

Part 2 – Technical Requirements

Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

NRCB USE ONLY	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization	LA24013	S½ 27-11-24 W4M

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements herein and acknowledge that the information provided in this application is true to the best of my knowledge.

April 15, 2024
Date of signing


Signature

Hutterian Brethren Church of White Lake

Dave Hofer
Print name

Corporate name (if applicable)

GENERAL INFORMATION REQUIREMENTS

Existing facilities. List all existing confined feeding operation facilities and their measurements that existed as of January 1, 2002, unless information about them has been previously provided to the NRCB (use additional pages if needed)

Existing barns, manure collection areas & manure storage facility	Dimensions (m)	NRCB USE ONLY
Existing Pens	365m x 192 m	confirmed
South Catch Basin	80m x 33m x 3.4m	see next page
North Catch Basin	55m x 33m x 3.4m	

NRCB USE ONLY

Proposed facilities. List all proposed confined feeding operation facilities and their measurements (attach additional pages if needed)

Proposed barns, manure collection areas & manure storage facilities	Dimensions (m)
No additional proposed facilities	

Part 2 – Technical Requirements

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If a new facility is replacing an old facility, what will be done with the old facility and when? N/A

Proposed construction completion date: n/a

Additional information:

This application is only to increase herd numbers. Based on existing facility conditions and animal performance within the existing feedlot, the feedlot operator has demonstrated that the combined pen sizes and area can accommodate up to 4500 head within the existing feedlot area.

The catch basins were constructed differently from the permitted dimensions in Approval LA17060 (three catch basins, 30 m x 45 m x 3.4m deep). The south and center catch basins were combined to form a single catch basin (80 m x 33 m x 3.5 m deep) and the north catch basin is slightly larger with 55 m x 33 m x 3.5 m deep rather than 45 m x 30 m x 3.4 m deep. The combined runoff storage volume is 7,040 m³. The required storage volume is 4,327 m³. This approval (LA24013) includes the amendment of the permitted dimensions to reflect "as built" dimensions.

For Approvals and Registrations only (increase in animal numbers):

Animal type/ category	Existing number	Additional number	Total	NRCB USE ONLY
Finishers	2660	1840	4500	



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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Parks (AEP) for a confined feeding operation (CFO)
Date and sign (or check) one of the following four options

OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I DO want my water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from AEP under the Water Act for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently** of AEP's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by AEP as improving or enhancing the CFO's eligibility for a water licence under the Water Act.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a Water Act licence will **not** be relevant to AEP's consideration of whether to grant the Water Act licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the Water Act licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the Water Act. This risk includes being required to de-populate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the Water Act).
6. **CHECK IF RELEVANT** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the Bow, Oldman and South Saskatchewan River Basin Water Allocation Order [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from AEP under the Water Act for the development or activity proposed in this AOPA application.

Signed this 15 day of 04, 2024.

Signature of Applicant or Agent

OPTION 4: Uncertain if Water Act licence is needed: acknowledgement of risk (for s

1. At this time, I (we) do not know whether a new water licence is needed from AEP under activity proposed in this AOPA application.
2. If a new Water Act licence is needed, I (we) request that the NRCB process the AOPA ap processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the considered by AEP as improving or enhancing the CFO's eligibility for a water licence unc
4. I (we) acknowledge that any construction or actions to populate the CFO with additional in the absence of a Water Act licence will **not** be relevant to AEP's consideration of whetl application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the Water Act licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the Water Act. This risk includes being required to de-populate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the Water Act).
6. **CHECK IF RELEVANT** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the Bow, Oldman and South Saskatchewan River Basin Water Allocation Order [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.

Water conyance agreements from LUID on file

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

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Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

GENERAL WATER INFORMATION

GENERAL WATER INFORMATION			NRCB USE ONLY	
			Comments	Meets regulations
Flood plain information What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	6 _____(m)	<input checked="" type="checkbox"/> Estimated <input type="checkbox"/> From records	not in flood plain	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Springs, wells, and surface water information				
a. How many springs are within 100 m of manure storage facilities or manure collection areas?	0		none observed or in EPA database	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
b. How many water wells are within 100 m of manure storage facilities or manure collection areas?	0		none observed or in EPA database	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
c. What is the shortest distance from a manure collection or storage facility to a surface water body? (ie, lake, creek, slough, seasonal, etc.)	150m (slough)		confirmed not a CBW	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Groundwater information				
a. What is the depth to bedrock?	4 _____(m)	<input checked="" type="checkbox"/> Estimated <input type="checkbox"/> Measured <input type="checkbox"/> Drilling reports	(cbw= common body of water) N/A	
b. What is the depth to the water table?	3.5 _____(m)	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured <input type="checkbox"/> Drilling reports	confirmed drilling report in LA17060	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
c. What is the depth to the uppermost groundwater resource?	>60 _____(m)	<input type="checkbox"/> Estimated <input type="checkbox"/> Measured <input checked="" type="checkbox"/> Drilling reports	No wells in area (chemistry ID223973)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Additional information: (attach borehole logs and records, as required)

Water well record (dry hole) from SW34-11-24-W4



Water Well Drilling Report

View in Metric Export to Excel

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GIC Well ID 224034
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1986/06/09

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name	Address			Town		Province		Country		Postal Code	
SHERWOOD, FARLEY	BARONS										
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	4	34	11	24	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ ft	
_____ ft from _____					Latitude 49.947943 Longitude -113.208067					How Elevation Obtained	
_____ ft from _____					How Location Obtained					Not Obtained	
					Map						

Drilling Information	
Method of Drilling Cable Tool	Type of Work Dry Hole
Proposed Well Use Domestic & Stock	

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
2.00		Topsoil
32.00		Yellow Clay
47.00		Gray Clay
59.00		Gray Clay & Shale
71.00		Gray Shale
91.00		Gray Hard Shale
93.00		Greenish Gray Shale & Gravel
98.00		Gray Fine Grained Shale
138.00		Light Gray Shale
145.00		Dark Gray Shale
188.00		Light Gray Shale
194.00		Gray Hard Shale
205.00		Light Gray Shale

Yield Test Summary		Measurement in Imperial
Recommended Pump Rate _____ igpm		
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
205.00 ft		1986/05/01	1986/05/10	
Borehole				
Diameter (in)	From (ft)			To (ft)
0.00	0.00			205.00
Surface Casing (if applicable)		Well Casing/Liner		
Size OD : _____ in	Size OD : _____ in			
Wall Thickness : _____ in	Wall Thickness : _____ in			
Bottom at : _____ ft	Top at : _____ ft			
		Bottom at : _____ ft		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
Perforated by _____				
Annular Seal				
Placed from _____ 0.00 ft to _____ 0.00 ft				
Amount _____				
Other Seals				
Type _____		At (ft) _____		
Screen Type				
Size OD : _____ 0.00 in				
From (ft)	To (ft)	Slot Size (in)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name STAVELY WATER WELLS	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID 224034
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1986/06/09

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial
Owner Name	Address			Town	Province	Country	Postal Code			
SHERWOOD, FARLEY	BARONS									
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description	
4	34	11	24	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ ft		
_____ ft from					Latitude 49.947943 Longitude -113.208067			How Elevation Obtained		
_____ ft from					How Location Obtained			Not Obtained		
					Map					

Additional Information										Measurement in Imperial
Distance From Top of Casing to Ground Level _____ in										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ igpm					Describe _____					
Recommended Pump Rate _____ igpm					Pump Installed _____ Depth _____ ft					
Recommended Pump Intake Depth (From TOC) _____ ft					Type _____ Make _____ H.P. _____					
					Model (Output Rating) _____					
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft Well Disinfected Upon Completion _____					
Gas _____					Depth _____ ft Geophysical Log Taken _____					
					Submitted to ESRD _____					
					Sample Collected for Potability _____ Submitted to ESRD _____					
Additional Comments on Well										

Yield Test			Taken From Ground Level	Measurement in Imperial
Test Date	Start Time	Static Water Level		
		ft		
Method of Water Removal				
Type _____				
Removal Rate _____ igpm				
Depth Withdrawn From _____ ft				
If water removal period was < 2 hours, explain why				

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name STAVELY WATER WELLS	Copy of Well report provided to owner Date approval holder signed

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

See decision summary LA24013

Facility	Groundwater score	Surface water score	File number

ERST for **existing** facilities

This CFO was approved in 2017 (Approval LA17060) and meets all AOPA requirements. Therefore it is presumed to pose a low risk to groundwater and surface water.

Facility	Groundwater score	Surface water score	File number

ERST related comments:

Part 2 – Technical Requirements

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: No water wells within a 1 km radius -

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:

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DISTANCE TO NEIGHBOURING RESIDENCES

Name	Legal Land Description	Distance (m)	NRCB USE ONLY			
			Zoning (LUB) Category	Distance (m)	Meets Regulations	MDS Category (1-4)
Terry Irvine	SE-36-11-24-W4	3,300	RA	3.2 km	yes	1
Jeff deBoer	NE-36-11-24-W4	4,200	RA	4.2 km	yes	1
Damon Postman	SE-24-11-24-W4	3,800	RA	3.7 km	yes	1
P. Southwell	NE-29-11-24-W4	2,500	RA	2.4 km	yes	1
Dave VanderValk	NW-33-11-24-W4	3,300	RA	3.2 km	yes	1

Revised title 23 June 2015

Methods used to determine distance:

Google mapping.

Additional information:

NRCB USE ONLY

Methods used to determine distance (If applicable): google earth (+/- 2 m)

Concerns from directly affected parties or referral agencies: YES NO

Technology factor: YES NO

Expansion factor: YES NO

Requirements: Category 1: 659 m Category 2: 878 m Category 3: 1098 m Category 4: 1756 m

(Table created by MDS calculator) MDS calculator attached: YES NO MDS Calculator in file: YES NO

Waivers required: YES NO

Number of waivers: _____ Waivers attached: YES NO Waivers in file: YES NO

Comments:

AO comment: This was a new CFO, approved in 2017 (Approval LA17060)

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LAND BASE FOR MANURE AND COMPOST APPLICATION (for approvals and registrations only)

Name of landowner(s)*	Legal Land Description	Area ** (usable hectares)	Soil Zone	NRCB USE ONLY Meets regulations:
White Lake Colony	NE-27-11-24-W4	64	dark brown	64 acres available
White Lake Colony	W1/2-26-11-24-W4	110	dark brown	271 acres available
White Lake Colony	S1/2-34-11-24-W4	120	dark brown	296 acres available
White Lake Colony	Sec 28-11-24-W4M	223	irrigated	available 500 acres
TOTAL				

*If you are **not** the registered land owner, please attach copies of land use agreements signed by all landowners.

** Available manure spreading area (do not include required setback areas from residences, common bodies of water, water wells, etc.) (to convert from acres to hectares divide acres by 2.47)

Additional information: (attach copies of all signed land use agreements)

Note that the land within NE27, W26 and S34 had been previously allocated for manure dispersion for the initial permitting. Section 28 is the additional land base allocation to accommodate the increased animal numbers.

The additional land base as listed in Application LA17060: W1/2 26-11-24 (271 acres, dark brown); S1/1 34-11-24 (296 acres)

NRCB USE ONLY			
Land base required:	<u>689 .4 acres irrigated</u>		(AO comment: Dry land dark brown soil can receive approximately half the manure as irrigated land. Therefore the listed lands equal approximately 315 acres irrigated land.
Hectares not suitable:	<u>Listed: 500 acres irrigated and 631 acres dry brown</u>		
Total:	<u>approx. 800 acres</u>		Requirement Met: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Land spreading agreements required:	not needed <input type="checkbox"/> YES A	Agreements attached: <input type="checkbox"/> NO	Agreements in file: <input type="checkbox"/> YES <input type="checkbox"/> NO
Manure Management Plan:	not needed <input type="checkbox"/> YES A	Plan attached: <input type="checkbox"/> NO	Plan in file: <input type="checkbox"/> YES <input type="checkbox"/> NO

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

Conducted by Morgan Schindel (inspector) on March 28, 2024 as part of the Feedlot Population Verification Program	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: May 7, 2024

Municipality: Lethbridge County

letter sent response received written/email verbal no comments received

Alberta Health Services: NA_A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: Prairie Royalty N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

AO comment: The application was also sent to the LNID on June 4, 2024, in response to the question from EPA about water supply. The LNID stated that White Lake Colony has a water conveyance agreement for 52 ac.-ft but that the additional livestock would require an additional 9 ac.-ft.

Catch Basin Storage Volume Calculator

Combined catch basin (south/center)

Construction Dimensions of Catch Basin	
* Only cells in blue can be changed.	
Overall Dimensions of Catch Basin	
Total Length* ₄	80.0 m
Total Width* ₄	33.0 m
Total Depth* ₄	3.4 m
Design Capacity Depth	2.90 m
End Slope* ₄	3 run:rise
Side Slope* ₄	3 run:rise
Length of Bottom	59.6 m
Width of Bottom	12.6 m
Capacity @ top of Bank	5,529 m ³
Design Capacity of Catch Basin (freeboard level)	
Length (design capacity depth)	77.0 m
Width (design capacity depth)	30.0 m
Total Depth	3.4 m
Design Capacity Depth	2.90 m
End Slope	3 run:rise
Side Slope	3 run:rise
Design Capacity (freeboard level)	4,292 m ³
level)	2,310 m ²
Catch Basin Dimensions	
	262 ft
	108 ft
	11 ft
	10 ft
	3 run:rise
	3 run:rise
	196 ft
	41 ft
Capacity (@top)	195,248 ft ³
	1,216,167 Imp. Gal.
Design Capacity (freeboard level)	
	253 ft
	98 ft
	11 ft
	10 ft
	3 run:rise
	3 run:rise
	151,573 ft ³
	944,120 Imp. Gal.
	24,865 ft ²

CFO Name ₁	(Enter CFO Name Here)
Land Location ₁	1-1-4-W5

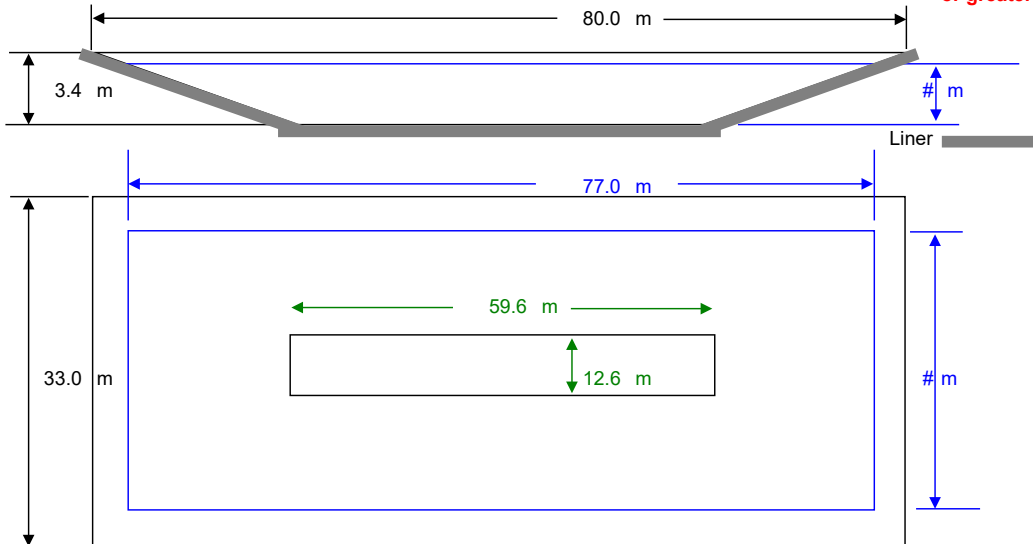
Paved Runoff Catchment Area(s)			
Area ₂	Length (m)	Width (m)	Area (m ²)
1			0.0
2			0.0
3			0.0
4			0.0
5			0.0
Total Area (m ²)			0

Unpaved Runoff Catchment Area(s)			
Area ₂	Length (m)	Width (m)	Area (m ²)
6	365	192	70,080.0
7			0.0
8			0.0
9			0.0
10			0.0
Total Area (m ²)			70,080

Rainfall (Select Town ₃)	
Nanton 95	
AOPA Design Rainfall	95 mm

Minimum Catchbasin Storage Volume Required	
4,327 m ³ **	152822.1 ft ³
	951903.35 Imp. Gal.

** Design capacity of catch basin should be equal to or greater than, minimum storage volume required.



— Lines in Black - Overall catch basin dimensions
 — Lines in Blue - Design capacity depth dimensions (excludes freeboard)

NTS - Not To Scale

Catch Basin Storage Volume Calculator

Catch basin north

Construction Dimensions of Catch Basin	
* Only cells in blue can be changed.	
Overall Dimensions of Catch Basin	
Total Length* ₄	55.0 m
Total Width* ₄	33.0 m
Total Depth* ₄	3.4 m
Design Capacity Depth	2.90 m
End Slope* ₄	3 run:rise
Side Slope* ₄	3 run:rise
Length of Bottom	34.6 m
Width of Bottom	12.6 m
Capacity @ top of Bank	3,591 m ³
Design Capacity of Catch Basin (freeboard level)	
Length (design capacity depth)	52.0 m
Width (design capacity depth)	30.0 m
Total Depth	3.4 m
Design Capacity Depth	2.90 m
End Slope	3 run:rise
Side Slope	3 run:rise
Design Capacity (freeboard level)	2,748 m ³
level)	1,560 m ²
Catch Basin Dimensions	
	180 ft
	108 ft
	11 ft
	10 ft
	3 run:rise
	3 run:rise
	114 ft
	41 ft
Capacity (@top)	126,808 ft ³
	789,867 Imp. Gal.
Design Capacity (freeboard level)	
	171 ft
	98 ft
	11 ft
	10 ft
	3 run:rise
	3 run:rise
	97,038 ft ³
	604,433 Imp. Gal.
	16,792 ft ²

CFO Name ₁	(Enter CFO Name Here)
Land Location ₁	1-1-4-W5

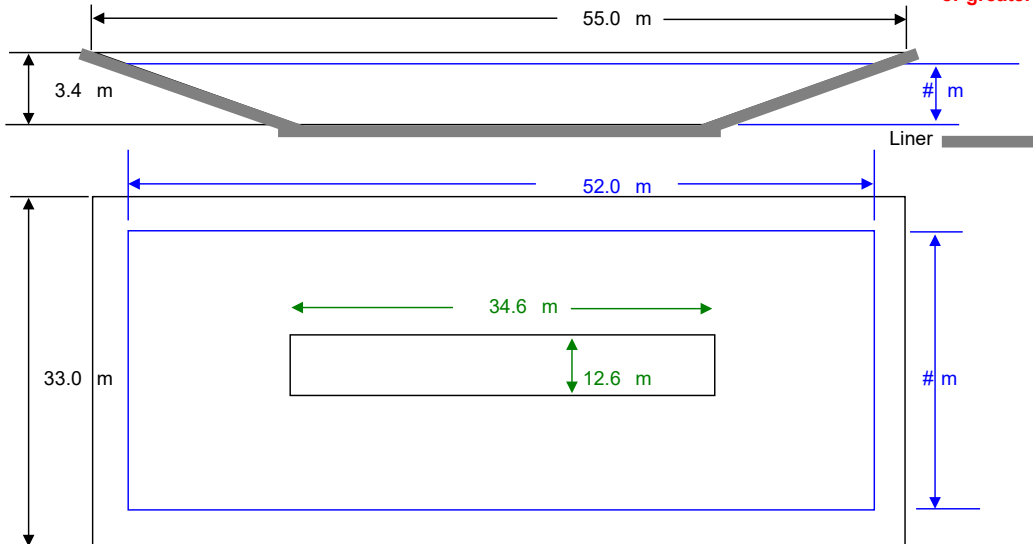
Paved Runoff Catchment Area(s)			
Area ₂	Length (m)	Width (m)	Area (m ²)
1			0.0
2			0.0
3			0.0
4			0.0
5			0.0
Total Area (m ²)			0

Unpaved Runoff Catchment Area(s)			
Area ₂	Length (m)	Width (m)	Area (m ²)
6	365	192	70,080.0
7			0.0
8			0.0
9			0.0
10			0.0
Total Area (m ²)			70,080

Rainfall (Select Town ₃)	
Nanton 95	
AOPA Design Rainfall	95 mm

Minimum Catchbasin Storage Volume Required	
4,327 m ³ **	152822.1 ft ³
	951903.35 Imp. Gal.

** Design capacity of catch basin should be equal to or greater than, minimum storage volume required.



— Lines in Black - Overall catch basin dimensions
 — Lines in Blue - Design capacity depth dimensions (excludes freeboard)

NTS - Not To Scale

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NRCB USE ONLY	
RUNOFF CONTROL CATCH BASIN CAPACITY SUMMARY (if applicable)	
Facility 1	
Name / description	catch basin south
Capacity	4292 m ³
Facility 2	
Name / description	catch basin north
Capacity	2748 m ³
Facility 3	
Name / description	
Capacity	
Facility 4	
Name / description	
Capacity	
TOTAL CAPACITY	7040 m ³
RUNOFF VOLUME FROM CONTRIBUTING AREAS	4327 m ³
MEETS AOPA RUNOFF CONTROL VOLUME REQUIREMENTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO