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PEACE RIVER REGIONAL DISTRICT

BY-LAW NO. 835, 1993

A by-law to regulate sewage discharge

WHEREAS Section 788 of the *Municipal Act* authorizes the Regional District to establish and operate a system for the collection, conveyance, treatment and disposal of sewage; and

WHEREAS Section 18 of the *Waste Management Act* authorizes the Regional District to make by-laws respecting the discharge of wastes into any sewer or drain connected to a sewage facility operated by the Regional District; and

WHEREAS the Peace River Regional District has installed a sewage collection and treatment system to serve the Charlie Lake area of the Regional District;

NOW THEREFORE the Regional Board of the Peace River Regional District, in open meeting assembled, enacts as follows:

NAME

1. This by-law may be cited for all purposes as "Charlie Lake Sewage Regulation By-Law No. 835, 1993".

REPEAL

2. "Sewage Regulation and Fee By-law No. 782, 1992", is hereby repealed.

AREA

3. This by-law applies to that area shown shaded grey on the sketch attached to this by-law as Schedule "A".

DEFINITIONS

4. In this by-law,
 - (a) "BODY OF WATER" means a river, stream, brook, creek, water course, lake, pond, spring, lagoon, swamp, marsh, canal or other flowing or standing water.
 - (b) "BUILDING DRAIN" means the horizontal piping, including any vertical offset, that conducts sewage to a building sewer, and includes that part of the drainage system outside and within 1 metre of the wall of a building.
 - (c) "BUILDING INSPECTOR" means a person appointed by the Regional Board as building inspector for the Regional District or any other person appointed by the Regional Board to administer this by-law.
 - (d) "BUILDING SEWER" means septic tank, pumps, pipes, valves and fittings that are connected to a building drain outside a wall of a building and that lead to a public sewage works.

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- (e) "CONCENTRATED SEWAGE" means sewage having either a higher content of oil and grease, or a higher content of suspended solids, or a higher five day B.O.D., or any combination of these characteristics, as determined by tests using Standard Methods, than normal sewage.
- (f) "GALLON" means Imperial Gallon.
- (g) "GARBAGE" means solid wastes from the preparation, cooking and dispensing of food, and from the handling, storage and sale of produce.
- (h) "GREASE" means fats, waxes, oils and any other non-volatile material determined in accordance with Standard Methods.
- (i) "HEALTH OFFICER" means the Medical Officer of Health for the Peace River Regional District, or any person to whom that person may delegate a particular duty.
- (j) "INDUSTRIAL WASTE" means liquid wastes from an industrial, manufacturing, institutional or commercial establishment.
- (k) "INTERCEPTOR" means a receptacle that is installed to prevent oil, grease, sand or other materials from passing into a drainage system.
- (l) "NORMAL SEWAGE" means sewage having a five-day B.O.D. of 300 parts per million or less and having a suspended solids content of 100 parts per million or less.
- (m) "PERSON" means any individual, firm, company, association, society, corporation or group owning or occupying any building or place or having the management of any building or place to which this by-law applies and includes the owner.
- (n) "pH" means the logarithm (to the base 10) of the reciprocal of the hydrogen ion concentration in moles per litre and denotes alkalinity or acidity.
- (o) "PRIVATE SEWAGE WORKS" means a privately owned plant for the treatment and disposal of sewage and includes a septic tank with an absorption field or a holding tank.
- (p) "PROPERLY SHREDDED" in respect of garbage means shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers with no particles greater than one-half inch in any dimension.
- (q) "PUBLIC SEWAGE WORKS" means all public facilities for the collection, transmission, treatment and disposal of public sewage and includes a drain, sewer pipe or conduit used for the conveyance of sewage and includes a sewage treatment facility.
- (r) "REGIONAL BOARD" means the Board of the Peace River Regional District.

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- (s) "REGIONAL DISTRICT" means the Peace River Regional District.
- (t) "SANITARY SEWER" means a sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.
- (u) "SEPTIC TANK" See Schedule 'B'.
- (v) "SEWAGE" means a combination of the water-carried wastes from residences, commercial buildings, institutions and industrial establishments, and does not include surface and storm water runoff.
- (w) "SEWAGE TREATMENT FACILITY" means any arrangement of equipment and structures used for treating sewage, owned and operated by the Regional District.
- (x) "SEWER" means a pipe or conduit for carrying sewage.
- (y) "SEWERAGE WORKS" means all facilities for collecting, pumping, treating and disposing of sewage.
- (z) "STANDARD METHODS" means the analytical and examination procedures set forth in the current edition of "Standard Methods for the Examination of Water and Waste Water" published jointly by the American Public Health Association, the American Waterworks Association and the Water Pollution Control Federation.
- (aa) "STORM WATER" means water that is discharged from a surface as a result of rainfall or snowfall.
- (bb) "SUSPENDED SOLIDS" means solids that either float on the surface of, or are in suspension in water, sewage or other liquids and which are removable by laboratory filtering.
- (cc) "WATER COURSE" means a channel in which a flow of water occurs either continuously or intermittently.

USE OF PUBLIC SEWERS REQUIRED

- 5. (a) No person shall place or deposit, or permit to be deposited, upon public or private property within the area to which this by-law applies, in any manner that is insanitary, any human or animal excrement, garbage or other objectionable waste.
- (b) The owner of every house, building or property used for human occupancy, employment, recreation or other purpose, situated within the area shown on Schedule "A" and abutting on any roadway, street, lane or right-of-way in which there is now or hereafter located public sewage works of the Regional District, shall at his own expense, install a plumbing system therein and shall connect such system with the sewer in accordance with the provisions of the B.C. Plumbing

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Code and the Peace River Regional District Sewage Disposal By-Law No. 741, 1992 within sixty (60) days of the Building Inspector notifying him to do so.

- (c) Every property owner shall design and construct a sewage disposal system to service the sewage requirements of any use to meet or exceed the technical specifications attached to this by-law as Schedule 'B'.
- (d) The owner shall be responsible for the acquisition, installation, operation and maintenance of all sewage works located on his property, including the timely pumping out of the solids compartment of the septic tank.
- (e) No person shall, except as permitted by this by-law or the B.C. Plumbing Code or the Sewage Disposal Regulations of the *Health Act*, construct or maintain any privy, septic tank, cesspool or other facility intended or used for the disposal of sewage on the property in the area shown on Schedule "A".
- (f) Every property owner shall, at his own expense, maintain all the elements of the building sewer from his building to the property line.

Every house, building or property referred to in 5(b) above that was in existence as of January 1, 1992 shall arrange for, construct, install and be connected to the public sewer mainline on or before July 1, 1992, or if not connected, the Regional District may enter upon said lands to install and connect the necessary materials for connection to the mainline. All expenses related to the installation of materials under this Section shall be paid for by the property owner and if not paid by December 31, 1992, shall be added to the taxes of that property.

- (g) The Regional District, and no other, may repair, alter, connect to, install, construct or maintain the public sewer collection mainline on public property if it is crushed or broken or if there is a faulty installation, or if it is plugged, clogged or obstructed and shall be responsible for the costs, subject to Section 7(d) of this by-law.
- (h) In the event that any sewer connection is abandoned, the owner, at his expense, shall effectively block up the connection at a suitable location within his property or contact the Building Inspector who may shut off the curb stop in order to prevent sewage backing up into the soil and to prevent soil being washed into the sewer.

PRIVATE SEWAGE DISPOSAL

- 6. (a) Where a public sewer is not available, the owner of a building as described in Section 5(b) may connect the building sewer to a private sewage disposal system, which shall comply with the provisions of this by-law, the B.C. Plumbing Code and the Sewage Disposal Regulations of the *Health Act*.
- (b) At such time as a public sewer becomes available to a property served by a private sewage disposal system, the provisions of Section 5(b) shall apply to the property and a direct connection shall be made to the public sewer by the

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Regional District and any septic tanks, cesspools or similar private sewage works shall be abandoned and filled with suitable material upon direction by the Building Inspector.

- (c) Nothing contained in this by-law shall be construed to interfere with any additional requirements that may be imposed by the Building Inspector.

USE OF PUBLIC SEWERS

- 7. (a) No person shall discharge or cause to be discharged any storm water, surface water, roof run-off, sub-surface drainage, cooling water or unpolluted industrial water to any sanitary sewer, provided that the Building Inspector may on application authorize such discharge where exceptional conditions prevent compliance with the foregoing provisions.
- (b) Except as hereinafter provided, no person shall discharge or cause or permit to be discharged any of the following described waters or wastes to any public sewer:
 - (i) liquid or vapour having a temperature higher than 77° centigrade 170° Fahrenheit).
 - (ii) water or waste containing fat, oil or grease of such character or quantity that unusual attention or expense is required to handle such materials by the Regional District collection system or sewage treatment plants.
 - (iii) gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid solid or gas.
 - (iv) household garbage.
 - (v) ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood or other solid or viscous substance capable of causing obstruction to the flow of sewers or other interference with the proper operation of the sewage works.
 - (vi) waters or wastes having pH lower than 5.5 or above 12.0 or having any other corrosive property capable of causing damage or hazard to structures, equipment, biological sewage treatment processes, or personnel of the sewage works.
 - (vii) waters or wastes containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, or create any hazard in the receiving waters of the sewage treatment plant.
 - (viii) waters or waste containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment facility.

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- (ix) gas or substances capable of creating a public nuisance.
- (x) water or waste containing a radioactive substance.
- (c) Grease, oil and sand interceptors shall be required on private property for all restaurants, garages, gasoline service stations and vehicle and equipment washing establishments; interceptors shall be required for other types of businesses when in the opinion of the Building Inspector they are necessary for the proper handling of liquid waste containing grease in excessive amounts, or any flammable wastes, sand and other harmful substances, except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Building Inspector and shall be so located as to be readily and easily accessible for cleaning and inspection. Where installed, all grease, oil and sand interceptors shall be maintained by the property owner at the property owner's expense in continuously efficient operation at all times.
- (d) In case any blockage, either wholly or in part, of public sewage works is caused by reason of failure, omission or neglect to comply strictly with the foregoing provisions, the owner, proprietor or occupier concerned therein shall, in addition to any penalty for infraction of the provisions hereof, be liable to the Regional District for all costs of clearing such blockage and for any other amount for which the Regional District may be liable because of such blockage.
- (e) No person shall discharge or cause to be discharged into any sewer industrial waste in a greater volume than 5,000 gallons per month without obtaining an approval so to do from the Building Inspector in the manner provided in this by-law, but no such approval shall be given by the Building Inspector until:
 - (i) such person has made application in writing for permission to discharge industrial waste into the Regional District system, and
 - (ii) such applicant shall have provided to the Building Inspector the chemical and physical analysis, quantity and rate of discharge of sewage proposed to be so discharged, and any other information that is reasonably required, including all pertinent information relating to any proposed pre-treatment before discharge; and
 - (iii) the application has been formally approved in writing;and the applicant shall comply with subsections (a), (b) and (c) of this section irrespective of the volume of waste proposed to be discharged.
- (f) Where preliminary treatment of industrial waste is required to make it comply with the standards set out in this by-law, such facilities and equipment as are required shall be provided at the applicant's expense and shall be maintained continuously in satisfactory and effective operation by the applicant at the applicant's expense.

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- (g) Effluent discharges to the sewage collection system are to be metered to determine user fees as set out in the Charlie Lake Sewage User Fee By-Law.
- (h) All measurements, tests and analyses of the characteristics of industrial waste, sewage or water to which reference is made in this by-law shall be determined in accordance with Standard Methods, and shall be determined at the control manhole provided for in Schedule 'B' of this by-law, or from suitable samples taken within the industrial premises.
- (i) If in the Building Inspector's opinion there is evidence that oversized solids are entering the Regional District sewer system from any sewer connection then the Regional District may require, at the property owner's expense, the installation of a bar screen between the septic tank and the Regional District sewer system. The bar screen shall have minimum three-quarter inch openings and shall be removable, but locked in place with the key in the possession of the Building Inspector. It shall be the responsibility of the person discharging waste through that connection to remove any solids collected on the screen and dispose of these solids in an approved manner. The Regional District shall not be responsible in any way for any disruption of service which may occur due to blockage of the screen by solids.

POWER AND AUTHORITY OF INSPECTORS

- 8. The Building Inspector and other duly authorized employees of the Regional District bearing proper credentials and identification, shall be permitted to enter upon all properties for the purpose of inspection, observation, measurement, sampling and testing in accordance with the provisions of this by-law. If such inspection discloses any failure, omission or neglect to clean out septic tanks or pumps, or discloses any defect in the location, construction, design or maintenance of any of the sewer system, the person making such inspection shall in writing notify the owner, proprietor or occupier to rectify, at such person's expense, the failure, omission, neglect or defect. In the event of continued non-compliance, the sewage disposal permit may be cancelled and the connection to the Regional District sewer system may be shut off until such time as proper maintenance or alterations have been made.

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PENALTIES

- 9. (a) (i) If the owner or occupier of any building, which building under the provisions of this by-law is required to be connected with the public sewer, shall neglect or refuse to make or repair such required connection in accordance with the provisions of this by-law for a period of sixty (60) days after notice in writing, which has been given to him personally or by registered mail, by the Building Inspector, or to prosecute the work without delay, or to the satisfaction of the Regional District then and in that case the Regional District may, at the expense of the person who is in default, make or repair the said connections and the Regional District may recover the expenses thereof in like manner as taxes.

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- (ii) The person giving such notice shall post a copy of the notice on the front door or some other conspicuous part of the building referred to in the notice. No person shall tear down or deface any notice so posted.
- (b) No person shall continue in violation of any provisions of this by-law for more than sixty (60) days after receiving written notice from the Regional District of such violation. Such notice shall be sufficiently served if forwarded by registered mail to the owner.
- (c) A person who is convicted of an offence under this by-law shall be liable, on summary conviction, to a fine not exceeding Two Thousand Dollars (\$2,000.00) and the costs of prosecution for each day of the continuance of the offence.

GENERAL

- 10. (a) In case of any dispute as to the proper charges to which any property is subject by reason of the provisions herein contained, the matter shall be referred to the Regional District Building Inspector and where the dispute is not then settled to the satisfaction of a property owner such owner may refer the matter to the Charlie Lake Local Community Commission, and if still not satisfactory, refer to the Regional Board.
- (b) If any section, subsection, sentence, clause or phrase in this by-law is for any reason held to be invalid by a decision of any court of competent jurisdiction, the decision shall not affect the validity of the remaining portions of the by-law.

READ A FIRST TIME this 28th day of January, 1993.

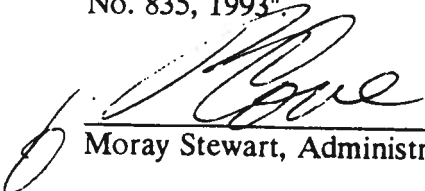
READ A SECOND TIME this 28th day of January, 1993.

READ A THIRD TIME this 26th day of August, 1993.

RECONSIDERED, FINALLY PASSED AND ADOPTED this 26th day of August, 1993.

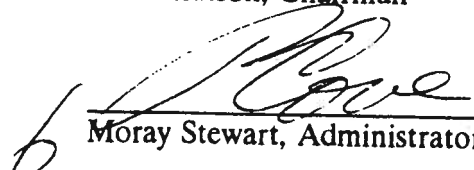
CERTIFIED a true and correct copy of
"Charlie Lake Sewage Regulation By-Law
No. 835, 1993"

THE CORPORATE SEAL of the Peace
River Regional District was hereto affixed
in the presence of:


Moray Stewart, Administrator

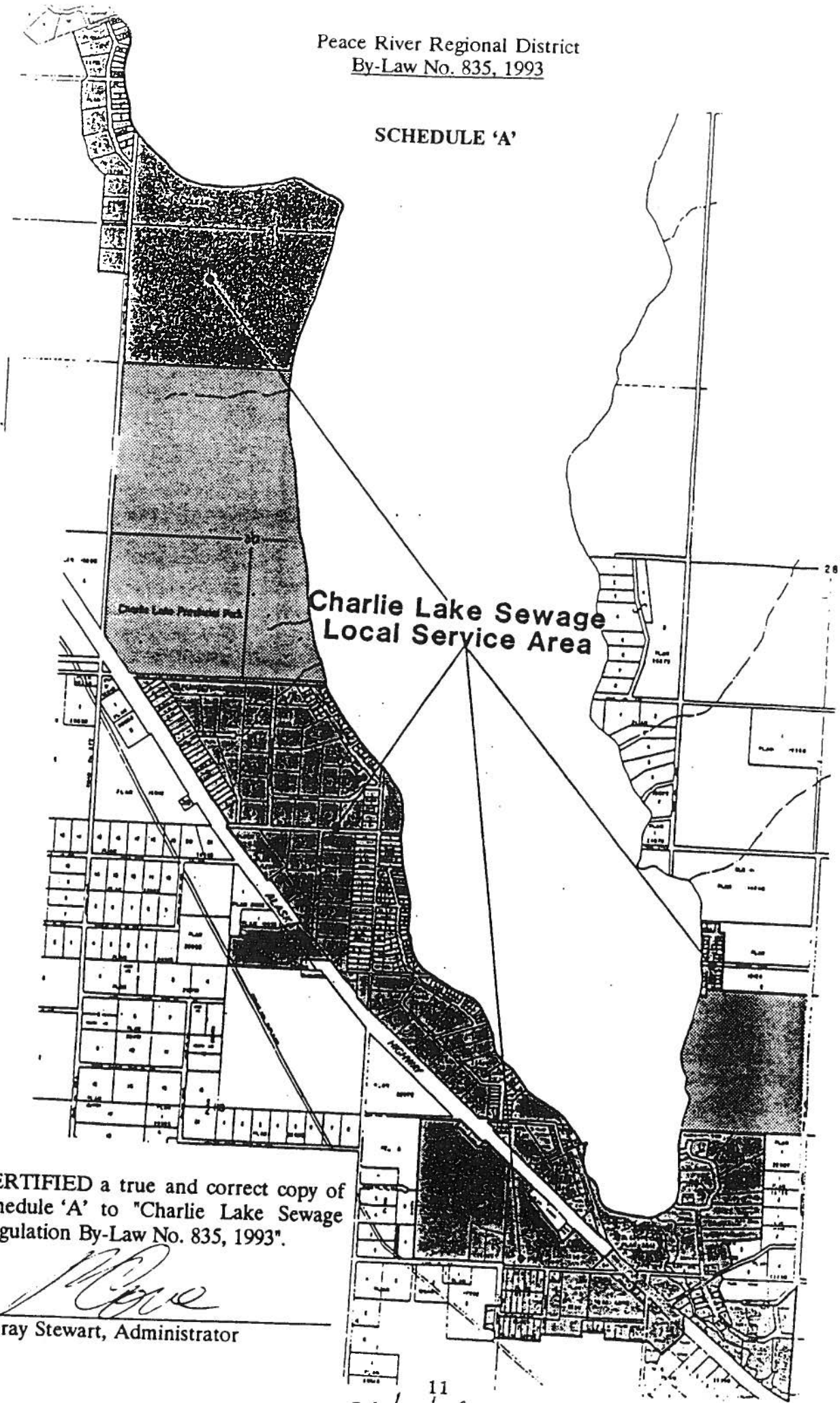

Ben Knutson, Chairman

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Moray Stewart, Administrator

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SCHEDULE 'A'



Charlie Lake Sewage
Local Service Area

CERTIFIED a true and correct copy of
Schedule 'A' to "Charlie Lake Sewage
Regulation By-Law No. 835, 1993".

Moray Stewart
Moray Stewart, Administrator

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SCHEDULE 'B'

TECHNICAL SPECIFICATIONS FOR ON-SITE WORKS

1. Septic tanks for use on private property for connection to the Public Sewer shall:
 - (a) be CSA approvable;
 - (b) have a minimum of 4,546 litres (1,000 gallons) liquid capacity;
 - (c) be water tight;
 - (d) be constructed of sulphate resistant concrete;
 - (e) have two compartments with the first compartment being a minimum of 2,730 litre (600 gallon) liquid capacity. Two or more septic tanks may be installed and used in series provided they meet or exceed the requirements of this Schedule;
 - (f) be designed, constructed and installed to withstand the imposed loading to which it will be subjected from its depth of bury, in accordance with good engineering practice;
 - (g) provide access for each compartment with each access having minimum internal opening dimension of 50 cm (20 inches) and they shall be constructed of concrete and be provided with concrete covers, including handles;
 - (h) be located to provide a minimum fall of .4 cm (1/8 inch) per 30 cm (1 ft.) in the building drain and building sewer to the septic tank;
 - (i) be located not less than
 - (i) 15 m (50 ft.) from a source of domestic water;
 - (ii) 1 m (3 ft.) from a parcel boundary;
 - (iii) 1 m (3 ft.) from a building; and
 - (iv) 3 m (10 ft.) from a domestic water pipeline;
 - (j) in addition to the above requirements, meet or exceed the specifications and layout of piping, valves and connections as noted in the diagram below:
 - 1 Effluent Pump
 - 2 Reducer/Increaser to 32 mm dia.
 - 3 32 mm Union (three required)
 - 4 32 mm Check Valve (two required)
 - 5 32 mm Anti-siphon Valve (when required)
 - 6 32 mm Isolation Valve (Ball type)
 - 7 32 mm x 38 mm Reducer
 - 8 38 mm Threaded to Solvent Weld Adaptor
 - 9 38 mm - 90° Threaded Elbow
 - 10 38 mm Brass Pack Joint (Compression) Coupler to PE pipe with Male I.P. Threads complete with stainless steel stiffener

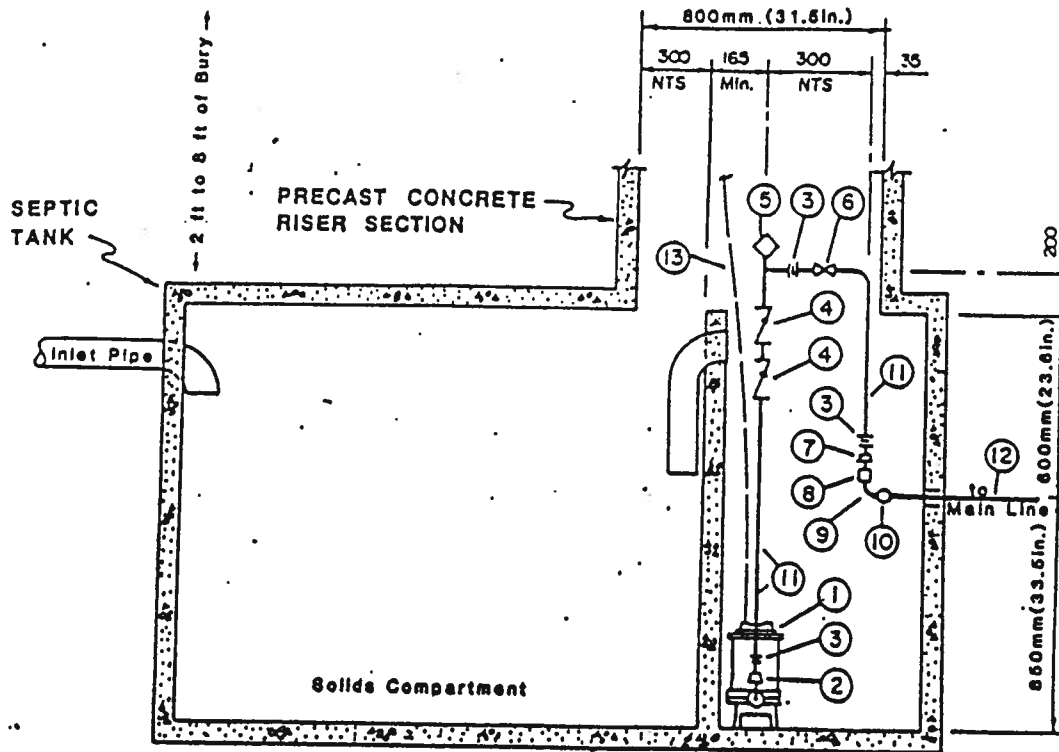
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SCHEDULE 'B'
TECHNICAL SPECIFICATIONS FOR ON-SITE WORKS (continued)

- 11 32 mm PVC Pipe - 160 p.s.i., municipal tubing
- 12 38 mm PVC Pipe - Schedule 80, municipal tubing
- 13 9 mm Nylon Rope connected to Pump, attach to hook installed in access



2. The effluent pump, to be supplied by the property owner for installation in the septic tank as shown in the diagram above, shall meet the standards and specifications of the "Hydromatic" submersible effluent pumps (SPD50H and SKHD 150) installed during the original installation of the sanitary sewage collection system. The effluent pump shall not have less than 1/2 horsepower or more than 1 1/2 horsepower and they must be approved by the building inspector of the Regional District.

CERTIFIED a true and correct copy of
 Schedule 'B' to "Charlie Lake Sewage
 Regulation By-Law No. 835, 1993".

Moray Stewart
 Moray Stewart, Administrator