



Application for Subdivision/Land Development Review

In Valley, Elmore, Boise and Ada Counties contact Central District Health for fee information. 208 327-7499 cdh.idaho.gov

Public Health Prevent. Promote. Protect.

Idaho Public Health Districts

Developer/Applicant Name: Leigh Ward Jan Ward

Phone #: 208-860-9666 Cell Phone #: Same

Mailing Address: PO Box 126 Garden Valley ID 83622

E-mail address: leighward208@gmail.com

Name of Subdivision: Oar Car Meadows

City: Garden Valley County: Boise

Location of Subdivision: Severance Road

Legal Description: 1/4 of the 1/4 of Section Township 9N Range 4E

Parent Parcel Number of Site RP 09NR4E 270662

Property Owner (if different):

Phone #: Cell Phone #:

Mailing Address: Street/P.O. Box City State Zip

E-mail address:

Engineer Firm: HMM Engineering 208-342-7957

Mailing Address: 680 Progress Ave, Suite #2B Meridian ID 83642

E-mail address: rhodge@hmm-llc.com License #: 8575

Surveyor: Ron Hodge 208-342-7957 Ext 1006 8575

Land

Acres 30 Total # Lots 3 Buildable 3 Non-buildable 0

Minimum Lot Size in Acres 5 Average Lot Size in Acres 10

Water

Type of Water: Private Water Shared Well (Non-Public) Public Water System
Water Supply: Surface Water Ground Water

If Public Water System, services provided by: _____

Sewer

Type of sewage disposal system: Individual Septic Municipal Sewer
 Central Septic &/or LSAS Septic (>2 dwellings or 2500gpd)

If municipal sewer, services provided by: _____

Type of Plat: Residential Commercial Industrial
Location: City County Impact Zone

Directions: _____

Stormwater (Check only what applies)

Type of Disposal: Shallow Injection Wells (drywells) Grassy Swale Service for: N/A
 Street Street and Lots Other N/A

Are the shallow injection wells in the Highway District (HD) right-of-way Yes No
(Ada County HD, Boise County Road & Bridge Dept, Mountain Home HD, Valley County Road & Bridge Dept)

- If the well is in a Highway District right-of-way the application is submitted to IDWR (fees are not collected for Highway District right-of-way SIW's)
- If the well is in the City of Boise (not ACHD right-of-way) the application and fee is submitted to the City of Boise
- If the well is NOT in Highway District right-of-way or City of Boise the application and fee is submitted to CDH

Chemical/Hazardous Materials
(Commercial or Industrial Subdivisions Only)

Are chemicals or petroleum products likely to be stored/handled/used at these sites? Yes No N/A
If yes, please explain: _____

Applicant Signature: Leigh Ward Date: 12/6/24

This Section for Official Use only

If on-site sewage disposal systems used; date predevelopment meeting held with District (if required):
Date of Meeting: _____

Application Date _____	Fee \$ _____
Subdivision # _____	Receipt # _____

Sanitary Restrictions: In-Force Satisfied See Attached Letter

Signature: _____ EHS #: _____ Date: _____

Speculative Site Evaluation



Public Health
Prevent. Promote. Protect.

Idaho Public Health Districts

Central District Health
707 N Armstrong Pl
Boise, ID 83704
(208) 375-5211

File # 166576



Owner's Name: Leigh Ward
Property Address: Severance Road
Garden Valley, ID 83622

Phone # 208-462-3225

Legal Description:	1/4	1/4	Section: 27	Township: 09N	Range: 04E
Subdivision:	0 No Subdivision		Lot:	Block:	Size(acres) 30.00

Test holes and/or site evaluation was completed on 5/15/22

- The site evaluations indicated that the soils and features of concern are suitable for construction of a subsurface sewage disposal system sized for up to 5 bedroom single family dwelling with the following conditions:
- An alternative design system is required.
- Maximum depth of the drain field is As per local soil manual
or OSCAR II
-

The following information is needed to continue processing your application for site approval:

- Additional soils testing is needed
- Ground water monitoring is required by the applicant from _____ to _____ on a weekly basis.

Application DENIED: _____

This assessment is NOT a subsurface sewage disposal installation permit.

The following information is needed to continue processing your application prior to issuance of a septic permit:

- Additional fees and a subsurface sewage disposal application
- Floor/building plans
- Complete and accurate plot plan
- Planning and Zoning approval
- Building Department approval / Sewer availability approval

If the drainfield area proposed is greater than 50' from the original speculative site evaluation test hole, then additional test holes may be required.

This document is based upon the current laws and regulations which are subject to change.

It is unlawful to occupy a dwelling without an approved septic system as per Idaho's Individual/Subsurface Sewage Disposal rules (IDAPA 58.01.03).

[Signature]
Senior Environmental Health Specialist

DATE 5/15/22



Test Hole Sheet



Public Health
Prevent. Promote. Protect.

Idaho Public Health Districts

Central District Health
707 N. Armstrong Place
Boise, ID 83704
(208) 327-7499

File # 166576



Owner's Name: Leigh Ward
Property Address: Severance Road
Garden Valley, ID 83622

Phone # 208-462-3225

Legal Description	1/4	1/4	Section: 27	Township: 09N	Range: 04E
Subdivision:	0 No Subdivision		Lot:	Block:	Size(acres) 30.00

TEST HOLE SOIL DESCRIPTION:

	5	6	7	8	9	10	11
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Test Hole Soil Description:

Recommendations

	1	2	3	4
1	Sandy clay loam B-2			
2		34"		
3	Sandy loam B-1			
4		48"		
5	loamy sand B-1			
6		78"		
7	Sandy clay	stick		
8	Sandy clay	stick	3:15 S. J. + gravel	15% ring
9		2022 Drought Year -		monitor
10	440 S. 513 1120 S. 810	will require sand		

Monitor GW

Non-Residential Properties:
 Letter of Intended Use Submitted Yes N/A
 Wastewater Nature Established Yes N/A
 Wastewater Flow Calculations Yes N/A

Rock Out Crops: Yes No
 Slopes/Scarps: Yes No
 Nearest Well Distance: NA

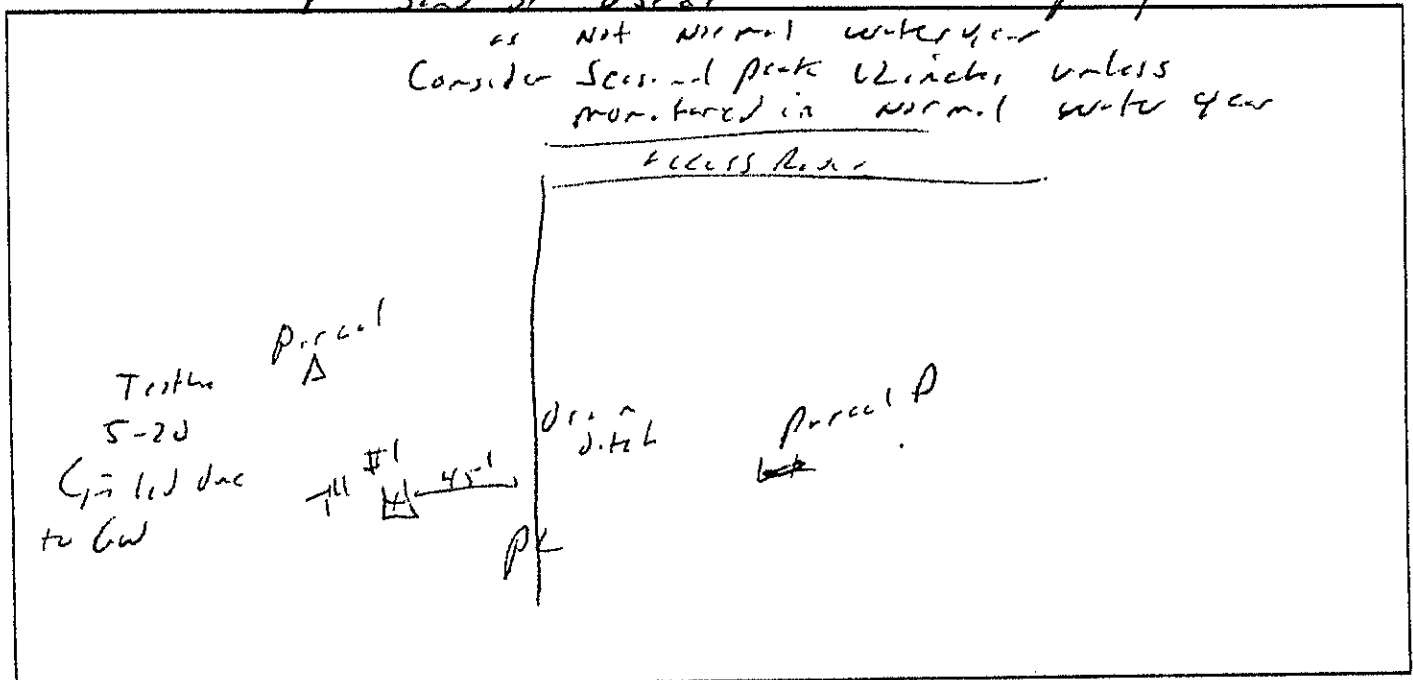
Surface Water: Yes No
 Permanent: Temporary:
 Distance: 45 ft

Depth of Rock or Limiting Layer: NA

Depth of Ground Water:	Normal 46"	Seasonal 33"
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Maximum Depth of Drainfield: 0'6"

Soil Type: B-1 Tank Size: 1250
 Date: 12-3-21 Inspected by: Jerry J.



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

RECEIVED

OCT 10 2024

WATER RESOURCES
WESTERN REGION

1. WELL TAG NO. D 102268
 Drilling Permit No. 916255
 Water right or injection well # _____

2. OWNER:
 Name Largh Ward
 Address 69 S. Spruce
 City Carleton Place State ID Zip 93222

3. WELL LOCATION:
 Twp. 9 North or South Rge. 4 East or West
 Sec. 27 1/4 SW 1/4 NE 1/4
 Gov't Lot _____ County Boise
 Lat. 44 05 41 (Deg. and Decimal) minutes
 Long. 115 57 86 (Deg. and Decimal) minutes
 Address of Well Site same City _____

4. USE:
 Domestic Municipal Monitor Irrigation Thermal Injection
 Other _____

5. TYPE OF WORK:
 New well Replacement well Modify existing well
 Abandonment Other _____

6. DRILL METHOD:
 Air Rotary Mud Rotary Cable Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
<u>3/4 chip</u>	<u>0</u>	<u>39</u>	<u>100</u>	<u>Dry pour</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>6"</u>	<u>12</u>	<u>39</u>	<u>40</u>	<u>steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>4"</u>	<u>9</u>	<u>349</u>	<u>40</u>	<u>pvc</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Was drive shoe used? Y N Shoe Depth(s) 399

9. PERFORATIONS/SCREENS:
 Perforations Y N Method _____
 Manufactured screen Y N Type pvc
 Method of installation slot

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>389</u>	<u>349</u>	<u>20</u>	<u>40</u>	<u>4</u>	<u>pvc</u>	<u>40</u>

Length of Headpipe _____ Length of Tailpipe _____
 Packer Y N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method

11. FLOWING ARTESIAN:
 Flowing Artesian? Y N Artesian Pressure (PSIG) _____
 Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:
 Depth first water encountered (ft) 6 Static water level (ft) 30
 Water temp. (°F) 60 Bottom hole temp. (°F) _____
 Describe access port 7/8" x 1/2"

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
<u>349</u>	<u>50</u>	<u>60</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Water quality test or comments: good

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>10</u>	<u>0</u>	<u>9</u>	<u>sand & clay</u>		
<u>10</u>	<u>9</u>	<u>32</u>	<u>Cobbles & gravel</u>		
<u>10</u>	<u>32</u>	<u>53</u>	<u>sand & gravel</u>		
<u>6</u>	<u>53</u>	<u>84</u>	<u>clay</u>		
<u>6</u>	<u>84</u>	<u>144</u>	<u>sand & gravel</u>		
<u>6</u>	<u>144</u>	<u>210</u>	<u>sand</u>		
<u>6</u>	<u>210</u>	<u>349</u>	<u>sand & gravel</u>		<input checked="" type="checkbox"/>

Completed Depth (Measurable): 349 7-21-24
 Date Started: 7-16-24 Date Completed: 8-9-24

14. DRILLER'S CERTIFICATION:
 I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
 Company Name Franklin Drilling Co. No. 1625
 *Principal Driller [Signature] Date 8-9-24
 *Driller _____ Date _____
 *Operator II _____ Date _____
 Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Ground Water Monitoring

Applicant: Leigh Ward File Number: _____

Legal Description: _____ 1/4 _____ 1/4 Section _____ Township 09N Range 04E
 Lot _____ Block _____ Subdivision _____

Property Address: Severance RD Garden Valley ID 83622

Please Record in Inches

Date	Test Hole #	A-1	A-2	A-3	B	C	D	7	8
1/14/22	Distance to Water from top of pipe	113	Dry	Dry			72		
	Length of Pipe from ground surface	28	30	26			30		
	Water Table	85	Dry	Dry			42		
1/22/22	Distance to Water from top of pipe	116	Dry	Dry	Dry	Dry	75		
	Length of Pipe from ground surface	28	-	-	-	-	30		
	Water Table	88					45		
2/1/22	Distance to Water from top of pipe	Dry	Dry	Dry	Dry	Dry	76		
2/1/22 LW Kyle Ernest	Length of Pipe from ground surface	28	30	26	31	34	30		
	Water Table	Dry	Dry	Dry	Dry	Dry	46		
2/9/22	Distance to Water from top of pipe	Dry	Dry	Dry	Dry	Dry	77		
Per Kyle	Length of Pipe from ground surface						30		
	Water Table						47		
2/15/22	Distance to Water from top of pipe	Dry	Dry	Dry	Dry	Dry	79		
Per Kyle	Length of Pipe from ground surface						30		
	Water Table						48		
2/22/22	Distance to Water from top of pipe	117	118	Dry	Dry	Dry	73		
Per Kyle	Length of Pipe from ground surface	28	30				30		
	Water Table	89	88				43		

B - Torres
 C - Updike
 D - Johnson

Date	Test Hole #	A-1	A-2	A-3	#B	#C	#D	7	8
3/3/22	Distance to Water from top of pipe	105	92	97	Dry	Dry	71		
Kyle +Leigh	Length of Pipe from ground surface	-28	-30	-26			30		
	Water Table	77	62	71	-	-	41		
3/9/22	Distance to Water from top of pipe	73	63	63	Dry	Dry	57		
Per Kyle	Length of Pipe from ground surface	-28	30	-26			30		
	Water Table	45	33	37			27		
3/16/22	Distance to Water from top of pipe	61	65	59	Dry	122	65		
Per Kyle	Length of Pipe from ground surface	-28	-30	-26		34	-30		
	Water Table	33	35	33		88	35		
3/23/22	Distance to Water from top of pipe	68	60	61	Dry	Dry	63		
JW	Length of Pipe from ground surface	-28	-30	-26			-30		
	Water Table	40	30	35			33		
3/30	Distance to Water from top of pipe	72	68	65	Dry	Dry	66		
Per Kyle	Length of Pipe from ground surface	-28	-30	-26			-30		
	Water Table	44	38	39			36		
4/5	Distance to Water from top of pipe	74	64	68	Dry	Dry	68		
Per Ernest	Length of Pipe from ground surface	-28	-30	-26			-30		
	Water Table	46	34	42			38		
4/14	Distance to Water from top of pipe	74	64	68	Dry	Dry	66		
Per Ernest	Length of Pipe from ground surface	-28	-30	-26			-30		
	Water Table	46	34	42			36		

Date	Test Hole #	A-1	A-2	A-3	B#	C#	D#	7	8
4/20	Distance to Water from top of pipe	70	63	63	Dry	Dry	68		
Per Kyle	Length of Pipe from ground surface	28	30	26			30		
	Water Table	42	33	37			38		
4/27	Distance to Water from top of pipe	70	63	65	Dry	Dry	66		
Per Ernest	Length of Pipe from ground surface	28	30	26			30		
	Water Table	42	33	39			36		
5/5	Distance to Water from top of pipe	74	64	69	Dry	Dry	68		
LW	Length of Pipe from ground surface	28	30	26			30		
	Water Table	46	34	43			38		
5/12	Distance to Water from top of pipe	71	61	62			65		
LW	Length of Pipe from ground surface	28	30	26			30		
	Water Table	43	31	36			35		
5/20	Distance to Water from top of pipe	72	62	64			68		
LW	Length of Pipe from ground surface	28	30	26			30		
	Water Table	44	32	38			38		
5/25	Distance to Water from top of pipe	77	66	72			72		
LW	Length of Pipe from ground surface	28	30	26			30		
	Water Table	49	36	46			42		
6/1	Distance to Water from top of pipe	80	70	78			72		
LW	Length of Pipe from ground surface	-28	-30	-26			-30		
	Water Table	52	40	52			42		

CERTIFICATE OF SURVEYOR
 I, **DAVID M. HARRIS**, do hereby certify that I am a
 PROFESSIONAL LAND SURVEYOR, LICENSED BY THE STATE OF
 MARYLAND, and that I have personally supervised the
 execution of the survey hereon, and that the same
 is a true and correct representation of the actual
 survey made on the ground by me or under my
 direct supervision and to the best of my knowledge
 and belief.



PROVISIONAL PLAN
 LAMON and Jan Ward

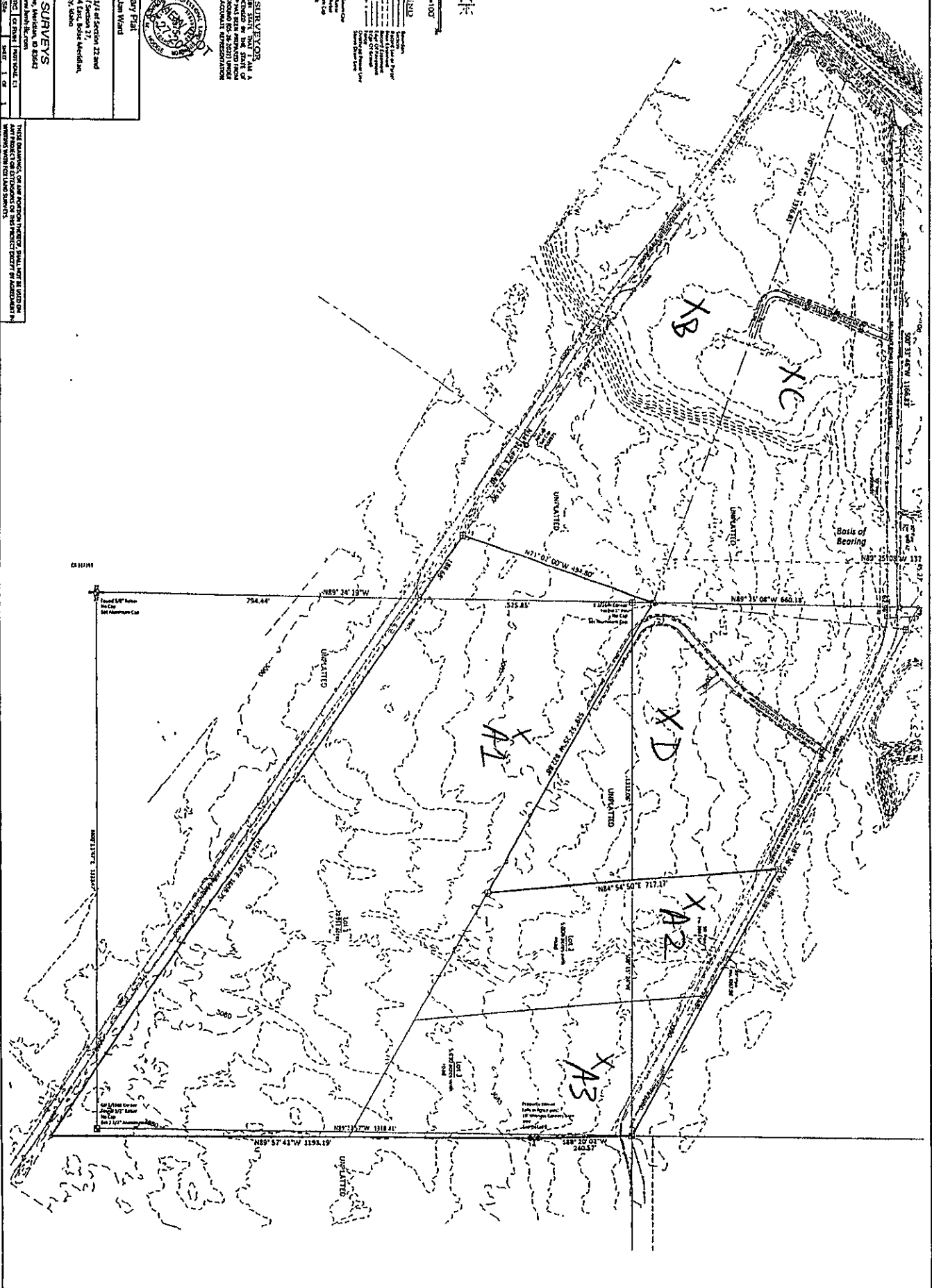
Shaded in the Schedule 1/2 of Section 22 and
 0/4 of Section 17 of Township 3 North, Range 4 East, Base Meridian,
 1836 County, 1836.

FOX LAND SURVEYS
 6802 S. Highway 200, P.O. Box 100
 Foxcroft, Maryland, 21051

DATE OF SURVEY: 10/15/2010
 DATE OF RECORDING: 11/15/2010
 SHEET: 1 OF 1

LEGEND
 --- Boundary
 --- Unplatted
 --- Easement
 --- Right of Way
 --- Other

SCALE: 1"=100'



THIS DRAWING, OR ANY PORTION THEREOF, SHALL NOT BE USED OR
 REPRODUCED FOR ANY PURPOSE OTHER THAN THAT SPECIFICALLY
 AUTHORIZED BY THE SURVEYOR.

NATURAL RESOURCE SOLUTIONS, LLC

Consulting, Soil Evaluations & Data Collection

HARLEY R. NOE
Phone: 208.850.4926
Fax: 208.939-8602

December 6, 2020

Leigh & Jan Ward
126 Warm Springs Road
Garden Valley, ID 83622

RE: Soil & septic evaluation – Garden Valley

On December 1, 2020, Mike Raymond and I examined seven soil test pits on a 62-acre site south of the Banks Lowman Road, located between Severence Road and Hills Mtn. View Road. As you requested, the following provides an opinion of soils on the property in relation to their ability to accept septic systems for dwellings. A map is attached which shows the approximate property boundary along with test pit locations. Detailed soil profile descriptions with GPS locations of excavations are also included.

The test pit profiles provide valuable information about wetness conditions and soil characteristics that apply to installation and performance of septic systems. Soil textures, structure, drainage, and presence of mottles, roots and coarse fragments all play a part in the site evaluation.

Per Idaho DEQ, weekly monitoring of depth to ground water during a monitoring period prescribed by the local health district is used to determine the “normal” and “seasonal” high ground water levels, both of which are considered along with depth to fractured bedrock or other porous layers to assess suitability of the soils to accept drain fields. These ground water levels are defined in the DEQ Technical Guidance Manual as follows: The seasonal high groundwater level is the weekly measurement that is the highest level recorded during the monitoring period, while the normal high ground water level is the highest elevation of ground water that is maintained or exceeded for a continuous period of six weeks per year. In turn, the distance between these measured levels and the placement of the bottom of the drain field is termed the separation distance.

I constructed the attached table which displays an approximation of a suitable system for each of the test pit locations. Keep in mind these are only RECOMMENDED system types which are based on my estimate of groundwater conditions. Actual groundwater levels will need to be defined by weekly monitoring to determine the proper system to be used. Refer to the Technical Guidance Manual which is the Health Department document used to determine the optimum system types. This can be found online at <https://www.deq.idaho.gov/water-quality/wastewater/septic-systems/technical-guidance-manual/>.

Using indicators in the soil profile we observed a common thread of wetness through all test pits at about 4 feet below ground level. I utilized this as my normal high ground water value for six of the seven test pits. (At 6-20 I use 6 feet because of the static water level visible and substratum sands in the pit.) I also selected a range of 2 to 3 feet for the seasonal high ground water level. Meeting the separation requirements assigned by the Design Soil Subgroup an appropriate system type was selected. In the case of this property a Capping Fill system best fits soil and water conditions. These systems place the drainage trench higher than the usual 24-inch depth using a cap of native soil to provide the proper separation distance with a standard trench shape and size.

Plastic 4-inch pipes were placed in each test pit prior to backfilling for the purpose of measuring groundwater levels. These piezometers will need to be read weekly starting in mid-February through mid-June or until the readings drop consistently. It is essential that this data be accurately collected. The results will be needed as support to assign final systems that will be approved by Central District Health (CDH).

Should the measured peak levels be higher than my assumed 4-foot depth, an advanced system will be required. There are numerous systems available and Jerry Davis with CDH informed me that some of those will perform even with normal groundwater levels at 12 inches below ground surface. The Presby system is one of the newer recently certified types in Idaho. It utilizes a 12-inch diameter wrapped pipe in the trench which provides for additional breakdown of effluent. The system operates without added pumps or other hardware which makes it maintenance free. I suggest you check it out online at <https://www.infiltratorwater.com/products/presby-environmental/> or any of other websites with information related to the system.

Once you have the complete monitoring data, we can evaluate the ground water information you collect and determine the final treatment system. Permits will need to be purchased for each test pit so that they may be approved by CDH. If dwelling placements are changed and a new drainfield is required, those test pits will require a permit and inspection by CDH.

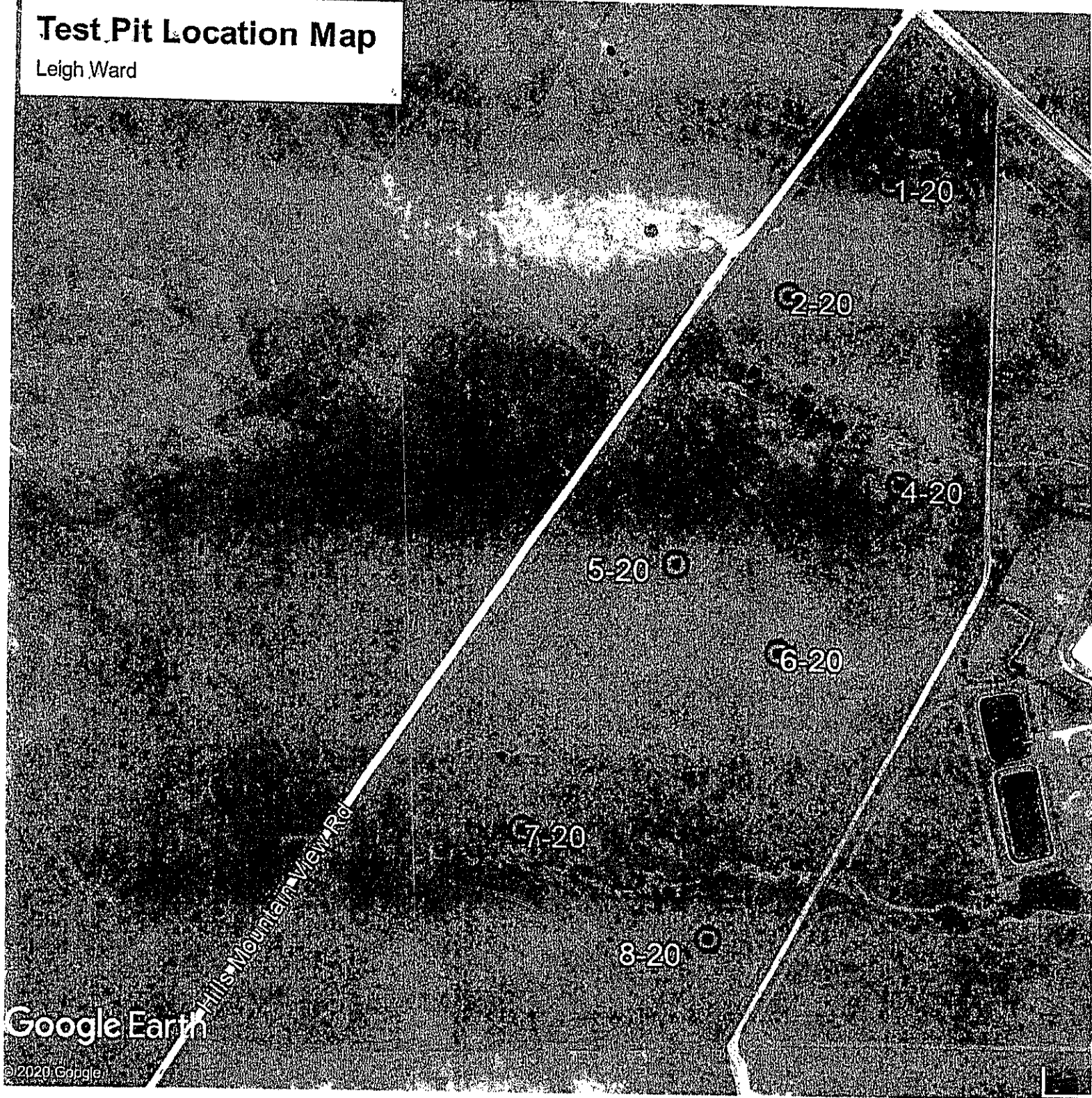
The 62-acre parcel looks good overall. Groundwater monitoring will define conditions so a final system type can be determined. I will provide you with monitoring data sheets and procedures for collecting the water levels. If you have questions, contact me or Mike by phone or e-mail.

transmitted via e-mail

HARLEY R. NOE
Professional Soil Scientist

Test Pit Location Map

Leigh Ward



NATURAL RESOURCE SOLUTIONS, LLC

Septic Drain Field Test Hole Description & Evaluation

Continuation Sheet

Date Of Evaluation: 12/1/2020 Project: Leigh Ward

Requested By: Leigh & Jan Ward

Address: 126 Warm Springs Road Phone: (208) 462-3225

City: Garden Valley State: ID Zip: 83622

Legal Desc: 62 acres in the east half of Section 27, Township 9 North, Range 4 East; Boise Meridian, Boise County, ID

General Desc: Bounded by Severence Road on east side, Hills Min. View Rd. on west & Garden Valley highway on north

Depth (inches)	Moist Color	Texture	Clay %	Roots	Mottles	Est. Perm. (in/hr)	Design Group	Comments
Hole Number & Location: 5-20 Latitude 44.092249; Longitude -115.963712								
0 to 12	10YR 2/2	sandy clay loam	24 to 26	fine	none	1 to 2	B-2	very moist, moderate medium granular structure
12 to 24	10YR 3/3	sandy clay loam	20 to 22	fine	7.5YR 5/6, moist	1 to 2	B-2	appropriate migration of
24 to 38	10YR 4/4	sandy loam	13 to 14	fine	7.5YR 5/6, moist	2 to 6	B-1	very moist; moist; weak, subangular blocky structure
38 to 85	7.5YR 4/3	sandy loam	5 to 8	none	7.5YR 5/6, moist	6 to 12	A-2b	bright, moist, very moist
85 to 96+	variegated	sand	5 to 8	none	none readable	6 to 12	A-2b	moist; medium sand
								below 75 inches

General Notes: Slope: 1 to 2 percent. Free water in pit at 90 inches & up to 77 inches after 30 minutes. HRN Use B-1 Design Soil Subgroup based on 24 to 38 inch layer. I would expect a peak GW level at 48 inches or slightly higher.

RECOMMENDED SEPTIC SYSTEM TYPE: Capping fill system; 3 inch trench & 21 inch cap.
interpretation of the site. Groundwater monitoring is required to design the final system type.

NATURAL RESOURCE SOLUTIONS, LLC

Septic Drain Field Test Hole Description & Evaluation

Continuation Sheet

Date Of Evaluation: 12/1/2020 **Project:** Leigh Ward
Requested By: Leigh & Jan Ward
Address: 126 Warm Springs Road **Phone:** (208) 462-3225
City: Garden Valley **State:** ID **Zip:** 83622
Legal Desc: 62 acres in the east half of Section 27, Township 9 North, Range 4 East; Boise Meridian, Boise County, ID

General Desc: Bounded by Severence Road on east side, Hillis Mtn. View Rd. on west & Garden Valley highway on north
Hole Number & Location: 7-20 **Latitude 44.090335; Longitude -115.965248**

Hole Number	Soil Description	Moisture	Color	Texture	Structure	Rooting	Notes
0 to 17	sandy loam	8 to 10	fine	loam to coarse	none	1 to 2	B-2 sands; stiff consistency
17 to 39	coarse sandy loam	12 to 14	medium	loam to coarse	7.5YR 4/6 moist	4 to 8	B-1 are difficult to read
39 to 72	sandy loam	14 to 16	none	loam to coarse	10% faint, 7.5YR 5/4 moist	2 to 6	B-1 very friable moist; medium and fine sands
72 to 101+	brownish variegated sand	<5	none	very gravelly coarse sand	none readable	15 to 20	unsuited approaches loamy coarse sand; 15% cobbles

General Notes: Slope: 1 to 2 percent. Free water standing in pit at 88 inches after 30 minutes. Saturated below about 80 inches. B-1 Design Soil Subgroup based on 17 to 72 inch soil. Assume 48 inch GW peak. WP 003 HRN
RECOMMENDED SEPTIC SYSTEM TYPE: Capping fill system; 3 inch trench and 21 inch cap.

interpretation of the site. Groundwater monitoring is required to design the final system type.

NATURAL RESOURCE SOLUTIONS, LLC

Septic Drain Field Test Hole Description & Evaluation

Continuation Sheet

Date Of Evaluation: 12/1/2020
Requested By: Leigh & Jan Ward

Project: Leigh Ward

City: Garden Valley State: ID Zip: 83622

Legal Desc: 62 acres in the east half of Section 27, Township 9 North, Range 4 East; Boise Meridian, Boise County, ID

General Desc: Bounded by Severence Road on east side, Hillis Mtn. View Rd. on west & Garden Valley highway on north

Depth (inches)	Moist Color	Texture	Clay %	Roots	Mottles	Est. Perm. (in/hr)	Design Group	Comments
----------------	-------------	---------	--------	-------	---------	--------------------	--------------	----------

Hole Number & Location: 8-20 Latatitide 44.089570; Longitude -115.963358

0 to 13	10YR 3/2	sandy loam	17 to 18	common fine and very fine	None	2 to 6	B-1	very friable moist, approaching sandy clay loam and loam
13 to 24	10YR 4/4	sandy clay loam	22 to 24	fine and very fine	None	1 to 2	B-2	very friable moist
24 to 40	10YR 4/4	loam	18 to 20	and medium	None	0.5 to 1	B-2	friable moist
40 to 96+	variegated	medium sand	<3	very few medium	None	15 to 18	A-2b	40% cobbles, 40% gravel

General Notes: Slope: 0 to 2 percent. No free water in pit. Veg: Pasture Grass/Weeds MAR Design Soil Subgroup

B-2 based on 13 to 40 inch layer. Assume normal peak at 48 inches. WP 007 MAR

RECOMMENDED SEPTIC SYSTEM TYPE: Capping fill system; 12 inch cap and 12 inch cap

NOTE: the system recommendation is based on soil probe characteristics and is only a preliminary estimate intended to show the soil scientist's interpretation of the site. Groundwater monitoring is required to design the final system type.

LEIGH WARD SEPTIC SYSTEM RECOMMENDATION TABLE

Test Hole Number	Estimated Seasonal High Groundwater (feet/bgs)	Estimated Normal High Groundwater (feet/bgs)	Design Soil Subgroup of Receiving soil	Required Separation Required to GW	Recommended System (see note below)
1-20	2 to 3	4	C-1	3	Capping Fill w/ 12-inch trench & 12-inch cap
2-20	2 to 3	4	C-1	3	Capping Fill w/ 12-inch trench & 12-inch cap
4-20	2 to 3	4	B-1	4	Capping Fill w/ 3-inch trench & 21-inch cap
5-20	2 to 3	4	B-1	4	Capping Fill w/ 3-inch trench & 21-inch cap
6-20	2 to 3	6	A-2b	5	Capping Fill w/ 12-inch trench & 12-inch cap
7-20	2 to 3	4	B-1	4	Capping Fill w/ 3-inch trench & 21-inch cap
8-20	2 to 3	4	B-2	3	Capping Fill w/ 12-inch trench & 12-inch cap

"bgs" denotes below ground surface

Seasonal High Groundwater Level of 2 to 3 feet bgs assumed for these system recommendations

Normal High Groundwater Level of 4 feet bgs assumed for these system recommendations

Separation is the allowable distance between bottom of trench to top of groundwater

peak groundwater levels used are based on features present in soil profile