



23-0579.GPJ GEOTEKENG.GDT 5/16/23

### **GEOTEK ENGINEERING** & TESTING SERVICES, INC.

909 E 50th St N SIOUX FALLS, SD 57104 (605) 335-5512 Fax (605) 335-0773 info@geotekeng.com

## PRELIMINARY ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

Well Construction Details BORING / WELL NO. 1 (1 of 1) GEOTEK # 23-0579 PROJECT Proposed Addition - Performance Pet Products, Lot 7, Block 2, Brandon 90 Plaza Addition, 915 E. Havens Avenue, Mitch SAMPLE DEPTH **DESCRIPTION OF MATERIAL GEOLOGIC** PID / SURFACE ELEVATION 96.3 ft FID **ORIGIN** WL NO. **TYPE** FEET FILL, MOSTLY SANDY LEAN CLAY: a little FILL gravel, brown and dark brown, moist to wet, 10" of gravel at the surface HSA 1 2 **LEAN CLAY WITH SAND**: a little gravel, **GLACIAL** brown, moist, stiff to very stiff, petroleum odor TILL SPT 2 below 7' (CL) ▼ 3 SPT SPT 4 5 SPT SPT 6 SPT 7 16 Bottom of borehole at 16 feet. WATER LEVEL MEASUREMENTS START 5-11-23 COMPLETE 5-11-23 12:08 pm **DEPTH BELOW** WATER **METHOD** DATE TIME **ELEVATION** SURFACE TOR / TOC 3.25" ID Hollow Stem Auger 5-11-23 12:08 pm 7.0 89.3 5-11-23 3:28 pm 5.0 91.3 CREW CHIEF Mike Wagner --





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## PRELIMINARY ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

Well Construction Details BORING / WELL NO. 2 (1 of 1) GEOTEK # 23-0579 PROJECT Proposed Addition - Performance Pet Products, Lot 7, Block 2, Brandon 90 Plaza Addition, 915 E. Havens Avenue, Mitch SAMPLE DEPTH **DESCRIPTION OF MATERIAL GEOLOGIC** PID / in FEET FID **ORIGIN** WL NO. SURFACE ELEVATION 95.6 ft **TYPE** FILL, MOSTLY LEAN CLAY: very dark FILL brown, moist 1 HSA 1 FILL, MOSTLY LEAN CLAY WITH SAND: a FILL little gravel, brown and dark brown, moist, SPT 2 31/2 LEAN CLAY WITH SAND: a little gravel, GLACIAL mottled brown and gray, moist, stiff, (CL) TILL 3 SPT ¥ SPT 4 91/2 SANDY LEAN CLAY: a trace of gravel, **GLACIAL** brown, moist, stiff to very stiff, (ČL) TILL 5 SPT SPT 6 SPT 7 16 Bottom of borehole at 16 feet. WATER LEVEL MEASUREMENTS START 5-11-23 COMPLETE 5-11-23 10:07 am **DEPTH BELOW** WATER **METHOD** DATE TIME **ELEVATION** SURFACE TOR / TOC 3.25" ID Hollow Stem Auger 5-11-23 10:07 am 13.0 82.6 5-11-23 2:14 pm 7.0 88.6 CREW CHIEF Mike Wagner --





	_	23-0579				RING / WELL N							nstruction De	
DEPTH in	_	DESCRIPT	ION OF MATE	RIAL	ucts	GEOLOGIC ORIGIN	PID / FID			MP		tion, 915 I	E. Havens Av	enue, N
FEET	L V	RFACE ELEVAT			XXX	FILL	5	***	140.	···			:	
-	grave	el, brown and of gravel at the	dark brown, m			FILL	- -		1		HSA			
-							_		2		SPT			
5 _	mottl	N CLAY WITH ed brown and lleum odor bel	gray, moist, s	gravel, tiff,		GLACIAL TILL	-		3		SPT			
-							- - -		4	:	SPT			
9½ -	SANI brow (CL)	DY LEAN CLA n, moist to we	<u>Y</u> : a trace of g t, very stiff, pe	ravel, troleum odor		GLACIAL TILL	_		5	:	SPT			
14½							_ _ _	Ā	6		SPT			
-	LEAN brow	n, moist, very	SAND: a little stiff, (CL)	gravel,		GLACIAL TILL	-		7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SPT			
16 _		Bottom of b	oorehole at 16	feet.	<i>Y/12</i>		-			7				
		WATER	LEVEL MEAS	SUREMENTS			START		5-11-	<u> </u>		MPLETE	5-11-23 1:00	6 pm_
DAT	гЕ	TIME		BELOW	-	WATER ELEVATION	METH		.,		_			
5-11-	-23	1:06 pm	SURFACE 14.0	TOR / TOC	Ţ.	84.4	3.25"	<u>וט H</u>	OIIOW	<u>Ste</u>	em Ai	<u>iger</u>		
					ऻ		CREV					/agner		





	EK# <b>23-0579</b>				RING / WELL N							nstruction	
	CT Proposed	Addition - Perform	ance Pet Prod	ucts	, Lot 7, Block 2	2, Brand	don 9			Addi	tion, 915 l	E. Havens	Avenue,
EPTH in EEET		RIPTION OF MATE .EVATION <u>97.8 f</u>			GEOLOGIC ORIGIN	PID / FID	WL			YPE			
_	FILL, MOSTLY	<b>LEAN CLAY</b> : very 8" of gravel at the s	dark		FILL	_		1	}	HSA		-	
2 _	FILL, MOSTLY medium graind dense	<u><b>f SAND</b></u> : a little graed, brown, moist, n	vel, fine to nedium		FILL	_		2		SPT			
- 4½ -	mottled brown	<b>/ITH SAND</b> : a little and gray, moist, s	gravel, tiff to very		GLACIAL TILL	- -		3		SPT			
-	stiff, (CL)	<b>3</b> <i>3</i> ,7	ŕ			- -		3		251			
-						-		4		SPT			
-						_	Ā	5		SPT			
-						_		6		SPT			
- 16 _						_		7	$\bigvee$	SPT			
	Bottor	n of borehole at 16	feet.			-							
	WA	TER LEVEL MEAS	SUREMENTS			START	<u> </u> Г	5-11-	23	_ co	MPLETE	5-11-23 2	2:00 pm
DAT	TE TIME	DEPTH SURFACE	BELOW TOR / TOC	-	WATER LEVATION	METH	IOD	- داره	, 0	tor- ^	190"		
5-11- 			 	<u> </u>	87.8 	3.25"	ח Hיו	NOIIO	/ 51	iem A	uger		





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## PRELIMINARY ENVIRONMENTAL SOIL BORING LOG / WELL CONSTRUCTION INFORMATION

Well Construction Details GEOTEK # 23-0579 BORING / WELL NO. 5 (1 of 1) PROJECT Proposed Addition - Performance Pet Products, Lot 7, Block 2, Brandon 90 Plaza Addition, 915 E. Havens Avenue, Mitch SAMPLE DEPTH DESCRIPTION OF MATERIAL **GEOLOGIC** PID / in FEET FID **ORIGIN** WL NO. SURFACE ELEVATION 97.3 ft **TYPE** FILL, MOSTLY SANDY LEAN CLAY: a little FILL gravel, brown and dark brown, moist, 8" of gravel at the surface HSA 1 SPT 2 5 LEAN CLAY WITH SAND: a little gravel, GLACIAL 3 SPT mottled brown and gray, moist, stiff to very TILL stiff, (CL) SPT 4 5 SPT SPT 6 GEOTEKENG.GDT 5/16/23 SPT 7 16 Bottom of borehole at 16 feet. WATER LEVEL MEASUREMENTS START 5-11-23 COMPLETE 5-11-23 10:43 am **DEPTH BELOW** WATER **METHOD** DATE TIME **ELEVATION** SURFACE TOR / TOC 3.25" ID Hollow Stem Auger 5-11-23 10:43 am NONE CREW CHIEF Mike Wagner





										_	Well Co	onstructio	on Details	1
	EK# <b>23-0579</b>				RING / WELL N	_		_						
	CT Proposed Addi	tion - Perform	ance Pet Prod	lucts	s, Lot 7, Block 2	2, Bran	don 9				ition, 915	E. Haver	ns Avenue,	M
DEPTH in FEET	DESCRIPT	ION OF MATE			GEOLOGIC ORIGIN	PID / FID	WL	NO.		PLE YPE				
2	FILL, MOSTLY SAI gravel, brown and gravel at the surface	dark brown, m ce	oist, 8" of		FILL	_		1		SPT				
4½	SANDY LEAN CLA (CL)	<u>Y</u> : black, mois	t, firm,		BURIED TOPSOIL	- -		2		SPT				
-	SANDY LEAN CLA moist, firm, (CL)	<u>Y</u> : very dark bı	rown,		FINE ALLUVIUM	_		3	X	SPT				
6	Bottom of	borehole at 6	feet.	<i>Y///</i>			-							
-						-								
-						_								
-						_								
-						_								
-						_								
-						_								
-						_								
						-								
	WATER	LEVEL MEAS		1	\A/ATED	START		5-11-	-23	co	OMPLETE	5-11-2	3 3:17 pm	1
DAT	E TIME	SURFACE	BELOW TOR / TOC	┤╒	WATER ELEVATION	METH 3.25"		مراامه	, C	tam ^	uger			
5-11-	-23 3:17 pm	NONE				J.ZJ	ווטו		<u>,                                    </u>	CIII A	<u></u>			1
														1
				-		005	·/ ^:			A:1 .	N/			1
						CREV	<u>v C</u> F	11EF		viike V	Vagner			1





GEOTE	EK# <b>23-0579</b>			BOI	RING / WELL N	10.	7	(1 c	of 1	)	Well Co	onstructi	on Details	1
	ECT Proposed Add	lition - Perform									tion, 915	E. Have	ns Avenue,	, <b>I</b> v
DEPTH in		TION OF MATE			GEOLOGIC	PID /		SA	AMI I	PLE				
FEET	SURFACE ELEV	ATION <u>95.7 ft</u>	<u>:                                     </u>		ORIGIN	FID	WL	NO.	Т	YPE				
-	FILL, MOSTLY SA gravel, brown and of gravel at the su	l dark brown, m	AY: a little oist, stiff, 8"		FILL	-		1 2		SPT				
5 _ 6 _	LEAN CLAY WITH mottled brown an	H SAND: a little of gray, moist, st	iff, (CL)		GLACIAL TILL	_		3	X	SPT				
_	Bottom o	i borenole at o	eet.			_								
_						_								
_						_								
=						_								
-						_								
_						_								
-						_								
-						_								
	<u> </u> WATFI	R LEVEL MEAS	SUREMENTS			START	Г	<u> </u> 5-11-	-23	CC	<u>I</u> OMPLETE	5-11-2	23 2:55 pm	$\dagger$
DAT		DEPTH	BELOW	_	WATER	METH	IOD						2.00 pm	1
5-11-		SURFACE NONE	TOR / TOC		LEVATION 	3.25"	ID H	ollow	<u>/ S</u>	tem A	uger			$\left\{ \right.$
														1
<u></u>						CREV	V 0'			M:1 14	Vagner			1





GEOTE	EK# <b>23-0579</b>			BOF	RING / WELL N	NO.	8	(1 c	of 1	)	Well C	onstruction D	etails
PROJE	CT Proposed Additi	ion - Performa									 ition. 915	E. Havens A	venue.
DEPTH		ON OF MATE								PLE	, , ,		,
in FEET	_SURFACE ELEVATI				GEOLOGIC ORIGIN	PID / FID	WL	NO.	Т	YPE			
- -	FILL, MOSTLY SAN gravel, brown and d than 4" of topsoil fill	DY LEAN CLA	AY: a little		FILL	-		1 2		SPT			
6 _	Bottom of b	porehole at 6 f	eet.			_	-	3	X	SPT			
_						_							
_						_							
_						_							
-						- - -							
=						_							
	\A/A TED !		LIDEMENTO			07455		<u> </u>	00			F 44 00 0 1	24 # ***
		LEVEL MEAS DEPTH			WATER	START		5-11-	-23		OMPLETE	5-11-23 2:3	34 pm
DAT	E TIME	SURFACE	TOR / TOC	LE	LEVATION	METH 3.25"		<u>oll</u> ov	<u>∠</u> S	tem A	<u>uger</u>		
5-11-		NONE	-										
<u></u>					<u></u>								
						CREV	V CL	IIFF	-	Mika V	Vagner		