y2consultants.com 307 733 2999 ENGINEERING, SURVEYING & PLANNING LANDSCAPE ARCHITECTURE, GIS NATURAL RESOURCE SERVICES



NUTRIENT PATHOGEN EVALUATION – WAIVER REQUEST

OSPREY LANDING SUBDIVISION

Prepared by:

Y2 Consultants, LLC Adrienne Lemmers

Reviewed By by:

Seied Zia A. Yasrobi, PE

February 5, 2024

Prepared for:

Eastern Idaho Public Health District 820 Valley Centre Drive Driggs, ID 83422

Teton County Planning and Zoning 89 North Main Suite 6 Driggs, Idaho 83422

CONTENTS

Introduction	3
Nutrient Pathogen Evaluation Applicability Criteria	4
1. Any Portion of a Proposed Development is within the County's Wetland and Waterways Overlay Area	4
2. There is Evidence that Groundwater Comes within Ten Feet of the Ground Surface on the Proposed Development Parcel Some Time of the Year	4
3. There is Evidence that Soil Depth to Fractured Bedrock is Ten Feet or Less Anywhere on the Proposed Development Parcel	4
4. The Proposed Development Includes a Food Service, Commercial, or Industrial Facility Generating 600 Gaper Day or More Wastewater	
5. The Proposed Development is within an Area Where the Concentration of Nitrate-Nitrogen is Groundward mg/l or Higher	
Conclusion	5
References	5
Appendix A : EIPH Letter Report	A-1
FIGURES	
Figure 1: Subdivision Layout	3
Figure 2: Teton County GIS check for Wetland and Waterways Overlay	4
Figure 3: Nitrate Samples Near Project Vicinity	6

INTRODUCTION

The purpose of this document is to demonstrate that the proposed subdivision named, Osprey Landing, does not trigger any of the applicability criteria for a Nutrient Pathogen Evaluation. Therefore, a waiver to the Nutrient Pathogen Evaluation outlined in Teton County Code section 9-3-2 (C-3-b and C-3-b-vi) of the Title 9 Subdivision Regulations is being requested.

The project property is owned by Bidache Inc. The parcel is 30 acres located in the southwest of the southeast and quarter quarter of section 11 of T. 4 N.. and R. 45 E., B.M. in Teton County Idaho and the parcel ID is RP04N45E118401.

The parcel zoning at the time of the concept plan approval is "Agriculture/Rural Residential-2.5-Acre Min. Lot Size". The project as proposed is to subdivide the parcel into 12 lots, each lot comprised of 2.5 acres. Please see Figure 1 for the proposed layout.

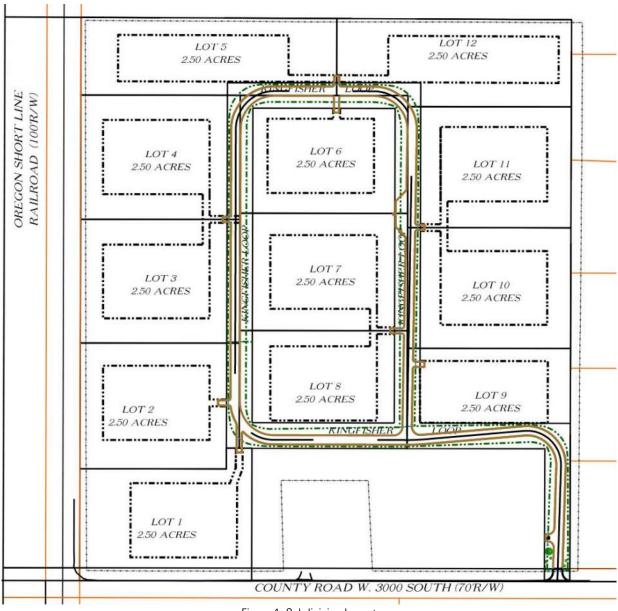


Figure 1: Subdivision Layout

NUTRIENT PATHOGEN EVALUATION APPLICABILITY CRITERIA

1. Any Portion of a Proposed Development is within the County's Wetland and Waterways Overlay Area

The Teton County, Idaho GIS website was viewed on September 19, 2022. All the wetland and waterway levels were turned on. The project site does not lay within area of the wetland and waterways overlay area as shown in Figure 2. The only mapped waterway in the area is Dick Creek, which is to the west and south of the site but does not cross the property.



Figure 2: Teton County GIS check for Wetland and Waterways Overlay

2. There is Evidence that Groundwater Comes within Ten Feet of the Ground Surface on the Proposed Development Parcel Some Time of the Year

Eastern Idaho Public Health (EIPH) provided a letter dated July 19, 2022. That letter provided soil descriptions of three test pits that were excavated down to 10 feet deep across the site. No evidence of groundwater was found in any of the test pits down to 10 feet below ground surface (bgs). The EIPH letter is attached to this document in Appendix A.

3. THERE IS EVIDENCE THAT SOIL DEPTH TO FRACTURED BEDROCK IS TEN FEET OR LESS ANYWHERE ON THE PROPOSED DEVELOPMENT PARCEL

Three test pits were excavated on site down to a 10-foot depth. No bedrock was encountered in the test pits.

4. THE PROPOSED DEVELOPMENT INCLUDES A FOOD SERVICE, COMMERCIAL, OR INDUSTRIAL FACILITY GENERATING 600 GALLONS PER DAY OR MORE WASTEWATER

All twelve lots are proposed only for residential development. There will be no non-residential use or properties generating a design flow of 600 gallons per day or more.

5. THE PROPOSED DEVELOPMENT IS WITHIN AN AREA WHERE THE CONCENTRATION OF NITRATE-NITROGEN IS GROUNDWATER IS 5 Mg/L OR HIGHER

The Idaho Department of Environmental Quality (IDEQ) 2020 Nitrate Priority Area GIS server was used to determine nearby background nitrate concentrations. The figure on the following page illustrates the nearby sample points. To the north, there are several sample points ranging from 0.01 mg/L up to 3.46 mg/L. There is one sampling point to the east with a concentration of 0.17 mg/L. Several points lie towards the west and south. These concentrations range from 0.12 to 1.01 mg/L. There are no points within the project area that have a concentration of Nitrate-Nitrogen of 5 mg/L or higher.

CONCLUSION

The proposed Osprey Landing Subdivision does not meet any of the applicability requirements for a Nutrient Pathogen Study. Therefore, a waiver is requested for the study for this project.

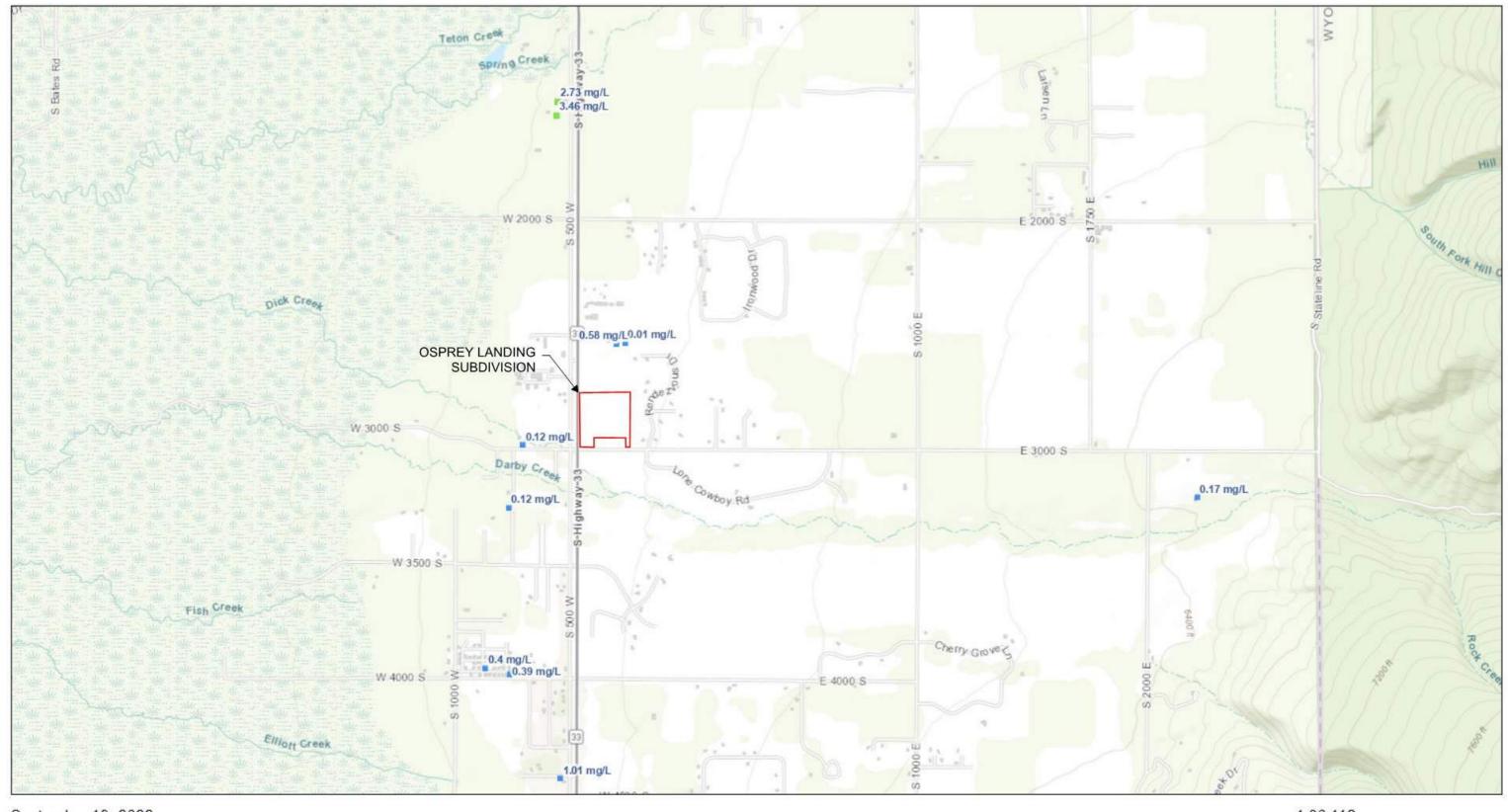
REFERENCES

Idaho Department of Environmental Quality. September 29, 2022. 2020 Nitrate Priority Areas. https://mapcase.deq.idaho.gov/npa/.

Teton County Code. <u>Title 09 Subdivision Regulations</u>. 2013.

Teton County Online Geographic Information System. September 19, 2022.

https://tetonidaho.maps.arcgis.com/apps/webappviewer/index.html?id=7cad88173b644a6a8e8c1147e94aa 524.



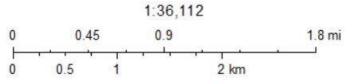
September 19, 2022

Idaho Cities/Towns

Nitrate Priority Areas (2020)

Nitrate Monitoring Wells (2020)

- < 1.99 mg/l
- 2.00 4.99 mg/l
- 5.00 9.99 mg/l



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c)

Appendix A: EIPH LETTER REPORT



TETON COUNTY

820 Valley Centre Drive
Driggs, ID 83422

OFFICE (208) 354-2220

FAX (208) 354-2224

07/19/2022 Teton County Planning and Zoning 89 North Main Suite 6 Driggs, Idaho 83422

Sadek Darwiche PO Box 1677 Jackson, WY 83001

Re: Osprey Landing

I have reviewed the application to have RP04N45E118401 subdivided into twelve (12) lots to be known as Osprey Landing and have determined the parcel and proposed lots are suitable for sub-surface waste disposal systems to serve residences. Each lot will be evaluated specifically when application is made by owner to install a septic system.

Soil information observed shows minor variations across the parcel. Please see the detailed Test Hole Information page for more thorough soil description of each test hole. The following is a generalization of the soils observed in the three (3) test holes.

0-6 inches top soil of silty loam with 25% rock content of gravel and small cobblestones 6-72 inches of silty sandy loam matrix with 70-80% rock content. Clasts are 2-12 inches in diameter and increase in size and amount with depth.

72-120 inches gravelly sand with 70% rock content.

No bedrock was encountered, and no evidence of ground water was observed in any test pit. Hardpan of approximately 12 inches thick was encountered at a depth of 36 inches in Test Hole 2. This test hole was located on the small bench in the North portion of the parcel. Lots in this area will need to have site evaluations to determine the depth and thickness of this hardpan (also referred to as Tillite). Depth and thickness will dictate the maximum depth of drainfields and type of system that will be required on a lot with this component. No groundwater evidence was seen any test hole. No bedrock was encountered in any test hole.

There is a variation in elevation from the south portion to the north portion of the parcel. Elevation change is less than 10 feet, but should be considered when proposing locations of septic systems to make best use of gravity flow.

Eastern Idaho Public Health gives preliminary approval of the application to divide RP04N45E118401 creating the Osprey Landing Subdivision. Individual subsurface sewage disposal systems may be allowed in accordance with IDAPA 58.01.03 and the Technical Guidance Manual for Individual Subsurface Waste Disposal. All current Idaho Rules must be met. Suitability criteria and required separation distances are to be maintained.

A copy of the final plat is to be provided to the Health District at the time the Health Certificate is signed. The application fee balance if any will also be collected prior to signing the Health Certificate. If this application /plan changes for any reason, please coordinate those changes in advance, with this office.

Kathleen Price

REHS/MSG

Eastern Idaho Public Health District

Kathleen Price

kprice@eiph.idaho.gov

208-354-2220



ENVIRONMENTAL HEALTH

1250 Hollipark Drive Idaho Falls, ID 83401 OFFICE (208) 523-5382 FAX (208) 528-0857

SUBDIVISION ON-SITE

Conduc	cted	on: July 13 2022 Time: Travel On-site		
1.	NA	ME OF SUBDIVISION: Osprey Landing		
II.	LO	CATION (COUNTY): Jelon - RP04N45 & 118401		
III.	GE	NERAL INFORMATION:		
	Α.	Current Land Use: - Pasteur		
	B.	Adjoining Property Use: Residential/Ag -		
	Surface Water (on or near development): Iraquition Ditch SW CORNER.			
D. Slope: Minor N -> S and Minor E-> W -				
	E.	Drainage Areas Present: No: MillOR Changes in Elevatuation		
	F.	Rock Outcrop Present: No: Higher on north portroni.		
	G.	Wetland Indications: No		
IV.	EV	ALUATION:		
	Α.	Individual water and sewer: Does each lot appear to have sufficient area to install proposed system and to meet minimum separation requirements? Yes		
	B.	Individual water and central sewer: Does there appear to be sufficient area for central system and replacement area? Yes No		
	C.	Individual sewer and central water system: Does each lot appear to have sufficient area to install proposed system and to meet minimum separation requirements? YesNo		
	D.	Individual sewer and public water system: Does each lot have sufficient area to install proposed system and to meet minimum separation requirements? Yes No		
COMM	EN1	rs: Le Prelim Letter -		
EHS:	4	Rici		

TEST HOLE INFORMATION

	SUBDIVISION OSPRAY LANding	DATE 7-13- 202	2
	, ()	2
	Test Hole #	Test Hole #2_	Test Hole #3
	Location: Lot 9+10 Boundary.	Location: Lot Le	Location: Bolwery Lot 8+ 5
	Depth: 120 "	Depth: 120 "	Depth: 120 "
6"	Topsoil w/25% Rock Sandy 5,1+ loom matrix Adb. w/70%+ Rock content 36 2-12" Diameter Rock clasts 48" Nost 5-6"	Selty sandy Martin	Self loan ABB. Hogo rock coxland
		80% rock Azb	than we other T.A.
52"-			less rack contail of
	medium to cooksessend.		
108"	Transpersacks Nofines.	20" Dry No Bedrock	No Bepears of G.
	0 (Higher elevation	large sage.
	BARVONZON	area.	wild flowers
	Test Hole #	Test Hole #	Test Hole #
	Location:	Location:	Location:
	Depth:	Depth:	Depth:
		n THI+TH 3. e @ BI or B2. depending on Dept	

Vicinity Map

unable to produce.
Golzel Earth Map.
No internet available ~ Test Hole Lecations.



Map not to scale

06/29/21

Osprey Landing - Concept Plan