BGS #3478 Bradbury Mountain State Park Campground Improvements 10.23.2024

Addendum #2

Summary :

PaulDesignsProject and consultants are responding to onsite and emailed questions regarding the Bradbury Mountain State Park Campground Improvements. If any questions are not answered, or additional details, drawings and information is required, please contact andrew@pauldesignsproject.

Bid Opening Date : Tuesday 10/29/ 2024 at 2:00pm

Contents:

-Revised Questions from Addendum #1

-Questions and Answers Bulleted List

-Revised Drawings

-Additional Requested Materials

QUESTION REVISIONS FROM ADDENDUM 1:

- 1. Attach a new Contractor Bid Form 00 41 13 to the Addendum
 - a. #6 Add an add-alt for the interior envelop of the Maintenance Building. The pricing of the envelope to be independent of the building.
 - b. Remove water storage from the project AND ensure that the pumphouse and pump house electrical is shown as a base bid item

2:

4) Pumphouse design inclusion in Q/C response Internal pumphouse needs to be designed i. Bennett or another firm?#

Contractor is responsible for electrical in pumphouse

6 – Identify insulated envelope as add-alt number _____.

Is erosion control inspection needed by licensed engineer? Erosion control inspection can be by an engineer or an individual certified in erosion control by Maine DEP. **Does not have to be a hired third-party inspector if an** in-house inspector is qualified

Spec 31 20 00 Earthmoving states "that all excavation – including rock is unclassified". The site cannot be bid as "unclassified" without proper rock/ledge probes and a geotechnical report. Please forward all ledge probes/data and the site geotechnical report for review. If that information is not readily available, or not in su[®]icient detail maybe bid allowances for ledge and unsuitable soils would be in order?

There is no geotechnical report for this site.

There are test pits from the soils scientist/site evaluator who completed the High Intensity Soil Survey and septic design. These are not the same as geotechnical test pits, but show that bedrock was not found in any area of the project site. Test pit depth was generally 4' to 5' deep. The soils are not classified as clay. These documents are provided if BPL wishes to share them with the contractors. It is up to BPL if they want to add a bid allowance for ledge & unsuitables, and what the amount would be.

Ledge is not at the site. I recall the well drilling report stating that ledge was encountered at 10 feet. I don't think we need to include an allowance for ledge removal as the development is all within the top soil layers. If they encounter ledge and we can't find an alternative solution to work around it, we would do a change order.

Can you please clarify items that the park service will be providing installing? There was some discussion at the site visit, but want to confirm. It is noted that we are to provide and install the MUTCD directory signage, and that the park service (others) would provide and install informational signage. Drawing L501 details wood benches, bike racks and fire rings. Are those the contractor's responsibility? Also – mention of picnic tables and other furnishings were mentioned this am.

1. #15 - BPL is responsible for the picnic tables.

I don't see any details for the Toilet Priveys. Can you please get them included/added to the

plan set?

2. #18 – Privy vault base is to be purchased and installed by the contractor. Structure materials will be purchased and installed BPL.

NEW ADDENDUM QUESTIONS

1. Is this a LEED project? Are LEED Submittals required?

NO

2. In the structural Steel 051200 spec, it calls for the owner to engage testing and inspections (2.8A) and it calls for the contractor to provide testing and inspections (1.4C.1), who is responsible for this? If the contractor is can an allowance be carried?

Contractor cannot carry an allowance if BPL has not approved an allowance to be carried. BPL does not

want any unnecessary testing. Any testing required is the responsibility of contractor

- 3. Is a mock up required for Concrete? 033000 Cast-In-Place, section 1.3D. NO
- 4. It appears per section 033000 Cast In Place Concrete the contractor is responsible for testing & Inspections, can an allowance be carried for this item?

NO. Any testing required is the responsibility of the contractor. No Allowance that is not specified

5. Is BABAA required on this project?

NOT EXPLICITELY, HOWEVER, AMERICAN MADE PRODUCTS ARE PREFERRED

- 6. In section 31 25 13 Erosion Controls section 1.4 Section B.1 through B.4, it calls out for the GC to carry a PE to assist in implementing with erosion control including several other tasks from B.1 through B.5. Is this going to be required? Should an allowance be carried for this?
- 7. Who is providing vault toilets? If the contractor please provide details and requirements

Contractor purchases and installs the vault privy base based on the spec proved by BPL, or approved equal

Maintenance Building

8. Foundation wall height on the structural drawings is 4'6" from TOF to TOW. The architectural drawings show a 2' wall above slab elevation, when the structural drawings show 6" from slab elevation to TOW. Can you confirm which we should provide?

2' stem wall above slab elevation, please, this was increased to protect base of building

9. Should there be rigid foam on exterior foundation walls at maintenance building?

No

Gatehouse

10. On drawing A1.101 the clouded elevation reference and enlarged plan areas are not identified. There appears to be a bench/knee wall area – is this part of the contract? If so, can you provide a wall type and bench materials?

THIS IS PART OF THE BASE BID. SEE DETAIL AT END OF ADDENDUM

11. HHE-2000 Forms (Septic Design) do not appear to be in the plans/specs/addendum 1. These are needed so we can at a minimum price the system for the maintenance garage. There is no detail present.

SEE ATTACHMENTS FROM LONGVIEW PARTNERS

12. Also – SMH-2 will not work as designed. It is too shallow – the pipe connections/boots will be above the top of barrell section and into the flat top/casting. The inverts need to drop by at least 10 inches.

SMH-2 adjacent to the bathhouse could adjust slightly so the RIM moves up to 260.28 (gains 3.4"). The frame/cover shall be a shorter 3" height and the structure shall have a flat top (7"). I believe the joint between flat top and barrel section is 4.5", therefore the bottom of joint would be at 259.07. The sewer pipes are 4". The invert in is 258.29, so top of pipe is 258.62. Difference between top of pipe and bottom of joint is 5.4". I believe this is workable. We cannot lower the inverts as we are already up against minimum slopes and separations. We can work up a more specific detail on the construction set. If the contractors need more information on this item I am happy to discuss further.

13. Are the plants shown/listed on L102 IN ADDITION to those shown/listed on L101? Or are they included in the quantities shown/listed on L101? The term "Plant Schedule – This Sheet Only" makes us think they are in addition to the plants on L101. Please confirm/advise.

Each planting sheet contains planting lists for only the plants on those sheets. Those plants are not accounted for on other sheets.

14. Can you provide the septic designs for the non-engineered septic systems? Sheet C5.3 says "See HHE-200 by Longview Partners" for both the maintenance building and RV dumping station systems.

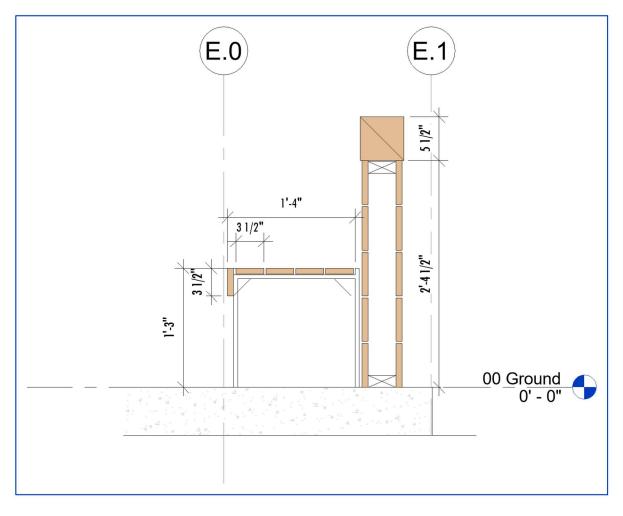
- 15. Is there a detail for the RV dump station connection point? Sheet C-6.2 Campsite Sewer Hook Up Detail.
- 16. The utility plan shows a 250 gallon propane tank for the bath house. Will this be installed on a concrete pad?

Yes, unless BPL says otherwise. BPL specified that they wanted a 250 gallon LP tank here so we should confirm with them that this standard construction on concrete is acceptable?

17. The plans for the pole barn/storage barn that were included in the addendum include the design for a 3 bay, 4 bay, and 5 bay barn. Do you know which size building will be built?

5 BAY BARN

DETAIL FOR BENCH / KNEE WALL:



00 41 13 Contractor Bid Form

Br	adbury Mountain State Park Campground Improvemen	ts 3478
Bid Form submitted by	y: email only to email address below	
Bureau of Gene	eral Services eet, Cross State Office Building, 4th floor Station	Architect@Maine.gov
Bidder:		
Signature:		
Printed name and title:		
Company name:		
Mailing address:		
City, state, zip code:		
Phone number:		
Email address:		
State of incorporation, if a corporation:		
List of all partners, if a partnership:		

The Bidder agrees, if the Owner offers to award the contract, to provide any and all bonds and certificates of insurance, as well as Schedule of Values, Project Schedule, and List of Subcontractors and Suppliers if required by the Owner, and to sign the designated Construction Contract within twelve calendar days after the date of notification of such acceptance, except if the twelfth day falls on a State of Maine government holiday or other closure day, or a Saturday, or a Sunday, in which case the aforementioned documents must be received before 12:00 noon on the first available business day following the holiday, other closure day, Saturday, or Sunday.

As a guarantee thereof, the Bidder submits, together with this bid, a bid bond or other acceptable instrument as and if required by the Bid Documents.

00 41 13 Contractor Bid Form

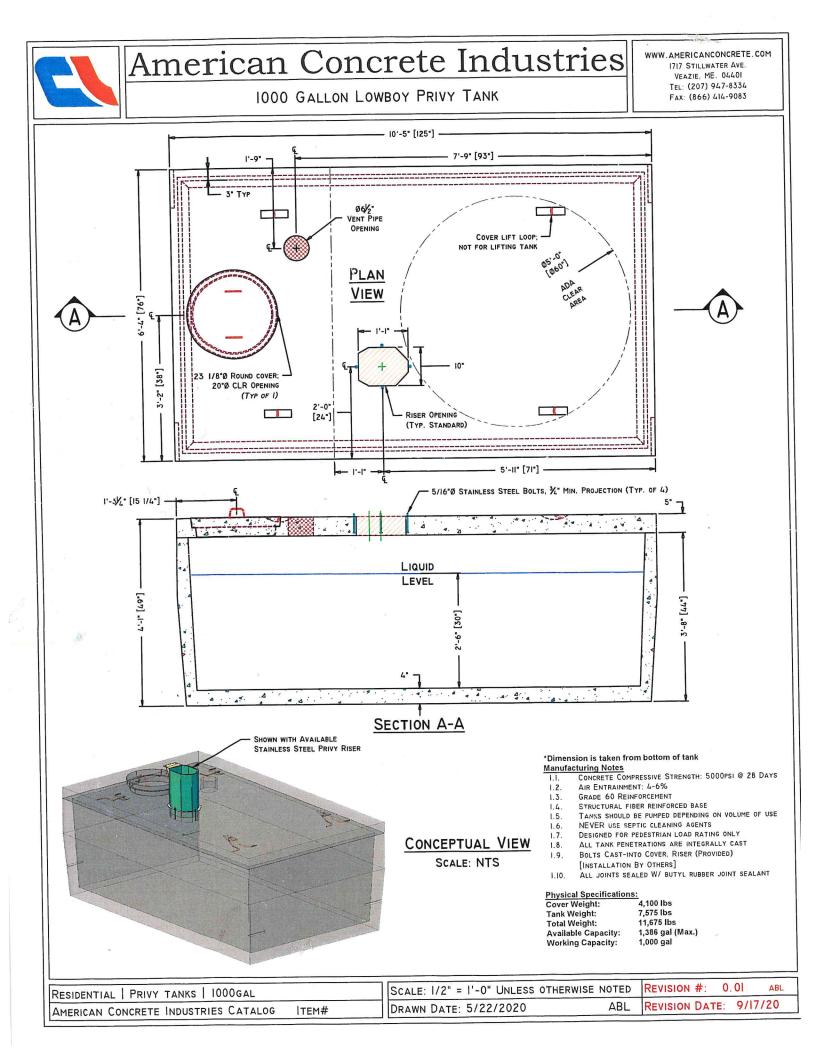
 The Bidder, having carefully examined the <u>Bradbury Mountain State Park Campground</u> <u>Improvements</u> Project Manual dated <u>1 October 2024</u>, prepared by <u>Paul Designs Project</u>, as well as Specifications, Drawings, and any Addenda, the form of contract, and the premises and conditions relating to the work, proposes to furnish all labor, equipment and materials necessary for and reasonably incidental to the construction and completion of this project for the **Base Bid** amount of:

		\$.00
2.	Allowances <i>are not included</i> on this project. <i>No Allowances</i>	
	N/A	\$ 0 <u>.00</u>

 Alternate Bids are included on this project. *Alternate Bids are as shown below* Any dollar amount line below that is left blank by the Bidder shall be read as a bid of \$0.00.

1	campsite electrical and water hookups	\$ <u>.00</u>
2	Interior Envelope at Maintenance Building	\$.00
3	not used	\$.00
4	not used	\$.00

- 4. Bid security *is required* on this project. If noted above as required, or if the Base Bid amount exceeds \$125,000.00, the Bidder shall include with this bid form a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with this completed bid form submitted to the Owner.
- 5. Filed Sub-bids *are not required* on this project. If noted above as required, the Bidder shall include with this bid form a list of each Filed Sub-bidder selected by the Bidder on the form provided (section 00 41 13F).

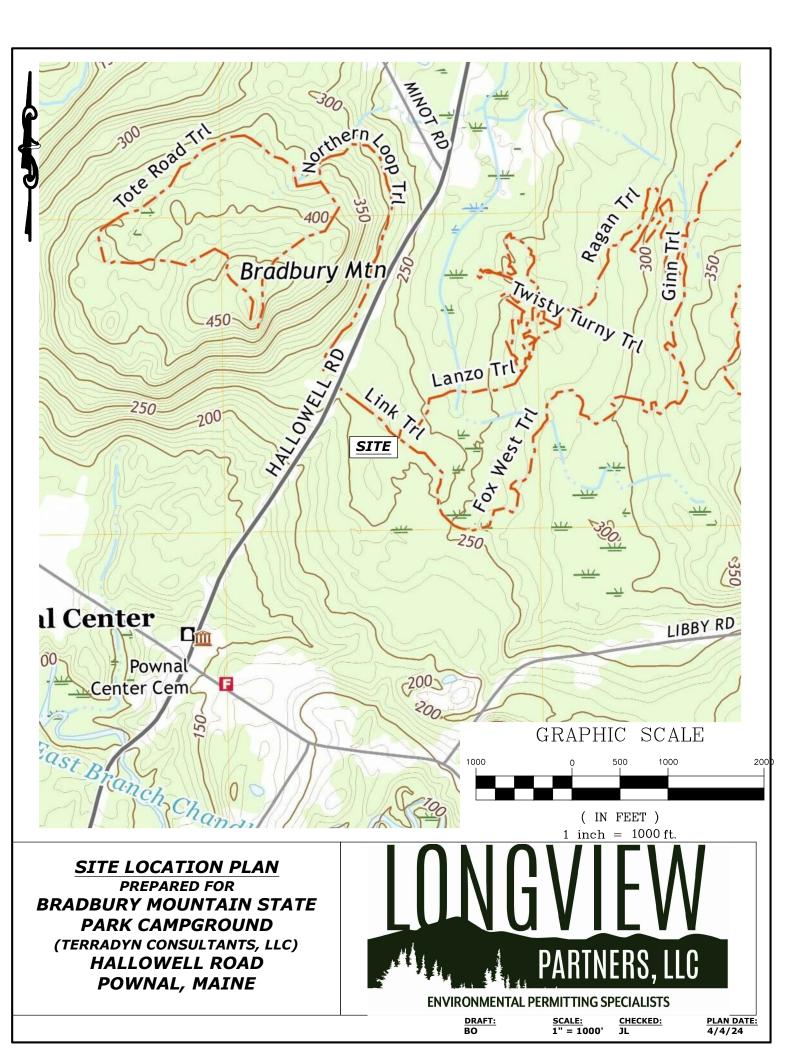


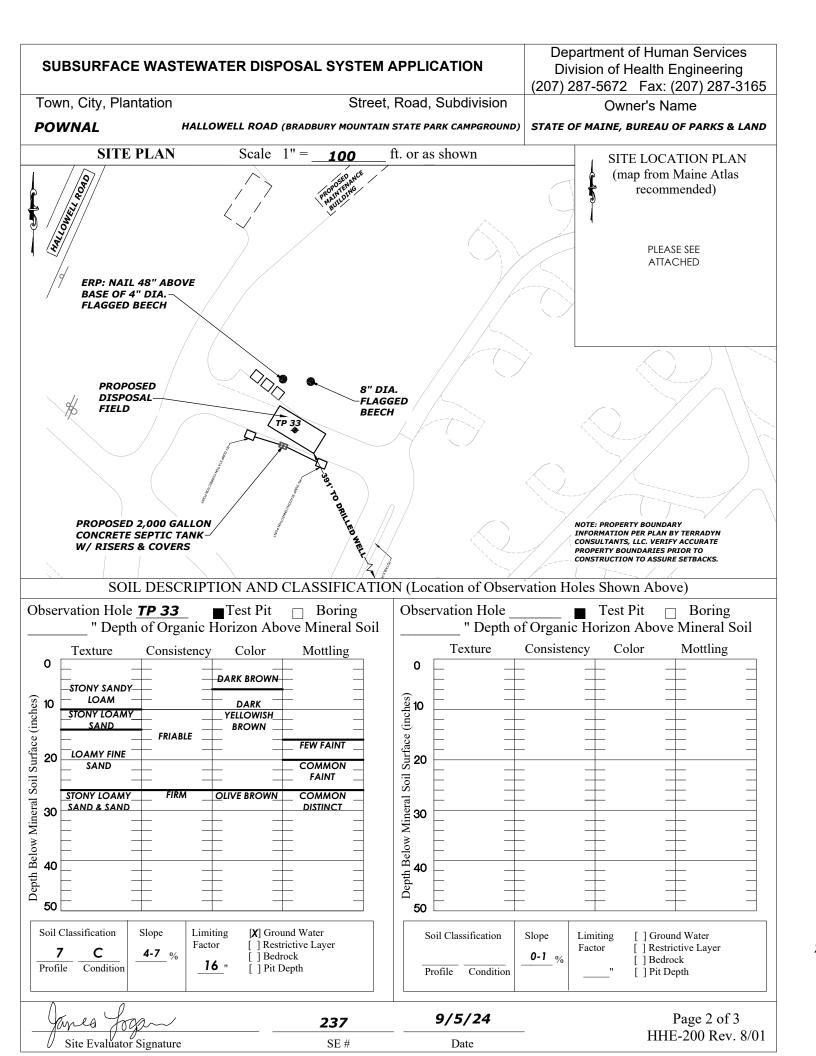
SUBSURFAC	CE WASTE	WATER DISPOSAL SYST	ТЕМ АР	PLICATIO	Ν		Maine Dept.Health & Human Services Div of Environmental Health , 11 SHS (207) 287-5672 Fax: (207) 287-4172
	PROPERTY	LOCATION		>> C/	AUTION: LPI AP	PROVAL RE	QUIRED <<
City, Town, or Plantation	POWNA		Town/C	ity			Permit #
Street or Road	HALLON	IELL ROAD	Date P	ermit issued	// F	-ee: \$	Permit # Double Fee Charged
Subdivision, Lot #	BRADBURY CAMPGROU	MOUNTAIN STATE PARK ND		al Plumbing Inspe			
OWNE	ER/APPLICA	NT INFORMATION					I. ♥ □ Owner □ Town □ State
Name (last, first, Ml) <i>STATE OF MAINE, E</i>	BUREAU OF PARK	Owner .					
	-	Applicant OYN CONSULTANTS, LLC			water Disposal System sh Local Plumbing Inspector		until a
Mailing Address of	565 CONGR	ESS STREET, SUITÉ 201			installer to install the disp		ordance
Owner/Applicant	PORTLAND,	ME 04101	with t	his application an	d the Maine Subsurface V	•	
Daytime Tel. #	207-322-12	-		Municipa		5	Lot # _ P/O 9
I state and acknowledg	derstand that any fal	on submitted is correct to the best of sification is reason for the Department and/o	r		CAUTION: INSPECTIO d the installation authoirze rface Wastewater Disposa	d above and found	
Signa	ature of Owner or A	oplicant Date		Loca	I Plumbing Inspector Signa	ature	(2nd) date approved
		PE	RMIT IN	FORMATIO	N		
	TYPE OF APPLICATION THIS APPLICATION RE 1 Eirst Time System 1 No Pule Variance					SAL SYSTEM	COMPONENTS
1. First Time System 1. No Rule Variance 2. Replacement System 2. First Time System Variance							ywater & alt. toilet)
12. Replacement System 12. First Time System Variance Type replaced: 13. Local Plumbing Inspector Application			nroval			ative Toilet, spe	
D. State & Local Plumbing inspectively				oval		engineered Trea ng Tank,	tment Tank (only) gallons
		3. Replacement System Variance a. Local Plumbing Inspector Application	proval		⊡6. Non-e	engineered Disp	osal Field (only)
3. Expanded System Ia. Local Plumbing Inspector Ap Ia. <25% Expansion			ector Appro	oval		ated Laundry Syllete Engineered	ystem I System (2000 gpd or more)
4. Experimental System 4. Minimum Lot Size Variance 5. Soccopal Conversion 5. Soccopal Conversion				□9. Engineered Treatment Tank (only) □10. Engineered Disposal Field (only)			
5. Seasonal Conversion 5. Seasonal Conversion Permit			11. Pre-treatment, specify:				
SIZE OF PROPERTY DISPOSAL SYSTEM TO SI			RVE 12. Miscellaneous Components				
71+/- Iso. FT. [ACRES] 1. Single Family Dwelling Unit, No. of						UPPLY	
SHORELAND ZONING					II 3. Private		
Yes		(specify)	Ind Undeveloped 24. Public 5. Other				
		Current Use <u>Seasonal</u> Year Rou DESIGN DETAILS (S				: 3)	
TREATMEN	TANKS	DISPOSAL FIELD TYPE & S			ISPOSAL UNIT		DESIGN FLOW
1. Concrete		1. Stone Bed 2. Stone Trench		1. No 2. Yes	3. Maybe	430	gallons per day ED ON:
a. Regular b. Low Profile		3. Proprietary Device a. cluster array c. Linear		If Yes or Maybe, specify one below: a. multi-compartment tank		□1. Table 4A	(dwelling unit(s))
2. Plastic		b. regular load d. H-20 load	b. tanks in se				other facilities) ALCULATIONS for other facilites
3. Other: CAPACITY: 20	00 GAL	I. Other: SIZE: 2688 sq. ft. 1in. ft.	īc. increase in tank d. Filter on Tank (Outlet -CAMPG		ROUND DUMP STATION-
		42 CONCRETE CHAMBER	s	BECOMMENDED 4			ITES @ 10 GPD/SITE
SOIL DATA & D		DISPOSAL FIELD SIZING	G	EFFLUENT/EJE	CTOR PUMP	2 Section 4	C (motor roadings)
	DITION		1.	Not Required			G (meter readings) VATER METER DATA
7 / C at Observation H	_ Jolo # TD 33	1. Medium-2.6 sq. ft. / gpd		. May Be Required	SEE NOTE PAGE 3		TUDE AND LONGITUDE center of disposal area
Depth <u>16</u> "	101e # <u>17 33</u>	2. Medium-Large 3.3 sq. f.t /		Required		Lat. 43	_d <u>54</u> m_ 01 _s
of Most Limiting S	Soil Factor	⊡3. Large4.1 sq. ft. / gpd ⊈. Extra Large-–5.0 sq. ft. / gp	Specify only for engineered systems: Lo			_d _ 10 m _ 38 s e margin of error:	
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-		(date) I completed a site evalu ompliance with the State of Main					
Junea	īν	/	23		9/5/24		· /-
/- /	Evaluator Sigr	nature	SE		Date		
JAME	S LOGAN		207-69	93-8799	longviewpartners	s213@gmail.c	com
Site	Evaluator Nan	ne Printed	Telephor	ne Number	E-mail A	Address	
Note : Changes	to or deviatior	s from the design should be co	nfirmed w	ith the Site E		E-200 Rev. 08/	Page 1 of 3

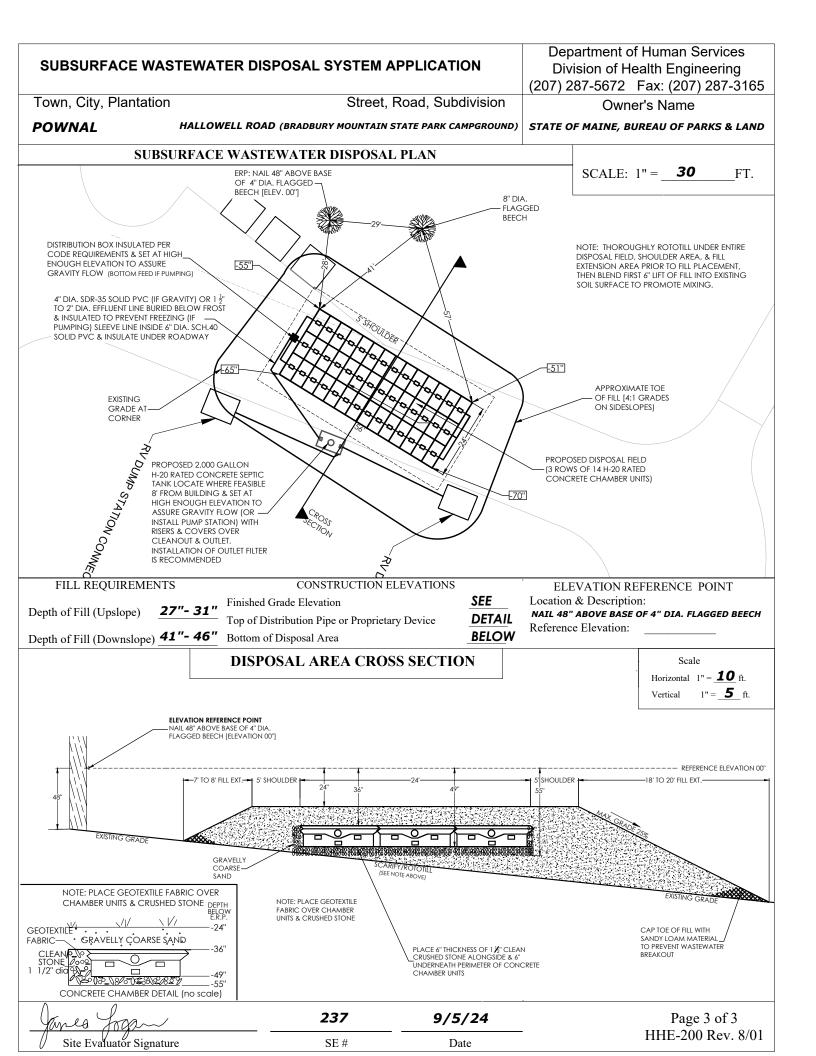
-					Daily	weekiy	Montniy	quarterly
	cubic feet	gallons	# days	avg. gpd	80th percentile	80th percentile 85th percentile 90th percentile		95th percentile
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	104	778.02	06	8.64	б	6	6	10
	27	201.99	06	2.24				
	15	112.22	06	1.25		cubic feet	gallons	
	120	897.72	06	9.97	total	746.00	5580.83	
	109	815.43	06	9.06	average	67.82	507.35	
6-Dec-2021	30	224.43	06	2.49	-			
	11	82.29	06	0.91	To use: Enter the date, number of days, and cubic feet. The gallons and percentiles	imber of days, and cubic	feet. The gallons and perc	centiles
	102	763.06	06	8.48	will be calculated automatically by the spreadsheet. To add more readings, simply	tically by the spreadsheet	. To add more readings, s	simply
	101	755.58	06	8.40	insert additional rows into the spreadsheet. Choose the precentile which corresponds	o the spreadsheet. Choose	e the precentile which con	responds
	17	127.18	06	1.41	to the reading frequency: daily, weekly, monthly, or quarterly.	daily, weekly, monthly, o	r quarterly.	

Water Use Records and Percentile Calculations

rev. 02/2004







1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241* the *Rules*) are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.

2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC's liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.

3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.

5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years**. The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.

6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.

8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.

10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.

11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil are until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.

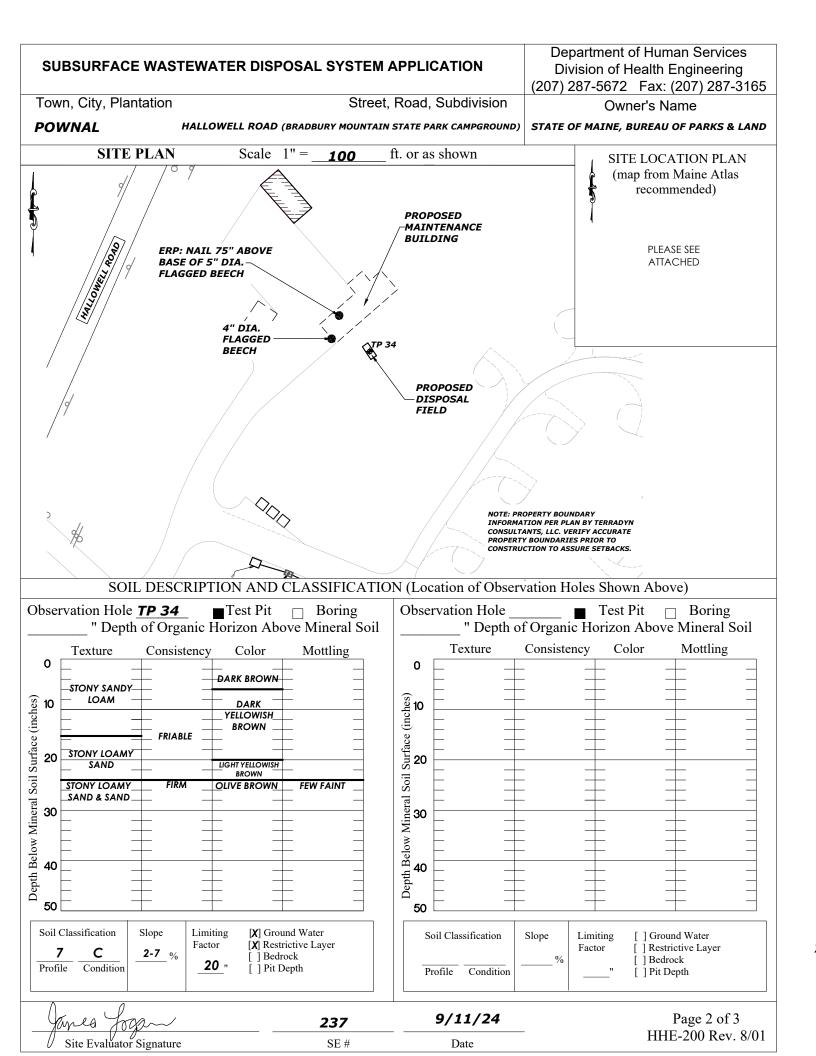
12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.

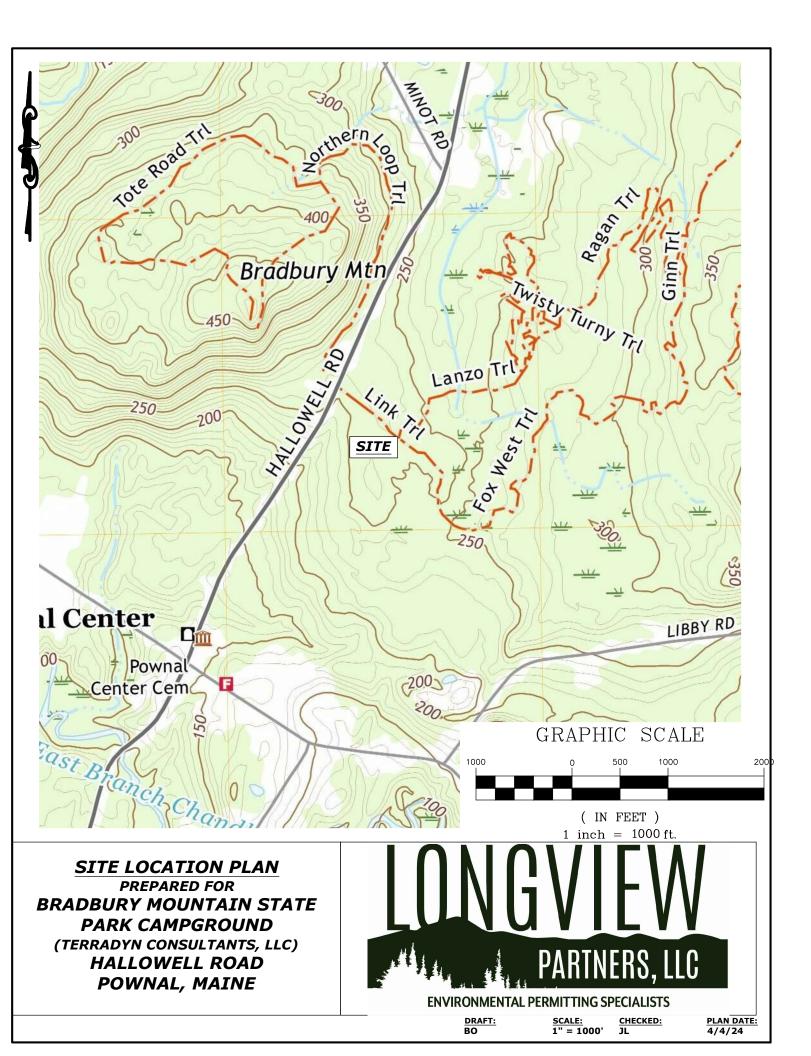
13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.

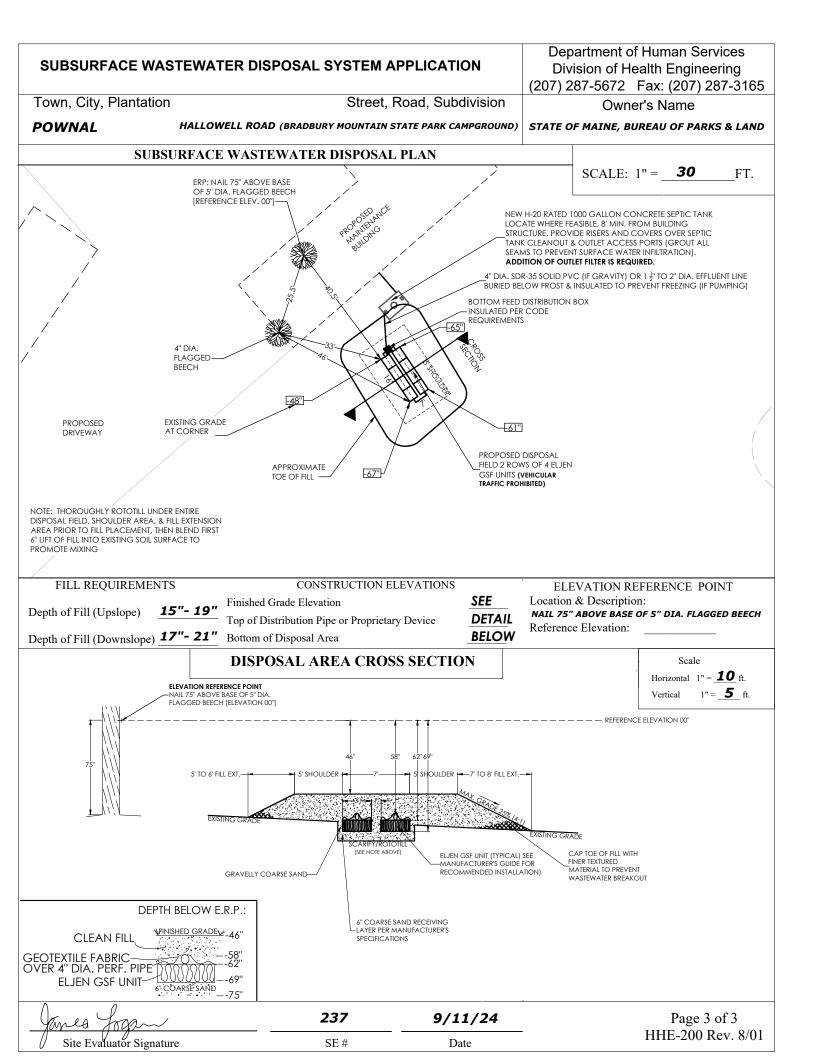
14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.

15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

SUBSURFAC	CE WASTE	WATER DISPOSAL SYS	ГЕМи	APPLICATION			Maine Dept Health & Human Services Div of Environmental Health , 11 SHS (207) 287-5672 Fax: (207) 287-4172
	PROPERTY	LOCATION		>> CA	UTION: LPI AP	PROVAL RE	
City, Town, or Plantation	POWNA	L	Тож	n/City			Permit #
Street or Road	HALLON	/ELL ROAD			_// F	-ee: \$	
Subdivision, Lot #	BRADBURY CAMPGROU	MOUNTAIN STATE PARK		eeel Birmhing Inspect	on Clanob mo		
OWNE			L	.ocal Plumbing Inspect	or signature		I. ♦ □ Owner □ Town □ State
Name (last, first, MI) <i>STATE OF MAINE, E</i>) BUREAU OF PARK	COwner	т	he Subsurface Wastewa	ater Disposal System sh	nall not be installed	until a
Mailing Address of	c/o TERRAL	DYN CONSULTANTS, LLC			ocal Plumbing Inspector		
Owner/Applicant	PORTLAND,	ESS STREET, SUITÉ 201 ME 04101			staller to install the dispo the Maine Subsurface V	-	
Daytime Tel.#	207-322-12	223			Tax Map #	5	Lot # _ P/O 9
I state and acknowledg	derstand that any fa	on submitted is correct to the best of Isification is reason for the Department and/o	r	I have inspected	CAUTION: INSPECTIO the installation authoirze ace Wastewater Disposa	d above and found	
Signa	ature of Owner or A	pplicant Date		Local	Plumbing Inspector Signa	ature	(2nd) date approved
TYPE OF APP		PE THIS APPLICATION RE				SAL SYSTEM	
1. First Time Syst 1. First Time Syst 2. Replacement S Type replaced: Year installed: 3. Expanded System a. 25% Expan b. ≥25% Expan 4. Experimental S 5. Seasonal Conv SIZE OF PRO 71+/- SHORELANI Yes TREATMENT 1. Concrete a. Regular b. Low Profile 2. Plastic 3. Other: CAPACITY: 10	tem System sion System version DPERTY SQ. FT. ACRES D ZONING T TANKS	 No Rule Variance First Time System Variance First Time System Variance Local Plumbing Inspector Apply State & Local Plumbing Inspector Apply Replacement System Variance Replacement System Variance State & Local Plumbing Inspector Apply Multiple Family Dwelling Unit, No. Other: <i>MAINTENANCE BUILDIN</i> (specify) Current Use Seasonal Year Router 	broval 5. Holding Tank, gallons broval 5. Non-engineered Disposal Field (only) broval 7. Separated Laundry System B. Complete Engineered System (2000 g 9. Engineered Treatment Tank (only) 10. Engineered Disposal Field (only) 10. Engineered Disposal Field (only) 11. Pre-treatment, specify: 12. Miscellaneous Components of Bedrooms: TYPE OF WATER SUPPLY Units: 1. Drilled Well 12. Dug Well 3. Private Ind IUndeveloped 4. Public 5. Other 5. Other SYSTEM LAYOUT SHOWN ON PAGE 3) 100 gallons pe BASED ON: 1. Table 4A (dwelling unit(s)) 1. Table 4A (dwelling unit(s)) I. Table 4A (dwelling unit(s)) 2. Table 4C(other facilities) SHOW CALCULATIONS fo Iter on Tank Outlet SHOW CALCULATIONS fo		ered System ywater & alt. toilet) cify: tment Tank (only)gallons psal Field (only) ystem System (2000 gpd or more) nt Tank (only) Field (only) y: onents UPPLY II 3. Private DESIGN FLOW gallons per day ED ON: (dwelling unit(s))		
PROFILE CONE 7 / C at Observation H Depth 20 "	It Observation Hole # TP 34 2. Medium-2.0 sq. ft. / gpd Depth _20_" 3. Large4.1 sq. ft. / gpd Most Limiting Soil Factor 4. Extra Large5.0 sq. ft. / gpd		' gpd	EFFLUENT/EJEC 1. Not Required 2. May Be Required 3. Required Specify only for engine DOSE:	CTOR PUMP 3. Section 4G (meter readings) SEE NOTE ATTACH WATER METER DATA PAGE 3 LATITUDE AND LONGITU neered systems: at center of disposal area .gallons Id		G (meter readings) /ATER METER DATA rUDE AND LONGITUDE center of disposal area _d _54 m _17 s _d _10 m _36 s
_	0/10/27			TOR STATEME			
that the proposed	l system is in c	(date) I completed a site evalu compliance with the State of Main / nature	e Subs				
	S LOGAN				longviewpartners		om
Site	e Evaluator Nar	ne Printed	Telepl	hone Number	E-mail A	Address	
Note : Changes	to or deviatior	ns from the design should be co	nfirme	d with the Site Ev		E-200 Rev. 08/	Page 1 of 3 2011







1. The State of Maine *Subsurface Wastewater Disposal Rules (10-144 Chapter 241* the *Rules*) are incorporated by reference and made a part of this application. These shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer shall contact Longview Partners, LLC (207-693-8799) if there are any questions concerning materials, procedures or the design. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the *Rules* and with all State and municipal laws and ordinances pertaining to the permitting, construction, and inspection of subsurface wastewater disposal systems.

2. This application is intended to represent facts pertinent to the *Rules* only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain other permits under all applicable local, State and/or Federal laws and regulations before installing the system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations, should wet areas exist. Prior to commencement of construction/installation, the Local Plumbing Inspector or Code Enforcement Officer shall inform the owner/applicant and Longview Partners, LLC or any local ordinances which are more restrictive than the *Rules* in order that the design may be amended. All designs are subject to review by local, State and/or Federal authorities. Longview Partners, LLC's liability shall be limited to revisions required by regulatory agencies and based on laws or regulations in effect at the time of preparation of this application.

3. All information shown on this application relating to property lines, well locations, subsurface structures, and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Longview Partners, LLC in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties not readily visible above-grade (such as well points) should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4. Installation of a garbage (grinder) disposal is **not recommended**. If one is installed, an additional 1,000 gallon septic tank shall be connected in series to the proposed septic tank or a septic tank outlet filter shall be installed in the tank outlet. Risers and covers should be installed over the septic tank cleanout and outlet per the *Rules* for easy maintenance of the filter.

5. The septic tank should be pumped within 2 years of installation and subsequently as recommended by the pump service. **In no event should the septic tank be pumped less often than every 3 years**. The system use shall avoid introducing kitchen grease or fats into the system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.

6. All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion within 6" of a finished ground surface. Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

7. The daily wastewater flow, number of bedrooms, or use of structure shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed.

8. The general minimum setbacks between a well (public or private) and septic system serving a single family residence are 100-300 feet, unless the local municipality has a more stringent requirement or a liner seal is installed in the well. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9. When a gravity flow is anticipated, **before construction/installation begins**, the system installer or building contractor shall review the elevation of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pipe pitch requirements.

10. When an effluent pump is required, pump stations should be sized per manufacturer's specifications to meet lift requirements and friction/head loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and cover at or above grade. An alarm device warning of a pump failure shall be installed. Bottom-feed distribution box is specified to prevent freezing. Insulate distribution boxes per the *Rules*.

11. On all systems, remove the vegetation, organic duff and roots, and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on the plan may be necessary to replace organic matter and/or stumps. On sites where the proposed disposal area is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal field and fill extension are to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or different settling). Do not use wheeled equipment on the scarified soil are until after 12 inches of fill is in place. Keep equipment off of proprietary leaching devices. Divert surface water away from the disposal area by ditching or shallow landscape swales.

12. Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process. Refer to the *Rules* for more specific information regarding fill and stone.

13. Seed all filled and disturbed surfaces with perennial grass seed, with 4 inches minimum soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover the system. Woody trees or shrubs are not permitted on the disposal field or fill extensions.

14. If an advanced wastewater treatment unit is part of this design, the system shall be operated and maintained per manufacturer's specifications.

15. Effluent (backwash) from water treatment units **SHALL NOT** be disposed of within this disposal system and **MUST** be redirected away from the disposal field

Janet T. Mills Governor

Jeanne M. Lambrew, Ph.D. Commissioner



APPLICATION FOR ENGINEERED SUBSURFACE WASTEWATER DISPOSAL SYSTEM

Please complete the following Sections. Please print or type.

Applicant/Owner

Company Name: Contact Person:			
Address:			
Town/City:	_ State/Province:	Zip/Postal Code:	
Country:			
Telephone:	Fax:		
e-mail:		-	
Design Engineer			
Company Name:			
Contact Person:			
Address:			
Town/City:	State:	Zip Code:	
Telephone:	Fax:		
e-mail:		-	
1. Property Location			
Town/City:	County:		
Tax Map and Lot Number: Map	Lot		

Attach as "Exhibit A" a copy of the relevant section of the USGS 7.5' topographic map, if available, or 15' topographic map showing the location of the proposed engineered disposal system.

2. Project Description

Provide a brief written description of the proposal. Use a separate sheet if necessary.

3. Design Flow

The design flow for this project is: ______ gallons per day. Provide design flow calculations and assumptions used in the calculations. Use a separate sheet if necessary.

4. Mounding Analysis

Submit as "Exhibit B" an analysis of the proposed system design showing that there is adequate vertical separation between the bottom of the disposal field and any mounded water table. Include all calculations and assumptions used.

5. Transmissivity Analysis

Submit as "Exhibit C" an analysis of the proposed system design showing that there are sufficient suitable soils down-gradient to prevent the effluent from surfacing within 50 feet of the disposal field. Include all calculations and assumptions used.

6. HHE-200 and Variance Form(s)

Submit as "Exhibit D" a complete HHE-200 Form, and variance forms if applicable, signed by a Professional Engineer. The design engineer may reference associated plans and soil test pit logs on pages 2 and 3 of the HHE-200 Form.

This project requires:

a First Time System Variance to the Maine Subsurface Wastewater Disposal Rules.

a Replacement System Variance to the Maine Subsurface Wastewater Disposal Rules.

no variance to the Maine Subsurface Wastewater Disposal Rules.

7. Operations and Maintenance Manual

Submit as "Exhibit E" an operations and maintenance manual for the owner with written recommendations for the operation and maintenance of the system, including inspection schedules, pumping schedules, and record keeping procedures.

8. Soil and Site Conditions

Submit as "Exhibit F" soil test pit logs prepared by a licensed Site Evaluator. The test pits shall be of sufficient number to accurately describe the site conditions under the proposed disposal area and the down gradient fill extension.

9. Plans

Submit as "Exhibit G" plans for the proposed engineered disposal system meeting provisions of Section 1102 of the Maine Subsurface Wastewater Disposal Rules. Two sets of plans are required, or one set of plans and one set of copies no larger than 11" x 17". Plans may be submitted for review purposes in digital format.

The plans must specify the latitude and longitude of the center of the disposal area(s), expressed as degrees, minutes, and seconds. If this data is obtained from an electronic GIS device, provide the device's margin of error.

10. Review Fee

١,

Submit a check or money order in the amount of \$100.00 U.S. made payable to the Treasurer of the State of Maine.

(print name)

_____, am the design engineer for the subject design.

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department to deny the project.

Signature of Design Engineer

P.E. License Number

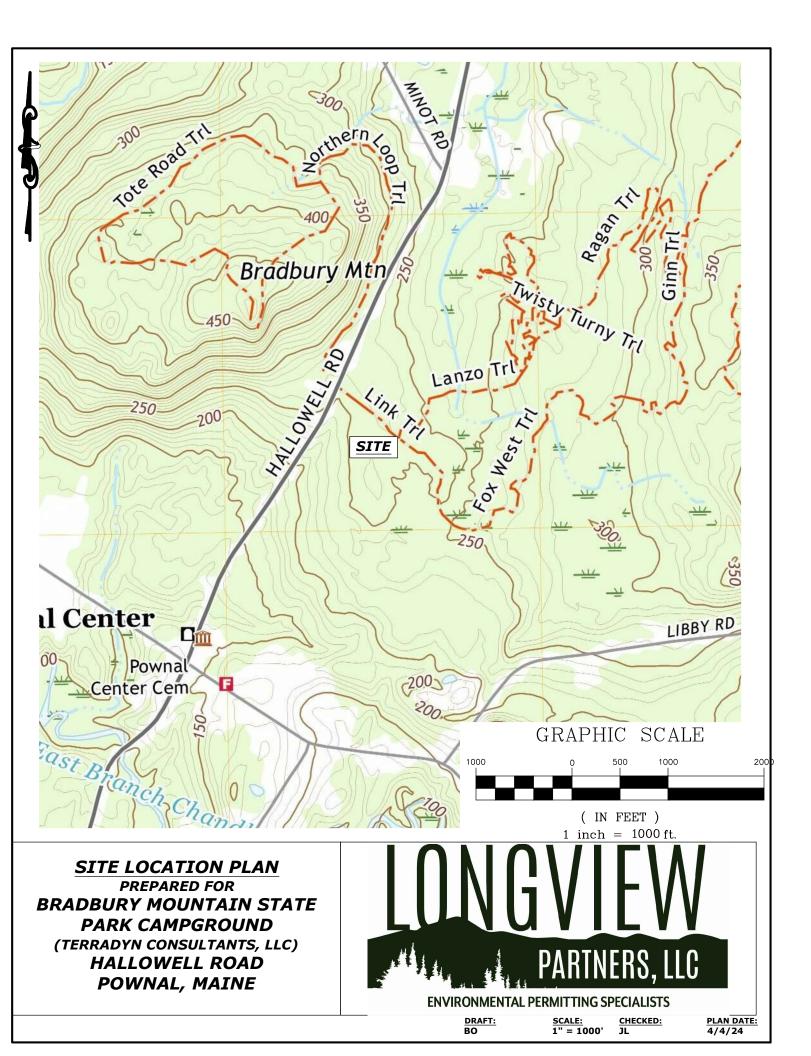
Date

HHE-220 04/2019 Terradyn Consultants, LLC Bradbury Mountain State Park Campground Hallowell Road Pownal, Maine

<u>Exhibit A</u>

Site Location Plan





Terradyn Consultants, LLC Bradbury Mountain State Park Campground Hallowell Road Pownal, Maine

<u>Exhibit B</u>

Mounding Analysis



Bradbury Mountain State Park Campground Disposal Field Water Mounding and Transmissivity Analysis

Prepared for Mark Cenci Geologic INC. Prepared by Brian Flynn, P.E. May 25th, 2024 Revised August 8th, 2024



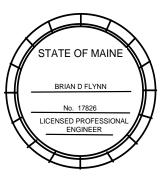


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SUMMARY

A water mounding and transmissivity analysis has been conducted for the Bradbury State Park Campground's new wastewater disposal field. The results of this analysis have confirmed that a separation bed of 2' minimum will be maintained between the existing peak mounded ground water table and the base of the proposed chamber crushed stone bedding. It has also been confirmed that wastewater will not surface down gradient from the disposal field.

PURPOSE

At the request of Mark Cenci Geologic, a water mounding analysis has been conducted for the Bradbury Mountain State Park Campground. The purpose of the water analysis is to determine how the proposed wastewater disposal field will affect the water table elevation. Water table mounding was analyzed using the Hantush (USGS Investigation Report 2010-5102) method in the longitudinal (N-S) and transverse (E-W) directions. A factor of safety of 3 was applied to all peak water mounding elevations. Following results from the water mounding analysis, the wastewater transmission beyond the limits of the disposal field was investigated.

REFERENCE DOCUMENTS

- https://pubs.usgs.gov/sir/2010/5102/support/Hantush_USGS_SIR_2010-5102-1110.xlsm
- HydroGeoSieveXL
- 'Scan 0786' sent to Brian Flynn from Mark Cenci Geologic on 5/16/24, document included gradation reports for TP12 and 15, calculated daily discharge, system application, test pit reports, and the proposed disposal field drawings.

ANALYSIS METHODOLOGY AND ASSUMPTIONS

The USGS spreadsheet for solving the Hantush equation (1967) for water mounding under an infiltration basin was used for ground water plotting. The following assumptions were made;

- Both disposal field chamber systems (32 ft X 80 ft) were treated as a single system with dimensions 32 ft X 160 ft. This assumption is conservative because the footprint of the two systems is larger than 32 ft X 160 ft.
- Waste water is discharged equally along the foot print of the disposal field.
- The total daily waste water flow occurs constantly over the course of a 14-hour period (between the hours of 0600 and 2000).
- After analysis of all gradations, the most conservative value for the horizontal hydraulic conductivity will be used (Test Pit #15).
- Test pits showed free water between depths of 22 in. and 34 in. The water table used for analysis will be 22 in. below the existing grade.
- The bottom of the disposal field system is, on average, 10 in. above the existing grade.
- The water table depth at the time of test pit excavation is assumed peak (04/04/2024).
- A daily discharged rate of 3000 GPD (410 cf/day) was used.

The following is a description of variables used for the spreadsheet.

Bradbury Mountain State Park Campground Disposal Field Water Mounding and Transmissivity Analysis Prepared by Brian Flynn for Marc Cenci Geologic, INC.

Recharge/Infiltration Rate (R):

$$R = \frac{Daily Flow \left(\frac{ft^3}{day}\right)}{Surf A of LF(ft^2)} = \frac{410}{5120} \frac{ft}{day} = 0.0801 \frac{ft}{day}$$

Specific Yield (S_y) :

 S_y ranges from 15% to 32% for medium sands (USGS Water Supply Paper 1662-D), see the attached documents for soil classifications. 15% will be used as a conservative value for specific yield.

Horizontal Hydraulic Conductivity (K_H):

HydroGeoSieveXL (Devlin, J.F. 2015) was utilized to compute the conductivity using 10 different industry approved methods for Test Pit #15. See the printout attached for a summary of the applicable equations used. The geometric mean value was used (39 ft/day) as data sets showed a wide variation. This hydraulic conductivity is assumed constant over the entire site.

Basin Dimensions (x and y):

When computing water table mounding in the N-S direction, x was input as 160/2 ft and y as 32/2 ft. The opposite was used for the E-W direction. See attached for a sample printout of the spreadsheet.

Duration of Infiltration Period (t):

The duration of infiltration period is 14 hours or 0.583 days, this assumes the daily wastewater flow occurs between the hours of 0600 and 2000.

Initial Thickness of Saturated Zone $(h_i(0))$

The initial thickness of the saturated zone is the distance from the bottom of the infiltration system to the top of the water table. The water table is assumed to be 22 in. below the existing grade. The bottom of the crushed stone bedding material for the disposal field is assumed to be 10 in. above the existing grade. This elevation was determined using the mid-point of the cross section provided. Therefore, the distance from the bottom of the disposal field to the assumed water table is 32 in. or 2.667 ft.

RESULTS

Below are graphs representing the estimated water mounding in the N-S and E-W directions for the disposal field. All values for water mounding have been increased by a safety factor of 3. It can be seen

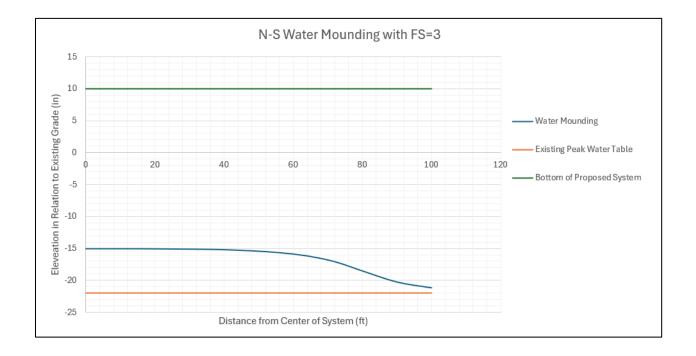
Page 2

Bradbury Mountain State Park Campground Disposal Field Water Mounding and Transmissivity Analysis Prepared by Brian Flynn for Marc Cenci Geologic, INC.

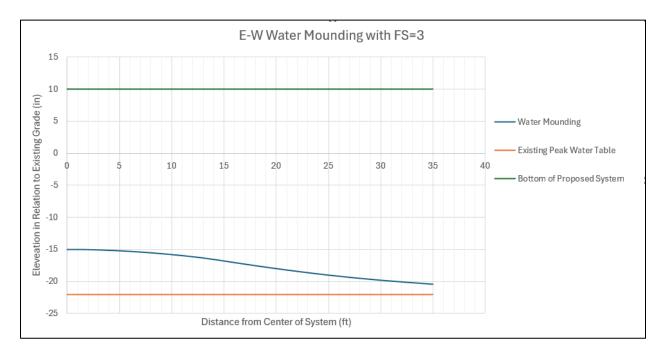
Page 3

from both graphs that the maximum water table mounding is 7 inches (0.6 feet) at the center of the disposal field. This leaves a separation bed of 25 inches (2.1 feet) between the base of the crushed stone bedding and the mounded water table. Based on the typical cross sections provided for this analysis, all water mounding will be confined to existing soils.

Site Transmission Analysis, as outlined in Section 10.A.2.i of the Maine Subsurface Wastewater Disposal Rules, confirms that wastewater will not prematurely surface down gradient from the proposed disposal field. It can be seen from the graphs that the wastewater has no effect on the water table elevation at the edge of the disposal field shoulders. Therefore, all wastewater is absorbed into the water table and will not surface down gradient from the disposal field. Based on the high conductivity of the existing soils it can be concluded that wastewater can be readily absorbed into the existing soils without water surfacing at the base of the shoulders.



Bradbury Mountain State Park Campground Disposal Field Water Mounding and Transmissivity Analysis Prepared by Brian Flynn for Marc Cenci Geologic, INC.



This spreadsheet will calculate the height of a groundwater mound beneath a stormwater infiltration basin. More information can be found in the U.S. Geol Survey Scientific Investigations Report 2010-5102 "Simulation of groundwater mounding beneath hypothetical stormwater infiltration basins".

The user must specify infiltration rate (R), specific yield (Sy), horizontal hydraulic conductivity (Kh), basin dimensions (x, y), duration of infiltration period (t), initial thickness of the saturated zone (hi(0), height of the water table if the bottom of the aquifer is the datum). For a square basin the half width equals the length (x = y). For a rectangular basin, if the user wants the water-table changes perpendicular to the long side, specify x as the short dimension and y as the dimension. Conversely, if the user wants the values perpendicular to the short side, specify y as the short dimension. X as the long dimension. All distances a the center of the basin. Users can change the distances from the center of the basin at which water-table aquifer thickness are calculated.

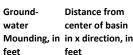
Cells highlighted in yellow are values that can be changed by the user. Cells highlighted in red are output values based on user-specified inputs. The user MI the blue "Re-Calculate Now" button each time ANY of the user-specified inputs are changed otherwise necessary iterations to converge on the correct soluti not be done and values shown will be incorrect. Use consistent units for all input values (for example, feet and days)

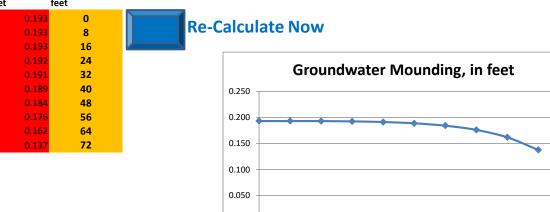
Input	Values		use consistent units (e.g. feet & days or inches & hours)	Convei inch/h	sion Table our feet/c	lay
	0.0801	R	Recharge (infiltration) rate (feet/day)		0.67	1.33
	0.150	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
	39.00	К	Horizontal hydraulic conductivity, Kh (feet/day)*		2.00	4.00 In the report accompan
	80.000	x	1/2 length of basin (x direction, in feet)			(USGS SIR 2010-5102), v
	16.000	У	1/2 width of basin (y direction, in feet)	hours	days	permeability (ft/d) is as
	0.583	t	duration of infiltration period (days)		36	1.50 horizontal hydraulic cor
	2.667	hi(0)	initial thickness of saturated zone (feet)			

maximum thickness of saturated zone (beneath center of basin at end of infiltration period)

maximum groundwater mounding (beneath center of basin at end of infiltration period)







0.000

0

Disclaimer

This spreadsheet solving the Hantush (1967) equation for ground-water mounding beneath an infiltration basin is made available to the general public as a convenience for those wishing to replicate values documented in the USGS Scientific Investigations Report 2010-5102 "Groundwater mounding beneath hypothetical stormwater infiltration basins" or to calculate values based on user-specified site conditions. Any changes made to the spreadsheet (other than values identified as user-specified) after transmission from the USGS could have unintended, undesirable consequences. These consequences could include, but may not be limited to: erroneous output, numerical instabilities, and violations of underlying assumptions that are inherent in results presented in the accompanying USGS published report. The USGS assumes no responsibility for the consequences of any changes made to the spreadsheet. If changes are made to the spreadsheet, the user is responsible for documenting the changes and justifying the results and conclusions.

10

20

30

40

50

60

70

80

mass fraction (mf)	T (°C) Percent Passing (pp)		100 75 50 25		p o s o		Poorly sorted gravelly sand low in fines				
0	100						Effective Grain Diameters (mm)		Other Useful Paramet		
0	100						d10	0.102	Uniformity Coef.	12.72	
0	100		25	/			d17	0.250	n computed	0.278844	
0	100		0 23				d20	0.303	g (cm/s ²)	980.00	
0	100			ø			d50	0.850	ρ (g/cm³)	0.9981	
0	100		G				d60	1.292	μ (g/cm s)	0.0098	
0.05	95		0 0.001 0.01 0.1	1	10	100 1000	d _{geometric mean}	1.169	ρg/μ (1/cm s)	9.9327E+04	
0.02	93		0.001 0.01 0.1	GRAIN SIZE (M		100 1000	de (Kruger)	0.709	tau (Sauerbrei)	1.053	
0	93			(,		de (Kozeny)	0.637	d5 _¢	-4.569	
0.03	90						de (Zunker)	0.660	$d16_{\phi}$	-2.120	
0.02		-	Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de (Zamarin)	0.684	$d50_{\phi}$	-0.234	
0.12	-		Hazen	.731E-02	.731E-04	6.318	Io (Alyameni)	-0.085	$d84_{\phi}$	1.939	
0.26	50		Hazen K (cm/s) = d ₁₀ ² (mm ²)	.103E-01	.103E-03	8.921	35		d95 _¢	4.644	
0.23	27	✓	Slichter	.154E-02	.154E-04	1.332	30		σ_{ϕ}	2.411	
0.1	17	1	Terzaghi	.237E-02	.237E-04	2.051	25	mm		% in sample	
0.05	12	1	Beyer	.850E-02	.850E-04	7.347		>64	Boulder	0	
0.031	8.9	~	Sauerbrei	.102E-01 .117E+00	.102E-03 .117E-02	8.830 100.685	20	16 - 64 8 - 16	coarse gravel	7 0.000	
		✓	Kruger Kozeny-Carmen	.117E+00 .139E+00	.117E-02 .139E-02	120.376	15	8 - 16 2 - 8	medium gravel fine gravel	17.000	
		¥	Zunker	.139L+00	.100E-02	86.610	10	0.5 - 2	coarse sand	26.000	
		√	Zamarin	.123E+00	.123E-02	106.429	5	0.25 - 0.5	medium sand	33.000	
			USBR	.305E-01	.305E-03	26.332		0.063 - 0.25	fine sand	8.100	
		✓	Barr	.172E-02	.172E-04	1.485	Boulder e gravel n gravel e gravel im sand im sand arse silt fine silt clay	0.016 - 0.063	coarse silt		
		✓	Alyamani and Sen	.671E-02	.671E-04	5.796	Boulder coarse gravel fine gravel fine gravel nedium sand fine sand coarse sand coarse sand fine sand coarse sand coarse sand fine sand coarse sand fine sand	0.008 - 0.016	medium silt		
			Chapuis	.138E-02	.138E-04	1.194	fi fi med	0.002 - 0.008	fine silt		
		✓ _	Krumbein and Monk	.433E-01	.433E-03	37.374	<u> </u>	<0.002	clay		
			geometric mean	.139E-01	.139E-03	.120E+02	_				
			arithmetic mean	.437E-01	.437E-03	.378E+02					

Mass Sample (g):

Mass of

retained (mr)

(g)

0

0

0

0

0

0

5

2

0

3

2

12

26

23

10

5

3.1

Sieve

opening

(ps)

d ; (mm)

150

125

100

75

50

25

19

6.3

2

12.5

4.75

0.85

0.425

0.25

0.15

0.075

38.1

opening

d _i (φ)

7.2231

6.960273

6.6386

6.223891

5.639391 5.247564

4.640182

4.244567

3.640973

2.653251

2.246149

0.999209

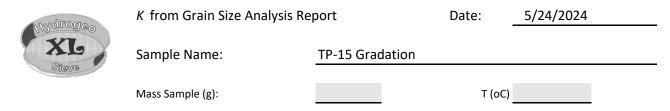
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-1.23349

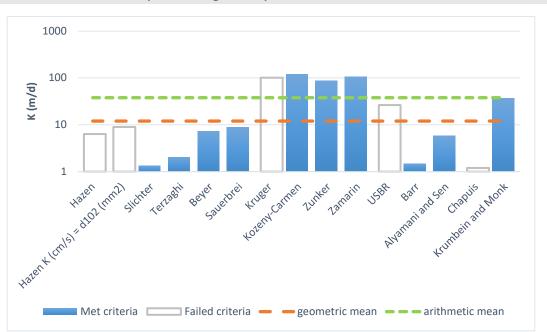
-1.99842

-2.7348

-3.73401



Poorly sorted gravelly sand low in fines



stimation of Hydraulic Conductivity	cm/s	m/s	m/d	de	
Hazen	.731E-02	.731E-04	6.32		
Hazen K (cm/s) = d ₁₀ (mm)	.103E-01	.103E-03	8.92		
Slichter	.154E-02	.154E-04	1.33		
Terzaghi	.237E-02	.237E-04	2.05		
Beyer	.850E-02	.850E-04	7.35		
Sauerbrei	.102E-01	.102E-03	8.83		
Kruger	.117E+00	.117E-02	100.68		
Kozeny-Carmen	.139E+00	.139E-02	120.38		
Zunker	.100E+00	.100E-02	86.61		
Zamarin	.123E+00	.123E-02	106.43		
USBR	.305E-01	.305E-03	26.33		
Barr	.172E-02	.172E-04	1.49		
Alyamani and Sen	.671E-02	.671E-04	5.80		
Chapuis	.138E-02	.138E-04	1.19		
Krumbein and Monk	.433E-01	.433E-03	37.37		
geometric mean	.139E-01	.139E-03	12.03	39.45	ft/day
arithmetic mean	.437E-01	.437E-03	37.76	123.87	ft/day

Exhibit C

Transmissivity Analysis - included in Exhibit B: Mounding Analysis

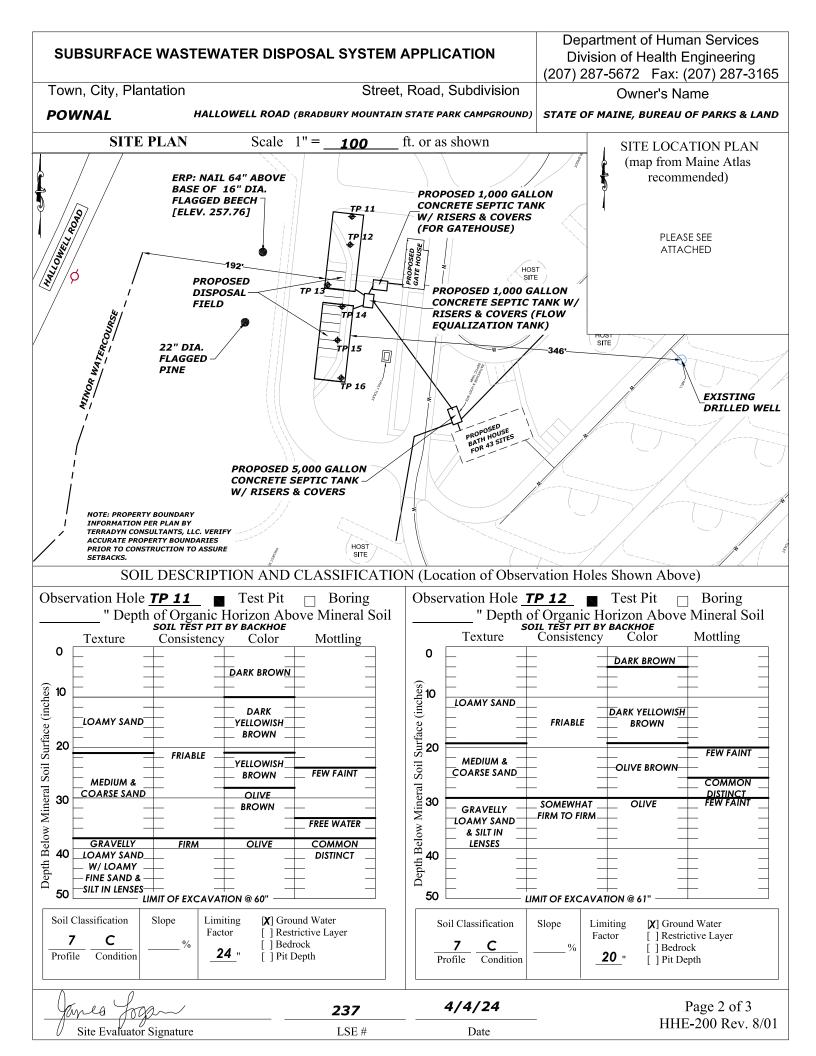


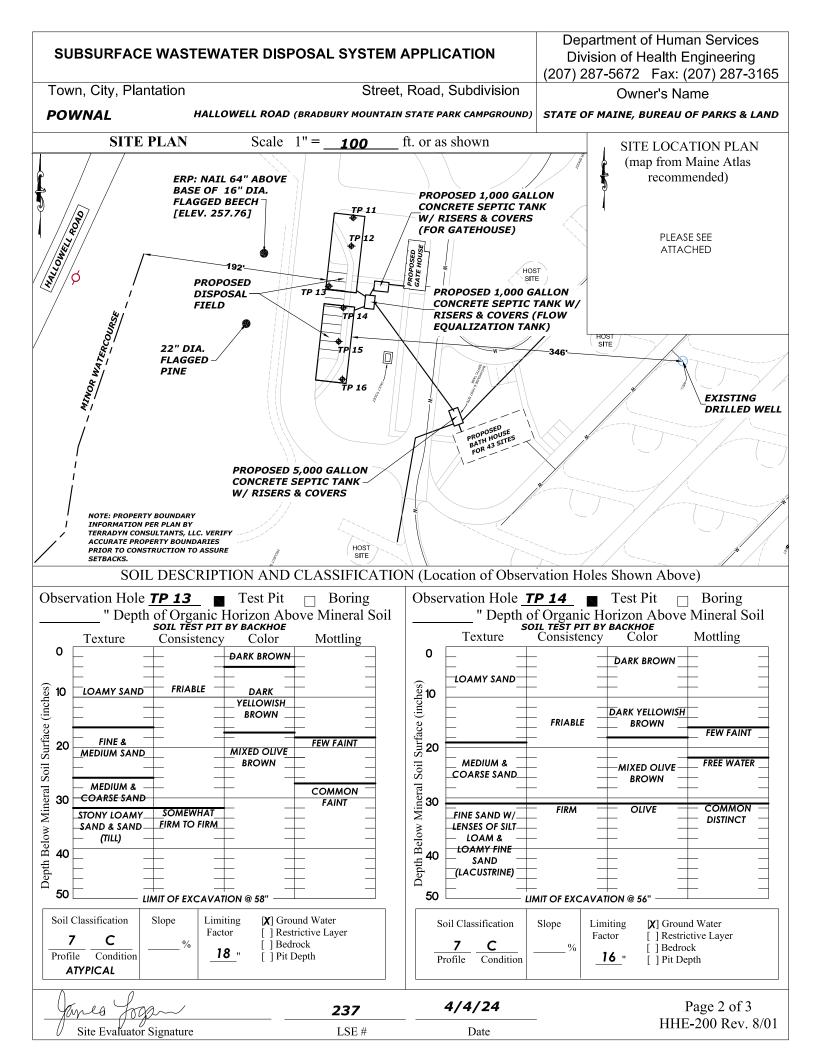
<u>Exhibit D</u>

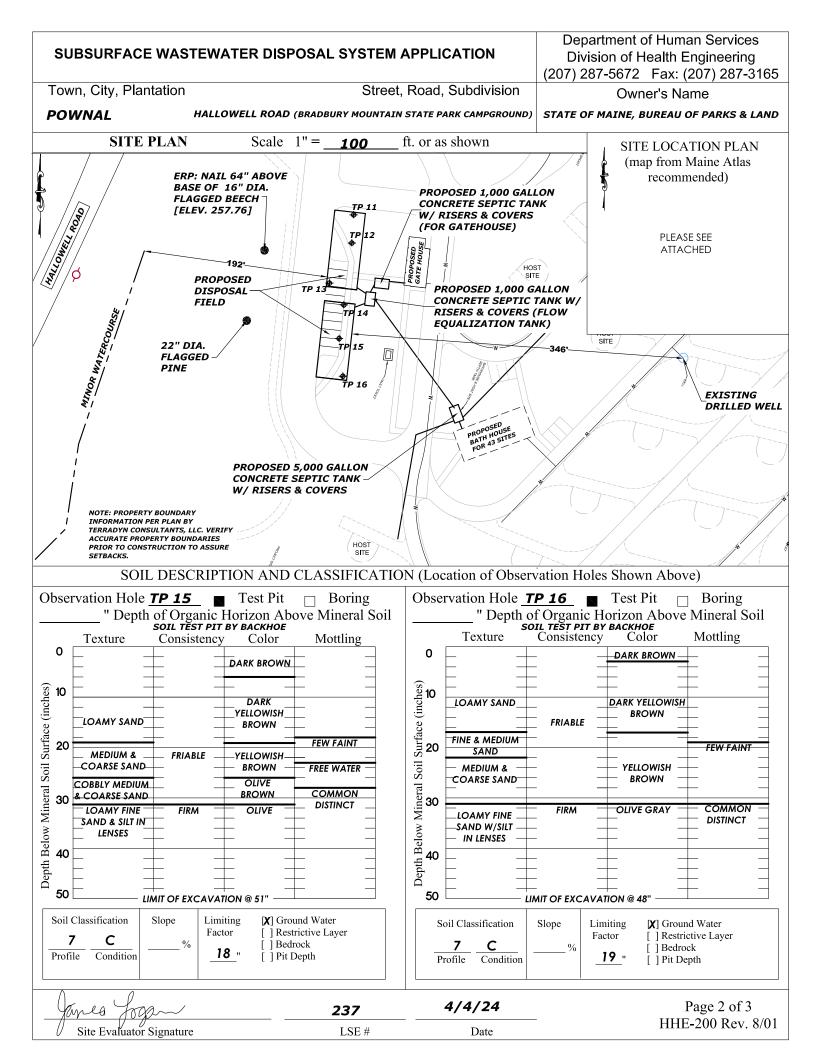
HHE-200 Form by Longview Partners

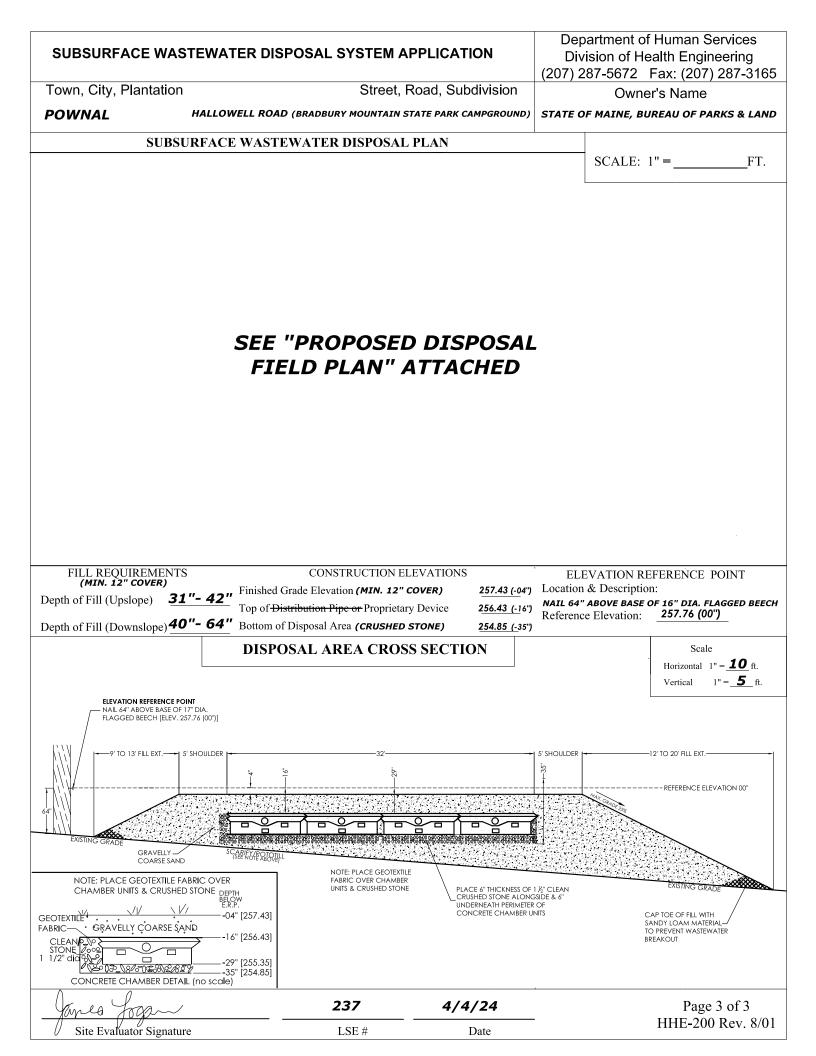


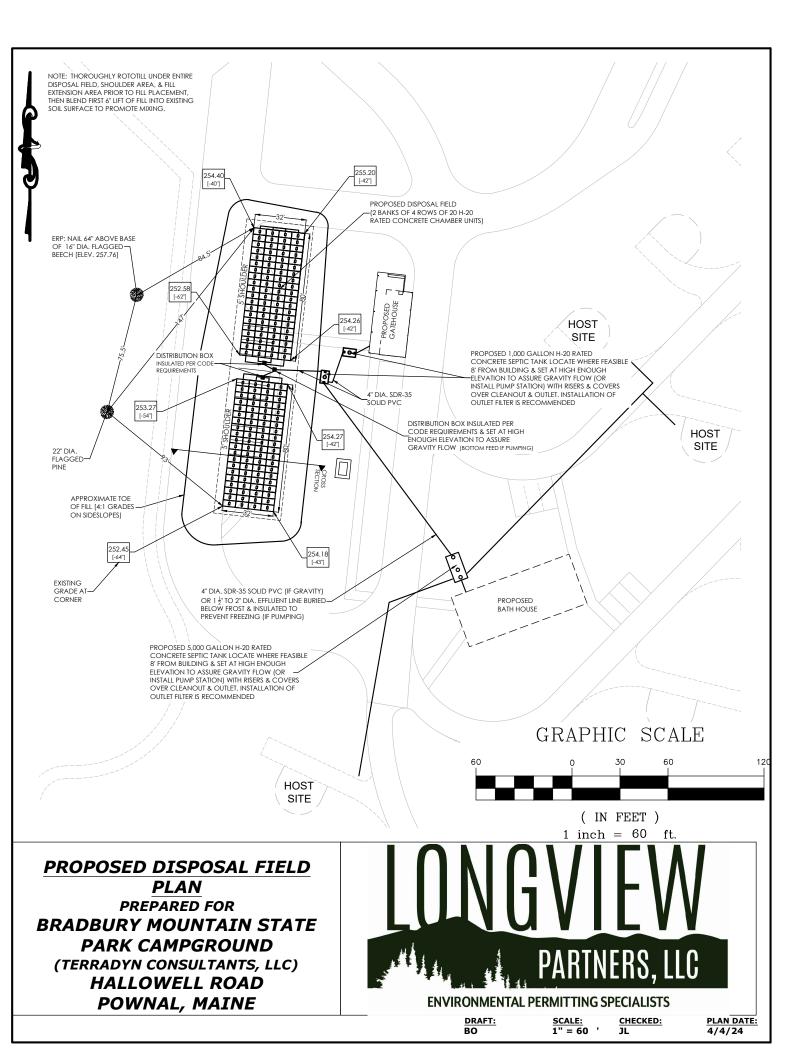
SUBSURFAC		WATER DISPOSAL SYST		PPLICATION			Maine Dept Health & Human Services Div of Environmental Health , 11 SHS (207) 287-5672 Fax: (207) 287-4172
	PROPERTY	LOCATION		>> CAI	JTION: LPI AP	PROVAL RE	
City, Town, or Plantation	POWNAL	<u>-</u>	Town/	Citv			Permit #
Street or Road	HALLOW	ELL ROAD	Date	Permit Issued	_// F		Permit # Double Fee Charged
Subdivision, Lot #		MOUNTAIN STATE PARK	· · ·				
		ND INFORMATION	Loc	cal Plumbing Inspecto	or Signature		. •
Name (last, first, MI)		Owner				[Owner Down Distate
STATÈ OF MAINE, B	-	Applicant			iter Disposal System sh		until a
		DYN CONSULTANTS, LLC ESS STREET, SUITE 201			cal Plumbing Inspector. staller to install the dispo		ordance
Owner/Applicant	PORTLAND,	ME 04101	with	this application and t	he Maine Subsurface W	•	
Daytime Tel. #	207-322-12	23		Municipal [•]	Тах Мар 🕈	5	Lot # <u>P/O 9</u>
I state and acknowledg	lerstand that any fal	on submitted is correct to the best of sification is reason for the Department and/or	r	I have inspected	CAUTION: INSPECTIO the installation authoirze ice Wastewater Disposal	d above and found i	
Signa	ature of Owner or Ap	,			Plumbing Inspector Signa	ature	(2nd) date approved
				NFORMATION	BIACO		
TYPE OF APF		THIS APPLICATION RE	QUIRES			SAL SYSTEM (lete Non-engine	
2. Replacement S		2. First Time System Variance					ywater & alt. toilet)
Type replaced:	-	a. Local Plumbing Inspector Ap b. State & Local Plumbing Inspe	proval	roval		ative Toilet, spe ngineered Treat	ment Tank (only)
Year installed:		3. Replacement System Variance		ovar		ig Tank, ngineered Dispo	
3. Expanded Syst a. <25% Expans b. ≥25% Expans	tem sion sion	a. Local Plumbing Inspector Ap b. State & Local Plumbing Inspe	proval ector Appr	roval	⊡7. Separ	ated Laundry Sy	
4. Experimental S	System	4. Minimum Lot Size Variance			9. Engir	eered Treatmer	nt Tank (only)
5. Seasonal Conv	version	5. Seasonal Conversion Permit				eered Disposal eatment, specify	
SIZE OF PRO	DPERTY	DISPOSAL SYSTEM TO SE				ellaneous Compo	
71+/-	SQ. FT.	1. Single Family Dwelling Unit, No. 2. Multiple Family Dwelling, No. of			TYP	E OF WATER S	UPPLY
SHORELANI		3. Other: CAMPGROUND-43 SIT & GATEHOUSE W/ 2 E	TES, 3 "H	IOST" SITES,	L	ell 2. Dug We	II 3. Private
Yes	No	Current Use Seasonal Year Rou			4. Public		
		DESIGN DETAILS (S					DESIGN FLOW
TREATMENT 1. Concrete a. Regular b. Low Profile 2. Plastic 3. Other: CAPACITY: 7,000 & (2)	9 <u>00 </u> GAL. 2) 1,000s	DISPOSAL FIELD TYPE & S 1. Stone Bed 2. Stone Trench 3. Proprietary Device a. cluster array c. Linear b. regular load d. H-20 load 4. Other: SIZE: <u>10,240</u> sq. ft. ilin. ft. 160 CONCRETE CHAMBER	-	GARBAGE DIS 1. No 2. Yes If Yes or Maybe, s a. multi-compartm b tanks in se c. increase in tank d. Filter on Tank C	3. Maybe pecify one below: nent tank ries < capacity	2,979 BAS 1. Table 4A (2. Table 4C(SHOW CA 43 SITES SEF GP	gallons per day ED ON: (dwelling unit(s)) other facilities) ALCULATIONS for other facilites -CAMPGROUND- RVED BY CENTRAL TOILET @ 60 PO/SITE (2,580 GPD) TES @ 125 GPD/SITE (375 GPD)
SOIL DATA & DI PROFILE COND		DISPOSAL FIELD SIZING	G	EFFLUENT/EJECT		2 EMPLOYEES	-GATEHOUSE- @ 12 GPD/EMPLOYEE (24 GPD)
<u>7 / C</u>]. Medium-—2.6 sq. ft. / gpd	[L	I. NOL REQUIRED	SEE NOTE ON PAGE 3	-	+ 375 + 24 = 2,979 GPD IUDE AND LONGITUDE
at Observation ⊦	lole # TP 14	2. Medium-Large 3.3 sq. f.t /		 May be Required Required 		ato	center of disposal area d 53 m 58 s
Depth <u>16</u> "		3. Large4.1 sq. ft. / gpd		Specify only for engine	ered systems:		_dms _dm40s
of Most Limiting S	Soll Factor	⊠4. Extra Large-–5.0 sq. ft. / gp	bd I	DOSE:g	allons	if g.p.s, state	margin of error:
		SITE EVA	ALUATO	OR STATEME	NT		
		(date) I completed a site evalu ompliance with the State of Maine				10-144A CMR	241).
Junea	Joga-	237 4/4/24		Ulli	ne me	14252	8/12/24
1/	Evaluator Signatu LOGAN	re LSE # Da 207-693-8799		Profession Wiewpartners2	nal Engineer Signature 1<i>3@gmail.com</i>	e #	Date
Site Ev	aluator Name Prii	s from the design should be cor		E-mail Add	lress	-200 Rev. 08/	Page 1 of 3 2011











<u>Exhibit E</u>

Operations & Maintenance Manual





ENVIRONMENTAL PERMITTING SPECIALISTS

Wastewater Disposal System Operations & Maintenance

prepared for

Bradbury Mountain State Park

Campground

(for Terradyn Consultants, LLC) Hallowell Road Pownal, Maine April 2024

Subsurface Wastewater Disposal System Operations and Maintenance Manual Bradbury Mountain State Park Campground

Pownal, Maine

Operations and Maintenance Requirements:

Septic Tanks

The Campground is to be served by, (1) 5,000 gallon and (2) 1,000 gallon concrete septic tanks. Tanks shall be pumped annually, and all septic tank outlets shall be fitted with effluent filters (Zabel or equivalent). These shall be inspected, cleaned, and replaced with every pumping.

• Risers and covers shall be installed to ground surface over the inlet, outlet, and middle covers of all septic tanks. All connections should be inspected to assure watertightness.

• Check scum thickness and sludge thickness in each tank annually.

• The tanks shall pumped at least once per year. Otherwise, if the sludge depth exceeds 24" or scum thickness exceeds 12", pumping should occur as needed. Proof of pumping is required, and shall be maintained by the Owner

• Inlet and outlet baffles to be inspected for integrity and obstructions at least once annually.

Chamber Areas

• At least one riser shall be provided for each bank of chambers and over the distribution box for access to evaluate liquid levels in the future

• Mow top of chamber area, 5' shoulder, and fill extensions on a regular basis(grass less than 24" tall) so as to prevent trees from taking root in the disposal area

Other

No garbage disposals shall be installed.

Introduction of foreign materials into the system such as food scraps, bones, feminine napkins or cleaners can negatively affect system/pump station performance and should be discouraged.

Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system.

Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life or performance.

No chemicals or solvents shall be introduced to the system(s).

No floor drain, water treatment, dehumidifier, or other discharge (other than sanitary waste) shall be introduced into the system(s).

Records of tank/pump clean outs and/or inspections shall also be maintained by the Owner and can be provided to the Town of Pownal or the Maine Dept. of Environmental Protection upon request.

<u>Exhibit F</u>

Soil Test Pit Profile Descriptions



	PIT PROFILE DESC	CRIPTIONS	LONGVIEW PART 6 SECOND STREET BU		
Town, City, Plantation	Stree	t, Road, Subdivision	Owner's N	lame	
POWNAL	BRADBURY MOUNTAIN STATE I	PARK CAMPGROUND	TERRADYN CONSULTANTS, LLC		
SOIL DESCRIPTION	AND CLASSIFICATION (PER STAT	E OF MAINE SUBSURFA	L CE WASTEWATER DISPOS	SAL RULES)	
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10 SANDY LOAM FRIA	YELLOWISH				
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GRAVELLY 20 LOAMY SAND	YELLOWISH BROWN	LOAMY SAND	BROWN		
& SAND	DLIVE BROWN FEW FAINT			-	
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Town, City, Plantation Street, Road, Subdivision Owner's Name POWNAL BRABURY MOUNTAIN STATE PARK CAMPROUND TERRADYN CONSULTANTS, LL Soil Description And CLASSIFICATION (PER STATE OF MAINE SUBSURFACE WASTEWATER DISPOSAL RULES) Description Description Dispervation Hole TP 5 Description Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 5 Dispervation Hole TP 7 Texture TP 7 Texture TP 7 Soil Classification Stopp Texture TP 7 Texture TP 7 Soil Classification Stopp Texture TP 7 Texture TP 7 Soil Classification Stopp Texture TP 7 Texture TP 7 Soil Classifi	SOIL TEST	PIT PROFILE DESC	CRIPTIONS	LONGVIEW PARTNERS, LLC 6 SECOND STREET BUXTON, MAINE
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		[]		

			6 SECOND STREET BUXTON, MAINE
Town, City, Plantation	Street	, Road, Subdivision	Owner's Name
POWNAL	BRADBURY MOUNTAIN STATE P	ARK CAMPGROUND	TERRADYN CONSULTANTS, LLC
SOIL DESCRIPTION	AND CLASSIFICATION (PER STATE	OF MAINE SUBSURFA	E WASTEWATER DISPOSAL RULES)
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SOIL TEST	PIT PROFILE DESC	RIPTIONS	LONGVIEW PARTNERS, LLC 6 SECOND STREET BUXTON, MAINE	
Town, City, Plantation	Stree	t, Road, Subdivision	Owner's Name	
POWNAL	BRADBURY MOUNTAIN STATE I	PARK CAMPGROUND	TERRADYN CONSULTANTS, LLC	
SOIL DESCRIPTION	AND CLASSIFICATION (PER STAT	E OF MAINE SUBSURFA	CE WASTEWATER DISPOSAL RULES)	
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	PIT PROFILE DESC	CRIPTIONS	LONGVIEW PARTNERS, LLC 6 SECOND STREET BUXTON, MAINE
Town, City, Plantation	Stree BRADBURY MOUNTAIN STATE	t, Road, Subdivision	Owner's Name
POWNAL			TERRADYN CONSULTANTS, LLC
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SOIL TEST I	PIT PROFILE DESC	RIPTIONS	LONGVIEW PARTNERS, LLC 6 SECOND STREET BUXTON, MAINE
Town, City, Plantation	Street	, Road, Subdivision	Owner's Name
POWNAL	BRADBURY MOUNTAIN STATE F	PARK CAMPGROUND	TERRADYN CONSULTANTS, LLC
SOIL DESCRIPTION	AND CLASSIFICATION (PER STATE	OF MAINE SUBSURFAC	E WASTEWATER DISPOSAL RULES)
Stony Loamy FRIABI 20 STONY LOAMY STONY LOAMY FRIABI 30 FRIABI 40 FRIABI	nic Horizon Above Mineral Soil PT BY BACKHOE Sency Color Mottling DARK BROWN DARK VELLOWISH BROWN E FEW FAINT	S	P 26 Test Pit Boring f Organic Horizon Above Mineral Soil Oil TEST PIT BY BACKHOE Mottling OIL TEST PIT BY BACKHOE Mottling DARK BROWN Image: Consistency Image: Consistency DARK BROWN Image: Consistency Image: Consistency DARK VELLOWISH Image: Consistency Image: Consistency FRIABLE BROWN Image: Consistency FRIABLE BROWN Few FAINT Image: Construct Construct Image: Construct Image: Construct Image: Construct <t< th=""></t<>
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Observation Hole <u>TP 27</u> " Depth of Orga	■ Test Pit □ Boring nic Horizon Above Mineral Soil	Observation Hole <u>T</u> " Depth of	f Organic Horizon Above Mineral Soil
	PIT BY BACKHOE	Texture	OIL TEST PIT BY BACKHOE Consistency Color Mottling
STONY SANDY	DARK BROWN VELLOWISH BROWN	0STONY LOAMY SAND & SAND	LIGHT GRAY
		SAND & SAND MEDIUM & COARSE SAND STONY LOAMY	FRIABLE BROWN FREE WATER YELLOWISH BROWN
10 LOAM 20 STONY FINE SANDY LOAM 30 STONY SANDY FIRM LOAM W/ LENSES 40 OF LOAMY SAND & SILT LOAM (LAC USTRINE)		In 20 STONY LOAMY SAND W/ LENSES OF SILT & LOAMY FINE SAND	
50	OLIVE GRAY COMMON DISTINCT	Debth Below Wineral Soil Debth Below Wineral Soil a Lansa Construction of the below Wineral Soil Soil a Lansa Construction of the below Wineral Soil Soil Soil Soil Soil Soil Soil Soi	MIT OF EXCAVATION @ 52"
Soil Classification Slope	Limiting [X] Ground Water Factor [] Restrictive Layer [] Bedrock [] Pit Denth	COLONEL (SWP)/ WESTBURY	Slope Limiting [X] Ground Water Factor [] Restrictive Layer % 10 " [] Pit Depth
Profile Condition	15 " [] Pit Depth	Profile Condition	
Profile Condition	Inter forgen	237/213	1/17/24

<u>Exhibit G</u>

Plans for the Proposed Engineered Disposal System by Terradyn Consultants., LLC



Design Flow Calculations

Bradbury Mountain State Park Campground

Campsites to be served by Bath House:43 Sites @ 60 gpd/site = 2,580 gpd

"Host" Sites with Sewer & Water: 3 Sites @ 125 gpd/site = 375 gpd

Gatehouse Employees:

2 Employees @ 12 gpd/employee = 24 gpd

2,580 + 375 + 24 = 2,979 gpd

LONGVIEW PARTNERS, LLC