Technical Document RA24026 Part 2 — Technical Requirements



NRCB USE ONLY	Application number	Legal lan	d description
☐ Approval	RA24026	NE corner of	of SE 2-54-4 W4M
☐ Approval ► Registration ☐ Authorization ☐ Amendment			
APPLICATION DISCLOSURE			
This information is collected under the authority of the Agrovisions of the Freedom of Information and Protection over the request that certain sections remain private.	ricultural Operation Practices of f Privacy Act. This information	Act (AOPA), and is su is public unless the	bject to the NRCB grants a
Any construction prior to obtaining an NRCB permit prosecution.			
, the applicant, or applicant's agent, have read and under provided in this application is true to the best of my know	rstand the statements above, ledge.	and I acknowledge t	hat the information
Dec 5 2024			
Date of signing	Signature		
	Courtney Un	ruh	
Corporate name (if applicable)	Print name		
GENERAL INFORMATION REQUIREMENTS			
Proposed facilities: list all proposed confined feeding	operation facilities and their d	mensions. Indicate	whether any of the
proposed facilities are additions to existing facilities. (at	tach additional pages if neede	Di	mensions (m)
Proposed facilities			, width, and depth)
Egg layer chicken barn		\$80,×90	85 m x 18 m
Marrico rad		50'x5	15 m x 15 m
		50'x 6	15 m v 10 m
Egg handling		70 X 6	0 15 m x 18 m
93			
Existing facilities: list ALL existing confined feeding of			
Existing facilities		sions (m) ith, and depth)	NRCB USE ONLY
	(iciigai) iii	,,	
		CENTED TO	
NRCB USE ONLY			
Not an existing CFO			
Not all existing CFO			



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

1,411,151,151,151	cing an old facility,	please explain what will happer	to the old facility and when.	■ N/A
		Dec 31 2026		
truction completion	n date for proposed	Dec 31 2026		
	date for proposed	Dec 31 2026		
truction completion	n date for proposed	Dec 31 2026		
	ı date for proposed	Dec 31 2026		
	ı date for proposed	Dec 31 2026		
	ı date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		
	n date for proposed	Dec 31 2026		

priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
layors	0	10 000	10000



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

DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

				to my AOPA permit and the Water Act licence
				send was a base of the same
Signe	ed this _	day of	, 20	Signature of Applicant or Agent
OPT	ION 2:	Processing the	AOPA permit and Wa	ater Act licence separately
			the CFO will need a new proposed in this AOPA a	w water licence from EPA under the Water Act for the
2.	I (we) r		RCB process the AOPA	application independently of EPA's processing of the
3.	In maki NRCB's	ng this request, I	(we) recognize that, if be considered by EPA as	this AOPA application is granted by the NRCB, the s improving or enhancing the CFO's eligibility for a
4.	I (we) a AOPA pe	cknowledge that ermit in the abser	any construction or act	ions to populate the CFO with livestock pursuant to ance will not be relevant to EPA's consideration of on.
5.	I (we) a the <i>Wat</i> violation	cknowledge that er Act licence app of the Water Act	any such construction of denied or if the control of the control	or livestock populating will be at the CFO's sole risk if the operation of the CFO is otherwise deemed to be in ing required to depopulate the CFO and/or to cease ndertakings" (as defined in the Water Act).
6.	AS REL and that [Alta. Re	EVANT: I (we) act, pursuant to the eg. 171/2007], the	cknowledge that the CF Bow, Oldman and Sou his basin is currently clo	O is located in the South Saskatchewan River Basin th Saskatchewan River Basin Water Allocation Order osed to new surface water allocations.
			pplication number(s) _	
Signe	ed this	day or	, 20	Signature of Applicant or Agent
ОРТ	ION 3:	Additional water	er licence not require	ed .
	7.3			licence from EPA under the Water Act for the
			proposed in this AOPA a	
2. 1	Provide	: Water license n	number(s) or water con-	veyance agreement details
Sign	ed this	day of	, 20	
5.	77.7110		,,	Signature of Applicant or Agent

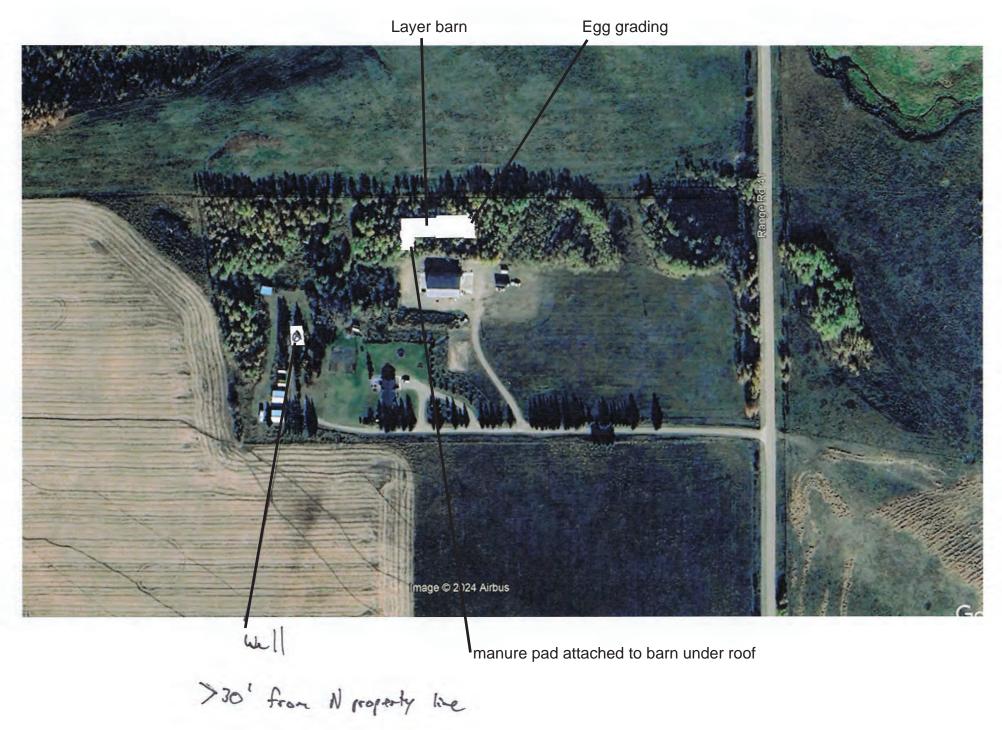


Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

- At this time, I (we) do not know whether a new water licence is needed from EPA under the Water Act
 for the development or activity proposed in this AOPA application.
- If a new Water Act licence is needed, I (we) request that the NRCB process the AOPA application independently of EPA's processing of the CFO's application for a water licence.
- 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 EPA 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 additional livestock pursuant to an AOPA permit in the absence of a Water Act licence will <u>not</u> be relevant to EPA's consideration of whether to grant my Water Act licence 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 depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the Water Act).
- AS 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.

7.	[Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations. Provide: Water license number(s) or water conveyance agreement details							
Sig	ned this The day of December, 2004.	Signature of Applicant or Agent						





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

GENERAL ENVIRONMENTAL INFORMATION (complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities) Facility description / name (as indicated on site plan) Proposed 1: Chicken barn with manure shed Existing: Proposed 2: Proposed 3: **Facilities NRCB USE ONLY** Facility and environmental risk Meets information Proposed 2 Proposed 3 Comments Proposed 1 Existing requirements What is the elevation of the floor of nformation Flood plain MYES NO □ > 1 m □ >1 m the lowest manure storage or >1 m □ >1 m Not in flood plain collection facility above the 1:25 ≤ 1 m YES with ≤ 1 m ≤ 1 m ≤ 1 m year flood plain or the highest exemption known flood level? YES D NO 0 How many springs are within 100 m None known of the manure storage facility or YES with manure collection area? exemption Surface water information YES NO 0 None within 100 m How many water wells are within YES with 100 m of the manure storage facility or manure collection area? exemption YES NO What is the shortest distance from approx. 180 m to seasonal creek the manure collection or storage 300 m YES with facility to a surface water body? exemption (e.g., lake, creek, slough, seasonal) YES NO Meets requirements What is the depth to the water Groundwater

YES with

YES with

exemption

exemption M YES NO

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)

15m

table?

What is the depth to the

draw water from?

groundwater resource/aquifer you

information

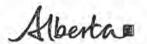
10.97 m ID142759



NRCB USE ONLY ENVIRONMENTAL RISK SCREENING INFORMATION								
ERST for proposed facilities								
Facility	Groundwater score	Surface water score	File number					
See Decision Summary	RA24026 regarding E	RST for proposed b	arn and manure pad					
ERST for existing facilities								
Facility	Groundwater score	Surface water score	File number					
N/A								
ERST related comments:								



NRCB USE ONLY WATER WELL AND SURFACE	WATER INFORMATI	ON							
Well IDs: ID142759									
	Surface water related concerns from directly affected parties or referral agencies:								
Groundwater related concerns from dir Water wells N/A	ectly affected parties or refe	rral agencies:	☐ yes 反 ^no						
If applicable, exemption for 100 m dist	ance requirements applied:	YES NO Condition	n required: YES NO						
Surface water N/A									
If applicable, exemption for 30 m dista	nce requirements applied:	YES NO Condition	required: YES NO						
Water Well Exemption Screening T	ool N/A								
Water Well ID	Preliminary Screening	Secondary Screening	Facility						
water weil 1D	Score	Score	racility						
Groundwater or surface water rela	ted comments:								



10.97

17.37

Blue Clay

Fine Grained Sand & Gravel

Water Well Drilling Report

The driller supplies the data contained in this report. The Province disclaims responsibility for its

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID

142759

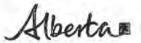
OWN ID		accuracy. The in	normation of	tuis report will be recained in	a public database.		Date Report Received	1986/07/07
Well Iden	tification and L	ocation .					N	Measurement in Metric
Owner Nat ANDERSO		Address RR1, DEW	BERRY	То	WΠ	Province	Country	Postal Code T0B 1G0
Location	1/4 or LSD SE	SEC TWP 2 54	RGE 4	W of MER Lot 4	Block Plan	Additio	nal Description	
Measured	from Boundary o	of m from m from		GPS Coordinates in Latitude 53.63183 How Location Obtaine Not Verified		The Revenue	Elevation How Elevation Obtaine Not Obtained	m
Drilling In	formation							
Method of Rotary	Drilling		1	Type of Work New Well				
Proposed Domestic &								
Formation	n Log		Me	asurement in Metric	Yield Test Summ	nary	N	leasurement in Metric
Depth from ground lev		Lithology Description	1		Recommended Pu Test Date	mp Rate Water Removal	36.37 L/min I Rate (L/min) Stat	tic Water Level (m)
3.66		Yellow Sand			1986/06/06	90.9	92	9.14
5.49		Yellow Clay			Well Completion		N	leasurement in Metric

1986/06/06	90.92		9.14
	20.52		
Well Completion	Various Section		leasurement in
Total Depth Drilled Fi	inished Well Depti		
17.37 m		1986/06/06	1986/06/06
Borehole			
Diameter (cm) 0.00	0.	n (m) .00	To (m) 17.37
Surface Casing (if ap Plastic			
Size OD :	12.70 cm	Size OD	: 0.00 cm
Wall Thickness:	0.711 cm	Wall Thickness	. 0.000 cm
Bottom at :	15.85 m	Top at	0.00 m
		Bottom at	0.00 m
Perforations			
From (m) To (m)	Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
Perforated by			
Annular Seal Puddle	ed Clay		
Placed from	0.00 m to	0.00 m	
Amount			
Other Seals			
Type	b.	- 2	At (m)
Screen Type Stainle	ess Steel		
Size OD :	10.16 cm		
From (m)		(m)	Slot Size (cm)
15.85	17	.37	0.038
	ched To Casing		

	Amount 300.00 Pounds	
Contractor Certification	1	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No	
Company Name MORTON'S WATER WELL DRILLING LTD.	Copy of Well report provided to owner	Date approval holder signed

Type Artificial

Grain Size 16-20



Water Well Drilling Report

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID

142759

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.

Date Report Received 1986/07/07 GOWN ID Well Identification and Location Measurement in Metric Postal Code Province Country Owner Name Address Town ANDERSON, MARY RR1, DEWBERRY **T0B 1G0** Additional Description Location 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan SE 2 54 4 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Longitude -110.478965 53.631833 m from How Location Obtained How Elevation Obtained m from Not Verified Not Obtained Additional Information Measurement in Metric Distance From Top of Casing to Ground Level cm Is Artesian Flow is Flow Control installed Rate L/min Describe Recommended Pump Rate 36.37 L/min Pump Installed Yes Depth Recommended Pump Intake Depth (From TOC) 15.24 m Type SUB H.P. .5 Model (Output Rating) Well Disinfected Upon Completion Did you Encounter Saline Water (>4000 ppm TDS) Depth m Depth m Geophysical Log Taken Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well Yield Test Taken From Ground Level Measurement in Metric Depth to water level Start Time Static Water Level Test Date Elapsed Time Pumping (m) Recovery (m) 1986/06/06 12:00 AM 9.14 m Minutes:Sec Method of Water Removal Type Air 90.92 L/min Removal Rate Depth Withdrawn From 15.85 m If water removal period was < 2 hours, explain why

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MORTON'S WATER WELL DRILLING LTD. Certification No

Copy of Well report provided to owner Date approval holder signed



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DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

				INCO USE CIVET				
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations	
Jim and Janice Hilts	Sw 2-54-4 WY	1500m	Ag	Cat 1	1037 m	N/A	Yes	
Roger and Sandra Braithwaite	Sw 1-54-4 w4	750m	Ag	Cat 1	768 m		Yes	
Ryan Parr	NE 2-54-4 WY	750m	Ag	Cat 1	734 m		Yes	
Eleanor Parr	NW 1-54-4 W4	750m	Ag	Cat 1	674 m		Yes	
					1			

LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

AND BASE FOR MANUEL				To the second se	NRCB USE ONLY	
Name of land owner(s)*	Legal land descript	tion	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Waldo Unruh	NW 5-54-	WY	160ac	black		Yes, see attached
				Total	160ac	

^{*} If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

Additional information (attach any additional information as required)

^{**} Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading Regulations)

^{***} Brown, dark brown, black, grey wooded, or irrigated



MDS

ninimum of one year)	greement is valid for a time per	
egal land location	Soil type ¹	Acres suitable for manure spreading ²
VW 5 54 4 W4	Black	160ac
Soil type choices: Dark brown and	brown, Grey wooded, Black, Irrigated.	
and within required setbacks from	n water bodies, water wells, residences,	, etc. is not to be included.
ther comments:		
		(E) 50 4 W4
lanure producer (Confined F	eeding Operation) Legal Land L	ocation SE 2 54 4 W4
lanure producer (Confined F	Feeding Operation) Legal Land L	ocation_ SE 2 54 4 W4
6/34	Courtney	Vnnl
lanure producer (Confined F	Courtney	ocationSE 2 54 4 W4 VnnJ Corporate name(if appl)
6/34	ture Courtney	Vnnl
6/34 ate of signing Signa	ture Courtney	Vnnl
6/34 ate of signing Signa	ture Courtney	Vnnl



NRCB USE ONLY				
MINIMUM DISTANCE	SEPARATION			
Methods used to determine d	listance (if applicable):	G	oogle Ea	arth
Margin of error (if applicable)):N/A			
Requirements (m): Category	1: 230 m C	ategory 2:	306 m	Category 3: <u>383 m</u> Category 4: <u>613 m</u>
Technology factor:				☐ YES ☑ NO
Expansion factor:				☐ YES ⊄ NO
MDS related concerns from d	irectly affected parties	or referra	I agencies:	☐ YES NO
LAND BASE FOR MAN	IURE AND COMP	OST API	PLICATION	ON
Land base required:	34 ha	Ann	licant had	s provided adequate land base
Land base listed:	64 ha	Appi	ilcani nas	s provided adequate land base
Area not suitable:	N/A			
Available area	64 ha		R	equirement met: 🗹 YES 🔲 NO
Land spreading agreements r	required: YES	s 🗆 no		
Manure management plan:	☐ YES	s 🔽 NO	ı	f yes, plan is attached:
PLANS				
Submitted and attached cons	struction plans:	YES	□NO	
Submitted aerial photos:		YES		
Submitted photos:		☐ YES	M NO	
GRANDFATHERING				
Already completed:		☐ YES	□ NO 🏒	/ _{N/A}
If already completed, see				



NRCB USE ONLY							
ALL SIGNATURES	IN FILE	▼YES □NO					
DATES OF APPROVAL OFFICER SITE VISITS							
December 19, 2	2024						
CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES							
	t: January 21, 2						
	County of Vermillion			-			
	response received	₩ written/ema	ii 🗆	verbal		no comments received	
Alberta Health Service	es: M/A						
☐ letter sent	response received	☐ written/ema	ii 🗆	verbal		no comments received	
Alberta Environment a	nd Parks:						
letter sent	☐ response received	☐ written/ema	ii 🗆	verbal	\bowtie	no comments received	
Alberta Transportation	n: N/A						
☐ letter sent	☐ response received	☐ written/ema	ii 🗆	verbal		no comments received	
Alberta Regulatory Ser	rvices: N/A						
☐ letter sent	response received	☐ written/ema	ii 🗆	verbal		no comments received	
Other:							
☐ letter sent	response received	☐ written/ema	ii 🗆	verbal		no comments received	
Other:							
☐ letter sent	☐ response received	☐ written/ema	ii 🗆	verbal		no comments received	



		s indicated on site plan)	1. Proposed layer chicken barn					
anure s			2. Manual Pad					
	torage capacity							
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)				
1.	85	18	0					
2,	15	15	0					
of and	or concrete barrier							
Describe	tection how the physical integors as needed	rity of the liner will be maint	ained					



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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete thickness Concrete strength Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums: Solid manure: 2599 (C) Method of sulphate protection: Requirements met: YES NO Condition required: YES NO Report attached: YES NO Report attached: YES NO Report attached: YES NO Requirements met: YES NO Depth to Uppermost groundwater resource: 10.79 m Requirements met: YES NO Requirements met	oncrete liner details	MANAGER STATE OF THE STATE OF T					
Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums: Solid manure: 23MPa (D) Solid manure (wet): 30MPa (C) Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Nine month manure storage volume requirements met NRCB USE ONLY Requirements met: YES NO Depth to Uppermost groundwater resource: 10.79 m Requirements met: YES NO Depth to Uppermost groundwater resource: NA See DS RA24026 Surface water control systems Requirements met: Concrete liner details Applicant to provide documentation confirming concrete information	Concrete thickness	Method of sulphate protection:					
Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums: Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C) Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent NRCB USE ONLY NINCB USE ONLY Nine month manure storage volume requirements met YES YES NO Depth to water table:	4"	Tue 50					
Concrete requirements can be found in Technical Guideline Agdex 096-93 Guideline minimums: Solid manure: 25MPa (D) Requirements met:	Concrete strength	Concrete reinforcement size and spacing					
Guideline minimums: Solid manure (wet): 30MPa (c) Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent MRCB USE ONLY Nine month manure storage volume requirements met	25 mpa	10 mm at 12" O.C.					
NRCB USE ONLY Nine month manure storage volume requirements met	Guideline minimums: Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C) Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent	Requirements met: YES NO Condition required: YES NO					
Depth to water table:	The state of the s						
Depth to Uppermost groundwater resource:	Nine month manure storage volume requirements met $oldsymbol{ abla}$	YES YES With STMS NO					
Depth to Uppermost groundwater resource:	- E m						
N/A see DS RA24026 Surface water control systems Requirements met: YES NO Details/comments: Concrete liner details Applicant to provide documentation confirming concrete information	Depth to Uppermost groundwater resource:	'9 m					
Surface water control systems Requirements met: YES NO Details/comments: Concrete liner details Applicant to provide documentation confirming concrete information	ERST completed: see ERST page for details						
Concrete liner details Applicant to provide documentation confirming concrete information	N/A see DS RA24026						
Concrete liner details Applicant to provide documentation confirming concrete information	Surface water control systems						
Applicant to provide documentation confirming concrete information	Requirements met: YES NO Details/comments:						
Applicant to provide documentation confirming concrete information							
	Concrete liner details						
	Applicant to provide docu	umentation confirming concrete information					
Leakage detection system required: TYES MINO. If we please explain why	Leakage detection system required: ☐ YES MO If y	ves nlease explain why					
Leakage detection system required. In 125 In 165 In yes, please explain why.	Leakage decection system required. El 125 El 116 III	yes, preuse explain wity.					
Last updated: 31 Mar 2020 Page of NRCB USE ONLY		Page of					

