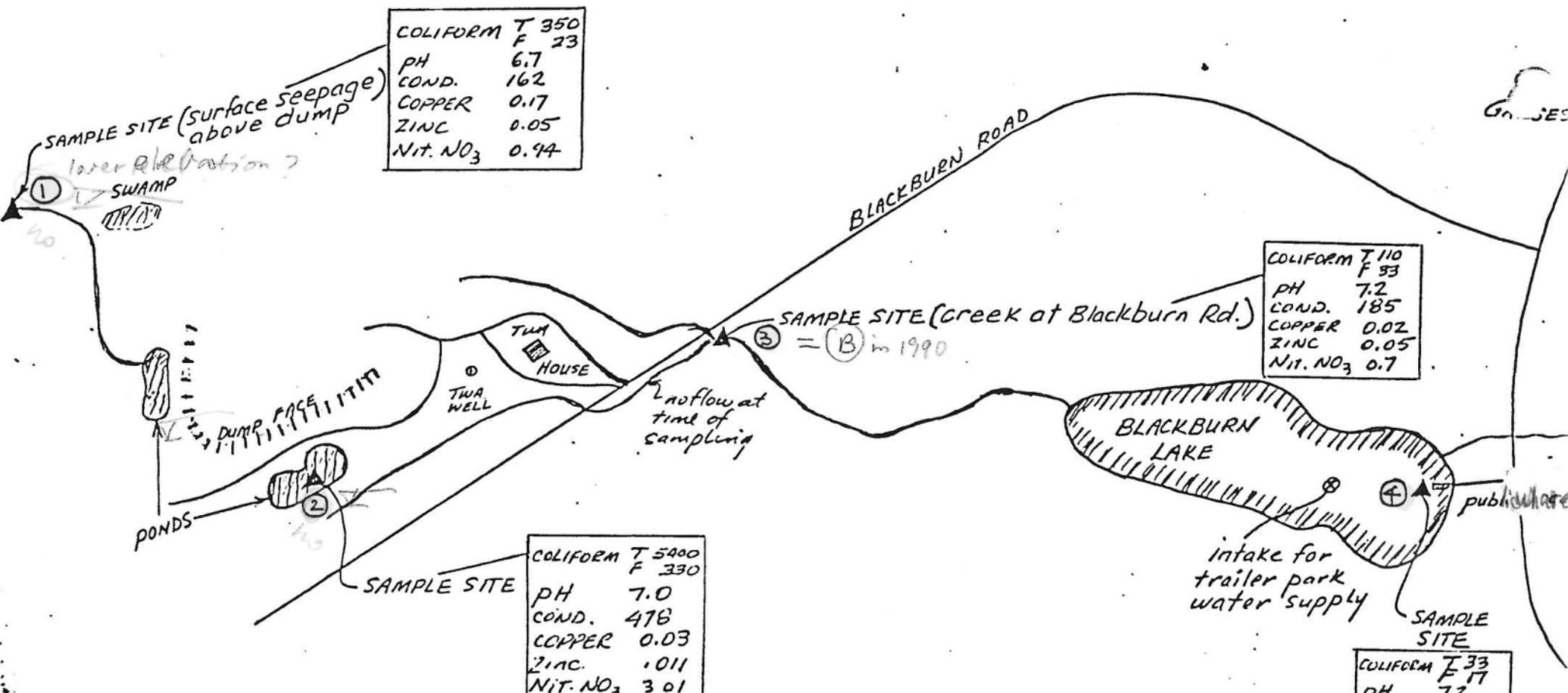


DATA, 1983



COMMENTS:
 The TWA well could not be sampled as it is not used at this time of year. They rely on another shallow well for their water in winter. At the time of sampling there was no surface flow between the lower dump pond/TWA/CRD LANDFILL - SAMPLING LOCATIONS

①②③④: Measurements done in 1983

ABLE 1.

- SITE ① SURFACE SEEPAGE ABOVE DUMP.
 ② LER POND AT DUMP.
 ③ CREEK AT BLACKBURN ROAD (E. OF DUMP).
 ④ BLACKBURN LAKE AT PUBLIC ACCESS.

TWA LANDFILL

	SITE ①	SITE ②	SITE ③	SITE ④	UNITS
pH	6.7	7.0	7.2	7.2	-
SPECIFIC CONDUCTANCE	162	478	185	113	MICROMHOS PER CENTIMETER
CHLORIDE	9.8	30.4	12.8	8.1	PPM.
✓ TOTAL NITROGEN	1.16	3.40	1.02	1.60	PPM.
0 PHENOL	L0.002	L0.002	L0.002	0.002	PPM.
0 CHEMICAL OXYGEN DEMAND	13	L10	13	26	PPM.
✓ TOTAL PHOSPHORUS	0.056	0.030	0.028	0.035	PPM.
✓ TOTAL FAECAL COLIFORMS	350/23	5400/330	110/33	33/17	MPN/100 mL.
✓ ARSENIC	L0.25	L0.25	L0.25	L0.25	PPM.
✓ CADMIUM	L0.01	L0.01	L0.01	L0.01	PPM.
CHROMIUM	L0.01	L0.01	L0.01	L0.01	PPM.
COPPER	0.17	0.03	0.02	0.04	PPM.
✓ IRON	0.56	0.27	0.80	1.56	PPM.
LEAD	L0.1	L0.1	L0.1	L0.1	PPM.
MAGNESIUM	2.56	8.04	2.70	1.80	PPM.
MANGANESE	0.01	0.04	0.08	0.04	PPM.
MOLYBDENUM	L0.01	0.02	L0.01	L0.01	PPM.
NICKEL	L0.05	L0.05	L0.05	L0.05	PPM.
ZINC	0.05	0.011	0.05	0.15	PPM.
ALUMINIUM	0.19	0.32	0.12	0.15	PPM.
COBALT	L0.1	L0.1	L0.1	L0.1	PPM.
VANADIUM	L0.01	L0.01	L0.01	L0.01	PPM.
CALCIUM	43.3	58.4	59.8	98.2	PPM.
0 ALDRIN	L0.0004	L0.0004	L0.0004	L0.0004	PPM.
0 TOTAL B.H.C.	L0.0004	L0.0004	L0.0004	L0.0004	PPM.
0 CHLORDANE	L0.005	L0.005	L0.005	L0.005	PPM.
0 DIELDRIN	L0.0001	L0.0001	L0.0001	L0.0001	PPM.
0 HEPTACHLOR	L0.0001	L0.0001	L0.0001	L0.0001	PPM.
0 LINDANE	L0.0001	L0.0001	L0.0001	L0.0001	PPM.
0 METHOXYCHLOR	L0.0008	L0.0008	L0.0008	L0.0008	PPM.

L = LESS THAN.

FAECAL COLIFORM LEVELS ACHESON FARM AREA.

DATE	EAST	SOUTH	NORTH	RAGBOURNE	HUME
30.6.81	-	13	-	-	-
28.4.82	-	-	-	L2	L2
6.5.82	-	-	-	L2	L2
1.6.82	-	-	-	L2	L2
20.7.82	-	L2	-	-	-
11.1.83	L20	L20	790	L2	2
1.2.83	2	540	130	L2	L2
23.2.83	-	-	-	L2	-

NOTE: THE EAST, NORTH & SOUTH WELLS ARE LOCATED 10-15 FT. FROM THE LAGOONS. WE SUSPECT ANIMAL CONTAMINATION ON 11/1/83 & 1/2/83.

April 13, 1983



Waste Management Branch
1815 Blanshard Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

nanaio
Our Files: PR 1839 ←

PE 4361

Saltspring Island Planning Association,
PO Box 12,
Ganges, B.C. VOS 1E0

Attention: Mr. D.F. Skinner

Dear Mr. Skinner:

I must apologise for the delay in getting this information to you. The original report to us from the Environmental Laboratory got lost in the mail.

Enclosed are summaries of data for the Blackburn Road area, and the Acheson Farm area.

Two items related to the landfill are of significance:-

1. There is a higher level of faecal coliforms in the pond below the landfill than in the surrounding surface waters. This may be caused by birds or animals attracted to the landfill, or by discharge of diapers or other faecal-contaminated matter at the site. The level found is not high (cf. 200 MPN/100 mls for swimming). This faecal contamination may be the source of the coliforms in Blackburn Lake, although the surface water above the landfill has a higher coliform level than the lake, and there was no flow out of the pond towards the creek. The Health Inspector has been informed of the coliform levels, because of the use of the lake for domestic purposes.
2. No pesticides were found in the scan performed; all items tested were below the detectable limits.

...Page 2.

- Page 2 -

The data from the Acheson farm indicates that domestic wells west of the lagoons are not being affected by the operation.

We shall continue to monitor these sites as staffing allows. If you have any questions, please let us know.

Yours truly,



K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

KHA/ew

Enclosure



MINISTRY OF ENVIRONMENT
RECEIVED

FEB - 1 1989

File: 0183613-C

Date: Jan. 27/89

NANAIMO, B.C.

Mr. Brian Epps.
Min. of Environment
Water Management Br.
2569 Kenworth Rd.,
Nanaimo, B.C.
V9T 4P7.

Dear Brian,

As requested, please find enclosed groundwater information we have on file for the area you are interested in. The following has been enclosed:

Well records and location map for Saltspring Island as requested by Waste Management, Nanaimo. If they need newer well information, let me know. I have also enclosed a groundwater report on Saltspring Island. It's on loan only, though, and we need it returned to us by Feb. 12/89. Thanks.

If we can be of further assistance, please contact our office in Victoria at 387-1115.

Yours truly,

A.P. Kohut, Acting Head
Groundwater Section
Water Management Branch

Per: Carol Foot

Encl.

WATER MGR.		
ENG.		
TECH.		
CLERK-ENG		
FILE		

1948.08.17	F 13131	BIRD CR	C3	8750K	500.00	GD	DOM	s.22	0175031
1955.09.16	C 22899	BIRD CR	C3	8750K	500.00	GD	DOM		0209398
1984.08.22	C 61482	BIRD CR	S9	8750K	.25	AF	IRR		1000406
1964.03.03	C 55588	BLACKBURN LK	SR	92.B.083.2.1	500.00	GD	DOM	BE IRR 10 AC OF L 1 PLAN 17652 EXC PLAN 32206; L A PLAN 32206; SEC 86 SALTSRING COWICHAN DIST	KENTON ENTERPRISES LTD 0255117
1973.02.23	C 42049	BLACKBURN LK	N	92.B.083.2.1	7,000.00	GD	IND	s.22	0316424 PCL 09360
1981.09.03	C 59650	BLACKBURN LK	CC EE	92.B.083.2.1	19.00 4000.00	AF GD	IRR DOM	19 AC OF NE 1/4 OF SEC 86 COWICHAN DIST EXC PLAN 35855	DHARMA SARA SATSNIG SOCIETY 0369109

1960.03.17 C 41472 CULLISON SPR E 92.B.084.4.1 750.00 GD DOM s.22

0316568

1960.03.17 F 39421 CULLISON SPR E 92.B.084.4.1 500.00 GD DOM

0256058

1929.04.22 F 08138 CURTIS SPR E 92.B.083.3.3 1,000.00 GD DOM

0086127

1970.03.03 C 35777 CUSHEON CR B 92.B.083.2.3 500.00 GD DOM

0296079

1970.10.03 C 37601 CUSHEON CR D 92.B.083.1.4 .50 AF LIM E 1/2 OF L 11 N DIV OF SALTSRING JACK WEBSTER PRODUCTIONS
E ISLAND COWICHAN DIST

0300256

1986.02.13 C 64041 CUSHEON CR C 92.B.083.2.2 30,000.00 GD IND L 23 OF SEC 76 S DIV FISHERIES & OCEANS
(E) SALTSRING ISL COWICHAN
DIST EXC PL 29302

1000563

1967.01.03	F 47421	CUSHEON LK	U T	92.B.083.2.1	1,000.00 GD DOM 18.34 AF IRR	18.34 AC OF L 2 OF SEC 87 & 77 S DIV SALTSRING ISLAND COWICHAN DIST PLAN 19211 LYING N OF CUSHEON CR	Ronette Farms Ltd. HUGHES WENDY LEIGH	0270898
------------	---------	------------	--------	--------------	---------------------------------	---	--	---------

1968.03.20	C 34555	CUSHEON LK	Q	92.B.083.2.1	50,000.00 GD WWK	ALL LANDS WITHIN THE BDYS OF S DIV SALTSRING I COWICHAN DIST	BEDDIS WATERWORKS DISTRICT	0277794 PCL 07177
------------	---------	------------	---	--------------	------------------	--	----------------------------	-------------------

1970.04.28	C 37160	CUSHEON LK	Q	92.B.083.2.1	12,000.00 GD WWK	ALL LANDS WITHIN THE BDYS OF S DIV SALTSRING I COWICHAN DIST	BEDDIS WATERWORKS DISTRICT	0296326
------------	---------	------------	---	--------------	------------------	--	----------------------------	---------

1970.06.16	C 36773	CUSHEON LK	V W	92.B.083.2.1	4,500.00 GD IND	s.22		0296597
------------	---------	------------	--------	--------------	-----------------	------	--	---------

1970.08.04	F 49883	CUSHEON LK	X	92.B.083.2.1	500.00 GD DOM			0296909 PCL 11380
------------	---------	------------	---	--------------	---------------	--	--	-------------------

1972.09.20	F 49716	CUSHEON LK	J	92.B.083.2.1	500.00 GD DOM			0310863 PCL 09121
------------	---------	------------	---	--------------	---------------	--	--	-------------------

1973.04.11	F 52227	CUSHEON LK	E	92.B.083.2.1	500.00 GD DOM			0316724
------------	---------	------------	---	--------------	---------------	--	--	---------

1973.04.11 F 52227 CUSHEON LK E 92.B.083.2.1 500.00 GD DOM s.22

0316724

1973.04.26 C 41668 CUSHEON LK L 92.B.083.2.1 500.00 GD DOM

0316786 PCL 09273

1973.04.26 C 41669 CUSHEON LK M 92.B.083.2.1 500.00 GD DOM

0317731 PCL 09274

1973.09.25 C 42923 CUSHEON LK K 92.B.083.2.1 500.00 GD DOM

0317880

1974.01.29 F 49717 CUSHEON LK H 92.B.083.2.1 500.00 GD DOM

0322418 PCL 11336

1979.05.09 C 54618 CUSHEON LK C 92.B.083.2.1 500.00 GD DOM

0366177 PCL 12569

s.22

1979.05.09	C 54619	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM
1979.05.09	C 54620	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM
1979.05.09	C 54621	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM
1979.05.09	C 54622	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM
1979.05.09	C 54623	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM
1979.05.09	C 54624	CUSHEON LK	C	92.B.083.2.1	500.00	GD	DOM

0366178	PCL 12563
0366179	PCL 12564
0366180	PCL 12565
0366181	PCL 12566
0366182	PCL 12567 AMENDED LAND DESC 87.01.26
0366183	PCL 12568

1979.05.09 C 54735 CUSHEON LK C 92.B.083.2.1 500.00 GD DOM s.22

1979.10.30 C 54302 CUSHEON LK F 92.B.083.2.1 1.00 AF IRR

1979.10.30 CUSHEON LK P5 8764C 1.0 AF STO

1981.07.20 CL 57502 CUSHEON LK DD 92.B.083.2.1 500.00 GD DOM

1981.09.02 CL 58708 CUSHEON LK BB 92.B.083.2.1 500.00 GD DOM

1986.08.07 C 64040 CUSHEON LK JJ 92.B.083.2.1 500.00 GD DOM

89.02.25 CUSHEON LK LF 92.B.083.2.1 DOM
40ccFr IRR

0365527 PCL 12591

0355584

0355584 STOR IN DUGOUT

0368937 PCL

0369108 R/W

1000631 PCL 14764

1000822



88-10-07

CUSHEON LK

NN

92.B.083.2.1

500.00 DOM

s.22

88-12-20

Cusheon LK

PP

92.B.083.2.1

500.00 DOM

1985.01.24

CUSWELL CR

HH
GG

92.B.083.2.1

0.50 AF IRR s.22

1000433

1985.01.24

CUSWELL CR

HH
GG

92.B.083.2.1

0.50 AF STO

1000433

1948.10.01 F 15134

DALRYMPLE SPR

B

92.B.084.3.3

500.00 GD DOM

W

0175791

1949.08.10 F 16109

DANA SPR

Q

92.B.073.4.2

0179952

1948.04.06 F 14509

DANIEL BR

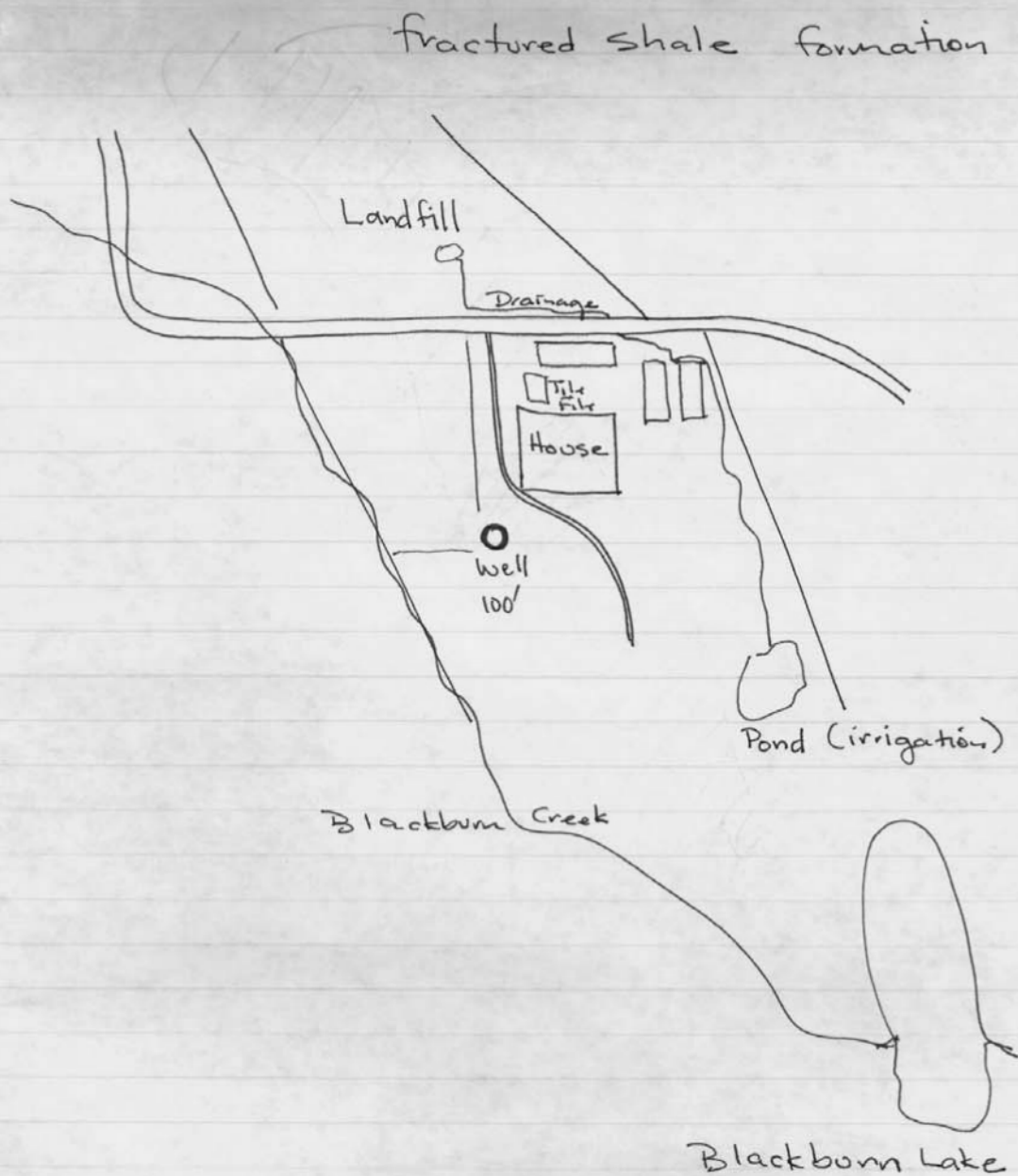
M

92.B.073.4.1

1,000.00 GD DOM

0172868

Site Inspection 11:00 am Jan 31, 1989
Sample of well water taken



ZENON Environmental Inc.

3650 Wesbrook Mall, Vancouver, BC tel (604) 222-1169 fax (604) 222-1612

PR - 1839
Monitoring
Program**FAX**

TO: Fax No.

ATTENTION:

Company:

Location:

() 755-2473
CHRIS JENKINS

MOE

Nanaimo

Phone no. () 758-3951

RE:

Prici Quilt #AV89-088

Message:

As we discussed, here is the
pricing information you require.

Jude

Please call me if you have any questions

Confirmation of receipt required:

Number of Pages including this one:

YES / NO

3

FROM: Judi Mitchell, Marketing Manager

Date:

July 13/89

phone: (604) 222-1169

ZENON

QUOTATION TO:

Ministry of Environment
Nanaimo

ATTENTION:

Mr. Chris Jenkins

Number of samples	4 groundwater and 5 surface water = = 9 samples
Frequency of sampling	2 times per year
Total number of samples	18 waters

ESTIMATE 1 - Includes Metals ICP scan, Dissolved

Parameter	Cost per Test	Extended Cost per Year
Biochemical Oxygen Demand (BOD5)	\$38.40	
Chemical Oxygen Demand (COD)	\$26.40	
Chloride	\$8.40	
Conductivity	\$6.00	
Iron Dissolved	ICP	
Magnesium Dissolved	ICP	
Manganese Dissolved	ICP	
Metals: Dissolved (*D-ICP scan)	\$26.40	
Nitrogen, Ammonia	\$8.40	
pH	\$3.60	
Sodium Na	\$8.40	
Sulfate SO4	\$12.00	

Total	\$138.00 +6	\$2,484.00
-------	----------------	------------

$$+ \$ 108.00 = 2592.00$$

NOTE: If TOTAL metals scan is preferred, the price is \$32.40 rather than \$26.40, and the sums have to be adjusted appropriately. Metals scan are attached.

ESTIMATE 2 - Includes only the 2 metals requested.

Parameter	Cost per Test	Extended Cost per Year
Biochemical Oxygen Demand (BOD5)	\$38.40	
Chemical Oxygen Demand (COD)	\$26.40	
Chloride	\$8.40	
Conductivity	\$6.00	
Iron Dissolved	\$12.00	
Magnesium Dissolved	\$12.00	
Nitrogen, Ammonia	\$8.40	
pH	\$3.60	
Sodium Na	\$8.40	
Sulfate SO4	\$12.00	

Total	\$135.60	\$2,440.80
-------	----------	------------

ZENON

TOTAL and DISSOLVED METALS Scans

Metals ICP scans

TOTAL	DISSOLVED
* Barium	* Barium
* Cadmium	* Boron
* Calcium	* Cadmium
* Chromium	* Calcium
* Cobalt	* Chromium
* Copper	* Cobalt
* Iron	* Copper
* Lead	* Iron
* Magnesium	* Lead
* Manganese	* Magnesium
* Molybdenum	* Manganese
* Nickel	* Molybdenum
* Vanadium	* Nickel
* Zinc	* Vanadium
	* Zinc
Price = \$32.40 In water	Price = \$26.40 In water

✓

LEGAL DESCRIPTION: LOT 1 SEC. 85 TP. _____ R. 4E D.L. _____ LAND DISTRICT COWICHAN PLAN 31795DESCRIPTIVE LOCATION DUKE RD. SUBDIVISION S.S. E LICENCE NO. _____ DATE _____OWNER'S NAME FRASER FARMS ADDRESS _____DRILLER'S NAME KEN'S DRILLING LTD ADDRESS 894 GOLDSTREAM DATE COMPLETED Aug 9/22DEPTH 175' ELEVATION _____ ☐ ESTIMATED ☐ SURVEYED CASING DIAM. 6 1/4" LENGTH 20'

METHOD OF CONSTRUCTION _____ CASING DIAM _____ LENGTH _____

SCREEN LOCATION _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____SANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____PERFORATED CASING ☐ LENGTH _____ PERFORATIONS FROM _____ TO _____GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____DISTANCE TO WATER _____ ☐ ESTIMATED WATER LEVELFROM _____ ☐ MEASURED ELEVATION _____ ARTESIAN PRESSURE _____

DATE OF WATER LEVEL MEASUREMENT _____ WATER USE _____

CHEMISTRY

TEST BY _____ DATE _____

TOTAL DISSOLVED SOLIDS _____ mg/l TEMPERATURE _____ °C pH _____ SILICA (SiO₂) _____ mg/lCONDUCTANCE _____ μ mhos/cm AT 25°C TOTAL IRON (Fe) _____ mg/l TOTAL HARDNESS (CaCO₃) _____ mg/lTOTAL ALKALINITY (CaCO₃) _____ mg/l PHEN. ALKALINITY (Ca CO₃) _____ mg/l MANGANESE (Mn) _____ mg/l

COLOUR _____ ODOUR _____ TURBIDITY _____

ANIONS

mg/l

epm

CATIONS

mg/l

epm

CARBONATE (CO₃)BICARBONATE (HCO₃)SULPHATE (SO₄)

CHLORIDE (Cl)

NO₂ + NO₃ (NITROGEN)

• TKN. (NITROGEN)

PHOSPHORUS (P)

• TKN = TOTAL KJELDAHL NITROGEN

NO₂ = NITRITE NO₃ = NITRATE

CHEMISTRY SITE NO. _____

CHEMISTRY FIELD TESTS

TEST BY _____ DATE _____ EQUIPMENT USED _____

CONTENTS OF FOLDER

☒ DRILL LOG☐ SIEVE ANALYSIS☐ PUMP TEST DATA☐ GEOPHYSICAL LOGS☐ CHEMICAL ANALYSIS☐ REPORT

OTHER _____

SOURCES OF INFORMATION DRILLER

PRODUCTION TEST SUMMARY

DATE _____

TEST BY _____

BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST _____

RATE _____ DRAWDOWN _____

WATER LEVEL AT COMPLETION OF TEST _____

AVAILABLE DRAWDOWN _____ SPECIFIC CAPACITY _____

PERMEABILITY _____ STORAGE COEFF. _____

TRANSMISSIVITY _____

RECOMMENDED PUMPING RATE ESTIMATED 2 GPM

RECOMMENDED PUMP SETTING _____

LITHOLOGY

FROM TO DESCRIPTION

0' 15' GRAVEL + CLAY15' 155' BLACK SHALE WITH GRANITE SEAMS155' 175' FRACTURE AT 155'. W. H. 2' AM175' TOTAL DEPTH

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers.

LEGAL DESCRIPTION: PCL LOT C SEC. 14 TP. 5E D.L. 5E LAND DISTRICT 5E PLAN DD372435DESCRIPTIVE LOCATION BLACKBURN RD SALTSPRING ISLAND LICENCE NO. 5E DATE 5EOWNER'S NAME S.22DRILLER'S NAME KEN'S DRILL ADDRESS VICTORIA B.C. DATE COMPLETED SEPT 76DEPTH 125' ELEVATION OF ☐ ESTIMATED ☐ SURVEYED CASING DIAM. 6.25" LENGTH 18'METHOD OF CONSTRUCTION DRILLED CASING DIAM. 6.25" LENGTH 18'SCREEN LOCATION SCREEN ☐ SIZE TYPESANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE LENGTH TYPEPERFORATED CASING ☐ LENGTH PERFORATIONS FROM TOGRAVEL PACK ☐ LENGTH DIAM. SIZE GRAVEL, ETC.DISTANCE TO WATER ESTIMATED WATER LEVELFROM MEASURED ELEVATION ARTESIAN PRESSUREDATE OF WATER LEVEL MEASUREMENT WATER USE

CHEMISTRY

TEST BY DATETOTAL DISSOLVED SOLIDS mg/l TEMPERATURE °C pH SILICA (SiO₂) mg/lCONDUCTANCE umhos/cm AT 25°C TOTAL IRON (Fe) mg/l TOTAL HARDNESS (CaCO₃) mg/lTOTAL ALKALINITY (CaCO₃) mg/l PHEN. ALKALINITY (CaCO₃) mg/l MANGANESE (Mn) mg/lCOLOUR ODOUR TURBIDITY

ANIONS

mg/l

epm

CARBONATE (CO₃)
 BICARBONATE (HCO₃)
 SULPHATE (SO₄)
 CHLORIDE (Cl)
 NO₂ + NO₃ (NITROGEN)
 • TKN. (NITROGEN)
 PHOSPHORUS (P)

• TKN = TOTAL KJELDAHL NITROGEN

NO₂ = NITRITE NO₃ = NITRATE

CATIONS

mg/l

epm

CALCIUM (Ca)
 MAGNESIUM (Mg)
 SODIUM (Na)
 POTASSIUM (K)
 IRON (DISSOLVED)

CHEMISTRY SITE NO. 1976 MFR 111 TO 608 SD 64 NO

CHEMISTRY FIELD TESTS

TEST BY DATE EQUIPMENT USED

CONTENTS OF FOLDER

☒ DRILL LOG☐ PUMP TEST DATA☐ CHEMICAL ANALYSIS☐ SIEVE ANALYSIS☐ GEOPHYSICAL LOGS☐ REPORTOTHER DRILLERSOURCES OF INFORMATION DRILLER

PRODUCTION TEST SUMMARY

DATE YIELD (est): 46 gpmTEST BY YIELD (est): 46 gpmBAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST YIELD (est): 46 gpmRATE DRAWDOWNWATER LEVEL AT COMPLETION OF TEST YIELD (est): 46 gpmAVAILABLE DRAWDOWN SPECIFIC CAPACITYPERMEABILITY STORAGE COEFF.TRANSMISSIVITY YIELD (est): 46 gpmRECOMMENDED PUMPING RATE YIELD (est): 46 gpmRECOMMENDED PUMP SETTING YIELD (est): 46 gpm

LITHOLOGY

FROM

TO

DESCRIPTION

0

12'

GRAVEL & SAND

12'

125'

BLACK SHALE

TRACE OF WATER @ 40'

FRACTURE @ 101' WITH

41 gpm

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.

1976 MFR 111 TO 608 SD 64 NO
 "77 " " " " " 895.00
 PCL C DD 392435 1 OF SEC 14
 RGE 5 EAST N. 55 ACS. 150
 LRO F E66119 LOCATION: BLACKBURN

LEGAL DESCRIPTION: LOT 12 SEC. 85 TP. R. 4E D.L. LAND DISTRICT COMWICK PLAN 31295DESCRIPTIVE LOCATION Duke Rd Subdivision SS Island LICENCE NO. DATE OWNER'S NAME FRASER FARMS LTDADDRESS DRILLER'S NAME Ken's Drilling ADDRESS 897 Goldstream Ave DATE COMPLETED July 77NAT. TOPO. SHEET NO. DEPTH 275' OF ☐ ESTIMATED
☐ SURVEYEDCASING DIAM. LENGTH METHOD OF CONSTRUCTION Driller CASING DIAM. 6 1/4" LENGTH 46"SCREEN LOCATION SCREEN ☐ SIZE LENGTH TYPE SANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE LENGTH TYPE PERFORATED CASING ☐ LENGTH PERFORATIONS FROM TO GRAVEL PACK ☐ LENGTH DIAM. SIZE GRAVEL, ETC. DISTANCE TO WATER ☐ ESTIMATED WATER LEVELFROM ☐ MEASURED ELEVATION ARTESIAN PRESSURE DATE OF WATER LEVEL MEASUREMENT WATER USE

CHEMISTRY

TEST BY DATE TOTAL DISSOLVED SOLIDS mg/l TEMPERATURE °C pH SILICA (SiO₂) mg/lCONDUCTANCE μ mhos/cm AT 25°C TOTAL IRON (Fe) mg/l TOTAL HARDNESS (CaCO₃) mg/lTOTAL ALKALINITY (CaCO₃) mg/l PHEN. ALKALINITY (CaCO₃) mg/l MANGANESE (Mn) mg/lCOLOUR ODOUR TURBIDITY

ANIONS

mg/l

epm

CATIONS

mg/l

epm

CARBONATE (CO₃)BICARBONATE (HCO₃)SULPHATE (SO₄)

CHLORIDE (Cl)

NO₂ + NO₃ (NITROGEN)

• TKN. (NITROGEN)

PHOSPHORUS (P)

• TKN = TOTAL KJELDAHL NITROGEN

NO₂ = NITRITE NO₃ = NITRATECHEMISTRY SITE NO.

CHEMISTRY FIELD TESTS

TEST BY DATE EQUIPMENT USED

CONTENTS OF FOLDER

☒ DRILL LOG☐ PUMP TEST DATA☐ CHEMICAL ANALYSIS☐ SIEVE ANALYSIS☐ GEOPHYSICAL LOGS☐ REPORTOTHER SOURCES OF INFORMATION Drilled

PRODUCTION TEST SUMMARY

DATE TEST BY BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST RATE DRAWDOWN WATER LEVEL AT COMPLETION OF TEST AVAILABLE DRAWDOWN SPECIFIC CAPACITY PERMEABILITY STORAGE COEFF. TRANSMISSIVITY RECOMMENDED PUMPING RATE RECOMMENDED PUMP SETTING

LITHOLOGY

FROM	TO	DESCRIPTION
0	50'	Overburden of red clay
0-4'		Sand & gravel
4-38'		Bedrock - 38'
50'	100'	Soft sandstone
		" seams of shale - 8"
100'	200'	Picked up midline - 100'
		Another seam of shale
		at 110'. Some harder
		seams of sandstone
200'	275'	between 150-200 ft
		Fracture at 260' with
		1/2 gpm.
		Est. YIELD: 1/2 GPM

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.

DEPT. OF ENVIRONMENT, WATER RESOURCES SERVICE, WATER INVESTIGATIONS BRANCH

VICTORIA, BRITISH COLUMBIA

LEGAL DESCRIPTION: LOT 13 SEC. 86 TP. _____ R. _____ D.L. _____ LAND DISTRICT COWICHAN PLAN 25790

DESCRIPTIVE LOCATION SALT SPRING IS.

LICENCE NO. _____ DATE _____

OWNER'S NAME S.22

DRILLER'S NAME KENS DRILLING ADDRESS VICTORIA

DATE COMPLETED SEPT 78

DEPTH 565' ELEVATION _____

☐ ESTIMATED

☐ SURVEYED

CASING DIAM. 6 1/4" LENGTH 20'

METHOD OF CONSTRUCTION DRILLED

CASING DIAM. _____ LENGTH _____

SCREEN LOCATION _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

ANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

PERFORATED CASING ☐ LENGTH _____ PERFORATIONS FROM _____ TO _____

RAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____

DISTANCE TO WATER ? ☐ ESTIMATED WATER LEVEL _____

FROM _____ ☐ MEASURED ELEVATION _____ ARTESIAN PRESSURE _____

DATE OF WATER LEVEL MEASUREMENT _____ WATER USE _____

CHEMISTRY

TEST BY _____ DATE _____

TOTAL DISSOLVED SOLIDS _____ mg/l TEMPERATURE _____ °C pH _____ SILICA (SiO₂) _____ mg/l

CONDUCTANCE _____ µmhos/cm AT 25°C

TOTAL IRON (Fe) _____ mg/l TOTAL HARDNESS (CaCO₃) _____ mg/l

TOTAL ALKALINITY (CaCO₃) _____ mg/l PHEN. ALKALINITY (CaCO₃) _____ mg/l MANGANESE (Mn) _____ mg/l

COLOUR _____ ODOUR _____ TURBIDITY _____

ANIONS

mg/l

epm

CATIONS

mg/l

epm

CARBONATE (CO₃)

BICARBONATE (HCO₃)

SULPHATE (SO₄)

CHLORIDE (Cl)

NO₂ + NO₃ (NITROGEN)

TKN. (NITROGEN)

PHOSPHORUS (P)

TKN = TOTAL KJELDAHL NITROGEN

NO₂ = NITRITE NO₃ = NITRATE

CALCIUM (Ca)

MAGNESIUM (Mg)

SODIUM (Na)

POTASSIUM (K)

IRON (DISSOLVED)

CHEMISTRY SITE NO. _____

CHEMISTRY FIELD TESTS

TEST BY _____ DATE _____ EQUIPMENT USED _____

CONTENTS OF FOLDER

☒ DRILL LOG

☐ PUMP TEST DATA

☐ CHEMICAL ANALYSIS

☐ SIEVE ANALYSIS

☐ GEOPHYSICAL LOGS

☐ REPORT

OTHER _____

SOURCES OF INFORMATION DRILLER

PRODUCTION TEST SUMMARY

DATE _____

TEST BY _____

BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST _____

RATE _____ DRAWDOWN _____

WATER LEVEL AT COMPLETION OF TEST _____

AVAILABLE DRAWDOWN _____ SPECIFIC CAPACITY _____

PERMEABILITY _____ STORAGE COEFF. _____

TRANSMISSIVITY _____

EST YIELD - 4-5 GPM

RECOMMENDED PUMPING RATE _____

RECOMMENDED PUMP SETTING _____

LITHOLOGY

FROM TO DESCRIPTION

0 12' RED CLAY

12' 85' BLACK SHALE

85' 245' FRACTURE WITH TRACE OF WATER

245' 545' FRACTURE WITH 2 GPM

545' 565' FRACTURE - WATER INCREASED TO 4-5 GPM

565' TOTAL DEPTH

OWNER SAYS WATER IS HARD

WELL IS SITUATED BY A GROUP OF CABINS

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.

B3 Page 22 of 42 MOE-2018-87417

EGAL DESCRIPTION: LOT 10 SEC. 85 TP. _____ R. 4E D.L. _____ LAND DISTRICT CDWICHIAN PLAN 31775ESCRPTIVE LOCATION Duke Rd Subdivision SS Island LICENCE NO. _____ DATE _____WNER'S NAME Fraser Farms LTD ADDRESS _____RILLER'S NAME Ken's Drilling ADDRESS 897 Gollstream Ave DATE COMPLETED July 17 MAT. TOPO. SHEET NO. _____EPTH 200' ELEVATION OF _____ ☐ ESTIMATED ☐ SURVEYED CASING DIAM. 6 1/4" LENGTH 20'METHOD OF CONSTRUCTION Drilled CASING DIAM. _____ LENGTH _____CREEN LOCATION _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____ANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____PERFORATED CASING ☐ LENGTH _____ PERFORATIONS FROM _____ TO _____RAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____DISTANCE TO WATER _____ ☐ ESTIMATED WATER LEVEL _____ROM _____ ☐ MEASURED ELEVATION _____ ARTESIAN PRESSURE _____

DATE OF WATER LEVEL MEASUREMENT _____ WATER USE _____

CHEMISTRY

TEST BY _____ DATE _____

TOTAL DISSOLVED SOLIDS _____ mg/l TEMPERATURE _____ °C pH _____ SILICA (SiO₂) _____ mg/lCONDUCTANCE _____ μ mhos/cm AT 25°C TOTAL IRON (Fe) _____ mg/l TOTAL HARDNESS (CaCO₃) _____ mg/lTOTAL ALKALINITY (CaCO₃) _____ mg/l PHEN. ALKALINITY (Ca CO₃) _____ mg/l MANGANESE (Mn) _____ mg/l

COLOUR _____ ODOUR _____ TURBIDITY _____

ANIONS

mg/l

epm

CARBONATE (CO₃)BICARBONATE (HCO₃)SULPHATE (SO₄)

CHLORIDE (Cl)

NO₂ + NO₃ (NITROGEN)

• TKN. (NITROGEN)

PHOSPHORUS (P)

• TKN = TOTAL KJELDAHL NITROGEN

NO₂ = NITRITE NO₃ = NITRATE

CATIONS

mg/l

epm

CALCIUM (Ca)

MAGNESIUM (Mg)

SODIUM (Na)

POTASSIUM (K)

IRON (DISSOLVED)

CHEMISTRY SITE NO. _____

CHEMISTRY FIELD TESTS

TEST BY _____ DATE _____ EQUIPMENT USED _____

CONTENTS OF FOLDER

☒ DRILL LOG☐ SIEVE ANALYSIS☐ PUMP TEST DATA☐ GEOPHYSICAL LOGS☐ CHEMICAL ANALYSIS☐ REPORT

OTHER _____

SOURCES OF INFORMATION Driller

PRODUCTION TEST SUMMARY

DATE _____
 TEST BY _____
 BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST _____
 RATE _____ DRAWDOWN _____
 WATER LEVEL AT COMPLETION OF TEST _____
 AVAILABLE DRAWDOWN _____ SPECIFIC CAPACITY _____
 PERMEABILITY _____ STORAGE COEFF. _____
 TRANSMISSIVITY _____
 RECOMMENDED PUMPING RATE _____
 RECOMMENDED PUMP SETTING _____

LITHOLOGY

FROM	TO	DESCRIPTION
0	11'	Overburden none
		Hard sandstone at ground level.
		Soft seam of brown dirt at 11'
11'	50'	Harder rock at 13'
		Softer " at 50'
50'	110'	Picked up moisture - 90'
		110' - Fracture with 3/4 gal
110'	150'	Rock changed to a 150'
		conglomerated rock at 190'
		Picked up another 3/4 gal at 195'
150'	200'	Some harder seams of rock but no further change in water flow
		Est yield - 1 1/2 gpm

"The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

LITHOLOGY		
FROM	TO	DESCRIPTION
0	65'	Overburden of red clay 1/3 gravel.
65	100	hard conglomerate rock picked up some material at 100'
100	125	Fracture at 110' with 2 gpm. Harder rock at 120'. Total depth 125' Est. yield: 2 gpm.

"The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

B3 Page 24 of 42 MOE-2018-87417

LEGAL LOCATION Lot B SEC 86 71.29679WELL LOCATION MAP COORDINATES X6 Y8 #15CUSHEW LA RDSALT SPRING IS.LAND DISTRICT COMWICHAN LAND

LICENCE NO. _____ DATE LICENCE _____

AMOUNT _____

N.T.S. GRID SHEET

Salt Spring Island Sheet #25OWNER'S NAME s.22DRILLER'S NAME KEN'S DR. ADDRESS VICTORIADATE OF COMPLETION JUNE 6/75DEPTH 325' OF _____ ELEVATION ☐ ESTIMATED ☐ SURVEYED CASING DIAM. 6'4" LENGTH 5.5' TYPE _____METHOD OF CONSTRUCTION _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____LOCATION OF SCREEN _____ DEVELOPED ☐ DESCRIBE _____PERFORATED CASING ☐ LENGTH _____ LOCATION OF PERFORATIONS _____GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____DISTANCE TO WATER ☐ ESTIMATED ☐ MEASURED WATER LEVEL _____ ARTESIAN PRESSURE _____ P.S.I. DATE _____

WATER USE _____

CHEMISTRY

TEST BY _____ DATE _____

TOTAL DISSOLVED SOLIDS _____ mg/l TEMPERATURE _____ °C pH _____ CONDUCTANCE _____ μ mhos/cm AT 25°CIRON (Fe) _____ mg/l SILICA (SiO₂) _____ mg/l TOTAL HARDNESS (CaCO₃) _____ mg/lTOTAL ALKALINITY (CaCO₃) _____ mg/l PHEN. ALKALINITY (CaCO₃) _____ mg/l MANGANESE (Mn) _____ mg/l

ANIONS	mg/l	epm	% epm	CATIONS	mg/l	epm	% epm
CARBONATE (CO ₃)				CALCIUM (Ca)			
BICARBONATE (AS CO ₃)				MAGNESIUM (Mg)			
SULPHATE (SO ₄)				SODIUM (Na)			
CHLORIDE (Cl)				POTASSIUM (K)			
NITRATE (NO ₂ + NO ₃)							
THYON (NO ₃)							
PHOSPHORUS (P)							

TOTAL

TOTAL

TKN - TOTAL KJELDAHL NITROGEN

CHEMISTRY FIELD TESTS

TEST BY _____ DATE _____ EQUIPMENT USED _____

CONTENTS OF FOLDER

☒ DRILL LOG☐ PUMP TEST DATA☐ CHEMICAL ANALYSIS☐ SIEVE ANALYSIS☐ GEOPHYSICAL LOGS☐ REPORT

OTHER _____

SOURCES OF INFORMATION DRILL LOG

PRODUCTION TEST SUMMARY

DATE _____

TEST BY _____

BAIL TEST ☐ DURATION OF TEST _____PUMP TEST ☐ RATE _____ G.P.M.

WATER LEVEL AT COMPLETION OF TEST _____

DRAWDOWN _____ AVAILABLE DRAWDOWN _____

SPECIFIC CAPACITY _____ gpm/ft. d

PERMEABILITY _____ USgd/ft² STORAGE COEFF. _____TRANSMISSIVITY ☐ DRAWDOWN ☐ RECOVERY _____ USgd/ft.

REMARKS _____

LITHOLOGY

FROM TO DESCRIPTION

EST. YIELD 1 G.P.M.0 3 BROWN SHALE3 195 SOFT BLACK SHALEAT 195 FRACTURE WITH1/4 G.P.M.270 285 FRACTURE WATERINCR. TO 1 G.P.M.325 TOTAL DEPTH

92B-083-23-2

MERIDIAN

TENS

UNITS

TENS

UNITS

QUARTER

TENS

UNITS

LAND DISTRICT

GROUND - WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

GULF
ISL.LOCATION Lot #12 PL. 25790 NE 1/4 OF SEC 86

COWICHAN DIST. x6y8

22

OWNER'S NAME H & P HOLDINGS ADDRESS _____DRILLER'S NAME KEN'S DRILLING ADDRESS GANGESDATE OF COMPLETION Aug 2/73DEPTH 145 ELEVATION OF COLLAR _____ CASING DIAM. _____ LENGTH 15' TYPE _____METHOD OF DIGGING _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____LOCATION OF SCREEN _____ DEVELOPED ☐ DESCRIBE _____PERFORATED CASING ☐ LENGTH _____ LOCATION OF PERFORATIONS _____GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____PUMP ☐ TYPE _____ POWER _____

CAPACITY _____ OTHER DATA _____

COSTS WELL _____ PUMP _____ PUMP HOUSE, ETC. _____

MAINTENANCE _____

DISTANCE TO WATER FROM TOP OF CASING ☐ ESTIMATED ☐ MEASURED ELEVATION _____ FLUCTUATION _____HIGH WATER _____ MONTH _____ LOW WATER _____ MONTH _____ OBSERVATION DATA ☐ FILE No. _____

WATER USE _____

MAX. RATE WITHDRAWAL ☐ ESTIMATED ☐ MEASURED _____TEMPERATURE _____ PUMPS SAND ☐ _____CLOGS SCREEN ☐ TYPE DEPOSIT _____ AQUIFER DATA _____

LICENSE No. _____ DATE LICENSE _____ AMOUNT _____

DATE APPLICATION _____ USE _____

well #9 lot #12

SEE SKETCH
OVER

LOCATION SKETCH-INDICATE NORTH

DUG
DRIVEN
DRILLED
JETTED
BORED0 - 25
25 - 30
50 - 100
100 - 200
200 - 400
> 400OBSERVATION
ABANDONED
DEVELOPED
SCREEN
PERF. CASING
GRAVEL ENV.
PUMPFLOWING
NON-FLOW
ARTESIAN
WATER TABLE
PART CONFINEDRELIABILITY
OF DATA
ROCK
SPRINGCHARACTER OF
SUPPLY
AQUIFER

WATER USE

RELIABILITY
OF DATA

ROCK

SPRING

SAND

GRAVEL

TILL

DOMESTIC

GARDEN

STOCK

COOLING

IRRIGATION

INDUSTRIAL

WATERWORKS

GOOD

AIR

FOR

ACCOUNTAMATIC 'ONE WRITE' SYSTEMS LTD., VICTORIA B.C.

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

Page 2 of 2 MOE2018-87417

LOG

[illegible]

LAB. _____

COLIFORM ORGANISMS _____

TOTAL BACTERIA _____

COLOUR _____ ODOUR _____

COLOUR _____ ODOUR _____

TASTE _____

PUMPING TEST SUMMARY

TEST BY _____

DATE _____ FILE NO. _____

DATE _____ FILE NO. _____

SPECIFIC CAPACITY _____ PERMEABILITY _____

SPECIFIC CAPACITY _____ PERMEABILITY _____

STORAGE COEFF. TRANSMISSIBILITY

STORAGE COEFF. TRANSMISSIBILITY

REMARKS Estimated yield 2 1/2 qpm.REMARKS Estimated yield 2 1/2 qpm.

Carbonate Hard	
----------------	--

Magnesium Hard	
----------------	--

Fe	
----	--

SO₂

Ca	
----	--

Mg	
----	--

Na

K.	
----	--

HC03	
------	--

CO ₃	
-----------------	--

CI	
----	--

SO ₄	
-----------------	--

NO ₃	
-----------------	--

8

3	
---	--

--	--

Total Dis-solids	
------------------	--

Total Alkalinity

Suspended Solids	
------------------	--

Ph	
----	--

OTHER DATA

SIZE ANALYSIS, ETC. _____

CARD BY _____ DATE _____

CARD BY _____ DATE _____

SOURCES INFORMATION _____

LEGAL DESCRIPTION: LOT 7 SEC. 85 TP. R. 4E D.L. LAND DISTRICT COWICHAN PLAN 31995

DESCRIPTIVE LOCATION Duke Rd Subdivision SS Island LICENCE NO. _____ DATE _____

OWNER'S NAME FRASER FARMS LTD ADDRESS _____

RILLER'S NAME Ken's Drilling ADDRESS 894 Goldstream Ave DATE COMPLETED Sept. 7

DEPTH 275 ELEVATION OF _____ ☐ ESTIMATED ☐ SURVEYED CASING DIAM. _____ LENGTH _____

METHOD OF CONSTRUCTION Drilled CASING DIAM. 6 1/4" LENGTH 55'

SCREEN LOCATION _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

SANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

PERFORATED CASING ☐ LENGTH _____ PERFORATIONS FROM _____ TO _____

GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____DISTANCE TO WATER _____ ☐ ESTIMATED WATER LEVEL

FROM _____ ☐ MEASURED ELEVATION _____ ARTESIAN PRESSURE _____

DATE OF WATER LEVEL MEASUREMENT _____ WATER USE _____

CHEMISTRY

TEST BY _____ DATE _____

TOTAL DISSOLVED SOLIDS _____ mg/l TEMPERATURE _____ °C pH _____ SILICA (SiO₂) _____ mg/l

CONDUCTANCE _____ $\mu\text{mhos/cm}$ AT 25°C TOTAL IRON (Fe) _____ mg/l TOTAL HARDNESS (CaCO_3) _____ mg/l

TOTAL ALKALINITY (CaCO_3) _____ mg/l PHEN. ALKALINITY (CaCO_3) _____ mg/l MANGANESE (Mn) _____ mg/l

COLOUR _____ ODOUR _____ TURBIDITY _____

<u>ANIONS</u>	mg/l	e p m
CARBONATE (CO_3)		
BICARBONATE (HCO_3)		
SULPHATE (SO_4)		
CHLORIDE (Cl)		
$\text{NO}_2 + \text{NO}_3$ (NITROGEN)		
• TKN. (NITROGEN)		
PHOSPHORUS (P)		

■ TKN = TOTAL KJELDAHL NITROGEN
NO₂ = NITRITE NO₃ = NITRATE

<u>CATIONS</u>	<u>mg/l</u>	<u>e p m</u>
CALCIUM (Ca)		
MAGNESIUM (Mg)		
SODIUM (Na)		
POTASSIUM (K)		
IRON (DISSOLVED)		

CHEMISTRY SITE NO. _____

CHEMISTRY FIELD TESTS

TEST BY _____ DATE _____ EQUIPMENT USED _____

CONTENTS OF FOLDER

☒ DRILL LOG
☐ SIEVE ANALYSIS

☐ PUMP TEST DATA
☐ GEOPHYSICAL LOGS

☐ CHEMICAL ANALYSIS
☐ REPORT

OTHER _____

SOURCES OF INFORMATION Driller

Z X 5 Y 8 NO. 14

NAT. TOPO. SHEET NO. _____

PRODUCTION TEST SUMMARY

DATE _____
TEST BY _____
BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST _____
RATE _____ DRAWDOWN _____
WATER LEVEL AT COMPLETION OF TEST _____
AVAILABLE DRAWDOWN _____ SPECIFIC CAPACITY _____
PERMEABILITY _____ STORAGE COEFF. _____
TRANSMISSIVITY _____
RECOMMENDED PUMPING RATE _____
RECOMMENDED PUMP SETTING _____

LITHOLOGY

FROM	TO	DESCRIPTION
0	50'	Sand & Gravel
50'	135'	Sandstone
135'	157'	Trace of water, black shale
157'	263	Sandstone with seam of black shale
		2 gpm at 263 feet
	275'	Total depth
		Est. YIELD: 2 gpm

THERE IS AN UNCAID WELL
APPROXIMATELY 10'
FROM THE 275' WELL

"The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

LEGAL LOCATION LOT 11 PL. 25790 NE 1/4 of SEC. 86WELL LOCATION MAP COORDINATES x 6 y 8 #13

20

AS ADDRESS

LAND DISTRICT COWICHAN

LICENCE NO.

DATE LICENCE

AMOUNT

N.T.S. GRID SHEET

OWNER'S NAME H&P HOLDINGS WELL #11 ADDRESS S.S.I.DRILLER'S NAME KEN'S DRILLING ADDRESS VICTORIADATE OF COMPLETION OCT 19/73DEPTH 95' ELEVATION☐ ESTIMATED☐ SURVEYED

CASING DIAM.

LENGTH 14TYPE 1' S.U.

METHOD OF CONSTRUCTION

SCREEN ☐ SIZE

LENGTH

TYPE

LOCATION OF SCREEN

DEVELOPED ☐ DESCRIBEPERFORATED CASING ☐ LENGTH

LOCATION OF PERFORATIONS

GRAVEL PACK ☐ LENGTH

DIAM.

SIZE GRAVEL, ETC.

DISTANCE TO WATER

☐ ESTIMATED

WATER LEVEL

☐ MEASURED

ELEVATION

ARTESIAN PRESSURE

P.S.I. DATE

WATER USE

CHEMISTRY

TEST BY

DATE

TOTAL DISSOLVED SOLIDS

mg/l

TEMPERATURE

°C

pH

CONDUCTANCE

 μ mhos/cm
AT 25°C

IRON (Fe)

mg/l

SILICA (SiO₂)

mg/l

TOTAL HARDNESS (CaCO₃)

mg/l

TOTAL ALKALINITY (CaCO₃)

mg/l

PHEN. ALKALINITY (CaCO₃)

mg/l

MANGANESE (Mn)

mg/l

ANIONS

mg/l

epm

% epm

CATIONS

mg/l

epm

% epm

CARBONATE (CO₃)BICARBONATE (AS CO₃)SULPHATE (SO₄)

CHLORIDE (Cl)

NITRATE (NO₂ + NO₃)* TKN (NO₃)

PHOSPHORUS (P)

TOTAL

CALCIUM (Ca)

MAGNESIUM (Mg)

SODIUM (Na)

POTASSIUM (K)

TOTAL

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial or other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.

CHEMISTRY FIELD TESTS

TEST BY

DATE

EQUIPMENT USED

CONTENTS OF FOLDER

☒ DRILL LOG☐ PUMP TEST DATA☐ CHEMICAL ANALYSIS☐ SIEVE ANALYSIS☐ GEOPHYSICAL LOGS☐ REPORT

OTHER

SOURCES OF INFORMATION DRILLER

PRODUCTION TEST SUMMARY

DATE

TEST BY

BAIL TEST ☐ DURATION OF TESTPUMP TEST ☐ RATE

WATER LEVEL AT COMPLETION OF TEST

DRAWDOWN AVAILABLE DRAWDOWN

SPECIFIC CAPACITY

PERMEABILITY USgpd/ft² STORAGE COEFF.TRANSMISSIVITY ☐ DRAWDOWN

RECOVERY

REMARKS

YIELD 5 gpm

LITHOLOGY

FROM

TO

DESCRIPTION

0

8

RED CLAY

8

95

SANDSTONE
SEAM OF SHALE
AND TRAIL OF
WATER @ 30'SEAM OF SHALE
@ 70' WITH 1.5
gpmSEAM OF GRANITE
OR CONGLOMERATE
ROCK 85' WITH
5 gpm

95

T.D. 95'

REMARKS

Rev. pump setting 85'

923-083-214

GULF ISL.

GROUND - WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION LOT 9 PL. 25790 NE 1/4 OF SEC 86 Cowichan Dist x6 y8 #12

OWNER'S NAME H. + P. HOLDINGS ADDRESS CANGES

DRILLER'S NAME KEN'S DRILLING ADDRESS VICTORIA DATE OF COMPLETION MAY/73

DEPTH 125' ELEVATION OF COLLAR _____ CASING DIAM. 6 1/4" LENGTH 11' TYPE _____

METHOD OF DIGGING _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

LOCATION OF SCREEN _____ DEVELOPED ☐ DESCRIBE _____

PERFORATED CASING ☐ LENGTH _____ LOCATION OF PERFORATIONS _____

GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____

PUMP ☐ TYPE _____ POWER _____

CAPACITY _____ OTHER DATA _____

COSTS WELL _____ PUMP _____ PUMP HOUSE, ETC. _____

MAINTENANCE _____

DISTANCE TO WATER FROM TOP OF CASING _____ ☐ ESTIMATED ☐ MEASURED ELEVATION _____ FLUCTUATION _____

HIGH WATER _____ MONTH _____ LOW WATER _____ MONTH _____ OBSERVATION DATA ☐ FILE No. _____

WATER USE _____

MAX. RATE WITHDRAWAL ☐ ESTIMATED ☐ MEASURED _____

TEMPERATURE _____ PUMPS SAND ☐ _____

CLOGS SCREEN ☐ TYPE DEPOSIT _____ AQUIFER DATA _____

LICENSE No. _____ DATE LICENSE _____ AMOUNT _____

DATE APPLICATION _____ USE _____

WELL #2, LOT #9

SEE SKETCH ON BACK

LOCATION SKETCH-INDICATE NORTH

ACCOUNTAMATIC 'ONE WRITE' SYSTEMS LTD., VICTORIA B.C.

12708

SUPPLY AQUIFER		OTHER AQUIFER PRESENT		OTHER AQUIFER PRESENT		OTHER AQUIFER PRESENT		OTHER AQUIFER PRESENT	
TENS		TENS		TENS		TENS		TENS	
UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	UNITS
1	2	1	2	1	2	1	2	1	2
3	4	3	4	3	4	3	4	3	4
5	6	5	6	5	6	5	6	5	6
7	8	7	8	7	8	7	8	7	8
9	10	9	10	9	10	9	10	9	10

CHARACTER OF SUPPLY AQUIFER		WATER USE				RELIABILITY OF DATA		ROCK	
SAND		DOMESTIC	GARDEN	STOCK	COOLING	IRRIGATION	INDUSTRIAL	WATERWORKS	SPRING
GRAVEL	TILL								

[illegible]

SOURCES INFORMATION Ken's Dullens

B3 Page 31 of 42 MOE-2018-87417

92B.083.2.1.4

GULF
ISL.

MERIDIAN

TENS

UNITS

TENS

UNITS

QUARTER

TENS

UNITS

LAND DISTRICT

GROUND - WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION LOT 8 PL. 25790 NE 1/4 OF SEC 86
(COMPLETE LEGAL DESCRIPTION)

Cowichan Dist

OWNER'S NAME H + P. HOLDINGSADDRESS GANGES.

x6 y8 #11

DRILLER'S NAME KEN'S DRILLING.ADDRESS VICTORIA.DATE OF COMPLETION MAY/73DEPTH 350'ELEVATION
OF COLLARCASING DIAM. 6 1/4"LENGTH 5'

TYPE

METHOD OF DIGGING

SCREEN ☐

SIZE

LENGTH

TYPE

LOCATION OF SCREEN

DEVELOPED ☐

DESCRIBE

PERFORATED CASING ☐

LENGTH

LOCATION OF PERFORATIONS

GRAVEL PACK ☐

LENGTH

DIAM.

SIZE GRAVEL, ETC.

PUMP ☐

TYPE

POWER

CAPACITY

OTHER DATA

COSTS WELL

PUMP

PUMP HOUSE, ETC.

MAINTENANCE

DISTANCE TO WATER
FROM TOP OF CASING☐ ESTIMATED☐ MEASURED ELEVATION

FLUCTUATION

HIGH WATER

MONTH

LOW WATER

MONTH

OBSERVATION DATA ☐

FILE No.

WATER USE

MAX. RATE WITHDRAWAL

☐ ESTIMATED
☐ MEASURED

TEMPERATURE

PUMPS SAND ☐CLOGS SCREEN ☐

TYPE DEPOSIT

AQUIFER DATA

LICENSE No.

DATE LICENSE

AMOUNT

DATE APPLICATION

USE

WELL #3 LOT #8

NOT IN 75 ROLLS

ACCOUNTAMATIC 'ONE WRITE' SYSTEMS LTD., VICTORIA B.C.

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

SAND

GRAVEL

TILL

DOMESTIC

GARDEN

STOCK

COOLING

IRRIGATION

INDUSTRIAL

WATERWORKS

WOOD

AIR

DOOR

CHARACTER OF

SUPPLY

AQUIFER

WATER USE

RELIABILITY

OF DATA

ROCK

SPRING

LOCATION SKETCH-INDICATE NORTH

SEE SKETCH
OVERN
↑
TYPE WELL

DUG

DRIVEN

DRILLED

JETTED

BORED

0 - 25

25 - 30

50 - 100

100 - 200

200 - 400

> 400

OBSERVATION

ABANDONED

DEVELOPED

SCREEN

PERF. CASING

GRAVEL ENV.

PUMP

FLOWING

NON-FLOW

ARTESIAN

WATER TABLE

PART CONFINED

[illegible]

SOURCES INFORMATION Ken's Drilling

B3 Page 33 of 42 MOE-2018-87417

92B.083.23.1

MERIDIAN

TENS

UNITS

TENS

UNITS

QUARTER

TENS

UNITS

RANGE

SECTION

LAND DISTRICT

GROUND — WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION LOT 2 SEC 86 PL. 17649

COWICHAN DIST

OWNER'S NAME _____ ADDRESS _____

DRILLER'S NAME _____ ADDRESS VANCOUVER

DATE OF COMPLETION 1963

DEPTH 220' ELEVATION OF COLLAR 450' CASING DIAM 6" LENGTH 12' TYPE _____

METHOD OF DIGGING _____ SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

LOCATION OF SCREEN _____ DEVELOPED ☐ DESCRIBE _____

PERFORATED CASING ☐ LENGTH _____ LOCATION OF PERFORATIONS _____

GRAVEL PACK ☐ LENGTH _____ DIAM _____ SIZE GRAVEL, ETC _____

PUMP ☐ TYPE _____ POWER _____

CAPACITY _____ OTHER DATA _____

COSTS WELL _____ PUMP _____ PUMP HOUSE, ETC. _____

MAINTENANCE _____

DISTANCE TO WATER FROM TOP OF CASING 20' ☒ ESTIMATED ☐ MEASURED ELEVATION _____ FLUCTUATION _____

HIGH WATER _____ MONTH _____ LOW WATER _____ MONTH _____ OBSERVATION DATA ☐ FILE No. _____

WATER USE _____

MAX. RATE WITHDRAWAL ☐ ESTIMATED ☐ MEASURED fills up 200 gal per night - 5 cabins & garden + house

TEMPERATURE _____ PUMPS SAND ☐

CLOGS SCREEN ☐ TYPE DEPOSIT _____ AQUIFER DATA thin shales
water at 60' over clay

LICENSE No. _____ DATE LICENSE _____ AMOUNT _____

DATE APPLICATION _____ USE _____

SALT SPRING ISLAND

Site I.D 1400400

VISIRecord®

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

SAND

GRAVEL

TILL

DOMESTIC

GARDEN

STOCK

COOLING

IRRIGATION

INDUSTRIAL

WATERWORKS

GOOD

POOR

ROCK

SPRING

DUG

DRIVEN

DRILLED

JETTED

BORED

0 - 25

25 - 30

50 - 100

100 - 200

200 - 400

> 400

OBSERVATION

ABANDONED

DEVELOPED

SCREEN

PERF. CASING

GRAVEL ENV.

PUMP

FLOWING

NON-FLOW
ARTESIAN

WATER TABLE

PART CONFINED

LOCATION SKETCH—INDICATE NORTH

CHARACTER OF
SUPPLY
AQUIFER

WATER USE

RELIABILITY
OF DATA

ROCK

SPRING

[illegible]

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the web records may be obtained on request by contacting the undersigned.

SOURCES INFORMATION Ken's Drilling

Total Hardness	
Carbonate Hard	
Magnesium Hard	
Fe	
SO ₂	
Ca	
Mg	
Na	
K	
HCO ₃	
CO ₃	
Cl	
SO ₄	
NO ₃	
B	
E	
Total Dis-solids	
Total Alkalinity	
Suspended Solids	
Ph	

92B.083.23.1

MERIDIAN

TENS

UNITS

TENS

UNITS

QUARTER

TENS

UNITS

RANGE

SECTION

LAND DISTRICT

GROUND — WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION LOT 2 SEC 86 PL. 17649

COWICHAN DIST

OWNER'S NAME S.22

ADDRESS

DRILLER'S NAME

ADDRESS

VANCOUVER

DATE OF COMPLETION 1963

DEPTH 220'

ELEVATION OF COLLAR

450'

CASING DIAM

6"

LENGTH

12'

TYPE

METHOD OF DIGGING

SCREEN ☐

SIZE

LENGTH

TYPE

LOCATION OF SCREEN

DEVELOPED ☐ DESCRIBE

PERFORATED CASING ☐

LENGTH

LOCATION OF PERFORATIONS

GRAVEL PACK ☐

LENGTH

DIAM

SIZE GRAVEL, ETC

PUMP ☐

TYPE

POWER

CAPACITY

OTHER DATA

COSTS WELL

PUMP

PUMP HOUSE, ETC.

MAINTENANCE

DISTANCE TO WATER FROM TOP OF CASING

20'

☒

ESTIMATED MEASURED

ELEVATION

FLUCTUATION

HIGH WATER

MONTH

LOW WATER

MONTH

OBSERVATION DATA ☐

FILE No.

WATER USE

MAX. RATE WITHDRAWAL

☐

ESTIMATED

☐

MEASURED

TEMPERATURE

PUMPS SAND ☐

CLOGS SCREEN ☐

TYPE DEPOSIT

AQUIFER DATA

LICENSE No.

DATE LICENSE

AMOUNT

DATE APPLICATION

USE

SALT SPRING ISLAND

Site I.D. 1400400

VISIRecord®

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

SAND

GRAVEL

TILL

DOMESTIC

GARDEN

STOCK

COOLING

IRRIGATION

INDUSTRIAL

WATERWORKS

GOOD

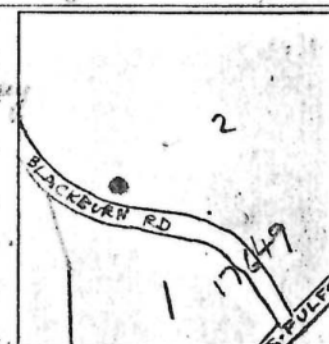
RIVER

DOOR

ROCK

SPRING

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.



LOCATION SKETCH—INDICATE NORTH

METHOD

DEPTH

OBSERVATION

TYPE WELL

DUG

DRIVEN

DRILLED

JETTED

BORED

0 — 25

25 — 30

50 — 100

100 — 200

200 — 400

> 400

ABANDONED

DEVELOPED

SCREEN

PERF. CASING

GRAVEL ENV.

PUMP

FLOWING

NON-FLOW

ARTESIAN

WATER TABLE

PART CONFINED

RELIABILITY

OF DATA

ROCK

SPRING

L O G			
FROM	TO	DESCRIPTION	NAME
		SHALE	
		H ₂ O @ 60'	
		The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned.	

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

SOURCES INFORMATION: FIELD SURVEY

	PPM
Total Hardness	
Carbonate Hard	
Magnesium Hard	
Fe	0.2
SO ₂	
Ca	
Mg	
Na	
K	
HCO ₃	
CO ₃	
Cl	
SO ₄	
NO ₃	
B	
E	
Total Dis-solids	
Total Alkalinity	
Suspended Solids	
Ph	6.3

92B-083-213

GROUND

WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION Lot 1, Sec. 8, Plan 21997 (3.55 acres) Saltspring Island, Cowichan Land Dist.

OWNER'S NAME

ADDRESS RR#1 GANGES B.C.

DRILLER'S NAME KEN'S DRILLING ADDRESS

VANCOUVER B.C. DATE OF COMPLETION 4/9/69

DEPTH 135' ELEVATION OF COLLAR 365' CASING DIAM. 6" LENGTH 9.5 TYPE STICK UP 1'

METHOD OF DIGGING ROTARY SCREEN ☐ SIZE _____ LENGTH _____ TYPE _____

LOCATION OF SCREEN _____ DEVELOPED ☐ DESCRIBE _____

PERFORATED CASING ☐ LENGTH _____ LOCATION OF PERFORATIONS _____

GRAVEL PACK ☐ LENGTH _____ DIAM. _____ SIZE GRAVEL, ETC. _____

PUMP ☐ TYPE _____ POWER _____

CAPACITY _____ OTHER DATA PUMPING LEVEL 120' AT 2 GPM (APPRX.)

COSTS WELL \$848 PUMP _____ PUMP HOUSE, ETC. _____

MAINTENANCE _____

DISTANCE TO WATER FROM TOP OF CASING ☐ ESTIMATED ☐ MEASURED ELEVATION _____ FLUCTUATION _____

HIGH WATER _____ MONTH _____ LOW WATER _____ MONTH _____ OBSERVATION DATA ☐ FILE NO. _____

WATER USE not used. water cloudy. (Now Liking Lake Water)

MAX. RATE WITHDRAWAL ☐ ESTIMATED ☐ MEASURED

TEMPERATURE _____ PUMPS SAND ☐

CLOGS SCREEN ☐ TYPE DEPOSIT _____ AQUIFER DATA _____

"The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."



shl 25

VIA RECORD

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

CHARACTER OF SUPPLY AQUIFER
SAND
GRAVEL
TILL

WATER USE
DOMESTIC
GARDEN
STOCK
COOLING
IRRIGATION
INDUSTRIAL
WATERWORKS

RELIABILITY OF DATA
GOOD
FAIR
POOR

ROCK
SPRING

METHOD
DUG
DRIVEN
DRILLED
JETTED
BORED

DEPTH
0 - 25
25 - 50
50 - 100
100 - 200
200 - 400
> 400

OBSERVATION
ABANDONED
DEVELOPED
SCREEN
PERF. CASING
GRAVEL ENV.
PUMP

TYPE WELL
FLOWING
NON-FLOW ARTESIAN
WATER TABLE
PART CONFINED

[illegible]

CEND 450

REMARKS _____

SIZE ANALYSIS ETC. used against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

SOURCES INFORMATION Ken's Drilling

Mr. Roberts (Manager)

	PPM
Total Hardness	
Carbonate Hard	
Magnesium Hard	
Fe	0.5
SO ₂	
Ca	
Mg	
Na	
K	
HCO ₃	
CO ₃	
Cl	
SO ₄	
NO ₃	
B	
E	
Total Dis-solids	
Total Alkalinity	
Suspended Solids	
Ph	8.5

92B-043-2-1

MERIDIAN

TENS

UNITS

TENS

UNITS

QUARTER

TENS

UNITS

RANGE

SECTION

LAND DISTRICT

GROUND

WATER DIVISION, WATER INVESTIGATIONS BRANCH, DEPT. OF LANDS, FORESTS, and WATER RESOURCES, VICTORIA, B.C.

LOCATION LOT 1 PL 17364 SEC 14 R4E

COWICHAN DIST 15

X5 Y9
#9

OWNER'S NAME S.22

ADDRESS

DRILLER'S NAME

DUG

ADDRESS

DATE OF
COMPLETION

DEPTH

12'

ELEVATION
OF COLLAR

CASING DIAM.

LENGTH

TYPE

METHOD OF DIGGING

SCREEN ☐

SIZE

LENGTH

TYPE

LOCATION OF SCREEN

DEVELOPED ☐ DESCRIBEPERFORATED CASING ☐

LENGTH

LOCATION OF PERFORATIONS

GRAVEL PACK ☐

LENGTH

DIAM.

SIZE GRAVEL, ETC.

PUMP ☐

TYPE

POWER

CAPACITY

OTHER DATA

COSTS WELL

PUMP

PUMP HOUSE, ETC.

MAINTENANCE

DISTANCE TO WATER
FROM TOP OF CASING

6

☐ ESTIMATED☒ MEASURED

ELEVATION

FLUCTUATION

HIGH WATER

MONTH

LOW WATER

MONTH

OBSERVATION DATA ☐

FILE No.

WATER USE

☐ ESTIMATED

MAX. RATE WITHDRAWAL

☐ MEASURED

TEMPERATURE

PUMPS SAND ☐CLOGS SCREEN ☐

TYPE DEPOSIT

AQUIFER DATA

LICENSE No.

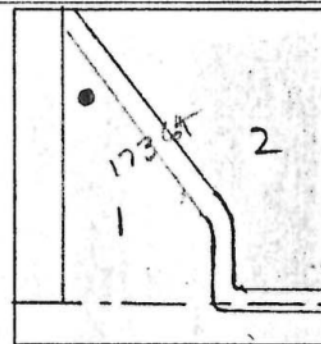
DATE LICENSE

AMOUNT

DATE APPLICATION

USE

SALT SPRING ISLAND



LOCATION SKETCH—INDICATE NORTH

DUG

DRIVEN

DRILLED

JETTED

BORED

0 - 25

25 - 30

50 - 100

100 - 200

200 - 400

> 400

OBSERVATION

ABANDONED

DEVELOPED

SCREEN

PERF. CASING

GRAVEL ENV.

PUMP

FLOWING

NON-FLOW
ARTESIAN

WATER TABLE

PART CONFINED

RELIABILITY
OF DATA

ROCK

SPRING

CHARACTER OF
SUPPLY
AQUIFER

WATER USE

RELIABILITY
OF DATA

ROCK

SPRING

SAND

GRAVEL

TILL

DOMESTIC

GARDEN

STOCK

COOLING

IRRIGATION

INDUSTRIAL

WATERWORKS

FOOD

AIR

DOOR

VISIRecord®

12708

SUPPLY AQUIFER

OTHER AQUIFER PRESENT

OTHER AQUIFER PRESENT

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

TENS

UNITS

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		MERIDIAN		TENS		UNITS		TENS		UNITS		QUARTER		TENS		UNITS		LAND DISTRICT																															
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		RANGE		SECTION		QUARTER		TENS		UNITS		LAND DISTRICT		4		X5 Y9		#10																															
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		WATER RIGHTS BRANCH, DEPT. OF LANDS AND FORESTS, VICTORIA, B.C. (X5, Y9)		LOCATION		14-4 EAST LOT 3 PL 12501 SALTSRING ISLAND COWICHAN DISTRICT		OWNER'S NAME		TWA		ADDRESS		BLACK BURN RD.		DRILLER'S NAME		ADDRESS		DATE OF COMPLETION																													
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		DEPTH		3'		ELEVATION OF COLLAR		390'		CASING DIAM		LENGTH		TYPE		METHOD OF DIGGING		SCREEN		SIZE		LENGTH		TYPE																									
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		PERFORATED CASING		LENGTH		SIZE OPENINGS		DEVELOPED		DESCRIBE		GRAVEL PACK		LENGTH		DIAM		SIZE GRAVEL, ETC		PUMP		TYPE		POWER																									
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		CAPACITY		OTHER DATA		COSTS WELL		PUMP		PUMP HOUSE, ETC		MAINTENANCE		DISTANCE TO WATER FROM TOP OF CASING		ESTIMATED		MEASURED		ELEVATION		FLUCTUATION		HIGH WATER		MONTH		LOW WATER		MONTH		OBSERVATION DATA		FILE No															
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		WATER USE		DOMESTIC		MAX. RATE WITHDRAWAL		ESTIMATED		MEASURED		TEMPERATURE		PUMPS SAND		CLOGS SCREEN		TYPE DEPOSIT		AQUIFER DATA		LICENSE No.		DATE LICENSE		AMOUNT		DATE APPLICATION		USE		LOCATION SKETCH—INDICATE NORTH																	
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		WATER QUALITY		ANALYSIS		SOFT		HARD		HIGH IRON		HIGH SULPHUR		SALTY		ALKALINE		SALINE		POLLUTED		INADEQUATE QUALITY		OBSERVATION		ABANDONED		DEVELOPED		SCREEN		PERF. CASING		GRAVEL ENV		PUMP													
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		CAPACITY GPD		0 - 10 ³		10 ³ - 10 ⁴		10 ⁴ - 10 ⁵		10 ⁵ - 10 ⁶		> 10 ⁶		DRY HOLE		INADEQUATE QUANTITY		PUMPING TEST		FLOWING		NON-FLOW ARTESIAN		WATER TABLE		PART CONFINED		RELIABILITY OF DATA		HOUSEHOLD		GARDEN		STOCK		COOLING		IRRIGATION		INDUSTRIAL		WATERWORKS		FOOD		RAVE		DOOR	
7 4 2 1 7 4 2 1 7 5 4 3 2 1 7 4 2 1 2 1 7 4 2 1 7 4 2 1 7 4 2 1 7 4 2 1		SYSTEMS EQUIPMENT LIMITED, VICTORIA—CANADA 0 1065		SYSTEMS		EQUIPMENT		LIMITED		VICTORIA—CANADA		0 1065		Sht 26		LOCATION SKETCH—INDICATE NORTH		TWA		BLACK BURN		GRANBERRY RD		Sht 26		LOCATION SKETCH—INDICATE NORTH		TWA		BLACK BURN		GRANBERRY RD		Sht 26		LOCATION SKETCH—INDICATE NORTH		TWA		BLACK BURN		GRANBERRY RD							

Ste I.D.

No : 1400387

Sht 26

LOCATION SKETCH—INDICATE NORTH

CHARACTER OF SUPPLY AQUIFER		WATER USE		RELIABILITY OF DATA							
SAND	GRAVEL	HOUSEHOLD	GARDEN	STOCK	COOLING	IRRIGATION	INDUSTRIAL	WATERWORKS	FOOD	RAVE	DOOR

[illegible]

The attached information has been supplied gratuitously to the Province of British Columbia and has not been independently confirmed. Those persons relying on it do so at their own risk, and all persons to whom it is supplied should be cautioned against its use in making financial and other commitments. Comments on the well records may be obtained on request by contacting the drillers concerned."

SAMPLE No _____ DATE _____

LAB. _____

COLIFORM ORGANISMS _____

TOTAL BACTERIA _____

COLOUR _____ ODOUR _____

TASTE _____

TEST BY _____

DATE _____ FILE No _____

SPECIFIC CAPACITY _____ PERMIABILITY _____

STORAGE COEFF _____ POROSITY _____

REMARKS _____

SIZE ANALYSIS ETC. _____

CARD BY D. F. DATE July 1963

SOURCES INFORMATION G. S. C.

	PPM
Total Hardness	
Carbonate Hard	
Magnesium Hard	
Fe	
SO ₂	
Ca	
Mg	
Na	
K	
HCO ₃	
CO ₃	
Cl	
SO ₄	
NO ₃	
B	
E	
Total Dis-solids	
Total Alkalinity	
Suspended Solids	
Ph	