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Ponoka County  
Central

SE-02-043-25-W4

Kramer, Reinder - Kramer Dairy Ltd.

[Edit Address Book \(/AddressBook](#)[/ViewParty/13076?returnUrl=http%3A%2F](#)[%2Fcfo2.nrcb.gov.ab.ca%2FRiskAssessment%2FViewRiskAssessment%2F7453\)](#)Risk Assessment Type Facility Name Date Of Site Visit Visit Completed By Person Interviewed Screening Completed By Date Scored Locked

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Manure Type

Annual Manure Amount (tonnes)

**Total Hazard Potential**

## Storage Specifications

Depth Of Storage Below Grade 3.6

Thickness Of Protective Layer 0

Depth To Top Of Protective Layer Below Grade 1.8

Depth Of Uppermost Groundwater Resource 17.7

Depth To Bottom Of Protective Layer Below Grade 3.4

Depth To UGR from the Bottom of the Facility 14.1

## Uppermost Groundwater Resource (UGR)

Depth to UGR (m) 8 - 30

Subsoil Texture Coarse 5

## Protective Layer(s) (PL) Between Bottom of Facility and UGR

Thickness of Protective Layers (m) &lt;2

Subsoil Texture Medium

 Storage is Constructed into UGR override

12

## Liner Type

15

Liner Type Don't know if AOPA requirements are met

## Water Wells

1

## Infiltration Potential

Predominant Soil Type Medium

Average Annual Precipitation (mm) 400-600 4

## Special Considerations

0

## Groundwater Exposure Potential

- No water wells are completed within 400m of the confined feeding operation facility being assessed.  
 One or more water wells are located within 400m of the confined feeding operation facility, but greater than 100m from the confined feeding operation facility.  
 One or more water wells are located within 100m of the confined feeding operation facility.

Hazard Potential Score 21

+ Groundwater Pathway Score 38

x Exposure Potential Modifier 1.2

= Groundwater Risk Score 70.8

**Moderate potential risk to the environment.**

- Body of water is known to be upslope of the facility - low risk.  
 No water body with 800m - low risk.  
 Facility is located less than 1m (in elevation) above the 1 in 25 year floodplain - high risk.  
 None of the Above

## Likelihood of Runoff Reaching a Water Body

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Water Body Name	Water Body Type	Reference Point	Distance To Water Body (m)	Surface Gradient to Water Body
Unnamed intermittent creek	Creek	northeast corner of EMS	175	Downslope

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Viewing 1 - 1 of 1

Horizontal Distance to Water Body &gt; 100m

Slope of Land From Facility to Water Body 4 - &lt; 6

2

## Surface Water Runoff

Predominant Soil Type Medium

Average Annual Precipitation 400-600

4

## Surface Water Run-on Control

Surface Water Run-on Control

Most upslope surface water diverted (&gt;80% - 99%)

1

## Manure Impacted Area Runoff Control

Manure Impacted Area Runoff Control

All runoff controlled

4

## Runoff Flow Path Between Facility and Receiving Body of Water

Type of Yard Runoff Flow

Dispersed Flow

Vegetation Cover

&lt;50% Vegetated

4

## Special Considerations

Special Considerations Detail

0

## Surface Water Exposure Potential

- Highest use surface water body (with the greatest number of types of users) located within 800m of the confined feeding operation facility being assessed is a small slough or creek on private land but not a common body of water.
- Highest use surface water body (with the greatest number of types of users) located within 800m of the confined feeding operation facility being assessed is a common body of water with little human use (within 10 miles downstream).
- Highest use surface water body (with the greatest number of types of users) located within 800m of the confined feeding operation facility being assessed is a high use common body of water (recreation, water supply, etc.).

Hazard Potential Score 21

+ Additional Pathway Score for Solid Manure Storage 0

+ Surface Water Pathway Score 15

x Exposure Potential Modifier

= **Surface Water Risk Score**

**Low potential risk to the environment.**

Errors  
None

Warnings  
None