

State of Idaho CAFO Site Advisory Team Environmental Risk Form

Risk Scoring System
 1 = Low Risk = Ideal goal for environmental protection
 2 = Moderate Risk = Provides reasonable resource protection
 3 = High Risk = Poses a high risk for health and/or for contaminating ground or surface water

Name & Date of Siting:

Reynolds Creek Calf Ranch
 April 27, 2022

Category	Result	Risk Score
Soil		
1. Soil permeability	High, dominant soil type is sandy loam with a high Ksat (2-6 inches/hour).	3
2. Soil depth	Moderate, soil depth is generally 60 inches.	2
3. Thickness of clay in unsaturated zone	Low, majority of driller's reports indicate clay layers over 25 feet thick.	1
Ground Water		
4. Depth to first encountered water	Moderate, average depth to first water from well driller's reports is approximately 69 feet.	2
5. Mean nitrate level in ground water within a 5 mile radius	Moderate, most recent mean nitrate concentration is 4.6 mg/L.	2
6. Percentage of wells over 5 mg/L nitrate within 5 miles	High, 45% of wells sampled have a recent value greater than 5 mg/L.	3
7. Aquifer geology	Low, aquifer geology is comprised of fractured clay and sandstone.	1
8. Time of travel to a spring	Moderate, time of travel to nearest downgradient spring is 3-10 years.	2
9. Downgradient distance to nearest domestic well	Low, downgradient distance to nearest domestic well is greater than 1,000 feet.	1
10. Within source water delineation area time-of-travel	Low, facility is not located within source water delineation area.	1
Surface Water		
11. Downgradient distance from CAFO to nearest surface water body	High, facility borders several irrigation ditches and an ephemeral drainage.	3
12. Downgradient distance from land application to nearest surface water body	High, land application fields border several irrigation ditches and an ephemeral drainage.	3
13. 100-year floodplain	Low, facility is not within 100-year floodplain.	1
Nutrient Transport		
14. Run-on	Low, facility slope is shallow with minimum run-on potential.	1
15. Surface Runoff	Low, facility slope is shallow with higher permeability soils.	1
16. Annual precipitation	Low, PRISM data indicates an average precipitation of approximately 9 inches/year over last 30 years.	1
		Index 1 33.00
		Index 2 7.00
Final Risk Score		Medium