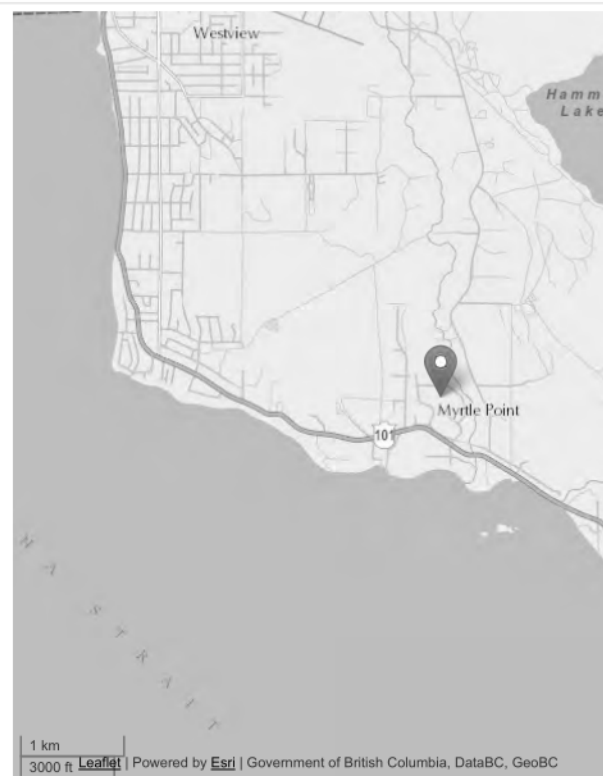
Street Address: 5775 MARINE AVENUE

Town/City:

Legal Description:

Lot	4
Plan	13390
District Lot	1499
Block	
Section	
Township	
Range	
Land District	
Property Identification Description (PID)	

Description of Well Location: LOCATED ON THE NORTHWEST PART OF DL 1499



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.802022

Longitude: -124.483026

UTM Easting: 393282

UTM Northing: 5517674

Zone: 10

Coordinate Acquisition Code: (10 m accuracy) ICF cadastre and good location sketch

## Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
There has been no activity related to this well.				

## Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1993-09-08	1993-09-13				

## Well Completion Data

Total Depth Drilled: 535.00 feet  
Finished Well Depth: 535.00 feet  
Final Casing Stick Up: 48.000 inches  
Depth to Bedrock: 438.00 feet  
Ground elevation:

Static Water Level (BTOC): 75.00 feet  
Estimated Well Yield: 24.000 USGPM  
Artesian Flow:  
Artesian Pressure:  
Method of determining elevation: Unknown

Well Cap:  
Well Disinfected Status: Not Disinfected  
Drilling Method: Other  
Orientation of Well: VERTICAL

## Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0.00	5.00	STONEY TOP SOIL						
5.00	18.00	STONY BROWN CLAY						
18.00	34.00	BROWN SILTY SAND AND GRAVEL						
34.00	58.00	SAND AND GRAVEL (LOOSE)						
58.00	89.00	WET, TILLY GREY GRAVEL (VERY SILTY)						
89.00	96.00	GREY CLAY AND SILT LAYERS						
96.00	126.00	LAYERS OF TILL AND CLAY						
126.00	132.00	SILTY, VERY FINE SAND (WET)						
132.00	159.00	SILTY CLAY						
159.00	217.00	WET SILT WITH VEGETATION						
217.00	221.00	WATER BEARING FINE SAND						
221.00	253.00	WATER BEARING SILTY, VERY FINE SAND WITH LAYERS OF CLAY						
253.00	309.00	CLAY						
309.00	328.00	TILL AND BOULDERS						
328.00	340.00	TIGHT TILL AND LAYERS OF SAND						
340.00	381.00	CEMENTED SAND AND GRAVEL						
381.00	436.00	GREEN SANDY SHALE						
436.00	448.00	FRACTURED GREEN AND BLACK SANDY SHALE					4GPM AT 438-448 FT	4.0000
448.00	455.00	GREEN AND BLACK SHALE WITH SANDSTONE STRINGERS						
455.00	480.00	FRACTURED GREEN AND BLACK SHALE WITH QUARTZ LENSES						
480.00	520.00	FRACTURED BLACK SHALE AND QUARTZ LENSES						
520.00	524.00	BLACK SHALE (SANDSTONE MIX)						
524.00	528.00	FRACTURED LIGHT GREEN SHALE						
528.00	535.00	BLACK SHALE						

## Casing Details

From (ft)	To (ft)	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
0.00	100.00		Steel	8.000		Installed
0.00	389.50		Steel	6.000		Installed

## Surface Seal and Backfill Details

Surface Seal Material: \_\_\_\_\_ Backfill Material Above Surface Seal: \_\_\_\_\_  
 Surface Seal Installation Method: \_\_\_\_\_ Backfill Depth: \_\_\_\_\_  
 Surface Seal Thickness: \_\_\_\_\_



Surface Seal Depth:

### Liner Details

Liner Material:

Liner Diameter:

Liner from:

Liner Thickness:

Liner to:

Liner perforations

From

To

There are no records to show

### Screen Details

Intake Method:

Type:

Material:

Opening:

Bottom:

Installed Screens

From

To

Diameter

Assembly Type

Slot Size

There are no records to show

### Well Development

Developed by:

Development Total Duration:

### Well Yield

No well yield data available.

### Well Decommission Information

Reason for Decommission:

Sealant Material:

Decommission Details:

Method of Decommission:

Backfill Material:

### Comments

SOURCES OF WATER - 8 GPM AT 455-520 FT AND 30 GPM AT 520-528 FT. NTS 92F-16-8 METHOD OF DRILLING = DRILLED

Alternative Specs Submitted: No

### Documents

No additional documentation available for this well.

### Disclaimer

The information provided should not be used as a basis for making financial or any other commitments. The Government of British Columbia accepts no liability for the accuracy, availability, suitability, reliability, usability, completeness or timeliness of the data or graphical depictions rendered from the data.







## Groundwater Wells and Aquifers

## Well Summary

Well Tag Number: 49911  
 Well Identification Plate Number:  
 Owner Name: JOHN ADAMSON  
 Intended Water Use: Other

Well Status: New  
 Well Class: Unknown  
 Well Subclass:  
 Aquifer Number:

Observation Well Number:  
 Observation Well Status:  
 Environmental Monitoring System (EMS) ID:  
 Alternative specs submitted: No

## Licensing Information

Licensed Status: Unlicensed

Licence Number:

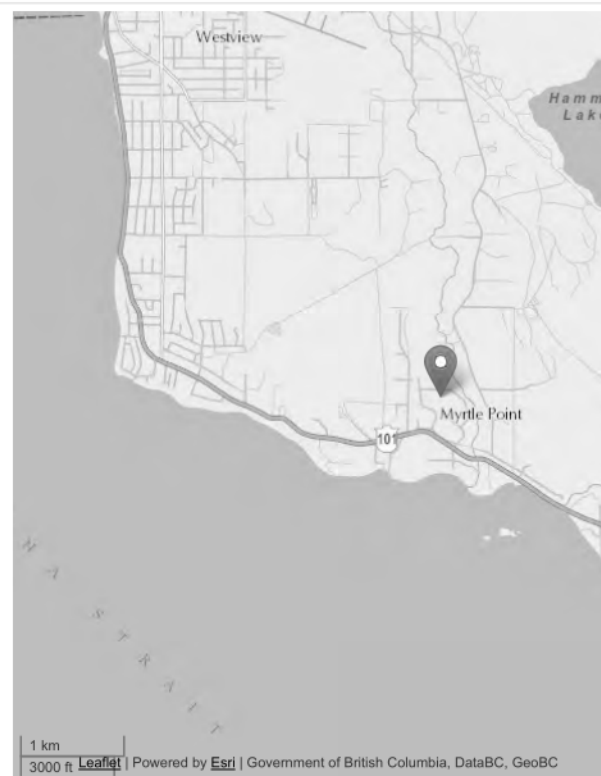
## Location Information

Street Address: MYRTLE POINT  
 Town/City: POWELL RIVER

Legal Description:

Lot	
Plan	
District Lot	1499
Block	
Section	
Township	
Range	
Land District	36
Property Identification Description (PID)	

Description of Well Location:



Geographic Coordinates - North American Datum of 1983 (NAD 83)

Latitude: 49.802341 Longitude: -124.483384  
 UTM Easting: 393257 UTM Northing: 5517710  
 Zone: 10 Coordinate Acquisition Code: (100 m accuracy) Digitized from old Dept. of Lands, Forests and Water Resources maps

## Well Activity

Activity	Work Start Date	Work End Date	Drilling Company	Date Entered
There has been no activity related to this well.				

## Well Work Dates

Start Date of Construction	End Date of Construction	Start Date of Alteration	End Date of Alteration	Start Date of Decommission	End Date of Decommission
1982-02-01					

## Well Completion Data

Total Depth Drilled:	Static Water Level (BTOC): 66.00 feet	Well Cap:
Finished Well Depth: 225.00 feet	Estimated Well Yield: 1.200 USGPM	Well Disinfected Status: Not Disinfected
Final Casing Stick Up:	Artesian Flow:	Drilling Method: Other
Depth to Bedrock:	Artesian Pressure:	Orientation of Well: VERTICAL
Ground elevation:	Method of determining elevation: Unknown	

## Lithology

From (ft bgl)	To (ft bgl)	Raw Data	Description	Moisture	Colour	Hardness	Observations	Water Bearing Flow Estimate (USGPM)
0.00	15.00	surface till, brown clay						
15.00	45.00	clay, boulder till						
45.00	93.00	coarse gravel, boulder till						
93.00	125.00	angular and round rock, fine gravel,						
0.00	0.00	tr. grey clay						
125.00	148.00	coarse and fine sand, angular rock, some						
0.00	0.00	grey clay						
148.00	195.00	clay till						
195.00	225.00	angular rock, some med. snd tr. grey						
0.00	0.00	clay						

## Casing Details

From (ft)	To (ft)	Casing Type	Casing Material	Diameter	Wall Thickness	Drive Shoe
There are no records to show						

## Surface Seal and Backfill Details

Surface Seal Material: Other	Backfill Material Above Surface Seal:
Surface Seal Installation Method:	Backfill Depth:
Surface Seal Thickness:	
Surface Seal Depth:	

## Liner Details

Liner Material:		Liner perforations	
Liner Diameter:	Liner Thickness:	From	To
Liner from:	Liner to:	There are no records to show	

## Screen Details

Intake Method:	Installed Screens				
Type:	From	To	Diameter	Assembly Type	Slot Size

Material: Other

Opening:

Bottom:

From	To	Diameter	Assembly Type	Slot Size
There are no records to show				

## Well Development

Developed by:

Development Total Duration:

## Well Yield

No well yield data available.

## Well Decommission Information

Reason for Decommission:

Method of Decommission:

Sealant Material:

Backfill Material:

Decommission Details:

## Comments

METHOD OF DRILLING = DRILLED

Alternative Specs Submitted: No

## Documents

- [WTN 49911 Well Record.pdf](#)

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## Existing Use Groundwater Application 100187710 PRRD Myrtle Point

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From: Craddock, Cynthia L FLNR:EX  
To: 'gw@gwsolutions.ca'  
Sent: September 26, 2019 2:19:50 PM PDT  
Attachments: image001.png

Hi Katherine,

Your Existing Use Groundwater Licence application (Tracking # 100187710) has been accepted and assigned individual water file number (File #20012518).

If you have any questions about your application or wish to follow-up on its status, please contact the Groundwater Authorizations team directly at: [WaterActReferrals.LowerMainland@gov.bc.ca](mailto:WaterActReferrals.LowerMainland@gov.bc.ca) or call 604-586-4400 and ask to speak with a *Groundwater Information Technician*. Staff will review your application and may contact you in the future requesting additional information.

Due to the increasing volume of licence applications, processing timelines may be longer than expected. Processing time will vary depending on the completeness, accuracy, and complexity of your application as well as the extent of consultation required with First Nations. Until a final decision is made, section 140 of the *Water Sustainability Act* authorizes you to continue to divert and use water in accordance with the water use described in your application.

Sincerely,



Cynthia Craddock  
A/Natural Resource Specialist, FrontCounter BC  
Ministry of Forests, Lands, Natural Resource Operations and Rural Development  
South Coast Natural Resource Region  
200 – 10428 153<sup>rd</sup> Street, Surrey BC, V3R 1E1  
Phone (778) 572-2249 Fax: (604) 586-4434  
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