

# STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND & WATER Alaska Hydrologic Survey

WATER WELL LOG Revised 08/18/2016

Drilling Started:// Comple			Comple	eted: _7 / 6 / 2015 Pump Install://					
		Block	Lot	Property Owner Name & Address					
Matanuska-Susitna Borough	Merciful Es	states		1	Drobenko Investments Llc AK,				
Well location: Latitude 61.6014214				Longitud	e -149.354263				
			Section	n <u>31</u> , <u>SE</u> 1/4 of <u>NE</u> 1/4 of <u>SW</u> 1/4 of <u>SW</u> 1/4					
BOREHOLE DATA: (from ground surface) Suggest T.M. Hanna's hydrogeologic classification system* https://my.ngwa.org/NC			<u>AAD</u>	Drilling method: ■Air rotary, □Cable tool, □Other □ Well use: ■Public supply, □Domestic, □Reinjection, □Hydrofracking □Commercial, □Observation/Monitoring, □Test/Exploratory, □Cooling,					
		From	<u>To</u>		/Agriculture, ☐Grounding, ☐Recharge/Aquifer Storage,				
top soil		0	6	☐ Heating, ☐ Geothermal Exploration, ☐ Other					
loose gravel		6	35	Fluids used: ft Casing stickup: 3ft					
clay gravel		35	68	Depth of hole: 90 ft Casing stickup: 3 ft  Casing type: STEEL Casing thickness: inches					
water gravel		68	87	Casing type: STEEL Casing thickness: inches  Casing diameter: inches Casing depth: ft					
				Liner type: Depth: ft Diameter:inches					
				Note:	·				
				Well intake opening type: Open end, Open hole, Other screened					
					e:, Screen mesh size:				
					rt: 80 ft, Screen stop: 90 ft, Perforated ☐Yes ■ No description: Perf from: ft, Perf				
					ft, Perf from: ft, Perf to: ft				
				Gravel packed Yes No Gravel start: ft , Gravel stop: ft					
			Note:	.,, .,, .,, .,, .,					
			Static water (from top of casing): 49 ft on 7 /6 / 2015 Artesian well						
			Pumping level & yield: feet after hours at gpm						
			Method of testing: Duration:						
					ate: gpm				
					mft, Toft				
Include description or sketch of	well location (inc	clude road	l names,	Final pump intake depth: ft Model:					
buildings, etc.):				Pump size: hp Brand name:					
				Was well disinfected upon completion? Yes No					
				Method of disinfection:					
				Was water quality tested? Yes ■ No					
				Water quality parameters tested:					
				Company name: Ed Been Sean Sean Sean Sean Sean Sean Sean S					
				Mailing address: 3530 WEST SPENCE LN					
			North	City: WASILLA` State: AK Zip: 99623					
				Phone num	nber: ( <u>907</u> ) <u>373</u> - <u>4598</u>				
AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within <b>45 days of well completion</b> . Well logs may				Driller's sig	nature:				
				Date:	//				
be submitted using the online well log reporting system available at:				Anchorage N	Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require of this well log be submitted to the Development Services Department/City				
https://dnr.alaska.gov/welts/				within 30 day	ys of well completion.				
OR email electronic well logs to				City Permit Number: Date of Issue://					
dnr.water.reports@alaska.gov				Parcel Identi	fication Number:				

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Borough Subdivision		The state I	21-17664	-			
MAISU MERCIFUL	Lot	Błock	Section QTRS.	Section	Township	Range	Sewitien Sewitieu
Location / Sketch			Well Owner				
2	DROBER	DROBENKO INU.					
CLASS A	354	354-28/9					
Depths Messured From: Casing Top	Grou	nd Surfac		gn'		Me Of Co	mpletion
Borohols Date: Material Type & Color	From	cpth To	Depth of Hole: Depth of Casing	85	PL. FL	216	115
Stick up	0	3	Depth To Sta			7 Geomed 9	· umface
top Soil-nixed	3	9	Date: 2/6	Date: 2/6/6			unace
Stick up top Soil-nixed Loose andy Genne	7	38	Method Of Drill	ing: 🙎 /	Vir Rotery E	Cable To	ol
Chay Ghovel	B	21	Use Of Well:  Public Supply	Domastic Other	:   Irrigation	Monte	×
WATER GRAVEL	71	50	Casing Stick-Up Casing Type:	18 - J	COUL 6	In. to	FL Pt.
			Well Inteke Oper	ning Type:	Open i	End 🗷 Sci	ecned
	/	7	Depths Of Open	- Mai		90	"FL
			Screen Type: 5	74 12	D-Syryz angun:	10'	In. C
			Gravel Pack Typ Volume Used:	CADAL	C Depo	h to Top:	
X			Grout Type:	ALL F	elume:	ed to	404
			Development Me Duration;	thod:	ALC 17	Ufpu	<del></del>
			Pumping Level 4	Yield:	_ Hes. Pump	oing 4	<u>்</u> தரள
			Pump Intake De Woll Disinfector	pth:		orsepower	-
ONTRACTOR INFORMATION:		7	REMARKS:	• • (	Bankon	te u	me Addi
E+D WATER WELL							
egistered Business Name	to en	und c	insing	3" 7	6 geom		
ignature of Authorization Representative	/)	Date	JUBA JUBL	/			**
			JUBA	150	0704	015	



## **Department of Environmental** Conservation

DIVISION OF ENVIRONMENTAL HEALTH Drinking Water Program

> 1700 E Bogard Rd. Bldg B. Ste 103 Wasilla, Alaska 99654 Main: 907,376,1805 Fax: 907,376.2382 www.dec.aloska.gov

March 7, 2016

Catherine Whaley Firedance Tutoring Center 2070 N. Merciful Circle Wasilla, AK 99654

RE:

Firedance Tutoring Center

Lot 1, Merciful Estates

Drinking Water System Classification Determination: Non-Transient Non-Community (NTNC)

System Approval Required (PR# 9917)

Dear Ms. Whaley:

Thank you for submitting a completed Public Water System Classification form. According to the information submitted, this drinking water system will serve a tutoring center with up to 15 staff and 135 students. Based on a review of the submitted information, this drinking water system is classified as a Non-Transient Non-Community public water system

Service Connections & Population Served			
Number of service connections	1		
Number of days per year of operation	180		
Residents (primary place of abode)	0		
Non-transient (>6 months per year)	Up to 150		
Transient (<6 months per year)	0		

This drinking water system is required to be approved by the department. To request approval, please contract with a professional engineer licensed in the state of Alaska to provide engineering plans for the system to this office for review and approval. (Checklists detailing the submittal requirements are available upon request or online at: http://dec.alaska.gov/eh/dw/Engineering/Plan rev checklist.htm)

The department requests submittal of engineering plans within 60 days of the receipt of this letter. Contact this office to discuss an extension of time if necessary.

Please note, in addition to the plan review and routine water quality monitoring, the Drinking Water Regulations,

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Ms. Catherine Whaley

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March 7, 2016

18 AAC 80.007, require that this system be actively supervised as described in the Operator Certification Regulations, 18 AAC 74, by operators who are certified in accordance with AS 46.30 and 18 AAC 74. For more information on operator certification requirements contact Ken Smith, Environmental Program Specialist (907-465-5136 or Ken.Smith@alaska.gov.)

The basis for this determination is information submitted by the owner of the system. If the summary above is inaccurate, please contact this office. You are required to contact the department to update this information when it changes. Changes to the water source, treatment (if provided), number of service connections, population served, or number of days of operation may result in a change to the system classification and the associated plan review and monitoring requirements. Contact this office for more information regarding classification determinations.

#### Appeal Process

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195- 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Requests for an adjudicatory hearing or informal review may be made by mail, electronic mail, or facsimile. Informal review requests must be delivered to the Division Director at 555 Cordova St., Anchorage, Alaska 99501, within 15 days of receipt of this decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, Larry Hartig, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days of this decision. If a hearing is not requested within 30 days, the right to appeal is waived. More information on the Department's administrative appeals process can be found at the following website: http://www.dec.state.ak.us/commish/ReviewGuidance.htm.

If you have any questions or concerns, please don't hesitate to contact me at 376-1805, or via email at garv.cllis@alaska.pov

Sincerely,

Gary Ellis

Environmental Engineering Associate

Drinking Water Program, Wasilla Office

Scott Forgue and Amy Hill, DEC, Drinking Water Program - via email cc: Breanna Bullock, DEC, Food Safety & Sanitation - via email Ozan Woolley, DEC, Engineering Support & Plan Review - via email Ken Smith, DEC, Facilities Group - via email Mike Erdman, P.E. (Erdman & Associates) - via email

# ERDMAN & ASSOCIATES

### Consulting Engineers / Water Testing Laboratory

5200 Dunbar Drive Wasiila, AK 99654

Phone 907-376-6989 907-373-2157 Fax

August 4, 2015

Alaska Department of Environmental Conservation Attn: Mr. Oran Woolley 1701 N Bogard Road Wasilla, AK 99654

Re: Firedance Tutoring Center; L1 Merciful Estates; Proposed Onsite Wastewater Disposal System; E&A Project #08092; REQUEST FOR APPROVAL TO CONSTRUCT

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Mr. Woolley,

Attached for your review and approval are design drawings, ADEC plan review checklists and owner's statement, as well as a check for the ADEC plan review fee of \$360.

#### Project Description

The proposed project is a conventional onsite septic tank/drainfield. The facility served is a tutoring center, which will have a maximum of 10 staff members, and will serve a maximum of 120 students. Students do not attend full time, but rather have scheduled appointments for tutoring sessions.

Our design criteria and calculations are as follows:

#### Design Wastewater Flows:

Staff	15 gpd *	10 ==	150
Students	10 gpd *	120 =	1,200
Total (Q)		********	1.250 GPD

#### Septic Tank Sizing:

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V = 0.75Q + 1,125 = 0.75(1,250) + 1,125 = 2,063 gallons
Design - 2,500 gallon 2-comp tank
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#### Soil Absorption System Sizing:

Subsurface soils are clean gravel with sand, visually classified as GP-GW Assumed percolation rate faster than 1 minute/inch Design calls for ADEC-Approved filter sand - Design Application Rate 0.8 gpd/sq ft

Minimum SAS Size = 1.250 gpd/(0.8 gpd/sq ft) = 1,563 sq ft Design SAS Size - 30' x 55' = 1,650 sq ft

Mr. Oran Woolley, ADEC Re: Firedance Tutoring Center

4 August 2015 Page Two

#### Summary

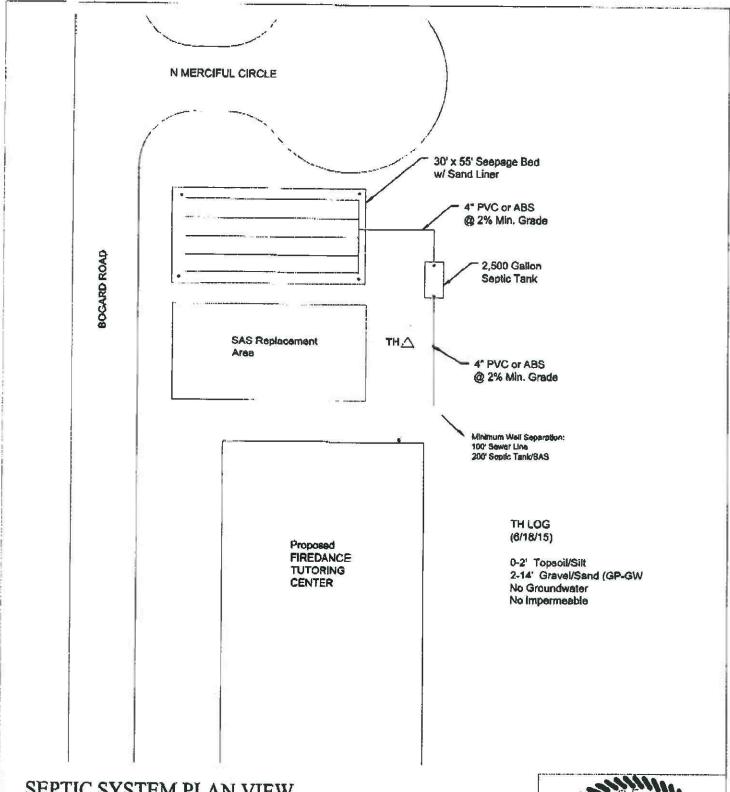
At this time we are requesting issuance of "Approval to Construct". Thank you for your assistance, and please call or email if you have any questions or need addittional information.

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Sincerely,

Michael R. Erdman, P.E.

cc: Alex Drobenko Catherine Whaley



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# SEPTIC SYSTEM PLAN VIEW

NTS

SEPTIO	C DESIGN DRAWING
Firedar	ice Tutoring Center
Wasilla	, Alaska

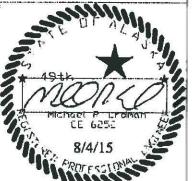
**ERDMAN & ASSOCIATES** 5200 Dunbar Drive Wasilla, AK 99654

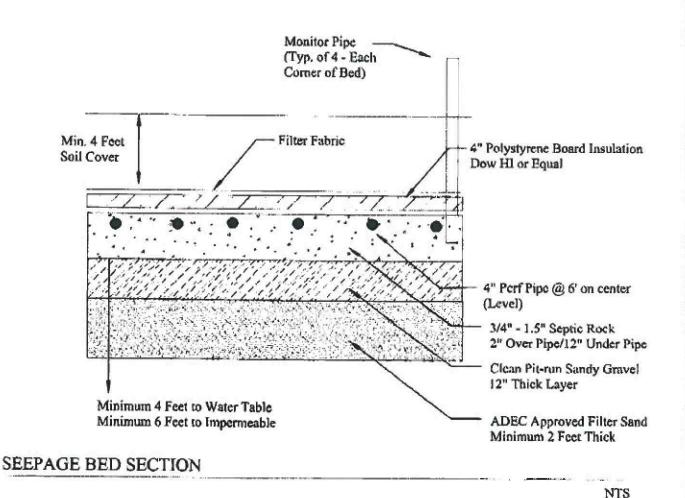
Sheet 1 of 2

Scale As Noted

Project #15110

4 August 2015





#### NOTES:

- 1. Construction shall be in conformance with ADEC regulations and construction standards (Certified Installer Manual).
- 2. Contractor shall coordinate with Engineer to allow for inspection of all work prior to burial.
- 3. Contractor shall be responsible for construction site safety.

SEPTIC DESIGNATION SEPTIC DESIGNATION OF THE PROPERTY OF THE P		ERDMAN & ASSOCIATES 5200 Dunbar Drive Wasilla, AK 99654		
Sheet 2 of 2	Scale As Noted	Project #15110	4 August 2015	





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# ALASKA PUBLIC WATER SYSTEM LOCATIONAL DATA COLLECTION FORM

Public Water System Name: Firedance Tutoring Center	PWS ID#:				
Name of Person Determining Lat/Long: Michael R. Erdman, PE	Phone: (907) 232-3140				
Name of Person Completing Form: Michael R. Erdman	Phone (907) 232-3140				
Local Facility Name:	Date Collected:				
Well	Date Completed:				
1) Facility Type. (Check one)  Sources: Wollhead Surface Water Intake Treatment Plant					
2) The date the latitude and longitude were researched or collected.  0 3 / 2 4 / 2 0	2) The date the latitude and longitude were researched or collected. Example: 06/30/2007  0 3 / 2 4 / 2 0 1 6				
3) Latitude in decimal degrees, Must be recorded in WGS 84. For Al 80 North. Give data to available accuracy. Example: +56.234230	aska, latitudes are between 51 and				
+61.6014	2 1				
4) Longitude in decimal degrees. Must be recorded in WGS 84. For Alaska, longitudes are generally - 126 to -180 West. The minus sign means "West." Use + for "East." Example: -136.23423					
-149.35427					
5) Are the latitude/longitude coordinates taken at the Wellhead/Intake?   Yes No If No, describe the proximity to the wellhead/intake (for example, 30 feet NW of the wellhead or intake)					
6) Type of CPS Unit used to determine latitude and longitude. (Describe unit and model number)  Samsung Galaxy S5					
7.) Lat/long accuracy in meters. GPS accuracy is typically encoded in the unit's display. The datum used must be in WGS 84. Example: 30. (meters)  3 0. Meters					
8.) Site map or aerial image identifying the location of the facility must be provided to assist DEC Staff verify the lat/long location in the State geospatial database. (As-build, Google Maps, Google Earth, MSN Live Earth, Yahoo Maps are all acceptable.)					
Yes a map with approximate location has been provided.					