

Wolf, Kevin

From: Wolf, Kevin
Sent: Tuesday, October 26, 2021 12:45 PM
To: Randy Bachtel
Cc: josu009
Subject: RE: RO Back Wash Plan for John Sung

Randy,

After reviewing the plan, there were some changes that need to made:

1. The design application rate should be **1.07gpd/sq ft** not **1.7gpd/sq ft**. This would give us a new total square foot of system at 280 sq ft.
2. I would make the trench one trench at 4ft wide instead of 2x 2ft wide trenches. See note 4 for trench placement. This would also eliminate the need for a distribution box.
3. I would be ok with 1 ft of sidewall credit which would be **.83** (we don't have guidance for a 4ft effective sidewall so it is ok to use 3 ft wide in this case). So, $280 \text{ sq ft} \div 4 \text{ ft} = 70\text{ft}$ (.83 effective sidewall) = **58 linear feet of trench**
4. Place the 58 ft trench uphill some, over top the perc test I just did. We can extend it towards the house and road some as there is room to do so. Let me know if we have any issues with meeting the invert elevation.
5. I would not recommend the system be 8ft deep. We need to still maintain a 4 foot treatment zone above 9ft (which I would be ok with dropping to 3ft treatment zone depth since there are no pathogens normally associated with domestic sewage). I would place the system at maximum bottom depth **6ft** and the inlet invert depth **3ft** if possible (but 4ft inlet invert is ok).
6. Show a 4 inch observation port at the end of the trench. Profile as well showing this 4 inch pipe, perforated in the stone, solid to surface with an approved screw down cap.
7. Please submit a copy of the RO system that is to be used. Make sure to include the system design spec's, flow numbers, etc.

Please submit at least 2 hard copies of this to my attention. Once the changes have been made, I will approve and get the septic permit typed up.

Mr. Song – Do you know if you have a septic contractor already or are you awaiting the final approvals of the design to get estimates?

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
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From: Randy Bachtel <rbachtel@bprsurveying.com>
Sent: Thursday, October 7, 2021 3:08 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: josu009 <josu009@gmail.com>
Subject: RO Back Wash Plan for John Sung

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Kevin:
Find attached the back wash plan for McCann Farm Road, John Sung.
Please take a look and me know of any changes.
Or we can get you hard copies.
Thanks
Randy

Randy Bachtel
BPR, LLC
150 Airport Drive Unit 4
Westminster, MD 21157

Office Number: 410-857-9030

Wolf, Kevin

From: Wolf, Kevin
Sent: Friday, August 27, 2021 12:48 PM
To: Randy Bachtel
Cc: josu009
Subject: RE: John Sung 14701 Mccann Farm Road
Attachments: [Untitled].pdf

Randy,

Our perc test back on the 17th was passing. What I need is a design from you showing the trench location and spec's. I also attached my perc notes for reference. Our first test hole we hit shallow bedrock and had to move further downhill closer to the driveway. We will be using a calculated average rate of 12mpi. This equates to a loading rate of **1.07 gpd/sq ft**. I would try to make the trench width 4ft instead of 3ft which gives us more surface area overall. Make sure the design plan for the system includes the proposed treatment system specifications including the total gallons per day discharge. This will be our ultimate design flow number to use. You may email or drop off 2 hard copies of the design plan when complete. I will review the design and make comments/revisions if necessary. You will most likely have to go out and shoot elevations again as the backhoe guy did not have a laser level with him.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
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8930 Stanford Blvd.
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From: josu009 <josu009@gmail.com>
Sent: Thursday, July 29, 2021 11:14 AM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: Randy Bachtel <rbachtel@bprsurveying.com>
Subject: Re: John Sung 14701 Mccann Farm Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Randy
I am available on the 13th. Can you please confirm that date with Kevin?

Thanks

On Thu, Jul 29, 2021 at 8:59 AM Wolf, Kevin <KWolf@howardcountymd.gov> wrote:

Randy,

I have not heard back from you. I will be on vacation all next week and my schedule is filling up for the week of the 9th. I now have Thursday 8/13 available. If this date does not work, we would be the following week of 8/16.

Kevin

From: Wolf, Kevin
Sent: Tuesday, July 27, 2021 12:06 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Cc: josu009 <josu009@gmail.com>
Subject: RE: John Sung 14701 Mccann Farm Road

Randy,

I have received the test plan for the ro treatment backwash. I think this location could be usable but I am checking with MDE guidance on down-gradient wells with regards to RO backwash trenches. In the meantime, lets go ahead and schedule the perc test for the proposed location shown on the plan. Please let me know what contractor you plan to use as we would only need about an hour (or less) for the testing. Standard backhoe is suitable for the perc but please make sure they have a laser or transit with them. My next available days are: Tuesday **8/10**, Thursday **8/12**. Let me know if this works. It would most likely be around 10am.

Also, your plan does not need to be a “percolation certification” plan as intended. Actually the property/subdivision already has one. For something like what we are proposing here (RO backwash system), a simplified test plan is all we need. Once the perc is completed, we will be able to lay something out for a trench and you can follow up with the details on the proposal. Make sure you are using the appropriate loading rates (which will be determined after the time of testing).

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Howard County Health Department

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From: Randy Bachtel <rbachtel@bprsurveying.com>
Sent: Thursday, July 8, 2021 3:38 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: RE: John Sung 14701 Mccann Farm Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thank you

Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Thursday, July 8, 2021 3:31 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Subject: RE: John Sung 14701 Mccann Farm Road

We will charge \$165 for the perc testing.

From: Randy Bachtel <rbachtel@bprsurveying.com>
Sent: Thursday, July 8, 2021 2:47 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: RE: John Sung 14701 Mccann Farm Road

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Kevin:

We have a perc plan prepared and heading your way for Mr. Sung.

Will you be requiring the normal perc fees?

Thanks

Randy

Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Wednesday, May 5, 2021 3:35 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Subject: RE: John Sung 14701 Mccann Farm Road

Possibly. We get so many different types of plans/projects/permits/applications coming thru our office every week. Tough to tell who gets what nowadays.

From: Randy Bachtel <rbachtel@bprsurveying.com>
Sent: Wednesday, May 5, 2021 2:47 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: josu009 <josu009@gmail.com>
Subject: RE: John Sung 14701 Mccann Farm Road

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Thank you

Will you be the person reviewing the plan?

Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Wednesday, May 5, 2021 2:45 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Cc: josu009 <josu009@gmail.com>
Subject: RE: John Sung 14701 Mccann Farm Road

Sorry Randy,

The drywell must be a septic system designed drywell. Refer to our section in COMAR for reference. I spoke with Jeff Williams in our office about this and he stated that this might be an option depending on how much area is needed. Please remember also we may need to perc test to the area encumbering the proposed drywell/trench system.

From: Randy Bachtel <rbachtel@bprsurveying.com>
Sent: Wednesday, May 5, 2021 11:55 AM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: josu009 <josu009@gmail.com>
Subject: FW: John Sung 14701 Mccann Farm Road

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Kevin:

Any update regarding this email from last week??

Thanks

Randy

Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030

From: Randy Bachtel
Sent: Wednesday, April 28, 2021 2:38 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: RE: John Sung 14701 Mccann Farm Road

Kevin

Not your typical drywell for septic, but like we use for storm water from down spouts.

I have attached a typical drywell with picture son the construction. We would do a perc test to determine infiltration.

Take a look.

Thanks

Randy

Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Wednesday, April 28, 2021 2:25 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Subject: RE: John Sung 14701 Mccann Farm Road

Randy,

That is a actually a good question. We typically do not allow the use of drywells anymore but since this is for RO system discharge, I want to check with my Director to confirm. I will let you know something as soon as I hear.

Kevin

From: Randy Bachtel <rbachtel@bprsurveying.com>

Sent: Wednesday, April 28, 2021 1:08 PM

To: Wolf, Kevin <KWolf@howardcountymd.gov>

Subject: RE: John Sung [14701 Mccann Farm Road](#)

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Kevin:

Thanks for getting back to me.

With the limited area on the lot place trenches, would a dry well be acceptable?

Randy Bachtel

Randy Bachtel, President

BPR, Inc.

[150 Airport Drive Unit 4](#)

[Westminster, MD 21157](#)

Office Number: 410-857-9030

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Wednesday, April 28, 2021 1:02 PM
To: Randy Bachtel <rbachtel@bprsurveying.com>
Subject: RE: John Sung 14701 Mccann Farm Road

Randy,

I am not too sure what you want to discuss. We would need some kind of site plan here showing the location of the RO trench. It is similar to an osds site plan. The entire property file is scanned in our records for your convenience.

http://hcnvhealthinfo.org/hcnvapp_2/index.php/file-search/10588-WS_MCCANN_FARM_ROAD_14701_04-366832/file

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

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From: Randy Bachtel <rbachtel@bprsurveying.com>

Sent: Wednesday, April 28, 2021 11:48 AM

To: Wolf, Kevin <KWolf@howardcountymd.gov>

Cc: josu009 <josu009@gmail.com>

Subject: John Sung [14701 Mccann Farm Road](#)

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Good Morning Kevin:

We have been contacted by John Sung to assist him with a disposal system for an RO System.

Please give me a call regarding this matter.

Thanks you

Randy Bachtel

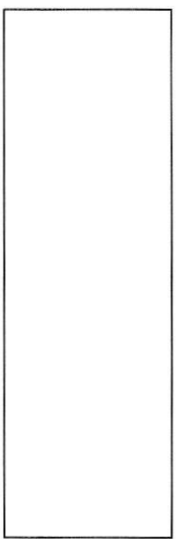
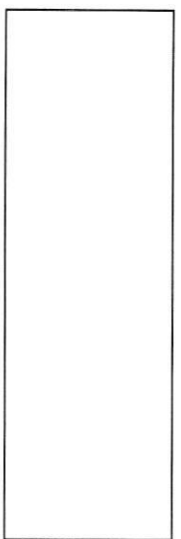
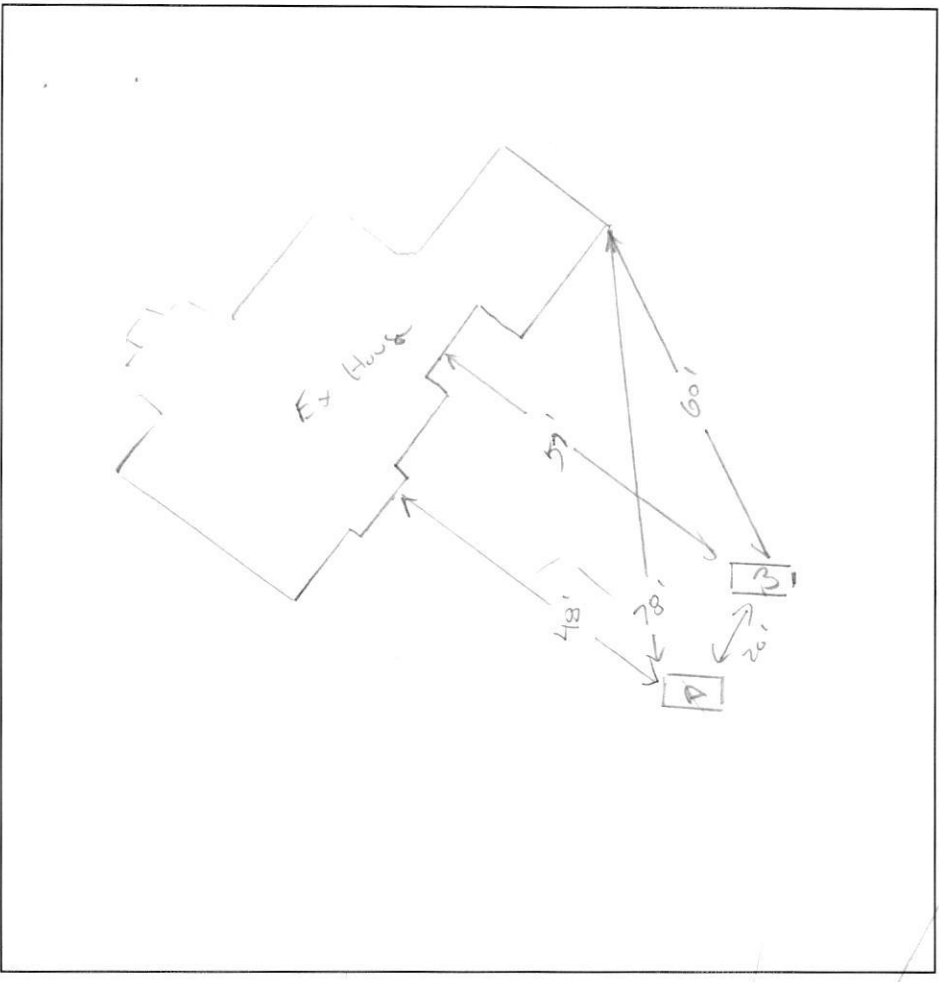
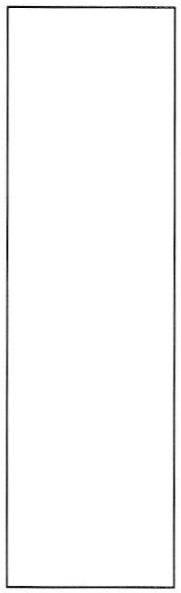
Randy Bachtel, President

BPR, Inc.

150 Airport Drive Unit 4

Westminster, MD 21157

Office Number: 410-857-9030



(A)

12' Br CL
MSBK, Frable
roots

4' 11 Br / Rd CL
MSBK, Frable
Few drains
Dense

5' 20% R.x.
Hard
Bottom

6'

(B)

12' Br CL
MSBK, Frable
roots

4' 11 Br / Y CL
WK MSBK,
roots.
100% Sprink

6' 11 Br / Y CL
WK 60 pl
Frable, fauna

9' 11 Br / Y CL
WK 60 pl
Frable, 100% Sprink
Microcos.

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
8/17/21	(A)	—	Fail	—	—	—	✓	
	(B)	4' / 9'	00:45	00:52	01:09	17	P	
		9'	00:29	—	—	≈ 7 min	P	
			(water poured @ bottom)					

REMARKS Per for whole house 20

SANITARIAN K Wolf BACKHOE Dens = Property LLC OTHERS owner

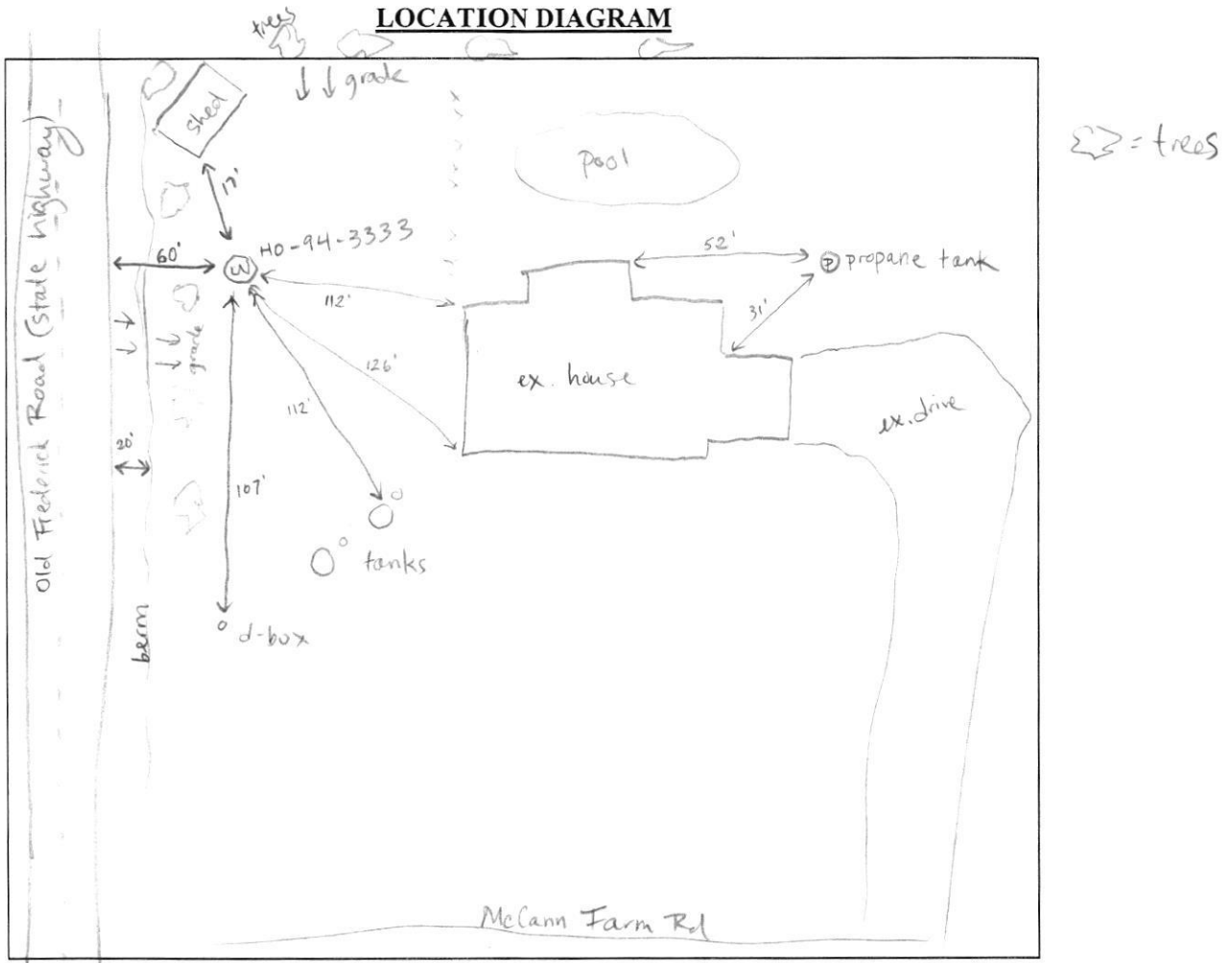
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

SITE INSPECTION SHEET

OWNER: John Sung PHONE #: 410-693-8369
 ADDRESS: 14701 McCann Farm Rd CONTRACTOR: _____
Woodbine, MD 21797 WELL TAG #: H0-94-3333
 SUBDIVISION: _____ LOT: _____ COUNTY #: Howard
 PROPOSAL: homeowner reports corrosion + plumbing damage from high NaCl - would like whole RO

LOCATION DIAGRAM



COMMENTS: Well is downgrade of road and the slight road berm parallel to road. Well head is 11" above grade. Forested area behind house runs downgrade. Well and septic components are on even graded field. Pool and propane tank behind house. Owners says previous water test good except for NaCl. Well is 5.5 GPM. Geology: Morgan Run Formation

DATE: 2/3/2021 INSPECTOR: Susan Thomas

