APPENDIX B

Water Supply Source Assessment Application

Water Supply Source Assessment

Step One Application

1) Name of proponent: **Shediac Camping Resort Ltd., 1330 Amirault Street, Unit 32, Dieppe, NB, E1A 8M7, Mr. Pierre Vautour, Phone 506-866-9111.**

2) Locations of drill targets (including property PID) and the purpose of the proposed water supply? **The proposed recreational camp site will be a resort having 10 rental cottages and 250 separate serviced lots for Recreational Vehicles. The water supply will provide water for drinking, washing and other normal residential and food service activities within the park. The property PID is 70429899. The drill targets are shown in Figure 1 in red ink as 25-meter diameter circles and identified as 1 and 2. It is proposed that, after drilling, the most promising of the two new test wells be selected for pump testing and the other new well be used as an observation well. There is an existing well located at the northern boundary of the property, adjacent to the existing residences located north of the site, as shown in Figure 1. This well is 100 feet (30.48 meters) in depth and has an estimated safe yield of 13 igpm (0.98 L/s. A copy of the well log is attached; however, the copy is of poor quality. It is proposed that this existing well be used as a second observation well.**

3) Required water quantity (in m^3/day) and/or required pumping rate: **The projected water requirement can be calculated using a number of design rates. Table 5-2 (Guide for Non-Residential Water Demand) in the Water System Design Manual, August 2001 gives the Water Usage Design Volume for a trailer, with bath, connected to sewer (per**

person) which is the highest water use in the Park classification in Table 5.2 and thus represents a maximum usage estimate (200 L/d/person). I have used an estimate of 3 people per site which is, again, on the high side. This provides an estimated 24-hour water demand for 260 sites (10 cottages and 250 serviced sites) of 200*260*3 = 156,000 L/D or 156 m3/D (23.8 igpm). Alternatively, we can use the reference "Water Use In Forest Service Recreation Areas", US Dept of Agriculture, 2007, which recommends a design rate of 30 US gal per site per person (approximately 115 L per site per person), which yields an estimate of 89,700 L/D (13.7 igpm or 89.7 m3/D). The reference states that the reduction of the design rate is based on the reduced toilet flush volume that has taken place over the last two decades. Or, alternatively, the Atlantic Canada Wastewater Guidelines Manual (2006) provides the estimate of 180 Ls per day per space for wastewater, which yields an estimate of 46,800 L per day (7.1 igpm or 46.8 m3/D). At this point in the process the mid-range estimate of 89,700 L/D (13.7 igpm) seems most reasonable.

4) List alternate water supply sources in area (including municipal systems): **There are no practical alternatives to the proposed groundwater supply. The existing Shediac municipal supply distribution system stops approximately 1000 meters away from the proposed site. A surface water supply would be unsuitable due to potential contamination issues and in any event, the closest potential source is salt water.**

5) Discuss area hydrogeology as it relates to the project requirements. **The surficial overburden at the site is red sandy till of approximately 0 to 35 meters (0 to 115 feet) in thickness. The overburden is not used for ground water supplies in the area.**

The bedrock in the area is mapped as Pennsylvanian age sedimentary rocks composed of red and grey conglomerate, sandstone, siltstone, and shale, which also forms the local bedrock aquifer. The bedrock is known to be relatively transmissive (readily conducts the flow of ground water). The bedrock units or layers tend to be lenticular (i.e. of variable lateral extent and thickness) and are thought to have formed as a result of sedimentary particles deposited from flowing water (alluvial deposition). The individual beds average less than 1 meter in thickness; however, the total bedrock unit can be several hundred meters thick. This bedrock aquifer covers a large portion of New Brunswick, stretching from the Fredericton area northeast to Shippigan and southeast to the Shediac area.

Based on common knowledge of the area, the bedrock aquifer has been successfully developed for private residential wells by a number of individuals over the general area. The general conditions found in the aquifer are suitable for water supply development. Local well drillers with knowledge of the area confirmed the potential for water supply development in terms of private wells. The near surface layers of sandstone may be soft and prone to caving in the well annulus resulting in the need for greater casing lengths than might normally be used.

<u>NBDELG Well Log Data:</u> A search of the NBDOE well log database for records located within a 300 m radius around the proposed development was carried out May 11, 2016 and the search yielded 16 well logs. A summary of the information contained in the well logs is provided in Table 1, immediately below.

Table 1: Summary of hydrogeologic information derived from search of NBDOE well log database (300 meter search radius).

Well Depth (feet)	Estimated Yield (igpm)	Depth to Bedrock (feet)	Casing Length (feet)
Average: 107.8	Average: 41.6	Average: 22.9	Average: 72.5
Median: 100	Median: 32.5	Median: 22	Median: 62
Minimum: 80	Minimum: 6	Minimum: 2	Minimum: 40
Maximum: 201	Maximum: 100	Maximum: 49	Maximum: 152

As can be seen from the above information the average well in the area is approximately 108 feet deep with an estimated yield of approximately 41.6 igpm (272,329 L per day). As expected in any rock unit the yields are variable with a minimum yield of 6 igpm being estimated. Based on the average estimated safe yield of 41.6 igpm for the existing domestic wells, the relatively shallow depth of those wells (107.8 feet (32.9 meters), the development of a water supply providing 13.7 igpm (89,700 L per day) would appear to be a reasonable expectation. The higher the flow

that can be developed from a production well without having undue effects on existing wells would result in lower storage requirements.

<u>NBDELG Well Water Chemistry Data:</u> A search of the NBDOE well chemistry database for locations in a 300 m radius around the proposed development was carried out May 11, 2016 and the search yielded 12 inorganic chemistry records. The precise locations of the wells from which the ground water chemistry was obtained are not available due to right to privacy considerations for the property owners. These well chemistry analytical results are provided in Table 2, which follows. The average value of the measured result and the Canadian Drinking Water Quality Guideline (CDWQG) are included in the table for the purpose of comparison. Any parameter which exceeds the Canadian Drinking Water Quality Guideline concentration is bolded and shaded for ease of recognition in the data table.

Out of the 12 chemistry records available, a single well had elevated chloride (572 mg/L), elevated sodium (412 mg/L), elevated pH (9.72 pH units) and elevated total dissolved solids (1067 mg/L). This is almost certainly the result of drilling to deep and encountering salt water. Such water supplies should be replaced with an alternative, such as a shallower well developed in the surface aquifer, which is very productive at this location.

Out of the 12 chemistry records available, five wells had an exceedence of the CDWQG for iron of 0.3 mg/L and four wells exceeded the CDWQG concentration for

Table 2

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	ALK_T (mg/L)	Al (mg/L)	As (µg/L)	B (mg/L)	Ba (mg/L)	Br (mg/L)	COND (µSIE/cm)	Ca (mg/L)	Cd (µg/L)
	94.9	0.025	1.5	0.011	0.14	0.1	214	19.3	0.5
	98.2	0.025	1.5	0.01	0.204	0.1	213	26.6	0.5
	89.6	0.025	2.7	0.01	0.358	0.1	279	29	0.5
	93.8	0.025	1.9	0.01	0.265	0.1	235	25.3	0.5
	107	0.025	1.5	0.026	0.516	0.101	480	48.1	0.5
	105	0.025	4.3	0.014	0.084	0.267	2130	5.33	0.5
	101	0.025	1.5	0.038	0.569	0.12	522	53	0.5
	94.8	0.025	2.6	0.013	0.295	0.1	439	25.6	0.5
	88.3	0.063	2.6	0.033	0.13	0.1	253	8.86	0.5
	87.4	0.025	1	0.2	0.222	0.1	217	14.1	0.5
	92.7	0.025	1.5	0.011	0.168	0.1	198	21.8	0.5
	85.5	0.025	1.5	0.01	0.171	1.19	368	20.8	0.5
Mean	**94.9**	**0.028**	**2.0**	**0.032**	**0.260**	**0.2**	**462**	**24.8**	**0.5**
CDWQG			**<10**	**<5.0**	**<1.0**				**<5.0**

Parameter	Cl (mg/L)	Cr (µg/L)	Cu (µg/L)	E_coli P/A (P/A)	F (mg/L)	Fe (mg/L)	HARD (mg/L)	K (mg/L)	Mg (mg/L)
	9.11	10	10	Ab	0.1	0.123	67.4	1.05	4.66
	8.92	10	10	Ab	0.157	0.179	95.9	0.9	7.17
	28.8	10	10	Ab	0.12	0.034	105	1.4	8.02
	13.1	10	10	Ab	0.141	0.046	91.8	1.2	6.98
	71.2	20	13	Ab	0.1	0.829	165	1.5	11
	572	10	10	Ab	0.1	0.273	21.1	1.5	1.89
	88.9	10	10	Ab	0.1	0.065	182	1.4	12
	76.8	10	10	Ab	0.136	0.206	90.3	1.4	6.4
	16.9	10	10	Ab	0.106	0.459	29.2	0.9	1.72
	13	10	10	Ab	0.1	0.352	48.8	1.14	3.3
	4.92	10	10		0.1	0.609	72.3	1.12	4.34
	59.3	10	10	Ab	0.117	3.79	78.2	1.17	6.37
Mean	**80.2**	**11**	**10**		**0.11**	**0.580**	**87.3**	**1.22**	**6.15**
CDWQG	**<250**	**<50**	**<1000**		**<1.5**	**<0.3**			

Table 2

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	Mn (mg/L)	NO2 (mg/L)	NO3 (mg/L)	NOX (mg/L)	Na (mg/L)	PH (pH)	Pb (µg/L)	SO4 (mg/L)	Sb (µg/L)
	0.048	0.05	0.05	0.05	22.1	8.15	1	7.85	1
	0.074	0.05	0.05	0.05	9.11	7.95	1	6.79	1
	0.005	0.05	0.35	0.4	13.4	8.17	1	8.34	1
	0.007	0.05	0.05	0.05	11.7	8.17	1	6.68	1
	0.063	0.05	2	2	29	8.04	5.3	8.11	1
	0.02	0.05	0.05	0.05	412	9.72	1.9	10.8	1
	0.022	0.05	1.7	1.8	32.1	8.01	1	9.88	1
	0.032	0.05	0.05	0.1	63.8	8.25	1	8	1
	0.02	0.05	0.05	0.05	45.7	8.55	2.9	11.4	1
	0.026	0.05	0	0.05	25.8	8.32	1	6.74	1
	0.056	0.05	0.05	0.05	17.7	8.14	1.29	7.15	1
	0.179	0.05	0.05	0.05	54.2	8.3	3	6.81	1
Mean	**0.046**	**0.05**	**0.37**	**0.39**	**61.38**	**8.31**	**1.8**	**8.21**	**1.0**
CDWQG	**<0.05**	**<10**	**<10**	**<10**	**<200**	**6.5-8.5**	**<10**	**<500**	**6**

Parameter	Se (µg/L)	TC-P/A (P/A)	TURB (NTU)	Tl (µg/L)	U (µg/L)	Zn (µg/L)	TDS (mg/L)
	1.5	Ab	1.03	1	0.5	7	122
	1.5	Ab	1.47	1	0.5	5	119
	1.5	Ab	1.5	1	1.1	5	145
	1.5	Ab	0.22	1	0.5	5	122
	1.5	Ab	7.5	1	1	33	243
	1.5	Ab	1.3	1	0.5	5	1067
	1.5	Ab	0.65	1	1.5	6	266
	1.5	Ab	1	1	0.7	7	240
	1.5	Ab	5.5	1	0.5	8	139
	1	Ab	1.6	1		10	
	1.5		3.1	1	0.5	12	114
	1.5	Ab	30.1	1	2	8	204
Mean	**1.5**		**4.6**	**1**	**0.8**	**9**	**253**
CDWQG			**<1.0**		**<20**	**<5000**	**<500**

manganese of 0.05 mg/L. The guidelines for iron and/or manganese are based on esthetic considerations, not health. Iron and/or manganese can cause staining of plumbing fixtures and laundry. Iron and/or manganese can usually be readily removed by commercial water softeners at the hardness observed in this water or by filters. The presence of Iron and/or manganese in the groundwater from this aquifer is not uncommon and is commonly the result of natural conditions.

Out of the 12 chemistry results provided, a total of one well had a pH value elevated above the upper bound of 8.5 for the CDWQG (plus the salt water well). The observed value of 8.55 is not considered a significant difference. Elevated pH values may lead to encrustation in plumbing systems. The criterion is not related to health. pH can be easily treated in water treatment systems.

A total of 10 out of the 12 chemistry records available had elevated turbidity present in the samples. The elevated levels of turbidity may be related to the relative newness of the wells and they may not have had sufficient time, or use, to clear naturally. Most new wells clear naturally with time and use. At levels in excess of 5 NTUs turbidity may become noticeable to consumers and therefore, objectionable. The turbidity may be the result of elevated concentrations of iron and or manganese or the presence of particulate in the water. In either case, turbidity can be treated by water softeners and/or particulate filters.

The observed water chemistries are of acceptable drinking water quality and can be considered to be typical of this bedrock unit. The elevated turbidity observed in a number of the well in the sample sets may be related to the newness of the wells and the fact that they have not been pumped sufficiently to clear the water Elevated turbidity values may also impact analytical results leading to overestimates of iron and manganese concentrations or other trace metals. Overall, the review of the inorganic ground water chemistry provided in the NBDOE water quality database for the area did not reveal or indicate significant problems with other water quality parameters.

6) Outline proposed hydrogeological testing and work schedule: **It is proposed that a minimum of two wells be drilled, constructed and tested before the end of August. It is our intention to initiate the drilling program as soon as possible, pending approval of the Step One Application. The well with the highest capacity will be used as the production well and the second well used as an observation well. Pump testing of the production well would be carried out during the summer period, 2016, contingent on acceptable weather conditions. The report would be submitted to New Brunswick Department of the Environment within two weeks of the completion of the pump test.**

7) Identify any existing pollution or contamination hazards within a (minimum) 500 m radius of the proposed drill targets. If groundwater use problems (quantity or quality) have occurred in the past, then these should be identified. Historical land use that might pose a contamination hazard (i.e. tannery, industrial, disposal, etc.) should also be discussed. **The**

actual proposed drill targets as shown in Figure 1 are located in undeveloped fields. Most of the property was farmed in the past. The existing land use in the general area is residential/recreational and undeveloped fields. The actual proposed new expansion site is undeveloped field. The existing residential development relies on private individual wells for the water supply but is connected to the Shediac municipal sanitary sewer system. Based on the existing land use in the area, the potential contamination of ground water resources by previous land uses does not appear to be an issue for the proposed development.

8) Identify any groundwater use problems (quantity or quality) that have occurred in the area. **No systematic groundwater use problems are known for this area.**

9) Identify any watercourse(s) (stream, brook, river, wetland, etc.) within 60 m of the proposed drill targets. **The center of Drill Target 1 is located approximately 60 meters east of the Little Barachois River, but is outside the 30-meter setback.**

10) Identify site supervisory personnel involved in the source development (municipal officials, consultants and drillers: **Mr. Doug Craig (Craig Hydrogeologic Inc., 506-659-3064) and Mr. Val LeBlanc, (Eastern Well Drillers, 506 532 9797).**

11) Figure 1 (site plan): **Please See Attached.**

12) Figure 2 (land use/zoning map): **A copy of a zoning map and the re-zoning document are attached to this Application.**

CAP-BRÛLÉ CAMPGROUND
EUCLIDE STREET, CAP-BRÛLÉ NB

REZONING REQUEST

LAND INFORMATION
PID 00861443
Proposed site - - - - - -
Area = 9.69 ha (± 23.95 Acres)
Existing Zoning: CR - Coastal Residential

PROPOSED CAMPGROUND AMENITIES & SERVICES
Facilities:
- Main building: reception, recreational hall, administration, etc.
- Maintenance shed
- Swimming pool
- Playground area
- Comfort stations (3)
- Laundry

CAMPING & COTTAGES
Campsites:
- 114 standard sites
- 100 premium sites
- 15 pull-through sites
- 10 daily tent sites
- Total = 229 sites

Rental Cottages:
- 10 units

N

JOLINE STREET (PRIVATE STREET)

PID 01065614 | PID 01065606 | PID 01065598 | PID 01065580 | PID 01065572

PID 01065622 | PID 01065630 | PID 01065648

EXISTING WELL LOCATION

EMERGENCY EXIT
PRIVACY SCREEN

RUE LISE (PRIVATE STREET)

RENTAL COTTAGES

EDGE OF PROVINCIALLY SIGNIFICANT WETLAND (GEONB MAP)

EDGE OF WETLAND SURVEYED SEPTEMBER 2015

COMFORT STATION 3

DEVELOPMENT WITHIN THE 15-30 METRE PSW SETBACK SUBJECT TO WAWA PERMIT UNDER THE WATERCOURSE AND WETLAND ALTERATION REGULATION (REGN 90-80) OF THE CLEAN WATER ACT. (SEE ENCLOSED CORRESPONDENCE FROM ENB DATED JULY 20, 2015

PID 70429899 NATURAL RESOURCES

EUCLIDE LEGER ROAD (PRIVATE)

PLAY AREA

PULL-THRU CAMPSITES

SWIMMING POOL

COMFORT STATION 2 & LAUNDRY

10m (30' 6") NATURAL CONSERVATION BUFFER

30m WIDE AREA IS SUBJECT TO A PROVINCIALLY SIGNIFICANT WETLAND

EDGE OF PROVINCIALLY SIGNIFICANT WETLAND (GEONB MAP)

PID 00861458

PID 70086335 OCEAN SURF LTD

PID 70429899
676451 NB Ltée
676451 NB Ltd.

Proposed Test Well 2

30m WIDE AREA IS SUBJECT TO A REGULATED WETLAND

MAINTENANCE SHED

MEMBERS GATE

RECEPTION
COMFORT STATION
ADMINISTRATION

10 DAILY TENT CAMPSITES

13 PARKING SPACES
4 RV PARKING SPACES

LITTLE BARACHOIS RIVER

Proposed Test Well 1

R = 23m

PROPOSED PUBLIC ROAD

245m

EUCLIDE LEGER ROAD (PUBLIC)

PID 00861450

ROUTE 133

Figure 1
Proposed Test Well Locations

TENTATIVE PLAN ONLY
NOT TO SCALE

ide J.R. DAIGLE
ingénierie • engineering
arpentage • land surveying

Prepared for: Private
Date: January 2016
Job No: 20157156

CONCEPTUAL MASTER PLAN

35941057
2016-05-18
16:00:19

ARRÊTÉ 09-1FF

Établi en vertu de la *LOI SUR L'URBANISME*

Arrêté modifiant l'arrêté adoptant le plan rural de la Communauté rurale Beaubassin-est

En vertu des pouvoirs que lui confère l'article 77.2 de la *Loi sur l'urbanisme*, le conseil de la Communauté rurale Beaubassin-est, dûment réuni, adopte ce qui suit :

L'arrêté 09-1 intitulé « Arrêté adoptant le plan rural de la Communauté rurale Beaubassin-est » est modifié afin de :

- Rezoner des lots ayant les NID 70269758, 70269766, 70269774, 70269782, et une portion du lot ayant NID 00861443, de la zone RC-Résidentielle côtière à la zone CG-Commerce général afin d'aménager un terrain de camping sous réserve des termes et conditions imposées à l'annexe « A ».

PREMIÈRE LECTURE PAR TITRE : 3 mai 2016
Date

DEUXIÈME LECTURE PAR TITRE : 3 mai 2016
Date

LECTURE DANS SON INTÉGRALITÉ : 4 mai 2016
Date

TROISIÈME LECTURE PAR TITRE ET ADOPTION : 4 mai 2016
Date

M. Jean-Albert Cormier, maire

M. Pierre LaForest, greffier suppléant

ANNEXE « A »

RÉSOLUTION DU CONSEIL ÉTABLIE
EN VERTU DE L'ARTICLE 39 DE LA *LOI SUR L'URBANISME*

- **CONSIDÉRANT QUE** le requérant pour les propriétés portant les NID 70269758, 70269766, 70269774, 70269782, et une portion du lot ayant NID 00861443, a fait une demande afin de rezoner lesdites propriétés de la zone RC-Résidentielle côtière à la zone CG-Commerce général afin d'aménager un terrain de camping;

ET CONSIDÉRANT QUE le conseil a approuvé cette demande sujette à des conditions,

IL EST RÉSOLU QUE :

1. Nonobstant toutes autres dispositions au contraire, les terrains, bâtiments et constructions aménagés sur la propriété ci-haut mentionné sont soumis aux termes et conditions suivants :

a. Que les propriétés à être rezonées sont telle que spécifiée à l'annexe B de cet Arrêté ;

b. Que le projet soit enregistré pour une étude d'impact sur l'environnement provincial,

c. Que le plan de site final reflète les recommandations de l'étude d'impact sur l'environnement, et inclue la démarcation de la zone ENM, les accès/sorties, les zones tampons, les zones humides, l'emplacement et le nombre de sites de camping et/ou chalets, l'emplacement de bâtiments, l'aménagement paysager et le stationnement,

d. Que le plan de site final reçoive l'approbation par résolution du conseil de la Communauté rurale de Beaubassin-est,

e. Que la portion du développement dedans la zone Élévation du niveau de la mer (ENM) requiert des vannes d'arrête pour les services d'égout et d'eau,

f. Que les services d'électricité dedans la zone Élévation du niveau de la mer (ENM) soient imperméables et que les prises électriques soient situées à une hauteur de 4,3 mètres CGVD28,

g. Qu'un plan de drainage soit fait par un ingénieur qui est licencié pour pratiquer au Nouveau-Brunswick,

h. Que si le chemin Euclide Leger est utilisé comme accès, la portion du chemin consacrée au terrain de camping devra être améliorée au standard provincial de Classe « A » sans coût au Ministère des Transports et Infrastructure,

i. Qu'un rapport d'inspection des distances de visibilité préparé par un arpenteur licencié et une étude d'impact sur la circulation préparée par un ingénieur qui est licencié pour pratiquer au Nouveau-Brunswick soient complétés,

j. Que le plan des services d'égout sur le site reçoive l'approbation de la Commission des Égouts Shediac et Banlieues;

k. Que tout bâtiment et/ou structure futur sur le site devra obtenir un permis d'aménagement / construction et être en conformité avec le Plan rural et l'arrêté de construction en vigueur au moment de l'application ;

l. Que les travaux de construction principaux de l'aménagement proposé devront commencer au plus tard 2 ans à compter de la date d'entrée en vigueur de la modification de zonage sinon le rezonage sera révoqué ; et

m. que nonobstant l'article 10.1(1) du plan rural, il sera permis d'installer plus qu'un bâtiment principal sur le terrain, tel que des salles de toilettes et lavage, un bureau d'administration/réception, une salle de récréation, et jusqu'à 23 chalets à louer;

n. que la portion du terrain ayant NID 008861443 destiné à l'utilisation du terrain de camping soit loti et consolidé avec les propriétés ayant les NID 70269758, 70269766, 70269774, et 70269782

o. En cas de violation des termes et conditions mentionné ci-haut, des modifications qui y sont apportées ou des dispositions du plan rural de Beaubassin-est, par le propriétaire du bien-fonds portant les NID 70269758, 70269766, 70269774, 70269782, et une portion du lot ayant NID 00861443, ou par ses héritiers, ayants droit ou successeurs, ou par tout autre propriétaire ou exploitant dudit bien-fonds, le conseil peut, en agissant de façon raisonnable et après avoir donné l'occasion de remédier à la violation, dans la mesure où il est possible d'y remédier, déclarer l'arrêté nul, et le propriétaire, ou ses héritiers, ayants droit ou successeurs, ou tout autre propriétaire ou exploitant du bien-fonds ci-décrit, perdront le droit d'utiliser ledit bien-fonds pour toute autre fin, sauf celles autorisées par le plan rural de Beaubassin-est et de la *Loi sur l'urbanisme*.

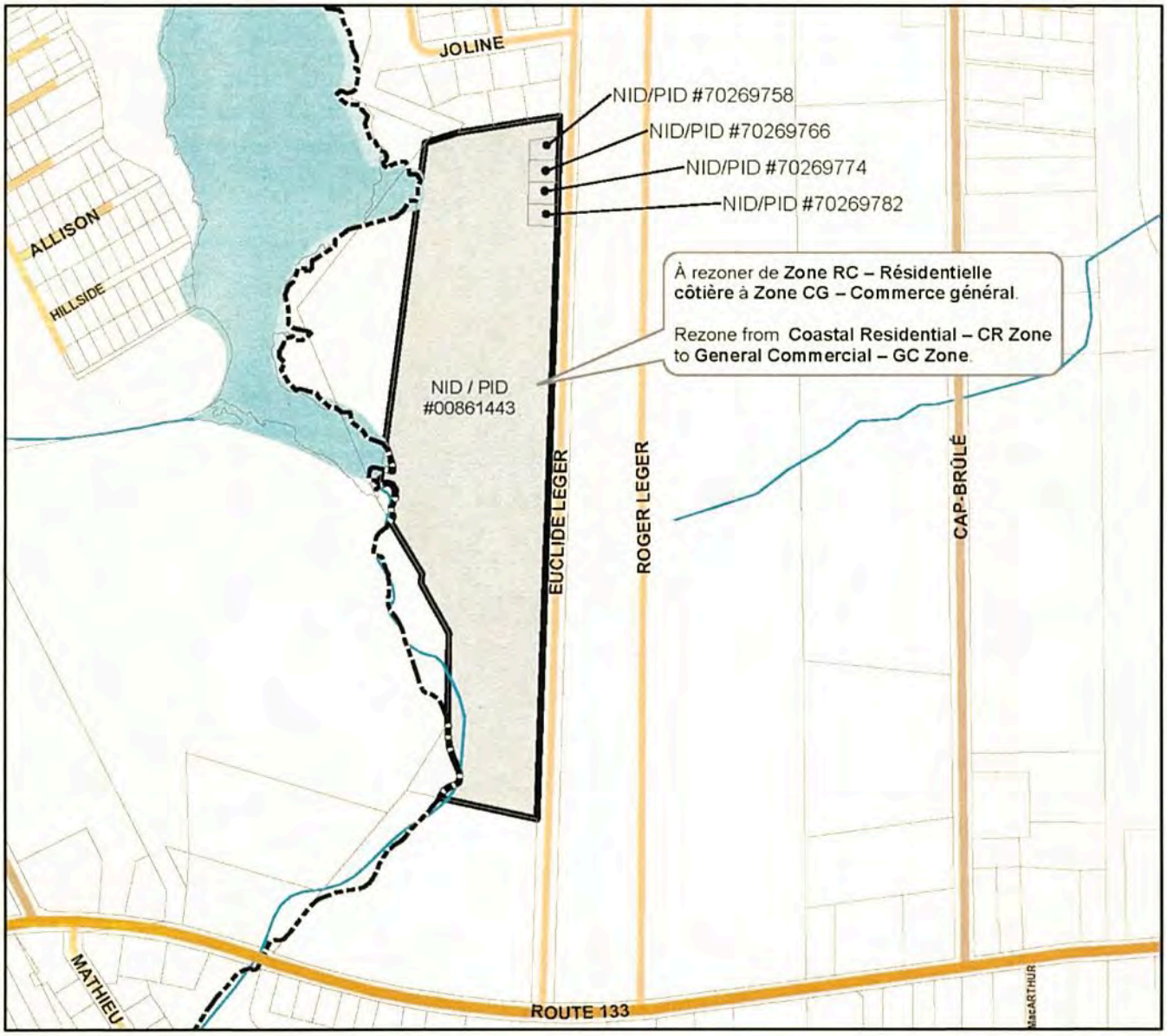
2. Sous réserve du paragraphe (1), les dispositions prévues à la zone Commerce général (CG) ainsi que les dispositions générales de l'Arrêté adoptant le plan rural de Beaubassin-est, s'appliquent mutatis mutandis.

Adopté par le conseil par résolution (# 16-09) le 4 mai 2016.

Annexe B / Schedule B

Carte de zonage de la communauté rurale de Beaubassin-est
Beaubassin East Rural Community Zoning Map

le 4 février 2016 / Date: February 4, 2016



Légende / Legend

Zone CG – Commerce général / General Commercial – GC Zone

N
W E
S

échelle / Scale 1:6,000

0 50 100 200 300 400 500 600 Metres / mètres

New Brunswick

DEPARTMENT OF ENVIRONMENT

WATER WELL DRILLER'S REPORT

00033309

OFFICE USE ONLY	HEALTH CODE	LAB NO.	SAMPLE RECEIVED DATE
FIELD NO.	HEALTH OFFICE	EVENT NO.	YR MO DAY

SAMPLE RECEIVED BY:

TESTING VOUCHER INFORMATION — **MANDATORY FOR WATER TEST**

SEE BACK FOR DETAILS **PLEASE PRINT**

INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF SAMPLING

FIRST NAME LAST NAME

ADDRESS (MAIL RESULTS TO:)

CITY/TOWN/VILLAGE PROV. POSTAL CODE

DAYTIME PHONE FAX NO.

TEL. NO. SAMPLE COLLECTED YR MO DAY HR MIN AM PM

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE? SEE BACK FOR DETAILS

IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:

ATTENTION OF:

TEL NO. FAX NO.

SIGNATURE OF WELL OWNER

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING?

YES ☒ NO ☐

WELL / WATER USE:

INDUSTRIAL	☐	ABANDONED	☐	DOMESTIC	☐
EXPLORATORY	☐	MUNICIPAL	☐	MONITORING	☐
HEAT PUMP	☐	OBSERVATION	☐	OTHER	☐

TYPE OF WORK COMPLETED: NEW WELL ☐ DEEPENED ☐

OTHER: _____

METHOD:

CABLE TOOL ☐ ROTARY ☐ OTHER _____

CASING INSTALLED:

LENGTH OF CASING ABOVE GROUND: 3 FT. 0 IN.

STEEL: _____ IN DIAM. FROM 0 FT. TO 30 FT.

PVC: _____ IN DIAM. FROM _____ FT. TO _____ FT.

SLOTTED _____ IN DIAM. FROM _____ FT. TO _____ FT.

SCREENS: TYPE: ____ SLOT SIZE _____

____ IN DIAM. FROM ____ FT. TO ____ FT.

DRIVE SHOE: ☐ YES ☐ NO

SETBACKS: SEE BACK FOR DETAILS

SEPTIC TANK (1) _____ FT.

SEPTIC TANK (2) _____ FT. FIELD (2) _____ FT. FIELD (1) _____ FT.

*RIGHT OF WAY OF ANY PUBLIC ROAD ☐ (1) _____ ROAD (2) _____

CENTER OF ROAD ☐ (1) _____ (2) _____

SETBACKS MEASURED _____ (NEW CONSTRUCTION)

APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER _____ (EXISTING CONST.)

FLOWING WELL? YES ☐ NO ☐ IF YES - RATE: _____ igpm (approx.)

AQUIFER TEST: METHOD: AIR ☐ BAILER ☐ PUMP ☐

INITIAL WATER LEVEL: _____ FT BELOW TOP OF CASING

PUMPING RATE _____ igpm DURATION: _____ hrs. _____ min.

FINAL WATER LEVEL: _____ FT. BELOW TOP OF CASING

ESTIMATED SAFE YIELD: _____ igpm

WELL GROUTED? YES ☐ NO ☐

FROM _____ FT. TO _____ FT. GROUT TYPE: _____

DRILLING FLUIDS USED: YES ☐ NO ☐

TYPE: _____

P.I.D. NO. 70269758

WELL I.D. NO. 0052295

WELL OWNER INFORMATION

INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF DRILLING

FIRST NAME LAST NAME [redacted]

ADDRESS [redacted]

CITY/TOWN/VILLAGE PROVINCE POSTAL CODE [redacted]

WELL LOCATION: SAME AS ABOVE ..... OR

CIVIC NUMBER STREET NAME

CHEMIN EUCLIDE LEGER

CITY/TOWN/VILLAGE

WELL PAID FOR BY PROVINCIAL DEPT. OF _____

WELL ON RESERVE?	WELL ALREADY TAGGED?	OLD WELL I.D.
YES ☐ NO ☐	YES ☐ NO ☐	

DRILLER'S LOG *

FROM (FT.)	TO (FT.)	COLOUR	ROCK TYPE
Ground Level	0	Brn	Soil
0	23	Red	Sand
23	27	Grey	Sand and Clay
27	42	Red	Sand Stone
42	70	Grey	Stone
70	100	Grey	Sand Stone

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS

TOTAL WELL DEPTH: 100 FT. DEPTH TO BEDROCK: 30 FT.

WATER BEARING 1 5 igpm AT 60 FT. 2 1 igpm AT 62 FT.

FRACTURE ZONES: 3 10 igpm AT 92 FT. 4 5 igpm AT 98 FT.

PUMP INSTALLATION: INSTALLED ☐ NOT INSTALLED ☐

PUMP INTAKE SETTING: _____ FT. BELOW TOP OF CASING (Recommended)

PUMP TYPE: SUBMERSIBLE ☐ JET ☐ TURBINE ☐

OTHER _____

WELL DISINFECTED? YES ☐ NO ☐

TYPE _____

DRILLER'S COMMENTS _____

DRILLING COMPANY: _____

COMPLETION DATE: ____ YR. ____ MO. ____ DAY LICENSE NO. _____

G.P.S. (OPTIONAL)

I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.

Signature of Driller _____ Signature of Helper _____

WHITE - NB DENV
BLUE - Homeowner / Voucher
YELLOW - Homeowner
PINK - Drilling Company

KEEP THIS REPORT WITH YOUR IMPORTANT DOCUMENTS

YR MO DAY HR MIN AM PM

CIVIC NUMBER STREET NAME: CHEMIN EUCLIDE LEGER

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE? SEE BACK FOR DETAILS

IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:

ATTENTION OF:

TEL NO. | FAX NO.

SIGNATURE OF WELL OWNER

CITY/TOWN/VILLAGE | WELL PAID FOR BY PROVINCIAL DEPT. OF

WELL ON RESERVE? YES ☐ NO ☑ | WELL ALREADY TAGGED? YES ☐ NO ☑ | OLD WELL I.D.

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING? YES ☑ NO ☐

WELL / WATER USE:

INDUSTRIAL ☐ ABANDONED ☐ DOMESTIC ☑
EXPLORATORY ☐ MUNICIPAL ☐ MONITORING ☐
HEAT PUMP ☐ OBSERVATION ☐ OTHER ☐

TYPE OF WORK COMPLETED: NEW WELL ☑ DEEPENED ☐

OTHER:

METHOD:

CABLE TOOL ☐ ROTARY ☑ OTHER

CASING INSTALLED:

LENGTH OF CASING ABOVE GROUND: 3 FT. 0 IN.

STEEL: 6 IN DIAM. FROM 6 FT. TO 30 FT.

PVC: — IN DIAM. FROM — FT. TO — FT.

SLOTTED — IN DIAM. FROM — FT. TO — FT.

SCREENS: TYPE: — SLOT SIZE —

— IN DIAM. FROM — FT. TO — FT.

DRIVE SHOE: YES ☐ NO ☐

SETBACKS: SEE BACK FOR DETAILS

SEPTIC TANK (1) none FT.

SEPTIC TANK (2) — FT. FIELD (2) — FT. FIELD (1) none FT.

*RIGHT OF WAY OF ANY PUBLIC ROAD ☐ (1) — ROAD (2) none

CENTER OF ROAD ☑ (1) 75 FT (2) —

SETBACKS MEASURED ✓ (NEW CONSTRUCTION)

APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER — (EXISTING CONST.)

FLOWING WELL? YES ☐ NO ☑ IF YES - RATE: — igpm (approx.)

AQUIFER TEST: METHOD: AIR ☑ BAILER ☐ PUMP ☐

INITIAL WATER LEVEL: 10 FT BELOW TOP OF CASING

PUMPING RATE 10 igpm DURATION: 1 hrs. — min.

FINAL WATER LEVEL: 35 FT. BELOW TOP OF CASING

ESTIMATED SAFE YIELD: 10 igpm

WELL GROUTED? YES ☑ NO ☐

FROM 30 FT. TO 22 FT. GROUT TYPE: ~~Bent~~ 3/8 Chip

DRILLING FLUIDS USED: YES ☐ NO ☐

TYPE:

DRILLER'S LOG

FROM (FT.)	TO (FT.)	COLOUR	ROCK TYPE
Ground Level	10	Brown	Gravel
10	23	Red	Sand
23	28	Brown	Sand and C
28	49	Red	Sand Stone
49	67	Brown	Stone
67	100	Grey	Sand Stone

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS

TOTAL WELL DEPTH: 100 FT. DEPTH TO BEDROCK: 30 FT.

WATER BEARING 1: 5 igpm AT 60 FT. 2 1 igpm AT 65 FT.

FRACTURE ZONES: 10 igpm AT 95 FT. 4 5 igpm AT 95 FT.

PUMP INSTALLATION: INSTALLED ☐ NOT INSTALLED ☑

PUMP INTAKE SETTING: — FT. BELOW TOP OF CASING (Recommended)

PUMP TYPE: SUBMERSIBLE ☐ JET ☐ TURBINE ☐

OTHER

WELL DISINFECTED? YES ☑ NO ☐

TYPE Lawn

DRILLER'S COMMENTS Vendeuil Land.

DRILLING COMPANY: Eric well Drilling

COMPLETION DATE: 13 06 10 (YR. MO. DAY) LICENSE NO. 217

G.P.S. (OPTIONAL)

I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.

Signature of Driller Signature of Helper

WHITE - NB DENV
BLUE - Homeowner / Vouch
YELLOW - Homeowner
PINK - Drilling Company

KEEP THIS REPORT WITH YOUR

Cape Brule Campground Water Supply 110516

300 meter radius

Well Depth (Feet)	**Estimated Yield** (igpm)	**Depth to Bedrock** (Feet)	**Casing Length** (Feet)
115	30	38	80
110	12	8	69
201	25	4	152
81	50	24	60
90	25	20	60
80	60	17	50
90	70	20	60
160	35	2	120
80	70	26	60
100	60	33	66
100	70	37	
120	15	49	72
90	6	37	40
85	100	6	45
120	25	5	92
102	12	40	62
Well Depth (Feet)	**Estimated Yield** (igpm)	**Depth to Bedrock** (Feet)	**Casing Length** (Feet)

Median	100	32.5	22	62 Median
average	107.8	41.6	22.9	72.5 AVERAGE
max	201	100	49	152 max
min	80	6	2	40 min
count	16			

New Nouveau Brunswick

Environment

Report Number **1949**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	08/15/2002

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
1949	Steel	6 inch	0ft	80ft	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	30 igpm	1hr	12ft	30 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
N/A

Qty 0 ig

Pump Installed
N/A

Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
1949	0ft	8ft	Brown	Overburden
1949	8ft	23ft	Brown	Clay and Shale
1949	23ft	38ft	Grey	Clay and Shale
1949	38ft	46ft	Grey	Sandstone
1949	46ft	62ft	Brown	Clay and Shale
1949	62ft	67ft	Grey	Sandstone
1949	67ft	77ft	Brown	Clay and Shale
1949	77ft	81ft	Brown	Sandstone
1949	81ft	115ft	Grey	Sandstone

Overall Well Depth
115ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
1949	82ft	5 igpm
1949	111ft	25 igpm

Setbacks

There is no Setback information.

New Nouveau Brunswick

Environment

Report Number **6757**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	07/14/2003

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
6757	Steel	6 inch	0ft	69ft	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	12 igpm	1hr	20ft	12 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
N/A

Qty 0 ig

Pump Installed
N/A

Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
6757	0ft	8ft	Brown	Overburden
6757	8ft	25ft	Brown	Sandstone
6757	25ft	45ft	Brown	Clay and Shale
6757	45ft	47ft	Grey	Soapstone
6757	47ft	52ft	Grey	Sandstone
6757	52ft	65ft	Brown	Clay and Shale
6757	65ft	110ft	Grey	Sandstone

Overall Well Depth
110ft

Bedrock Level
65ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
6757	75ft	6 igpm
6757	100ft	6 igpm

Setbacks

There is no Setback information.

New Nouveau Brunswick

Environment

Report Number **8111**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	05/05/2004

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
8111	Steel	6 inch	0ft	152ft	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	25 igpm	1hr	20ft	25 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
Submersible
Intake Setting (BTC)
100ft

Driller's Log

Well Log	From	End	Colour	Rock Type
8111	0ft	2ft	EMPTY VALUE	Overburden
8111	2ft	4ft	Brown	Sand and Shale
8111	4ft	21ft	Brown	Sand
8111	21ft	28ft	Grey	Broken Sandstone
8111	28ft	35ft	Grey	Sandstone
8111	35ft	49ft	Brown	Clay and Shale
8111	49ft	70ft	Grey	Sandstone
8111	70ft	78ft	EMPTY VALUE	Conglomerate
8111	78ft	91ft	Grey	Sandstone
8111	91ft	100ft	Brown	Clay and Shale
8111	100ft	106ft	Grey	Soft Sandstone
8111	106ft	121ft	Grey	Conglomerate and Sandstone
8111	121ft	137ft	Grey	Sandstone
8111	137ft	150ft	Brown	Clay and Shale
8111	150ft	201ft	Grey	Sandstone

Overall Well Depth
201ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
8111	72ft	4 igpm
8111	106ft	6 igpm
8111	166ft	10 igpm
8111	194ft	15 igpm

Setbacks

Well Log	Distance	Setback From
8111	300ft	Right of any Public Way Road

New Nouveau Brunswick

Environment

Report Number **8663**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	07/06/2004

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
8663	**Steel**	**6 inch**	**0ft**	**60ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	50 igpm	1hr	8ft	50 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
8663	**4ft**	**24ft**	**Brown**	**Clay and Shale**
8663	**24ft**	**30ft**	**Grey**	**Sandstone**
8663	**30ft**	**36ft**	**Grey**	**Soapstone**
8663	**36ft**	**41ft**	**Brown**	**Clay and Shale**
8663	**41ft**	**55ft**	**Brown and grey**	**Sandstone and Shale**
8663	**55ft**	**81ft**	**Grey**	**Sandstone**
8663	**0ft**	**4ft**	**EMPTY VALUE**	**Overburden**

Overall Well Depth
81ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
8663	**67ft**	**50 igpm**

Setbacks

Well Log	Distance	Setback From
8663	**40ft**	**Right of any Public Way Road**

New Nouveau Brunswick

Environment

Report Number **10464**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	05/27/2005

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
10464	**Steel**	**6 inch**	**0ft**	**60ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	25 igpm	1hr	10ft	25 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
Submersible
Intake Setting (BTC)
55ft

Driller's Log

Well Log	From	End	Colour	Rock Type
10464	**0ft**	**3ft**	**Brown**	**Overburden**
10464	**3ft**	**20ft**	**Brown**	**Clay and Shale**
10464	**20ft**	**22ft**	**Brown**	**Sandstone**
10464	**22ft**	**34ft**	**Brown**	**Clay and Shale**
10464	**34ft**	**41ft**	**Grey**	**Sandstone**
10464	**41ft**	**53ft**	**Brown and grey**	**Sandstone and Shale**
10464	**53ft**	**60ft**	**Grey**	**Sandstone**
10464	**60ft**	**72ft**	**Grey**	**Conglomerate and Sandstone**
10464	**72ft**	**90ft**	**Grey**	**Coarse Sandstone**

Overall Well Depth
90ft

Bedrock Level
20ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
10464	**56ft**	**2 igpm**
10464	**65ft**	**10 igpm**
10464	**74ft**	**15 igpm**

Setbacks

Well Log	Distance	Setback From
10464	**60ft**	**Right of any Public Way Road**

New Nouveau Brunswick

Environment

Report Number **12816**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	07/11/2007

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
12816	**Steel**	**6 inch**	**0ft**	**50ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	7ft	60 igpm	1hr	7ft	60 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
12816	**0ft**	**17ft**	**Brown**	**Clay and Shale**
12816	**17ft**	**25ft**	**Grey**	**Sandstone**
12816	**25ft**	**39ft**	**Brown**	**Clay and Shale**
12816	**39ft**	**42ft**	**Grey**	**Sandstone**
12816	**42ft**	**46ft**	**Brown**	**Clay and Shale**
12816	**46ft**	**80ft**	**Light grey**	**Sandstone**

Overall Well Depth
80ft

Bedrock Level
17ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
12816	**55ft**	**40 igpm**
12816	**70ft**	**20 igpm**

Setbacks

Well Log	Distance	Setback From
12816	**35ft**	**Right of any Public Way Road**

New Nouveau Brunswick

Environment

Report Number **17623**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	09/03/2008

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
17623	Steel	6 inch	0ft	60ft	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	10ft	70 igpm	1hr	10ft	70 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
17623	0ft	20ft	Brown	Clay and Shale
17623	20ft	24ft	Grey	Soapstone
17623	24ft	38ft	Brown	Clay and Shale
17623	38ft	47ft	Brown	Sandstone and Shale
17623	47ft	90ft	Grey	Sandstone

Overall Well Depth
90ft

Bedrock Level
20ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
17623	50ft	8 igpm
17623	68ft	70 igpm

Setbacks

Well Log	Distance	Setback From
17623	170ft	Right of any Public Way Road

New Nouveau Brunswick

Environment

Report Number **17637**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	10/02/2008

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
17637	**Steel**	**6 inch**	**0ft**	**120ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	25ft	35 igpm	1hr	25ft	35 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
17637	**0ft**	**2ft**	**EMPTY VALUE**	**Overburden**
17637	**2ft**	**36ft**	**Grey**	**Sandstone**
17637	**36ft**	**55ft**	**Brown**	**Clay and Shale**
17637	**55ft**	**72ft**	**Grey**	**Soapstone**
17637	**72ft**	**76ft**	**Grey**	**Conglomerate and Sandstone**
17637	**76ft**	**90ft**	**Brown**	**Clay and Shale**
17637	**90ft**	**92ft**	**Grey**	**Soapstone**
17637	**92ft**	**95ft**	**Grey**	**Sandstone**
17637	**95ft**	**110ft**	**Brown**	**Clay and Shale**
17637	**110ft**	**150ft**	**Grey**	**Sandstone**
17637	**150ft**	**160ft**	**Grey**	**Conglomerate and Sandstone**

Overall Well Depth
160ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
17637	**126ft**	**5 igpm**
17637	**137ft**	**20 igpm**
17637	**150ft**	**10 igpm**

Setbacks

Well Log	Distance	Setback From
17637	**38ft**	**Right of any Public Way Road**
17637	**100ft**	**Right of any Public Way Road**

Approximate setbacks indicated by homeowner (existing construction)

New Nouveau Brunswick

Environment

Report Number **18230**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	08/01/2007

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
18230	**Steel**	**6 inch**	**0ft**	**60ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	8ft	70 igpm	1hr	8ft	70 igpm	No	0 igpm
	(BTC - Below top of casing)						

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
18230	**0ft**	**26ft**	**Brown**	**Clay and Shale**
18230	**26ft**	**32ft**	**Grey**	**Sandstone**
18230	**32ft**	**44ft**	**Brown**	**Clay and Shale**
18230	**44ft**	**80ft**	**Grey**	**Sandstone**

Overall Well Depth
80ft

Bedrock Level
26ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
18230	**50ft**	**11 igpm**
18230	**72ft**	**70 igpm**

Setbacks

Well Log	Distance	Setback From
18230	**90ft**	**Right of any Public Way Road**

New Nouveau Brunswick

Environment

Report Number **18259**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	09/17/2007

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
18259	**Steel**	**6 inch**	**0ft**	**66ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	8ft	60 igpm	1hr	8ft	60 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
18259	**0ft**	**10ft**	**Brown**	**Overburden**
18259	**10ft**	**33ft**	**Brown**	**Clay and Shale**
18259	**33ft**	**36ft**	**Grey**	**Sandstone**
18259	**36ft**	**38ft**	**Brown**	**Clay and Shale**
18259	**38ft**	**44ft**	**Grey**	**Clay and Shale**
18259	**44ft**	**57ft**	**Brown**	**Clay and Shale**
18259	**57ft**	**100ft**	**Grey**	**Sand and Sandstone**

Overall Well Depth
100ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
18259	**75ft**	**10 igpm**
18259	**84ft**	**50 igpm**

Setbacks

Well Log	Distance	Setback From
18259	**105ft**	**Right of any Public Way Road**

New Nouveau Brunswick

Environment

Report Number **28180**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	11/14/2008

Casing Information — Casing above ground 2ft — Drive Shoe Used? Yes

There is no casing information.

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	10ft	70 igpm	0hr	10ft	70 igpm	No	0 igpm
	(BTC - Below top of casing)						

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine Pucks
Qty 0 ig

Pump Installed
Submersible
Intake Setting (BTC)
55ft

Driller's Log

Well Log	From	End	Colour	Rock Type
28180	0ft	37ft	Brown	Clay and Shale
28180	37ft	43ft	Grey	Sandstone
28180	43ft	55ft	Brown	Clay and Shale
28180	55ft	100ft	Grey	Sandstone

Overall Well Depth
100ft

Bedrock Level
37ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
28180	38ft	7.5 igpm
28180	41ft	4 igpm
28180	85ft	70 igpm

Setbacks

Well Log	Distance	Setback From
28180	50ft	Right of any Public Way Road
28180	80ft	Right of any Public Way Road

New Nouveau Brunswick

Environment

Report Number **30109**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	07/31/2014

Casing Information

Casing above ground 0ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
30109	Steel	6 inch	0ft	72ft	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	8ft	15 igpm	1hr	8ft	15 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
Chlorine pellets
Qty 0 ig

Pump Installed
N/A
Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
30109	16ft	25ft	Grey	Sandstone
30109	49ft	53ft	Grey	Shale
30109	53ft	57ft	Grey	Sandstone
30109	57ft	59ft	Grey	Shale
30109	59ft	65ft	Brown	Shale
30109	65ft	120ft	Grey	Sandstone
30109	0ft	5ft	Grey	Sandstone
30109	5ft	16ft	Brown	Shale
30109	25ft	49ft	Brown	Clay and Shale

Overall Well Depth
120ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
30109	78ft	2.5 igpm
30109	82ft	11 igpm

Setbacks

There is no Setback information.

New Nouveau Brunswick

Environment

Report Number **31782**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	05/23/2012

Casing Information

Casing above ground 2ft 10in — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
31782	**Steel**	**6 inch**	**0ft**	**40ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	10ft	20 igpm	1hr 10min	60ft	6 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

Well Log	Grout Type	From	End
31782	**Other**	**35ft**	**40ft**

Drilling Fluids Used
None

Disinfectant
Bleach (Javex)

Qty 0 ig

Pump Installed
Submersible
Intake Setting (BTC)
75ft

Driller's Log

Well Log	From	End	Colour	Rock Type
31782	**0ft**	**10ft**	**Brown**	**Sand**
31782	**10ft**	**20ft**	**Red**	**Clay and Sand**
31782	**20ft**	**37ft**	**Brown**	**Clay and Sand**
31782	**37ft**	**71ft**	**Grey**	**Shale**
31782	**71ft**	**81ft**	**Brown**	**Sandstone**
31782	**81ft**	**90ft**	**Grey**	**Sandstone**

Overall Well Depth
90ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
31782	**60ft**	**15 igpm**
31782	**70ft**	**2 igpm**
31782	**79ft**	**4 igpm**
31782	**82ft**	**1 igpm**

Setbacks

Well Log	Distance	Setback From
31782	**66ft**	**Septic Tank**
31782	**80ft**	**Leach Field**
31782	**79ft**	**Center of road**

New Nouveau Brunswick

Environment

Report Number **90773100**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well (NEW WELL)	Rotary (ROTARY)	09/26/1996

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
90773100	**Steel**	**6 inch**	**0ft**	**45ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	100 igpm	1hr	10ft	100 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
N/A

Qty 0 ig

Pump Installed
N/A

Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
90773100	**0ft**	**6ft**	**Brown**	**Overburden**
90773100	**6ft**	**18ft**	**Brown**	**Soft Sandstone**
90773100	**18ft**	**41ft**	**Brown**	**Clay and Shale**
90773100	**41ft**	**62ft**	**Brown**	**Sandstone**
90773100	**62ft**	**85ft**	**Grey**	**Sandstone**

Overall Well Depth
85ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
90773100	**70ft**	**100 igpm**

Setbacks

There is no Setback information.

New Nouveau Brunswick

Environment

Report Number **91729800**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well (NEW WELL)	Rotary (ROTARY)	04/29/2000

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
91729800	**Steel**	**6 inch**	**0ft**	**92ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	25 igpm	1hr	10ft	25 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
N/A

Qty 0 ig

Pump Installed
Submersible

Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
91729800	**44ft**	**50ft**	**Light brown**	**Sandstone**
91729800	**50ft**	**65ft**	**Brown**	**Clay and Shale**
91729800	**65ft**	**67ft**	**Grey**	**Soapstone**
91729800	**67ft**	**69ft**	**Brown**	**Shale**
91729800	**69ft**	**74ft**	**Grey**	**Clay**
91729800	**74ft**	**76ft**	**Grey**	**Sandstone**
91729800	**76ft**	**88ft**	**Brown**	**Clay and Shale**
91729800	**88ft**	**120ft**	**Brown**	**Sandstone**
91729800	**0ft**	**5ft**	**EMPTY VALUE**	**Sand**
91729800	**5ft**	**8ft**	**Brown**	**Sandstone**
91729800	**8ft**	**18ft**	**Red**	**Shale**
91729800	**18ft**	**30ft**	**Red**	**Clay**
91729800	**30ft**	**44ft**	**Brown**	**Sandstone**

Overall Well Depth
120ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
91729800	**94ft**	**5 igpm**
91729800	**110ft**	**20 igpm**

Setbacks

There is no Setback information.

New Nouveau Brunswick

Environment

Report Number **92356500**

Well Driller's Report

Date printed 2016/05/11

Drilled by

Well Use	Work Type	Drill Method	Work Completed
Drinking Water, Domestic	New Well	Rotary	07/20/2001

Casing Information

Casing above ground 2ft — Drive Shoe Used? Yes

Well Log	Casing Type	Diameter	From	End	Slotted?
92356500	**Steel**	**6 inch**	**0ft**	**62ft**	

Aquifer Test/Yield

Method	Initial Water Level (BTC)	Pumping Rate	Duration	Final Water Level (BTC)	Estimated Safe Yield	Flowing Well?	Rate
Air	0ft	12 igpm	1hr	20ft	12 igpm	No	0 igpm

(BTC - Below top of casing)

Well Grouting

There is no Grout information.

Drilling Fluids Used
None

Disinfectant
N/A

Qty 0 ig

Pump Installed
N/A

Intake Setting (BTC)
0ft

Driller's Log

Well Log	From	End	Colour	Rock Type
92356500	**60ft**	**83ft**	**Brown**	**Sandstone**
92356500	**83ft**	**102ft**	**Grey**	**Sandstone**
92356500	**0ft**	**4ft**	**Unknown Rock Colour**	**Fill Sandstone**
92356500	**4ft**	**18ft**	**Brown**	**Clay**
92356500	**18ft**	**40ft**	**Red**	**Clay**
92356500	**40ft**	**52ft**	**Brown**	**Sandstone**
92356500	**52ft**	**60ft**	**Brown**	**Shale**

Overall Well Depth
102ft

Bedrock Level
0ft

Water Bearing Fracture Zone

Well Log	Depth	Rate
92356500	**62ft**	**5 igpm**
92356500	**75ft**	**7 igpm**

Setbacks

There is no Setback information.