



BUILDING INSPECTIONS

Class 4 On-Site Sanitary Sewage System with Shallow Buried Trenches (1997 OBC, revised to O.Reg. 122/99, 278/99)

| | |
|---|---|
| CLASSIFICATION DATA - Complete and circle, as applicable | |
| Treatment Unit Manufacturer: | Permit no.: |
| Pressurized System: Yes No | Gravity System: Yes No, if yes provide ruling # |
| Note: Distribution piping systems installed under a BMEC or CCMC ruling must conform to the applicable ruling | |
| Name of Installer (supervisor): | License No. |

| No | INSPECTION CHECKLIST | | REFERENCE | V | L | R |
|-----------|--|----|---|--|--|-------------|
| 1. | SITE EVALUATION | a | Test cut/pit visited by inspector (optional) | 8.2.1.2. | | |
| | | b | Percolation tests witnessed by inspector (optional) | 8.2.1.2.(3) | | |
| | | c | Confirm items on site evaluation on permit documents (clearances etc.) | B.C.A.8(13) | | |
| | | d | | | | |
| 2. | VERTICAL ELEVATIONS | a | Benchmark elevation established on permanent structure: | B.C.A. 8(13) | | |
| | | b | Elevation bottom of absorption trench: | B.C.A. 8(13) | | |
| | | c | Elevation top of finished surface: (approx. 300 mm to 600 mm) | B.C.A. 8(13) | | |
| | | d | | | | |
| | | e | | | | |
| 3. | BASE CUT OF TRENCH (leaching bed) | a | Base and sides of trenches have not been smeared | 8.7.2.1.(5) | | |
| | | b | Base and sides of trenches have been scarified | 8.7.2.1.(5) | | |
| | | c | Trench bottom is level | B.C.A.8(13) | | |
| | | d | | | | |
| 4. | CLEARANCES | a | Minimum clearances for treatment units as per permit documents | 8.2.1.6.(1) | | |
| | | b | Minimum clearances for distribution piping as per permit documents | 8.2.1.4. | | |
| | | c | Clearances for distribution piping doubled for raised and filter bed applications | 8.7.4.2.(9) | | |
| | | d | No overlap of any part of two systems on one property | 8.2.1.4.(4) | | |
| | | e | | | | |
| 5. | LEACHING BEDS - GENERAL REQUIREMENTS | a | Located in an area that has an average slope of 1:4 or less | 8.7.2.1.(1)(a) | | |
| | | b | Soil has a percolation time of greater than one minute and less than 125 minutes. [refer to item 5 (c)] Obtain laboratory soil test results | 8.7.2.1.(1)(b) | | |
| | | c | Obtain laboratory test results to determine native soil or leaching bed fill percolation time result and confirm with permit design (a T time of < 50 or > 50 can effect the length of distribution pipe) | 8.7.2.1.(1)(b) 8.7.4.1.(1) B.C.A.18(1) | | |
| | | d | Heavy equipment (trucks or rubber tired equipment) not on backfilled trench | 8.7.2.1.(5) | | |
| | | e | Surface of leaching bed/trench shaped to shed water | 8.7.2.1.(3) | | |
| | | f | | | | |
| 6. | ABSORPTION TRENCH CONSTRUCTION | a | Conforms to a BMEC ruling (gravity systems) or items (b) to (h) | B.C.A.8(13) | | |
| | | b | Approximately same length and not more than 30m in length | 8.7.3.2.(2)(a) | | |
| | | c | Size and layout of leaching bed as per the permit documents | B.C.A.8(13) | | |
| | | d | At least 300 mm and not more than 600 mm in width | 8.7.3.2.(2)(b) | | |
| | | e | 300mm to 600 mm in depth (refer to 2(b)(c) to confirm elevations) | 8.7.3.2.(2)(c) | | |
| | | f | Centered at least 1600 mm apart | 8.7.3.2.(2)(d) | | |
| | | g | Bottom of trench at least 900 mm above high water table or rock (refer building permit documents to confirm elevations) | 8.7.3.2.(2)(e) | | |
| | | h | Backfilling of trench conforms to the method described by the distribution pipe manufacturer | 8.7.3.2.(2)(f) | | |
| | | j | | | | |
| | | 7. | DISTRIBUTION PIPE and CHAMBERS | a | Conforms to a BMEC ruling (gravity system) or items (b) to (j) | B.C.A.8(13) |
| b | Length and layout of distribution pipe as per the permit documents | | | B.C.A. 8(13) | | |
| c | Headers and distribution boxes installed at a level elevation | | | 2.2.1.1. | | |
| d | 1 inch trade size for pressurized systems | | | 8.7.3.3.(1)(a) | | |
| e | Pressurized distribution pipe is self-draining | | | 8.7.3.3.(3) | | |
| f | Pressurized distribution pipe has orifices of at least 3 mm in diameter, spaced equally along the length of the pipe | | | 8.7.3.3.(4) | | |
| g | Installed on a layer of filter sand as permit documents | | | B.C.A. 8(13) | | |
| h | Chamber is as wide as the shallow buried trench in which it is contained (minimum 300 mm) | | | 8.7.6.2.(4) | | |
| I | Cross-sectional height of the chamber at its centre point (height) shall be not less than half the width of the trench (min. 150 mm) | | | 8.7.6.2.(4) | | |
| j | Chamber inspection ports installed in accordance with permit docs | | | B.C.A.8(13) | | |
| k | Each chamber contains only one pressurized distribution pipe | | | 8.7.6.2.(5) | | |
| l | | | | | | |
| 10. | SEPTIC TANKS AND TANKS | | | a | Conforms to CAN3-B66 standards and is labelled | 8.2.2.2.(1) |
| | | b | Septic tank is level and bears on undisturbed soil or compacted fill | 2.2.1.1. | | |
| | | c | Manufacturer's instructions followed for fiberglass or plastic install. | 2.2.1.1. | | |
| | | d | Tank inlet and outlet is open-topped 'T' fitting or a baffle | 2.2.1.1. | | |
| No | INSPECTION CHECKLIST | | REFERENCE | V | L | R |

| | | | | | | | |
|--|------------------------------------|------|--|---|------|-----------|--|
| 10. | SEPTIC TANKS AND TANKS | e | Inlet and outlet pipe extends 1/4" past inside face of septic tank | 2.2.1.1. | | | |
| | | f | Access openings to facilitate the pumping of compartments | 8.2.2.2.(4) | | | |
| | | g | Covering of tank as per the manufacturer's specifications | 8.2.2.2.(5) | | | |
| | | e | Tank anchored as per the permit documents | 8.2.2.2.(6) | | | |
| | | f | Effluent filter sized and installed in accordance with man. rec. | 8.6.2.1.(2) | | | |
| | | g | 2% slope on outlet pipe between tanks installed in series | 8.2.2.3.(4)(c) | | | |
| | | h | When installed, an effluent filter installed to manufacturer's installation instructions | 8.6.2.1.(1)(2) | | | |
| | | g | | | | | |
| 11. | TREATMENT UNITS | a | Type of treatment unit installed complies with the permit documents | B.C.A.8(13) | | | |
| | | b | Treatment unit installation conforms to the manufacture's installation instructions and the permit documents | B.C.A.8(13) | | | |
| | | b | Audible and visible warning alarm installed to warn occupants when mechanical part in a treatment unit fails | 8.6.2.2.(3) | | | |
| | | c | Printed literature for operation of treatment unit left with occupant | 8.6.2.2.(6) | | | |
| | | d | Treatment unit permit the sampling of the effluent, access tile chambers installed to above grade to permit access | 8.6.2.2.(4) | | | |
| | | e | | | | | |
| 12. | PUMP AND PUMP CHAMBER | a | Pump and chamber installed in accordance with permit documents | B.C.A.8(13) | | | |
| | | b | Size of pump in accordance with the permit documents | B.C.A.8(13) | | | |
| | | c | When pipe length exceeds 150 m pump installed and operating to dose the leaching bed with 75 % of the storage volume of the pipes | 8.6.1.3.(1) & (4) | | | |
| | | d | Float is operating and regulates the pump for consistent level of sewage in the chamber | 2.2.1.1. | | | |
| | | e | Alarm installed to alert occupants when pump fails | 8.6.2.2. | | | |
| | | f | | | | | |
| 13. | FINAL BACKFILLING AND GRADING | a | Backfilling material is porous. Report is required for suspect soils. | B.C.A.18 | | | |
| | | b | Distribution pipe backfilled so as to ensure that after the leaching bed fill settles, the surface of the leaching bed will not form any depressions | 8.7.3.2.(2)(f) | | | |
| | | c | Tank covered with soil as per the manufacturer's specifications | 8.2.2.2.(5) | | | |
| | | d | Leaching bed fill stabilized against erosion (sloped, grass, etc.) | 8.7.4.2.(1)(4) | | | |
| | | e | Sides of the added leaching bed fill and mantle not steeper than 1:4 | 8.7.4.2.(8) | | | |
| | | f | Sewage system is protected against damage from vehicles, etc. | 2.2.1.1. | | | |
| | | g | | | | | |
| 14. | OPERATION, MAINTENANCE AND TESTING | a | Pressurized distribution system has a pressure head of not less than 600 mm when measured to the most distant point from pump | 8.7.6.2.(2) | | | |
| | | b | Receive draw down test reports to determine the pumping rates for pumps and to set discharge flows on control panels | B.C.A.18(1) | | | |
| | | c | Receive a report to determine whether the effluent complies with the levels contained in Column 3 of Table 8.6.2.2.A. for BOD ₅ and suspended solids | B.C.A.18(1) 8.9.2.4.(1)(2) | | | |
| | | d | Issued Order to Comply no. _____ to notify the present property owner and any future property owners of their obligation to; i) have the effluent and operation of the distribution piping tested at various times throughout the life of the on-site sewage system ii) enter into an agreement whereby servicing and maintenance of the treatment unit is carried out by person authorized by the manufacturer the type of unit installed | B.C.A.12(1) 8.9.2.3. 8.9.2.4. 8.9.3.5. | | | |
| | | e | | | | | |
| 15. | MISCELLANEOUS | a | Laundry waste does not exceed more than 20% of total s.s. flow | 8.1.3.1.(2) | | | |
| | | b | Kitchen waste water from restaurant through grease interceptor | 8.1.3.1.(4) | | | |
| | | c | Water softener and iron discharge as per the permit documents | B.C.A.8(13) | | | |
| | | d | Storm sewage does not discharge into the sewage system | 8.1.3.1.(6) | | | |
| | | e | | | | | |
| COMMENTS | | | | V | Date | Inspector | |
| | | | | A | | | |
| | | | | B | | | |
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| | | | | E | | | |
| | | | | F | | | |
| | | | | G | | | |
| COMPLIANCE | | | | | | | |
| BUILDING INSPECTOR | | DATE | | CO-SIGNER | | DATE | |
| LEGEND | | | | | | | |
| V - Visit/inspection R - revisit/reinspection L- Legal status X - Not applicable ✓ - In compliance N - Not Visible ○ - Not in compliance | | | | | | | |