



**Central Coast**  
REGIONAL DISTRICT

# **REQUEST FOR QUOTATION**

## **Central Coast Regional District**

Hagensborg Community Water System  
Test Well Drilling

**January 2023**

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## 1.0 PROJECT OVERVIEW

The Central Coast Regional District (CCRD) is proceeding with the design and construction of upgrades to the Hagensborg Community Water System. The proposed water servicing concept includes development of a new groundwater source to supply the system. Two 200 mm (8") diameter groundwater production wells are envisioned for the new water supply.

The location of the Hagensborg community and proposed groundwater well site is depicted in the figure provided in **Appendix A**.

The CCRD has issued this Request for Quotation (RFQ) to solicit quotations from qualified proponents to complete the test well drilling portion of this project.

## 2.0 SCOPE OF WORK

The scope of work covered in this RFQ generally includes:

- Supply and installation of surface and well casings;
- Creation of bentonite surface seals;
- Supply and installation of well screens; and
- Development of both test wells.

Further details are provided below.

### 2.1 Supervision

Kala Geosciences Ltd. (Kala) has been retained to provide hydrogeological input and supervision for the test well drilling program. Kala will be the CCRD's authorized representative for this work.

### 2.2 Site Access

Two potential test well sites have been selected. Both sites have been cleared and graded with a footprint of 20 m x 20 m (65' x 65') available for the test well drilling operation. The sites are accessible via Snootli Creek Road at Highway #20.

### 2.3 Subsurface Conditions

The subsurface conditions in the area generally consist of sand and gravel with numerous cobbles and boulders.

Most successful drinking water wells in this part of the Bella Coola Valley are understood to be less than 30 m (100') deep, based on local knowledge. Where drilling has advanced beyond this depth, encountering elevated iron and similar parameters is reportedly common.

Logs for two existing wells drilled on the subject site are included in **Appendix B** for reference.

## 2.4 Well Construction

Each of the two (2) proposed test wells is envisioned to include:

- Supply and installation of a 300 mm (12") diameter surface casing to a depth of 6 m (20');
- Supply and installation of a 200 mm (8") diameter well casing to a depth of approximately 35 m (110') or less;
- Installation of a grouted bentonite surface seal between the surface and well casings;
- Supply and installation of a 200 mm (8") diameter, 1.5 m (5') long, screen unit (slot size to be determined).

After placement of the surface seal, the surface casing shall be retracted. The well casing shall extend 0.9 m (3') above ground. A vermin proof well cap shall be supplied and installed to secure the well upon completion.

Kala will provide a range of screen slot sizes the proponent should bring to site. The final screen selection will be completed by Kala on site based on drilling observations including direction regarding the length of screen to be exposed and the depth at which the screen is to be placed.

## 2.5 Well Development

Kala will supply the submersible pump required for development of the wells. Proponents should allow for eight (8) hours of crew time per well to assist with development.

Following development, Kala will conduct the pump / drawdown testing to determine the well yield, specific capacity, and similar. For context, the desired flow rate for each well is in the order of 6.3 L/s (100 GPM).

## 3.0 PROPONENT QUALIFICATIONS

As per the British Columbia Groundwater Protection Regulation, proponents shall be a Certified Water Well Driller to be considered for this work.

## 4.0 SCHEDULE

The test well drilling is desired to be completed by March 31, 2023 if possible.

This time line is driven by a need to advance the overall water system improvement project, but also targets a typical window for favourable weather / road conditions. A portion of Highway #20 in the vicinity of Tweedsmuir Provincial Park consists of a two-lane gravel road, including "The Hill". Operators of larger vehicles (such as drill rigs) report a preference to travel this route when the road is frozen as opposed to during the spring thaw when potholes and similar prove problematic.

Although the CCRD prefers this work to be completed by March 31, 2023 proponents may propose a schedule that extends beyond this date of availability requires such, and access or other considerations are suitable.

## 5.0 CONTRACTUAL REQUIREMENTS

The CCRD will issue a purchase order to the successful proponent for the value of the quotation price plus GST.

Proponents are expected to carry commercial general liability insurance as well as automotive, equipment, or other appropriate insurance coverage for the proposed scope of work.

The successful proponent will be the Prime Contractor for the work, and as such, will be expected to have applicable WorkSafeBC coverage in place.

A Bid Bond, Performance Bond, or Labour and Material Payment Bond are not required for this RFQ.

Payment will be based on the actual measured quantities for each component of work at the quoted unit prices.

## 6.0 SUBMISSION REQUIREMENTS

### 6.1 Submission of Quotation

Quotations shall be submitted electronically, in PDF format, via email to:

Central Coast Regional District  
c/o Urban Systems Ltd.  
Attention: Jacob Scissons, P.Eng.  
[jscissons@urbansystems.ca](mailto:jscissons@urbansystems.ca)

Proponents must respond to this RFQ by **February 1, 2023**.

Any inquiries regarding this RFQ should be directed in writing to the above.

### 6.2 Quotation Form

Quotations shall be submitted on the Quotation Form provided in **Appendix C**.

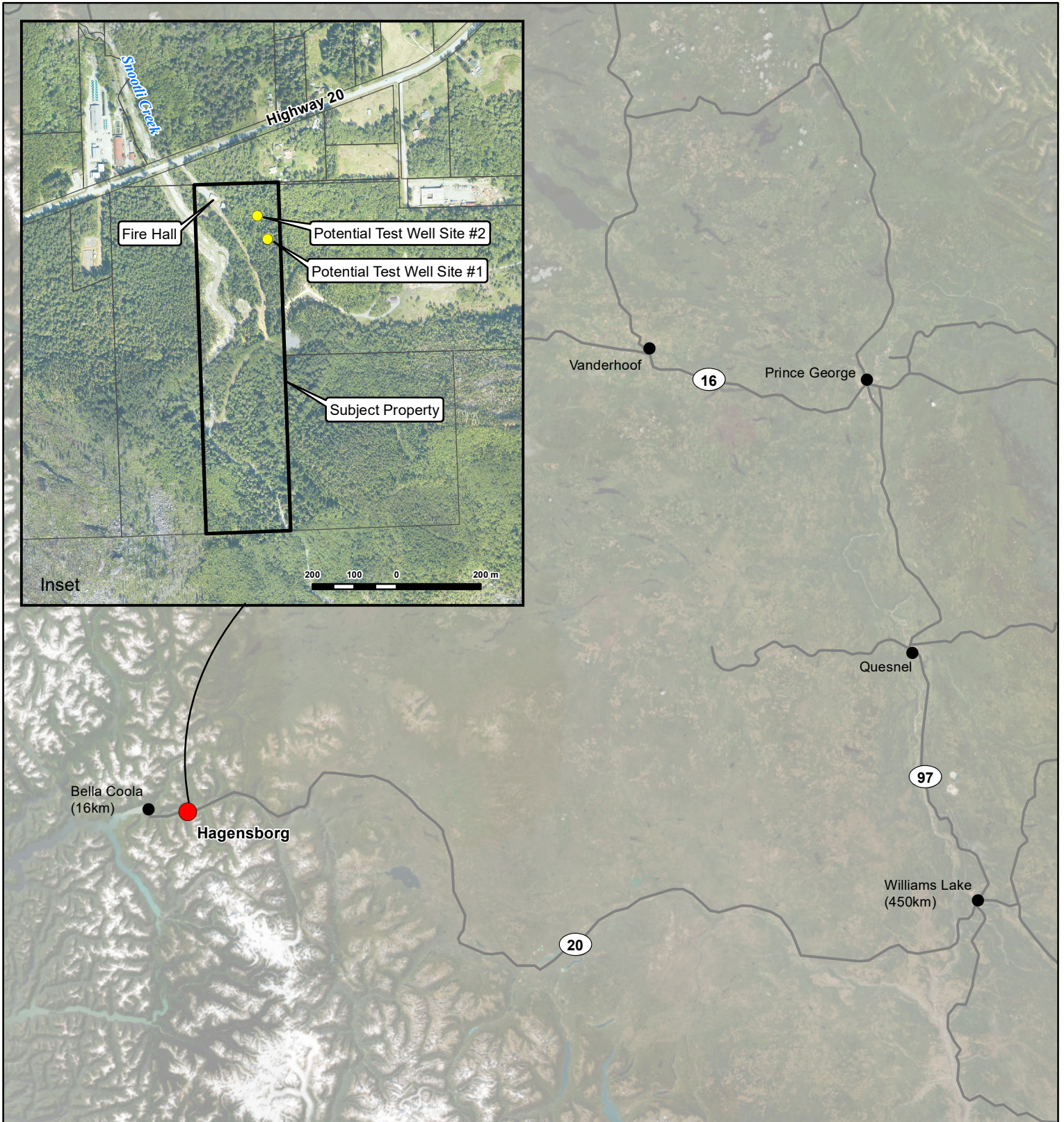
### 6.3 Submission Evaluation

The CCRD will evaluate proponent quotations based on the best value for money. Consideration will also be given to the proponent based on experience and availability of resources.

The CCRD reserves the right to award all, portions, or none of the work to any proponent.

# APPENDIX A

## LOCATION AND SITE PLAN



**Hagensborg Community Water System  
Test Well Drilling  
Location / Site Plan**

<p>Kilometres</p>	<p>N</p>
<p>Coordinate System: NAD 1983 UTM Zone 9N</p>	<p>Scale: 1:2,000,000</p>
<p>Data Sources: Inset Orthophoto - TerraRemote 2020 Aerial Imagery - ESRI BaseMaps Parcel data - NRCAN</p>	
<p>Project #: 3383.0014.01 Author: JC Checked: JS Status: Revision: A Date: 2023 / 1 / 13</p>	
<p><b>FIGURE 1</b></p>	

The accuracy & completeness of information shown on this drawing is not guaranteed. It will be the responsibility of the user of the information shown on this drawing to locate & establish the precise location of all existing information whether shown or not.

# APPENDIX B

## REFERENCE WELL LOGS



Entered & sent to customer

JR Drilling Central K-1030



Ministry of Environment

- Well Construction Report
- Well Closure Report
- Well Alteration Report

1-866-711-8118  
WD 06030601

Ministry Well ID Plate Number: 38304  
Ministry Well Tag Number: 107898  
 Confirmation/alternative specs. attached  
 Original well construction report attached

Red lettering indicates minimum mandatory information. See reverse for notes & definitions of abbreviations.

Owner name: Hagensborg Waterworks District  
Mailing address: PO Box 25 Town Hagensborg Prov. BC Postal Code V0T 1H0

Well Location: Address: Street no. 1838 Street name Highway 20 Town Hagensborg  
 Legal description: Lot \_\_\_\_\_ Plan \_\_\_\_\_ D.L. \_\_\_\_\_ Block \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rg. \_\_\_\_\_ Land District \_\_\_\_\_

PID: 009-606-851 (and) Description of well location (attach sketch, if nec.):  
Part E 1/2 of NE 1/4 Section 34 TWP 1 Rg 3

NAD 83: Zone: \_\_\_\_\_ UTM Easting: \_\_\_\_\_ m Latitude (see note 3): 52° 22.33  
(see note 2) (and) UTM Northing: \_\_\_\_\_ m  Longitude: 126° 36.15 Elev -101

Method of drilling:  air rotary  cable tool  mud rotary  auger  driving  jetting  excavating  other (specify): \_\_\_\_\_  
Orientation of well:  vertical  horizontal Ground elevation: \_\_\_\_\_ ft (asl) Method (see note 4): \_\_\_\_\_

Class of well (see note 5): water supply Sub-class of well: Domestic  
Water supply wells: indicate intended water use:  private domestic  water supply system  irrigation  commercial or industrial  other (specify): \_\_\_\_\_

**Lithologic description** (see notes 7-14) or **closure description** (see notes 15 and 16)

From ft (bgl)	To ft (bgl)	Relative Hardness	Colour	Material Description (Use recommended terms on reverse. List in order of decreasing amount, if applicable)	Water-bearing Estimated Flow (USgpm)	Observations (e.g., fractured, weathered, well sorted, silty wash), closure details
0	48	Medium	Brown	Sand & gravel with boulders		
48	53	Medium	Brown	Sand & gravel	moist	
53	86	Medium	Brown	Sand & gravel	wet	
86	96	Soft	Brown	Fine sand & gravel	wet	
96	105	Soft	Brown	Fine to medium sand	wet	
105	136	Soft	gray	Fine to medium sand with silt	wet	
136	174	Soft	Brown	Fine to medium sand	wet	
174	216	soft	<del>soft</del> gray	Fine to medium sand	wet	
216	233	Soft	Brown	Fine to medium sand & silt	wet	
233	245	Soft	gray	Fine to medium sand & clay	wet	
245	320	Soft	gray	Clay	dry	

**Casing details**

From ft (bgl)	To ft (bgl)	Dia in	Casing Material / Open Hole	Wall Thickness in	Drive Shoe
0	20	10	Casing pulled		
0	91	8	Steel	3/22	B.B

**Screen details**

From ft (bgl)	To ft (bgl)	Dia in	Type (see note 18)	Slot Size
89	91	7	K-pak, riser	
91	96	7	screen	20

Surface seal: Type: Bentonite chips Depth: 20 ft  
Method of installation:  Poured  Pumped Thickness: \_\_\_\_\_ in  
Backfill: Type: \_\_\_\_\_ Depth: \_\_\_\_\_ ft  
Liner:  PVC  Other (specify): \_\_\_\_\_  
Diameter: \_\_\_\_\_ in Thickness: \_\_\_\_\_ in  
From: \_\_\_\_\_ ft (bgl) To: \_\_\_\_\_ ft (bgl) Perforated: From: \_\_\_\_\_ ft (bgl) To: \_\_\_\_\_ ft (bgl)

Intake:  Screen  Open bottom  Uncased hole  
Screen type:  Telescope  Pipe size  
Screen material:  Stainless steel  Plastic  Other (specify): \_\_\_\_\_  
Screen opening:  Continuous slot  Slotted  Perforated pipe  
Screen bottom:  Bail  Plug  Plate  Other (specify): \_\_\_\_\_  
Filter pack: From: \_\_\_\_\_ ft To: \_\_\_\_\_ ft Thickness: \_\_\_\_\_ in  
Type and size of material: \_\_\_\_\_

**Developed by:**

Air lifting  Surging  Jetting  Pumping  Bailing  
 Other (specify): \_\_\_\_\_ Total duration: 4.5 hrs  
Notes: \_\_\_\_\_

**Well yield estimated by:**

Pumping  Air lifting  Bailing  Other (specify): \_\_\_\_\_  
Rate: 60 USgpm Duration: 4.5 hrs  
SWL before test: 42 ft (btoc) Pumping water level: \_\_\_\_\_ ft (btoc)

**Obvious water quality characteristics:**

Fresh  Salty  Clear  Cloudy  Sediment  Gas  
Colour/odour: \_\_\_\_\_ Water sample collected:

**Well driller** (print clearly):

Name (first, last) (see note 19): Terry Oppen  
Registration no. (see note 20): WD-08052101  
Consultant (if applicable; name and company): \_\_\_\_\_

**DECLARATION:** Well construction, well alteration or well closure, as the case may be, has been done in accordance with the requirements in the Water Act and the Ground Water Protection Regulation.

Signature of Driller Responsible: [Signature]

**Final well completion data:**

Total depth drilled: 320 ft Finished well depth: 96 ft (bgl)  
Final stick up: 24 in Depth to bedrock: \_\_\_\_\_ ft (bgl)  
SWL: 42 ft (btoc) Estimated well yield: 560 USgpm  
Artesian flow: \_\_\_\_\_ USgpm, or Artesian pressure: \_\_\_\_\_ ft

Type of well cap: locking Well disinfected:  Yes  No  
Where well ID plate is attached: Casing

**Well closure information:**

Reason for closure: \_\_\_\_\_  
Method of closure:  Poured  Pumped  
Sealant material: \_\_\_\_\_ Backfill material: \_\_\_\_\_  
Details of closure (see note 17): \_\_\_\_\_

**Date of work** (YYYY/MM/DD):

Started: 13/7/2 Completed: 13/7/4  
Comments: Well # 2

**PLEASE NOTE:** The information recorded in this well report describes the works and hydrogeologic conditions at the time of construction, alteration or closure, as the case may be. Well yield, well performance and water quality are not guaranteed as they are influenced by a number of factors, including natural variability, human activities and condition of the works, which may change over time.

white: Customer copy  
canary: Driller copy  
pink: Ministry copy  
Sheet 1 of 1



- Well Construction Report**
- Well Closure Report**
- Well Alteration Report**

Stamp company name/address/  
phone/fax/email here, if desired.

Ministry Well ID Plate Number: 38307

Ministry Well Tag Number: 107899

Existing Well Tag Number: \_\_\_\_\_

- Confirmation/alternative specs. attached
- Original well construction report attached

**Red lettering indicates minimum mandatory information**

**See reverse for notes & definitions of abbreviations.**

Owner Name: Hagensborg Waterworks District

Mailing address: PO Box 25 Town Hagensborg Prov BC Postal Code V0T1H0

Well location: Street 1838 Highway 20 Town Hagensborg

Legal description: Lot \_\_\_\_\_ Plan \_\_\_\_\_ D.L. \_\_\_\_\_ Block \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rg. \_\_\_\_\_ Land District \_\_\_\_\_

PID: 99666851 and Description of well location (attach sketch, if nec.): Part E 1/2 of NE 1/4 Sec. 34 Twp. 1 Range 3

NAD 83:Zone: \_\_\_\_\_ UTM Northing: \_\_\_\_\_ m Latitude (see note 3): 52° 22' 35.00"  
(see note 2) and UTM Easting: \_\_\_\_\_ m  Longitude: 126° 36' 12.99"

Method of drilling:  air rotary  cable tool  mud rotary  auger  driving  jetting  excavating  other (specify): \_\_\_\_\_

Orientation of well:  vertical  horizontal Ground elevation: 165 ft (asl) Method (see note 4): GPS

Class of well (see note 5): Water supply Sub-class of well: Domestic

Water supply wells, indicate intended water use:  private domestic  water supply system  irrigation  commercial or industrial  other (specify): \_\_\_\_\_

**Lithologic description (see notes 7-14) or closure description (see notes 15 and 16)**

From ft (bgl)	To ft (bgl)	Relative Hardness	Colour	Description	Material Description	Water-bearing Estimated Flow (USgpm)	Observations (e.g. fractured, weathered, well sorted, silty wash), closure details
					(use recommended terms on reverse. List in order of decreasing amount, if applicable)		
0	38	Hard	grey		sand and gravel with boulders		
38	42	Medium	brown		sand and gravel		moist
42	68	Medium	brown		sand and gravel		high production
68	80	Soft	brown		fine to medium sand and gravel with silt		

**Casing details**

From ft (bgl)	To ft (bgl)	Dia in	Casing Material/Open Hole	Wall Thickness in	Drive Shoe
0	20	10	Steel Pulled Out		No
0	58	8	Steel	322	No

**Screen details**

From ft (bgl)	To ft (bgl)	Dia in	Type (see note 18)	Slot Size
56	58	7	K-Packer & Riser	
58	63	7	Screen	100

Production Casing Diameter: 8 in

Surface seal: Type: Bentonite clay Depth: 20 ft

Method of installation:  Poured  Pumped Thickness: 1 in

Backfill: Type: \_\_\_\_\_ Depth: \_\_\_\_\_ ft

Liner:  PVC  Other (specify): \_\_\_\_\_

Diameter: \_\_\_\_\_ in Thickness: \_\_\_\_\_ in

From: \_\_\_\_\_ ft bgl To: \_\_\_\_\_ ft bgl Perforated: From: \_\_\_\_\_ ft bgl To: \_\_\_\_\_ ft bgl

Intake:  Screen  Open bottom  Uncased hole

Screen type:  Telescope  Pipe size

Screen material:  Stainless steel  Plastic  Other (specify): \_\_\_\_\_

Screen opening:  Continuous slot  Slotted  Perforated Pipe

Screen bottom:  Bail  Plug  Plate  Other (specify): \_\_\_\_\_

Filter pack From: \_\_\_\_\_ ft To: \_\_\_\_\_ ft Thickness: \_\_\_\_\_ in

Type and size of material: \_\_\_\_\_

**Developed by:**

Air lifting  Surging  Jetting  Pumping  Bailing

Other (specify): \_\_\_\_\_ Total duration: 5 hrs

Notes: \_\_\_\_\_

**Well yield estimated by:**

Pumping  Air lifting  Bailing  Other (specify): \_\_\_\_\_

Rate: 150 USgpm Duration: 5 hrs

SWL before test: 36 ft (btoc) Pumping water level: \_\_\_\_\_ ft (btoc)

**Obvious water quality characteristics:**

Fresh  Salty  Clear  Cloudy  Sediment  Gas

Colour/odour: \_\_\_\_\_ Water sample collected:

**Well driller (print clearly):**

Name (first, last) (see note 19): Jerry Oppen

Registration no. (see note 20): WD 08052101

Consultant (if applicable name and company): \_\_\_\_\_

**DECLARATION:** Well construction, well alteration or well closure, as the case may be, has been done in accordance with the requirements in the Water Act and the Ground Water Protection Regulation.

Signature of Driller Responsible

**Final well completion data:**

Total depth drilled: 80 ft Finished well depth: 63 ft bgl

Final stick up: 24 in Depth to bedrock: \_\_\_\_\_ ft bgl

SWL: 37 ft (btoc) Estimated well yield: 150.00 USgpm

Artesian flow: \_\_\_\_\_ USgpm, or artesian pressure: \_\_\_\_\_ ft

Type of well cap: welded plate Well disinfected:  yes  no

Where well ID plate is attached: casing

**Well closure information:**

Reason for closure: \_\_\_\_\_

Method of closure: \_\_\_\_\_

Sealant material: \_\_\_\_\_ Backfill material: \_\_\_\_\_

Details of closure: \_\_\_\_\_

**Date of work (YYYY/MM/DD):**

Started: 2013/07/06 Completed: 2013/07/06

Comment: \_\_\_\_\_

## General

1. Requirements for well construction and well closure reports are found in Part 5 of the Water Act and the Ground Water Protection Regulation. Part 5 of the act and regulation are available at: [http://www.env.gov.bc.ca/wsd/plan\\_protect\\_sustain/groundwater/index.html](http://www.env.gov.bc.ca/wsd/plan_protect_sustain/groundwater/index.html).
2. The current Ministry standard datum for mapping and geodetic use is the North American Datum of 1983 (NAD 83). To determine GPS coordinates using a Global Positioning System (GPS), set the datum to NAD 83.
3. For latitude and longitude coordinates, provide coordinates either in degree, minutes and seconds (e.g., 50° 2' 21.037") or decimal degrees (e.g., 50.039175°).
4. For the method of determining ground elevation, enter: GPS, differential GPS, level, altimeter, 1:50,000 map, 1:20,000 map, 1:10,000 map or 1:5,000 map.
5. The classes and sub-classes of wells are shown below:

Class	Sub-class (if applicable)
Water supply	Domestic; Non-domestic
Monitoring	Temporary; Permanent
Recharge or injection	
Dewatering or drainage	Temporary; Permanent
Remediation	Temporary; Permanent
Geotechnical	Borehole; Test pit; Special type of hole; Closed loop geothermal

6. Well reports submitted to the Deputy Comptroller, or retained by the person responsible, as required under the Water Act and the Ground Water Protection Regulation, shall be considered part of the Provincial Government records and is subject to the Freedom of Information and Protection of Privacy Act.

## How to Fill Out the Lithologic Description Table

7. Each row in the lithologic description table represents either a depth interval or depth in the well.
8. A row could represent a depth interval (e.g., from 0 feet to 12 feet), such as for a geologic stratum or a specific depth (e.g., 120 feet), such as for a depth location of a water-bearing fracture.
9. For a depth interval, enter the relative hardness of the material in the column "Relative Hardness," if applicable: Very Hard (VH), Hard (H), Dense (D), Stiff (ST), Medium (M), Loose (L), Soft (S), Very Soft (VS).
10. For a depth interval, enter the letter for the overall colour of the geologic material in the column "Colour," if applicable: White (W), Grey (Gy), Blue (Bl), Green (G), Yellow (Y), Brown (Br), Red (R), Tan (T), Black (Bk).
11. For each depth interval, enter the description of the geologic materials encountered during drilling in the column "Material Description." Material descriptions should be chosen from the following recommended list of materials:

### Surficial materials (approximate range of particle size)

boulders (greater than 10 inches)  
 cobbles (2 1/2 inches to 10 inches)  
 gravel (80 slot to 2 1/2 inches)  
 coarse sand (25 slot to 80 slot)  
 medium sand (10 slot to 25 slot)  
 fine sand (2 slot to 10 slot)  
 silt (less than 2 slot)  
 clay (much less than 2 slot)  
 till (variable particle size)  
 organics (e.g., top soil, wood, peat)

### Bedrock materials

conglomerate  
 sandstone  
 shale  
 siltstone  
 limestone  
 crystalline  
 granite  
 basalt  
 volcanic  
 bedrock

12. In describing the material, list the material in order from greatest to least and indicate what materials occur in trace (less than 5%) amounts. The word "and" means both materials occur in approximately equal amounts (e.g., "gravel and coarse sand, trace silt").
13. Under the column "Water-bearing Estimated Flow (USgpm)," use "D" for "dry," "W" for "wet," or enter the estimated flow in USgpm.
14. If a water-bearing fracture is encountered, the depth of the fracture should be recorded in a row and the estimated flow of water in the fracture can be entered in the column "Water-bearing Estimated Flow (USgpm)."

## How to Fill Out the Closure Description Table and the Well Closure Information Section

15. Each row in the closure description table represents either a depth interval (e.g., from 0 feet to 12 feet) or depth (e.g., 120 feet) in the well.
16. For a depth interval, enter the type of backfill or sealant material(s) in the column "Material Description."
17. Indicate in "Details of closure" whether casing(s) or screen(s) were pulled or left in place. If casing(s) were left in place, indicate whether it was perforated or ripped.

## Screen Details

18. "Type" includes riser pipe, K-packer, screen, screen blank, or tail pipe.

## Well Driller

19. Fill in the name of the driller who constructed the well.

## Registration Number of Driller Responsible

20. Fill in the registration number on the Qualified Well Driller identification card. If the work was completed by a driller who is not registered as a Qualified Well Driller, the Qualified Well Driller who is directly supervising the work should fill in their registration number on their Qualified Well Driller identification card. The Qualified Well Driller signs the form.

## Definitions of Abbreviations

asl .....above sea level	ft .....feet	PID .....Parcel Identifier	USgpm ...US gallons per minute
bgl .....below ground level	hrs .....hours	Rg. ....Range	UTM .....Universal Transverse
btc .....below top of casing	in .....inches	Sec. ....Section	Mercator Grid
Dia .....Diameter	NAD 83 ...North American	SWL .....static water level	
D.L. ....District Lot	Datum (1983)	Twp. ....Township	

# APPENDIX C

## QUOTATION FORM

# QUOTATION FORM

## 1. Proponent Contact Information

The following proponent information is requested:

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

BC Certificate Number: \_\_\_\_\_

Primary Project Contact:

Name: \_\_\_\_\_

Office Number: \_\_\_\_\_

Cell Number: \_\_\_\_\_

Email: \_\_\_\_\_

## 2. Relevant Experience

Proponents are asked to highlight experience on projects of a similar nature.

**Project #1:** \_\_\_\_\_

Location of Work: \_\_\_\_\_

Year: \_\_\_\_\_

Nature and Scale of Work: \_\_\_\_\_

Reference Contact Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

# QUOTATION FORM

**Project #2:** \_\_\_\_\_

Location of Work: \_\_\_\_\_

Year: \_\_\_\_\_

Nature and Scale of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reference Contact Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

### **3. Schedule**

Identify the following milestone dates:

- |  |                  |
|--|------------------|
| • RFQ Closing  | February 1, 2023 |
| • Identification of Preferred Proponent                        | February 6, 2023 |
| • CCRD Board Approval / Contract Award to Successful Proponent | February 9, 2023 |
| • Mobilization to Hagensborg                                   | _____            |
| • Well Drilling  | _____            |
| • Well Development   | _____            |
| • Project Completion   | _____            |

Provide any additional comments regarding anticipated schedule.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# QUOTATION FORM

## 4. Quotation Price

Populate the table below with quoted unit prices for the proposed work as well as the extended amount based on quantity x unit price. The Quotation Price shall be considered the sum of all quoted unit prices x estimated quantities. Units are provided in US customary / imperial units for convenience.

Item	Description	Units	Quantity	Unit Price	Amount
1	Mobilization and demobilization.	L.S.	1		
2	Supply and install 12" drive shoe.	ea.	2		
3	Supply and install 12" surface casing.	feet	40		
4	Supply and install 8" drive shoe.	ea.	2		
5	Supply and install 8" well casing.	feet	220		
6	Bentonite surface seal.	ea.	2		
7	Supply and install 8" diameter, 5' long well screen (two screens per well).	ea.	4		
8	Supply and install screen fittings including bail bottom, 2' riser pipe, and K-packer.	ea.	2		
9	Supply and install vermin proof well cap.	ea.	2		
10	Well development.	Crew hr.	16		
11	Living out allowance.	Crew day	7		
<b>Total (excluding GST):</b>					<b>\$</b>

Please provide hourly crew standby rate: \$ \_\_\_\_\_ / hr and attach unit rate sheet for other potential as and when services required.

## 5. Quotation Endorsement

The quotation shall be endorsed by an authorized signatory of the proponent below.

\$

\_\_\_\_\_  
 QUOTATION PRICE (excl. GST)

\_\_\_\_\_  
 NAME OF PROPONENT

\_\_\_\_\_  
 AUTHORIZED SIGNATORY FOR PROPONENT