

Goode & Associates

Septic System Design

Main Street Professional Building
57 West Main Street Suite 165
Chehalis, WA 98532
(360) 748-3148
Fax (360) 748-7717

SOIL AND SITE EVALUATION FORM

Property Address: 148 Ballpark Drive, Kelso

Parcel Number: WE0603029

Legal: 6-8-1W

Applicant's Name: Raymond and Elaine Burk
6703 NE 329th St.
La Center, WA 98629
360-263-5977

Date of Evaluation: 8-24-04

SOIL INFORMATION:

As mapped by NRCS: Olympic Series Silt Loam

As identified by field evaluation: observed soils consistent with mapped description

The Olympic Series is defined as a well-drained soil that formed in volcanic rock material on uplands. In a representative profile, the surface layer is dark-brown silt loam about 10 inches thick. The subsoil is dark reddish-brown and dark-brown heavy silt loam to heavy silty clay loam that extends to a depth of 48 inches. The substratum is multicolored decomposing basalt.

SOIL PROFILE:

	Depth	Description	Comments
Test Hole #1	0-12"	dk. brown silt loam	disturbed
	12-41"	lt. brown silt loam	
	41-59"	silt loam/ mottled parent material	restrictive
	59-67"	parent material	
	67"	standing water	
Test Hole #2	0-13"	dk. brown silt loam	disturbed
	13-41"	lt. brown silt loam	
	41-64"	mottled silty clay loam	restrictive

MAXIMUM SEASONAL GROUNDWATER ELEVATION:

Soil mottling: 41 inches

WAC Soil Classification: 5

Hydraulic loading rate: 0.45 gallons per square foot per day

Water Table: observed at six feet, holes were dug during August and were evaluated after 3 days of nearly continuous rain

SITE CHARACTERISTICS:

Topography: General topographic characteristics: lot appears to slope from west to the east, approximate 3-5% slopes

Drainage Characteristics: well-drained

Slopes: General: 0-3%; Proposed Drainfield Location: 0-3%

Geology: decaying basalt

Vegetation: site has been logged, observed grass and stumps

Distance to, and type of, nearest surface water: n/a

Distance to nearby wells: +100 feet

Distance to public sewers: not available

Other structures on property: none

Designer statement regarding type of system required:

Based on the soil evaluations in the area tested, the proposed drainfield site should support a pressure distribution on-site wastewater treatment system. The type and location of the system will be determined at the time designs are prepared in order to design for the needs of the system user. A system for a three bedroom residence in this soil type will require a minimum of 800 square feet of drainfield, or approximately 90 linear feet of 3 foot wide trench per bedroom. This system will require approximately 1800 square feet of area for the initial drainfield. The reserve area will require a separate area of 1800 square feet. WAC 246-272 presently requires a minimum vertical separation of 12 inches. With available treatment technologies, this infers that a site must have a minimum of 12 inches of soil to be considered suitable for the installation of an on-site wastewater treatment system. The site showed the presence of suitable soils to a depth of 41 inches. Using pressure distribution, this would allow for a trench depth of 17 inches.



Submitted by: Jean R. Yackley Date: 8-25-04

SUBSURFACE SEWAGE APPLICATION FOR

#EC-204-95

Property Location: 148 BALL PARK DRIVE

9/13/95 KELSO, WA 98626

Lot No. 2

JACPS Section 6 - Township 8N - Range 1W Tax Lot 3, 13 Parcel WE0603001 Acres 2.5
OF 7.3

FIELD INFORMATION

General Topography 5-10% RESIDUAL UPLANDS.

Relationship to Existing Domestic Water Sources WELL (PROPOSED)

Hydrology: Depth to Ground Water Table (representative) > 60"

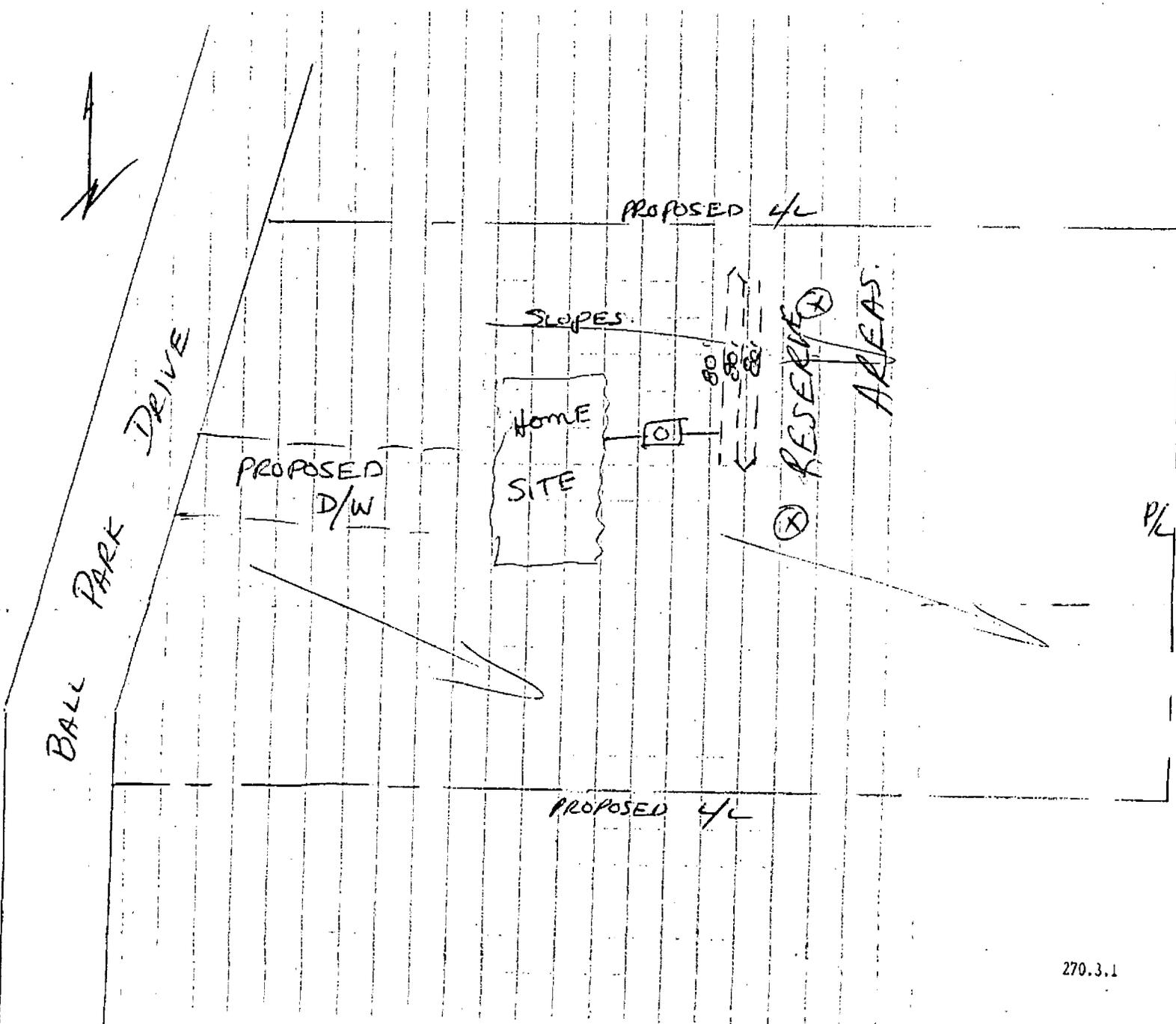
Relationship to Surface Waters N/A

Soil Profile 0-58" DE-BRN-RED-BRN SIL/SCL MMSAB/MCSAB
NO MOTTLES.

* ADJUST AS NEEDED W/ 100 FT. SETBACK FROM ALL WELLS,
10 FT. FROM TREES.

Miscellaneous Information 80' BEDROOM X 3 = 240 FT. = 720 FT.²
SERIAL SYSTEM.

PLOT PLAN



WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 40743

UNIQUE WELL I.D. # _____

Water Right Permit No. _____

(1) OWNER: Name Ray Burke Address 6703 NE 329th St, La Center WA 98629

(2) LOCATION OF WELL: County Colville 1/4 _____ 1/4 Sec 6 T. 8 N. R. 1 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) Lot #10 142 Mill Park Drive, La Center, WA 98629

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
 Abandoned New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jettied

(5) DIMENSIONS: Diameter of well 6" inches.
 Drilled 135 feet. Depth of completed well 135 feet.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 11 ft. to 32 ft.
 Welded 6 1/2" Diam. from 5 ft. to 135 ft.
 Liner installed Threaded

Perforations: Yes No
 Type of perforator used SAW CUT
 SIZE of perforations 30 in. by 12 in.
30 perforations from 145 ft. to 170 ft.

Screens: Yes No
 Manufacturer's Name _____
 Type _____ Model No. _____
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
 Material used in seal: Red clay
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
 Type: _____ H.P. _____

(8) WATER LEVELS: Land surface elevation _____ ft.
 Static level: 87 ft. below top of well Date 9-16-96
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? _____
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

 Date of test _____
 Bailor test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Airtest 7 gal./min. with stem set at 135 ft. for _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
TOP SOIL	0	3
Hard brown clay	3	27
Grey sand	27	36
Hard blue clay	36	118
Red rock	118	136
Blue rock	136	145

Work Started 9-11 19. Completed 9-12 1996

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Don Phelan Well Drilling
 (PERSON, FIRM OR CORPORATION) (TYPE OR PRINT)
 Address PO Box 116 La Center WA 98629
 (Signed) Don Phelan License No. 1138
 (WELL DRILLER)

Contractor's Registration No. 20112 Date 9-16 1996

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.