Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION APPROVED APR 2 0 2015

Sheet:
Date Evaluated: 4/1/15

Owner or Client: Davin Vesey
Proposed Facility: 3FR Design Flow: 360
Location of Site: 199 Bailey Rd
Soil Described By: KMS Others Present:
Antecedent Moisture: Weather:

Property Size: 2.28
Site LTAR: Int. Rep.
Site Classification:

Water Supply: [ ] Public [ ] Community [X] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

58" TBD

PROFILE #	Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY Structure/ Texture	SOIL MORPHOLOGY Consistence Mineralogy	PROFILE FACTORS Inclusions	PROFILE FACTORS Matrix Color	PROFILE FACTORS Mottles	PROFILE FACTORS Profile Notes (Restr Horiz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1	L	0-10	Mo GR SL	FR ns/np		Br			0.2 US
		10-22	WK SBK SCL	FR SS/SP		yel R			
		22-36	Mo SBK C	Fi S/P		R	F/C yel Br		
		36-42	WK SBK C	Fi S/P	F Sap	yel R	C/M yel Br		
		42"	2 Chroma						
2	L	0-8	Mo GR SL	FR ns/np		Br			0.25
		8-23	Mo SBK C	Fi S/P		R	C yel Br		
		23-42	WK SBK CL	FR SS/SP	C Sap	R yel			
		42-60	MA SL Sap	FR ns/np		multi			
3	L	0-12	Mo SBK C	FR SS/SP		R			0.25 to 43"
		12-23	WK ABK SCL	FR SS/SP	C Sap	R			
		23-43	WK SBK SCL	FR SS/SP	C Sap	R			
		43"	SL Sap +	SCL Sap	mix				
4	L	0-5	Mo GR SL	FR ns/np		Br			0.1 dnp
		5-20	WK ABK C	FR SS/SP		R	C yel Br		
		20"	2 Chroma						
5	L	0-12	Mo GR SL	FR SS/SP		Br			US 0.3 33+ if go deep
		12-33	WK SBK C	Fi S/P		R	C 2chroma, yel Br, Pale Br		
		33-78	WK SBK CL	FR SS/SP	C/M Sap	R			
6	L	15"	to tiger dirt						US

COMMENTS:

7 L
0-4 Mo GR SL
4-36 WK ABK C Fi S/P C yel Br, Br; F 2 Chroma
36-65 WK SBK SCL C/M Sap
65-84 MA SL Sap multicolored

US
46" TB
0.3

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199 Bailey Road Fast Track Septic System Information

Number of Bedrooms	3
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	360
LTAR (gpd/ft2)	0.3
Primary System Type	**PPBPS**
No. Lines	2 (See Table)
Total Linear Feet	66
Trench Width	2' min.
Trench Spacing	8' min.
Trench Depth Low Side	58"
Pump Required	No
Distribution Device	D Boxes
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	Existing
Repair System	**LP PPBPS**
Total Linear Feet	66
Repair LTAR	0.3

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Panels
1	System	Blue	PPBPS	33 endfed	7
2	System	Orange	PPBPS	33 endfed	7
3	Repair	Blue	PPBPS	8	
4	Repair	Orange	PPBPS	8	
5	Repair	Blue	PPBPS	50	
					Total: 14
				Total System: 66'	
				Total Repair: 66'	

Tank	Red	Existing
Pump Tank	Red	
House	Blue	

Note: System uses existing 2 bedroom Gravel Bed system, and adds 1 bedroom of PPBPS line Lot platted in 1970's so only 1 bedroom of repair required. Insert D Box between tank and existing bed if possible, and another D Box for the new PPBPS lines. First D Box should have two pipes going to exising bed, one pipe to PPBPS D Box to split effluent evenly between existing 2 bedroom system and new 1 bedroom addition

From: Brad Johnson <tj_panel@yahoo.com>
Date: April 13, 2016 at 4:49:46 PM EDT
To: kathleenmsaunders@gmail.com
Subject: Deep trench bottom panel system

Hi Kathleen,

I do apologize for the late email due to being out of my office for the past 2 weeks.

When installing the T & J Panel System in deep trench bottoms there are 2 ways to go about it to obtain the desired aerobic breakdown and maintain a healthy septic environment.

The first way is to use the river sand placed under the panels to raise the level of the panel to the preferred height of 6 inches below surface level. (This method in turn gives you more storage capacity in the trench as well.)

Example:
If you needed a 56 inch trench bottom; you would place 34 inches of approved C-33 River sand in the trench before placing your 1x6 board and panels. This would bring the top of the panel 6 inches below surface level.

The second way to obtain the desired aerobic activity, is to use vent pipes in the drain field. It would require 1 vent T be place per 50ft of drain line.

I will scan a diagram of the vent method and email it to you.

Please let me know if there's anything else I can help you with.

Thank you,

Brad Johnson
T & J Panel Inc
(704)924-8600

Thomas Shuck

From: Brad Johnson <tj_panel@yahoo.com>
Sent: Thursday, April 14, 2016 9:32 AM
To: Thomas Shuck
Subject: Re: Deep trench bottom panel system

Hi Tom,

Those are the only 2 ways to install the Panel System in deep trenches. I will also forward a diagram of the vent method when I get in to the office this afternoon.

Feel free to call or email me anytime,

Brad Johnson
T & J Panel Inc.
O: (704)924-8600
C: (704)880-7697

On Apr 14, 2016, at 9:19 AM, Thomas Shuck <thomas.shuck@co.iredell.nc.us> wrote:

> Brad,
>
> I just received a forwarded email of yours from Kathleen Saunders. If the original email was a PDF scanned letter with your signature, I wouldn't be asking, however I wanted to confirm that the below email chain is your complete instruction and nothing has been left out pertaining to deep trench installation of all Panel Block systems. Thanks.
>
> Sincerely,
> Tom Shuck
> Iredell County Environmental Health
>
> ---
>
> **From:** Kathleen Saunders [mailto:kathleenmsaunders@gmail.com]
> **Sent:** Wednesday, April 13, 2016 5:28 PM
> **To:** Thomas Shuck <thomas.shuck@co.iredell.nc.us>
> **Subject:** Fwd: Deep trench bottom panel system
>
> Tom,
>
> Are you still working on this AC? This is the approval I received fro T&J about how to do the deep trench depth as specified on the IP. Please let me know if you need anything else.
>
> Thanks,
>
> Kat
>
> Sent from my iPhone
>
> Begin forwarded message: