



Shur-Gro Farm Services Ltd.

Box 128

Shoal Lake, MB.

R0J 1Z0

January 30, 2025

Director

Environmental Approvals Branch

Environment and Climate Change

Box 35

14 Fultz Boulevard

Winnipeg, MB. , R3Y 0L6



Dear Director

Please find attached an application for a licence proposal under the Environment Act for Shur-Gro Farm Services Ltd. to continue operating our site which includes a Crop Protection warehouse as well as Bulk Fertilizer west of Shoal Lake MB.

If you have any further questions regarding this application, please do not hesitate to contact me. I will be out of the country Feb. 24 - March 5 returning on March 6 and again March 17 – 31.

Best regards,

Wes Arnfinson

204-365-7097 cel


204-759-4240 office

204-759-4249 fax

wesarnfinson@shur-gro.com

# Environment Act Proposal Form



Name of the development: Shur-Gro Farm Services Ltd.	
Type of development per Classes of Development Regulation (Manitoba Regulation 164/88): Class 1	
Legal name of the applicant: Shur-Gro Farm Services Ltd.	
Mailing address of the applicant: P.O. Box 128	
Contact Person: Wes Arnfinson	
City: Shoal Lake	Province: MB. Postal Code: R0J 1Z0
Phone Number: (204) 759-4240 Fax: (204) 759-4249 email: wesarnfinson@shur-gro.com	
Location of the development: Shoal Lake, MB.	
Contact Person: Wes Arnfinson	
Street Address: 236 Industrial Park Road	
Legal Description: NW 8-17-23	
City/Town: Shoal Lake	Province: MB. Postal Code: R0J 1Z0
Phone Number: (204) 759-4240 Fax: (204) 759-4249 email: wesarnfinson@shur-gro.com	
Name of proponent contact person for purposes of the environmental assessment: Wes Arnfinson	
Phone: (204) 759-4240	Mailing address: Box 128 Shoal Lake, MB. R0J 1Z0
Fax: (204) 759-4249	
Email address: wesarnfinson@shur-gro.com	
Webpage address:	
Date: 2025-01-28	Signature of proponent, or corporate principal of corporate proponent: 
Printed name: Wes Arnfinson	

PRINT

RESET

A complete **Environment Act Proposal (EAP)** consists of the following components:

- ☒ **Cover letter**
- ☒ **Environment Act Proposal Form**
- ☒ **Reports/plans supporting the EAP** (see "Information Bulletin - Environment Act Proposal Report Guidelines" for required information)
- ☒ **Application fee** (Cheque, payable to Minister of Finance, for the appropriate fee)

Per Environment Act Fees Regulation (Manitoba Regulation 168/96):	
Class 1 Developments .....	\$1,000
Class 2 Developments .....	\$7,500
Class 3 Developments:	
Transportation and Transmission Lines ..	\$10,000
Water Developments .....	\$60,000
Energy and Mining.....	\$120,000

**Submit the complete EAP to:**

Director  
Environmental Approvals Branch  
Environment and Climate Change  
Box 35, 14 Fultz Boulevard  
Winnipeg MB R3Y 0L6  
[EABDirector@gov.mb.ca](mailto:EABDirector@gov.mb.ca)

**For more information:**

Toll-Free: 1-800-282-8069  
Phone: 204-945-8321  
Fax: 204-945-5229

[https://www.gov.mb.ca/sd/  
permits\\_licenses\\_approvals/eal/licence/  
index.html](https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/licence/index.html)

Shur-Gro Farm Services Ltd.

Shoal Lake, MB.

### Introduction and Background

After discussions with Nicole Lavalee from Environmental Compliance, it was discovered that this site in Shoal Lake has never had an Environmental Act Licence in place despite it being constructed 40 years ago.

### Site Information

This property is located on the NW 8-17-23 W1 in the RM of Yellowhead. Physical address is 236 Industrial Park Road, Shoal Lake, MB.

The site has a fence around property current to ammonia code of practice.

The site includes two 30,000 USG anhydrous ammonia storage vessels which meet the requirements outlined in the Fertilizer Safety & Security Council & Ammonia Code of Practice Implementation Guide. A valid Certificate of Compliance No. 9401150

Site also includes a volumetric dry fertilizer plant that was newly constructed in November 2012. Consists of 6 x 200MT hopper bottom bins capable for blending. Products currently stored are 46-0-0, Super U, ESN, 11-52-0, 0-0-60 & 21-0-0-24.

Also onsite is a Liquid Fertilizer storage capable of blending. This plant was a new construction in July of 2020. It started with a very compacted firm clay base. 3" of pea gravel on top of base. Layer of geo textile. Contain Enviro Services installed the containment on top of this The liner which is a Linear, Low Density Polyethylene 40-mill thickness on galvanized walls. Then a 2<sup>nd</sup> layer of geo textile. Another 3" of pea gravel was levelled above the liner before tanks were set in place. Containment is capable of holding 1.435 x the biggest fertilizer tank inside. Currently tanks in place will hold a combined 113,900 USG of liquid fertilizer consisting of 28-0-0, 10-34-0 & 15-0-0-20.

We also have a Crop Protection Warehouse that is AWSA certified. Current certification No. 340115

### Operation

Hours of operation are Monday – Friday 8:00AM – 5:00PM. Facility is open longer hours and weekends when busy season is happening.

### Anhydrous Ammonia

- The two storage vessels on site have all the latest emergency shutdown systems in place.
- It has 2 bleed off tanks which is disposed of through our high clearance sprayer when needed.

- We have 3 tandem delivery units which have capacity of 6,800 Kgs. And 1 semi trailer delivery unit with a capacity of 7,800 Kgs
- Nineteen wagons that customers use to apply ranging from 4,000 to 6,000 Kgs of capacity

#### Dry Fertilizer

- Our dry facility consists of the following products and capacities:
  - 46-0-0(Urea) 145,000 kgs
  - Super U(Urea w/ inhibitor) 145,000 kgs
  - ESN(Urea w/ polymer coating) 140,000 kgs
  - 11-52-0(MAP) 175,000 kgs
  - 0-0-60(Potash) 190,000 kgs
  - 21-0-0-24(Ammonium Sulphate) 195,000 kgs
- We have numerous concrete pads that if there are spills get cleaned up and put into plastic drums and spread out onto nearby customer fields if needed.
- When legs are cleaned out twice a year, this waste fertilizer is spread out on neighboring customer fields also.

#### Liquid Fertilizer

- The liquid fertilizer contains the following products and capacities:
  - 28-0-0(Nitrogen) 420,000 kgs
  - 10-34-0(Phosphate) 100,000 kgs
  - 15-0-0-20(Sulphur) 145,000 kgs
- Everything is inside of the containment including the pump and meter stand. There is also a sump pump for pumping out any rain water. There is also a poly hopper that any collections from unhooking hoses into poly tubs gets put into to reuse the waste.
- We empty and flush out tanks every 2 years and spray onto neighboring fields.

#### Crop Protection Warehouse

- Our warehouse is 22.3 m x 11.3 m with a 15.24 cm retention curbing. The volume of this containment is 38 m<sup>3</sup>. This containment equates to 38,950 litres. This will contain any significant spill in the warehouse. Our yard site has a ditch on the south side which drains into the containment area between warehouse and service road. The site map included shows a culvert with a Culvert Block to stop runoff. The containment area measures 30.5 m x 15.25 m with an average depth of 0.3 m which gives us a containment area of 140 m<sup>3</sup>. We are able to contain over 142,950 L.
 

◦ Maximum chem stored at any one time	104,000 Litres
◦ Water from Fire Truck	3,820 Litres
◦ Total	107,820 Litres
◦ Warehouse containment	38,950 Litres
◦ Ditch containment	142,950 Litres
◦ Total containment	181,900 Litres
◦ Containment volume is more than adequate to hold any waste material	

- Warehouse products received and distributed are herbicides, fungicides, insecticides and bagged treated canola seed.
- The building has met AWSA standards since on site in 1993.
- Warehouse has a monitored burglar and Fire Alarm

#### Used oil & used oil filters

- Hazardous Waste Generator Number is MBG15612
- We use Notre Dame Used Oil and Filter Depot for collection when needed.

#### Diesel Fuel and Gasoline

- Storage with a concrete containment in place

#### Clean Farms empty chemical jug return depot

- Customers can return rinsed empty jugs that are bagged. We call Clean Farms to pickup when required.

#### Description of Existing Environment

- The area surrounding the property is primarily used for Agriculture and located approximately 1.35 kms west of the Town limits in the Industrial Park on south side of #16 hwy.
- Our closest business neighbor is Westbend Ventures who are 225 meters to the SW of us.
- Highway #16 is 25 meters north.
- CP rail line is 30 meters to the South.
- Bell/MTS cellular tower is 130 meters to the south.
- Shoal Lake Veterinary clinic is 526 meters to the east.
- The closest residential is 1.38 kms to the west.
- Soil and well water tests are included with this package.

#### Description of Environmental Effects

- Should be no negative effects to the environment. There is several protection layers in place to protect people and environment.
- Firstly, all personnel are trained on a regular basis for their specific job requirements including safety in handling product, how to use emergency response equipment, how to read an SDS and what their specific obligations are should an emergency response be initiated.
- Secondly, an Emergency Response Team is available 24 hours/day, 7 days/week in the event of an accidental release and this contact number is posted on a sign on the perimeter fence by the main entrance gate.
- Thirdly, in addition to the external audits by AWSA, Ammonia Code of Practice & Transport Canada; periodic daily, weekly and monthly checklist are conducted to verify location compliance with applicable regulations and company policies.

#### Description of Environmental Impact and Mitigation Measures

- All personnel are trained on a regular basis for their specific job requirements including safety in handling product, how to use emergency response equipment, how to read an SDS and what their specific obligations are should an emergency response be initiated. This plan includes, but is not limited to, items which will address: measures implemented for release prevention, including emergency response equipment and supplies; security; and personnel training. The plan is available at the site at all times.
- There is no infrastructure in the process of being decommissioned at this time.

## STATUS OF TITLE

Title Number **1808666/5**  
Title Status **Accepted**  
Client File



### 1. REGISTERED OWNERS, TENANCY AND LAND DESCRIPTION

SHUR-GRO FARM SERVICES LTD.

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON IN THE  
FOLLOWING DESCRIBED LAND:

LOT 1 PLAN 7766 NLTO  
EXC: ROAD PLAN 39575 NLTO  
IN NW 1/4 8-17-23 WPM

The land in this title is, unless the contrary is expressly declared, deemed to be subject to the reservations and restrictions set out in section 58 of *The Real Property Act*.

### 2. ACTIVE INSTRUMENTS

No active instruments

### 3. ADDRESSES FOR SERVICE

SHUR-GRO FARM SERVICES LTD.  
BOX 128  
SHOAL LAKE MB  
R0J 1Z0

### 4. TITLE NOTES

No title notes

### 5. LAND TITLES DISTRICT

Neepawa

### 6. DUPLICATE TITLE INFORMATION

Duplicate not produced

### 7. FROM TITLE NUMBERS

206327/5                  Balance

### 8. REAL PROPERTY APPLICATION / CROWN GRANT NUMBERS

No real property application or grant information



**9. ORIGINATING INSTRUMENTS**

Instrument Type: Request Electronic Title Conversion

Registration Number: 1016080/5

Registration Date: 2001-06-14

From/By: NEEPAWA LAND TITLES OFFICE - INTERNAL

To:

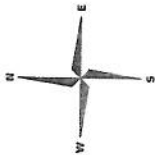
Amount:

**10. LAND INDEX**

Lot 1 Plan 7766

IN NW 8-17-23W EX ROAD PLAN 39575

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE  
SYSTEM OF TITLE NUMBER 1808666/5



Revised on February 5, 2025

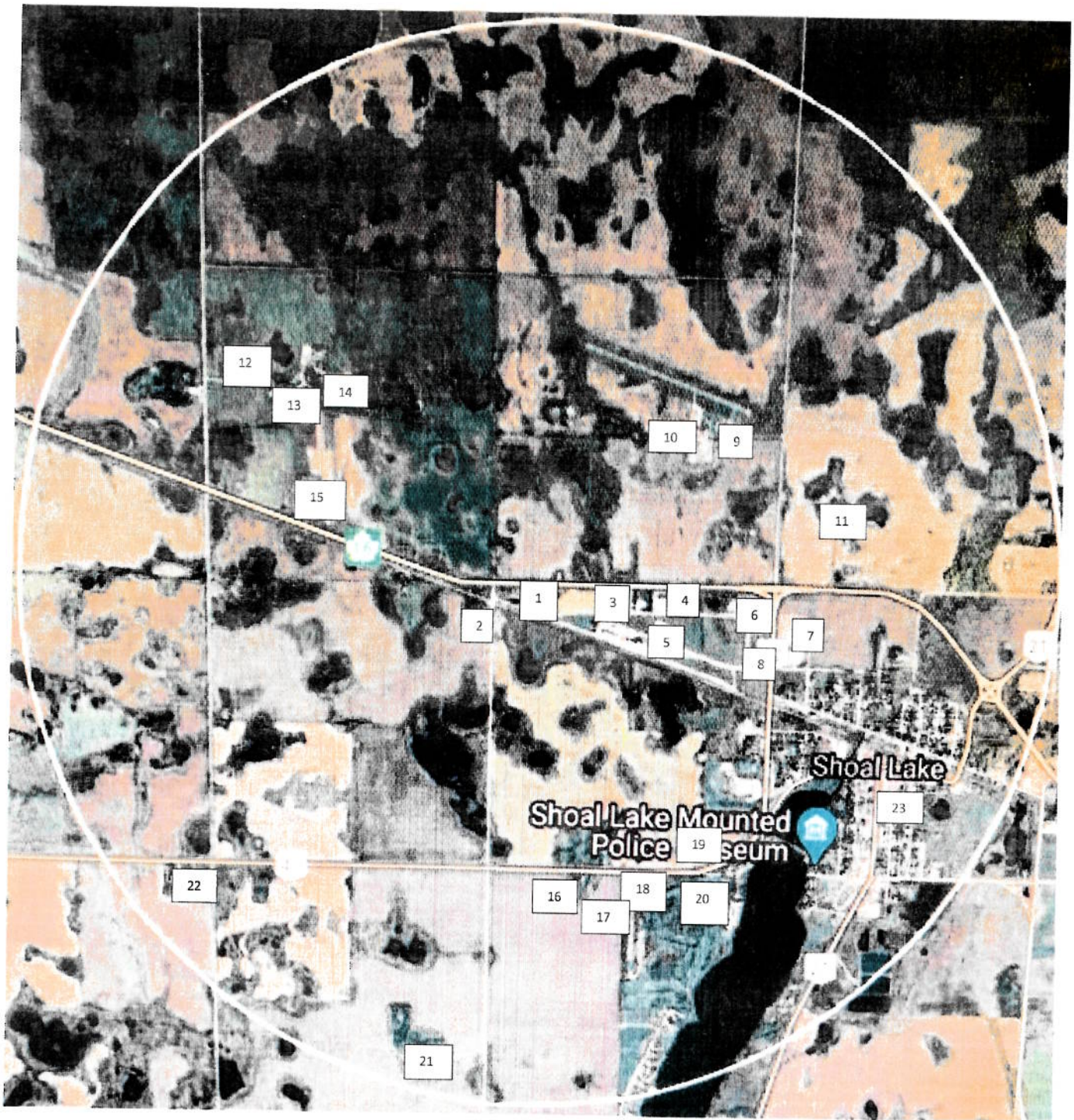
## SITE MAP



### Legend:

- |  |   |                      |
|--|---|----------------------|
| 1 – Office; 48 m from chem storage                 | 7 – Fuel Storage                          | W Water Well         |
| 2 – Chemical Storage Building                      | 8 – NH3 Storage; 74 m from chem storage   | E Electrical Shutoff |
| 3 – Old Shop; tool and tire storage                | 8a – NH3 storage; 78 m from chem storage  | S Safety Equipment   |
| 4 – New Shop; 72 m from chem storage               | 9 – Empty bulk chem container storage     | F Fire Extinguisher  |
| 5 – Liquid Fertilizer Storage & Containment        | 10 – Westbend Ventures Inc (Muster Point) | W Water Trough       |
| 6 – Dry Fertilizer Storage; 46 m from chem storage | 11 – Clean Farms jug returns              | Shutoff Cable        |
|  |   | NH3 Unload Area      |
- 
- |                               |                       |
|-------------------------------|-----------------------|
| C Culvert                     | ● Fence               |
| ■ Culvert Block (stop runoff) | - - - Locking Gate    |
| ■ Wind Sock                   | ⌋ Pedestrian Door     |
| ■ Liquid Fertilizer Bins      | ⌋ Overhead Door       |
| ■ Dry Fertilizer Bins         | → Direction for Water |
| ■ Forklift                    | Runoff                |





1. Shur-Gro Farm Services 204-759-4240	2. Westbend Ventures 204-759-2483	3. Shoal Lake Veterinary Clinic 204-759-2727
4. S.H. Dayton Ltd. 204-759-2065	5. Richardson Pioneer 204-759-2917	6. Yellowhead Tire Auto & Ag 204-759-3355
7. MazerGroup 204-759-2126	8. Redfern Farm Services 204-759-2029	9. Shoal Lake Airport 204-759-2655
10. Prairie Dusters 204-796-1513	11. Derek Jenkins 204-365-7033	12. Carey & Andrea Findlay 204-365-7644
13. Glen & Katherine Findlay 204-365-7700	14. Gary & Joanne Findlay 204-365-7344	15. Keith & Sally Shurveil 204-759-2426
16. Mark & Cindy Swereda 204-759-3351	17. Mike & Shawna Susinski 204-759-3457	18. Pete & Sherry Baydak 204-759-2546
19. Dale & Linda Newton 204-759-2607	20. Lakeside Golf Club 204-759-2002	21. Ron & Brenda Susinski 204-759-2220
22. Carol Shust 204-759-2261	23. R.M. of Yellowhead 204-759-2565	



**Shoal Lake, Manitoba**

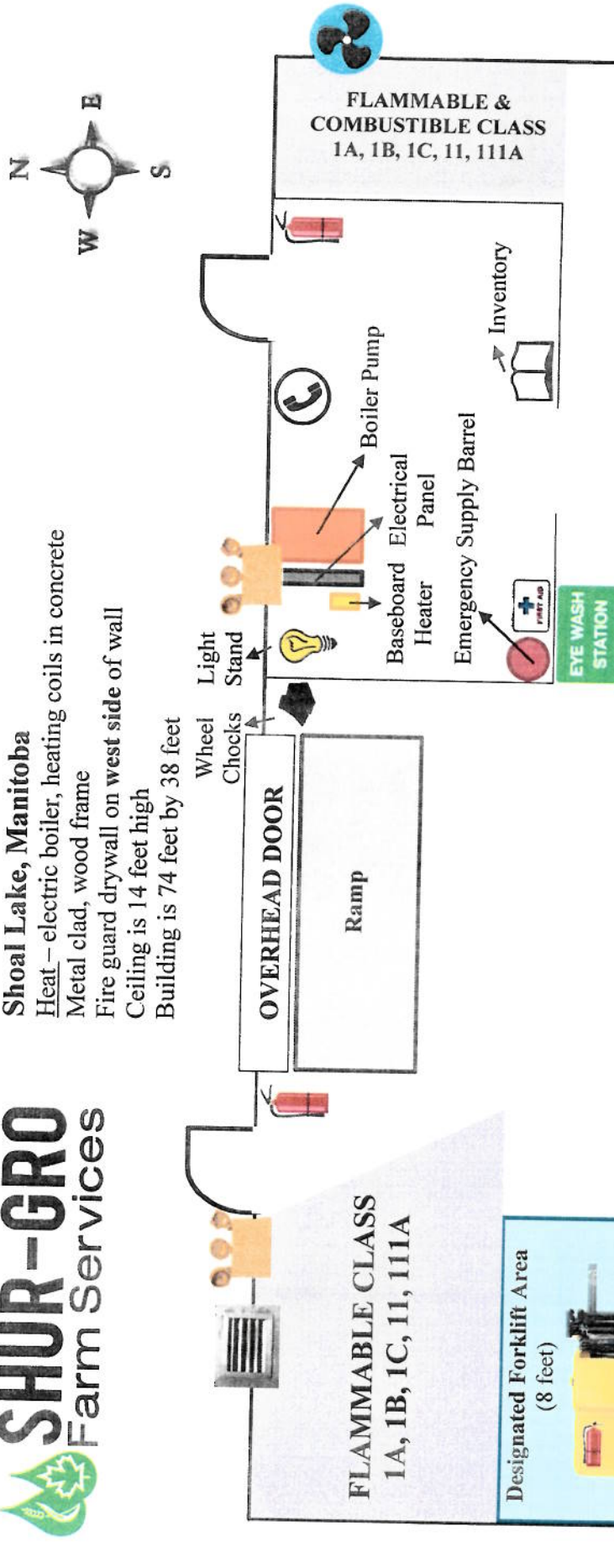
Heat – electric boiler, heating coils in concrete

Metal clad, wood frame

Fire guard drywall on west side of wall

Ceiling is 14 feet high

Building is 74 feet by 38 feet



**NON REGULATED CLASS  
4, 6, 8, and 9**

## Inter-Departmental Memo

To: Al Shier  
Senior District Planner  
Municipal Planning Branch  
112 - 340 - 9th. Street  
Brandon, Manitoba R7A 6C2

Date: September 13, 1984  
From: A. O. Toews, Agrologist  
Agricultural Extension Centre  
1129 Queens Avenue  
Brandon, Manitoba  
R7A 1L9

Subject

Telephone: 728-5724 ext. 213.

Proposal to Subdivide Part N.W. 1/4 Sec. 8-17-23 W.P.M.

File No.: S-84-14-1895

R. M. of Shoal Lake (Baydak)

The agricultural information and comments from our department on the above proposed subdivision are as follows:

### Soil Types:

Subdivision - Newdale Clay Loam (Calcareous and Salinized Associates)

Surrounding Area - Newdale Clay Loam (Calcareous and Salinized Associates)

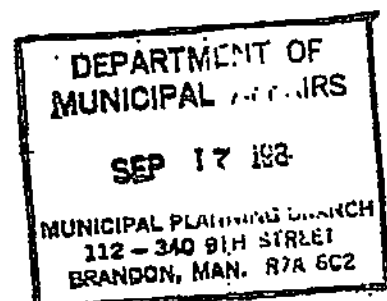
### Soil Capability:

GLE 276<sup>3</sup>  
TW

Manitoba Department of Agriculture has no objection to the proposed subdivision.

A. O. Toews  
Land Resource Specialist

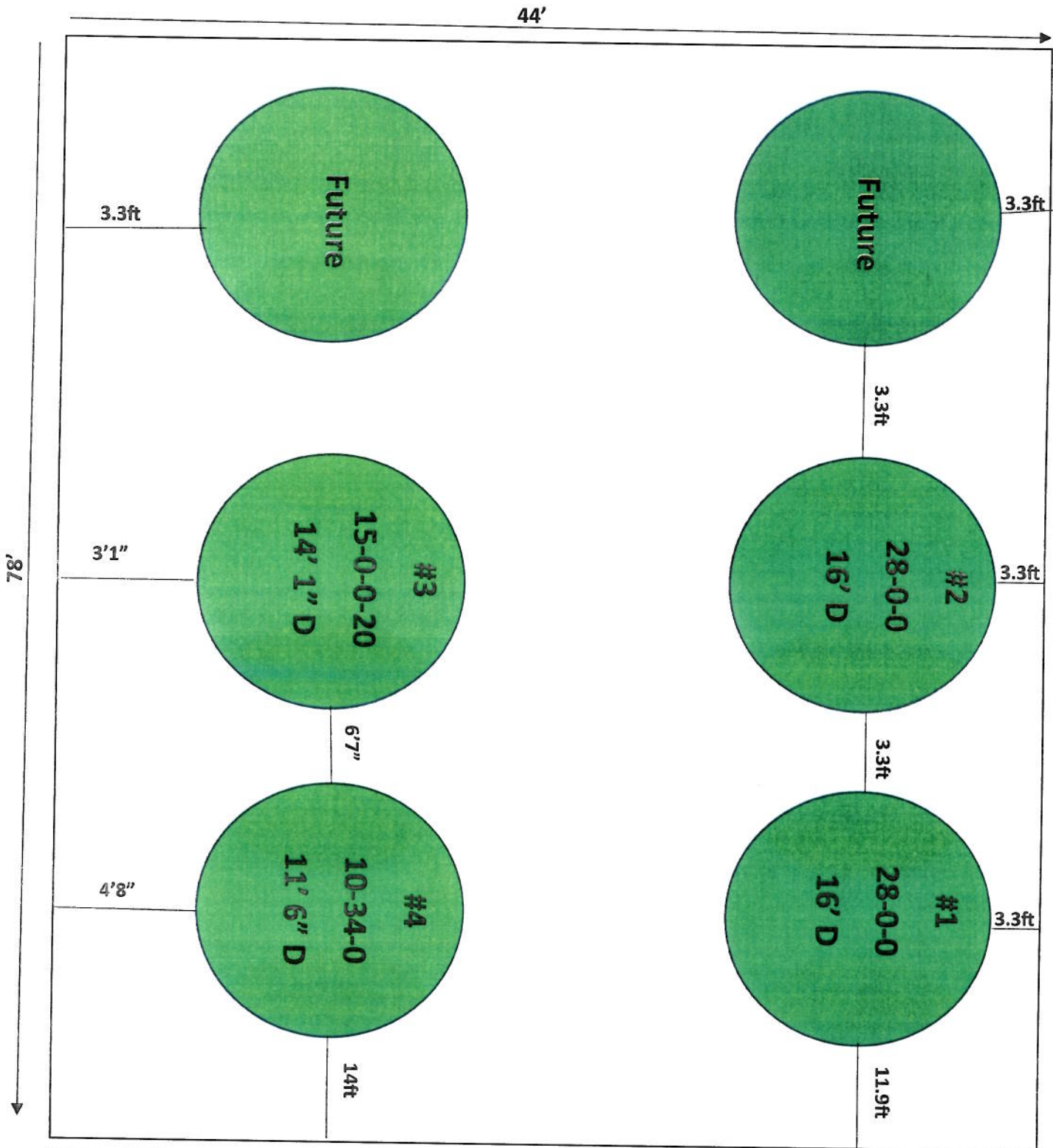
/bjw





Revised January 30, 2025

# Liquid Tank Map



Wall Height- 44"

Volume of containment less max volume of 6 tanks

Biggest tank volume if leaked out = 6032 ft<sup>3</sup>

Containment is capable of holding 1.435 + biggest tank \_\_\_\_\_

12,561 ft<sup>3</sup>

<3903 ft<sup>3</sup>>

8658 ft<sup>3</sup>= containment available



# Agrichemical Warehousing Standards Association

## Certificate of Compliance Warehousing Standards

In accordance with the terms of your application, this certificate confirms that

**Shur-Gro Farm Services Ltd.**

for its warehouse located at **NW 8-17-23 W1 Shoal Lake MB R0J 1Z0**  
has met, at the date of this certificate, the requirements of the Agrichemical Warehousing Standards Association Warehousing Audit Protocols, based on the results of an independent audit conducted in respect of the above facility.

**December 15th 2023**  
Effective Date

**December 31st 2025**  
Expiry Date



Agrichemical Warehousing  
Standards Association

**January 29th 2025**  
Date

Chairman

No. 340115



FERTILIZER CANADA

FERTILISANTS CANADA

## Certificate of Compliance

In accordance with the terms of your application, this certificate confirms that

### **Shur-Gro Farm Services Ltd.**

for its facility located at NW 8-17-23 W1 Shoal Lake MB R0J 1Z0

has met, at the date of this certificate, the requirements of Fertilizer Canada's Anhydrous Ammonia Code of Practice based on the results of an independent audit conducted in respect to the above facility.

**December 20th 2023**

Audit Date

**[Redacted Signature]**  
President & CEO, Fertilizer Canada



**Audited By:** Agrichemical Warehousing  
Standards Association

**No. 9401150**

**December 31st 2025**

Expiry Date



LOCATION - NE08-17-23W

Owner - VET CLINIC Driller - COSENS DRILLING LTD.  
 Well ID - T.H.1 Well Use - Test Well  
 Date Completed - Sep/28/83 Water Use -

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	6	LOOSE BROWN TILL
6	13	BROWN GRAVEL
13	22	BROWN TILL
22	43	GREY TILL
43	46	COARSE SAND
46	58	GREY TILL
58	59.5	FINE SAND
59.5	70	GREY TILL
70	71	SAND

From	To (ft.)	Log
71	73	MEDIUM SAND
73	76	GREY TILL
76	77	MEDIUM SAND
77	108	GREY TILL SAND LAYERS
108	109	COARSE SAND
109	119	HARD SHALE TILL
119	137	GREY TILL
137	139	FINE SAND
139	160	GREY TILL

Aquifer - SG

Top of Casing - 0.0 ft. below ground

LOCATION - NE06-17-23W

Owner - VET CLINIC Driller - COSENS DRILLING LTD.  
 Well ID - Well Use - Test Well  
 Date Completed - Sep/29/83 Water Use -

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	22	BROWN TILL
22	40	GREY TILL
40	41	GRAVEL
41	66	GREY TILL SAND LAYERS
66	69	GRAVEL
69	71	GREY TILL
71	75	SHALE GRAVEL

From	To (ft.)	Log
75	82	TILL SAND LAYERS
82	102.5	GREY TILL
102.5	103	SAND
103	104	TILL
104	117	TILL, LAYERS OF SAND
117	120	TILL

Aquifer - SG

Top of Casing - 0.0 ft. below ground

LOCATION - NE08-17-23W

Owner - VET CLINIC Driller - COSENS DRILLING LTD.  
 Well ID - Well Use - Production  
 Date Completed - Nov/01/83 Water Use - Domestic, Livestock

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	7	LOOSE BROWN TILL
7	21	BROWN TILL
21	36	GREY TILL
36	38	BROWN GRAVEL
38	45	GREY TILL WITH SAND LAYERS

From	To (ft.)	Log
45	50	COARSE BROWN SAND
50	126	GREY TILL WITH SAND AND GRAVEL LAYERS
126	140	SAND AND GRAVEL, DIRTY
140	146	GREY CLAY WITH SHALE STRINGERS
146	180	SOFT CLAY, SHALE

Aquifer - SG

WELL CONSTRUCTION

From	To (ft.)	Inside Dia. (in)	Outside Dia. (in)	Screen Slot Size (in)	Type	Material
0	129				INSERT	PLASTIC
129	139	5.0	5.0	.018	WIRE WOUND	S. S.
						SILICA S.

Top of Casing - 0.0 ft. below ground

PUMPING TEST

Date : Nov 01 83 Pumping @ 5 Imp. gallons/minute  
 Water level before pumping: 35 ft. below ground  
 Pumping level at end of test: 94 ft. below ground  
 Test duration: 2 hours, minutes Water temperature: ?? degrees F

LOCATION - NW08-17-23W

Well ID - Driller - COSENS DRILLING LTD.  
 Date Completed - Jul/25/85 Well Use - Test Well  
 Water Use -

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	21	TILL ; BROWN
21	55	TILL ; GREY

From	To (ft.)	Log
55	57	SAND ; GREY, FINE, CLAYEY
57	160	SHALE ; ODNANAH SOFT

Aquifer - DW

Top of Casing - 0.0 ft. below ground

REMARKS

LOCATION - NW08-17-23W

Well ID -  
Date Completed - Jul/26/85

Driller - COSENS DRILLING LTD.  
Well Use - Production  
Water Use - Domestic

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	18	TILL ; BROWN
18	54	TILL ; GREY
54	66	SAND ; BROWN, FINE
66	68	TILL ; GREY
68	70	GRAVEL

From	To (ft.)	Log
70	78	TILL ; GREY, MEDIUM SAND LAYERS
78	88	SAND ; FINE, CLAYEY
88	94	TILL ; GREY, SANDY
94	123	SAND ; FINE
123	150	TILL ; GREY

Aquifer - SG

WELL CONSTRUCTION

From	To (ft.)	Inside Dia.(in)	Outside Dia.(in)	Screen Slot Size (in)	Type	Material
0	101	5.0			INSERT	PVC
101	121	4.0		.015	WIRE WOUND	S. S.
101	121					QUARTZ S.

Top of Casing - 0.0 ft. below ground

PUMPING TEST

Date : Jul 26 85 Pumping @ 60 Imp. gallons/minute  
Water level before pumping: 28 ft. below ground  
Pumping level at end of test: ft. below ground  
Test duration: 2 hours, 30 minutes Water temperature: 77 degrees F

REMARKS

EC = 2200

LOCATION - SW08-17-23W

Owner - J BAYDOK  
Well ID -  
Date Completed - Jul/08/63

Driller - DOAN, T.C.  
Well Use - Production  
Water Use - Domestic

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	20	BROWN CLAY, FEW PEBBLES
20	40	BLUE CLAY
40	50	BROWN CLAY

From	To (ft.)	Log
50	70	BLUE CLAY
70	76	SOFT SHALE
76	95	HARD SHALE

Aquifer - SH

WELL CONSTRUCTION

From	To (ft.)	Inside Dia.(in)	Outside Dia.(in)	Screen Slot Size (in)	Type	Material
0	77	4.5				
77	95				SL. PIPE	

Top of Casing - 0.0 ft. below ground

PUMPING TEST

Date : Jul 08 63 Pumping @ 15 Imp. gallons/minute  
Water level before pumping: 10 ft. below ground  
Pumping level at end of test: 30 ft. below ground  
Test duration: 4 hours, minutes Water temperature: 43 degrees F

REMARKS

450 FT N OF HWY #41A, GROUND LEVEL ELEV EST 1805 FT

LOCATION - NE08-17-23W

Owner - C M HEREFORD FARM  
Well ID -  
Date Completed - Nov/23/67

Driller - ROBINSON, PETER  
Well Use - Production  
Water Use - Domestic

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	24	YELLOW CLAY
24	105	BLUE CLAY

From	To (ft.)	Log
105	123	SAND AND GRAVEL, WATER 105-123 FEET

Aquifer - SG

WELL CONSTRUCTION

From	To (ft.)	Inside Dia.(in)	Outside Dia.(in)	Screen Slot Size (in)	Type	Material
0	123	5				

Top of Casing - 0.0 ft. below ground

# PUMPING TEST

Date : Nov 23 67 Pumping @ 10 Imp. gallons/minute  
Water level before pumping: 23 ft. below ground  
Pumping level at end of test: 60 ft. below ground  
Test duration: 30 hours, minutes Water temperature: 77 degrees F

## REMARKS

WEST END OF SHOAL LAKE

## LOCATION - SE08-17-23W

Owner - E GARDINER Driller - ROBINSON, PETER  
Well ID - Well Use - Production  
Date Completed - Oct/20/67 Water Use - Domestic

## WELL LOG (Imperial Units)

From	To (ft.)	Log	From	To (ft.)	Log
0	21	YELLOW CLAY	78	80	SAND, WATER AT 78 FEET
21	78	BLUE CLAY			

Aquifer - SG

## WELL CONSTRUCTION

From	To (ft.)	Inside Dia. (in)	Outside Dia. (in)	Screen Slot Size (in)	Type	Material
0	80 casing	5				

Top of Casing - 0.0 ft. below ground

## PUMPING TEST

Date : Oct 20 67 Pumping @ 6 Imp. gallons/minute  
Water level before pumping: 30 ft. below ground  
Pumping level at end of test: 40 ft. below ground  
Test duration: 100 hours, minutes Water temperature: 77 degrees F

## REMARKS

WEST END OF SHOAL LAKE

## LOCATION - SE08-17-23W

Owner - D BOULANGER Driller - ROBINSON, PETER  
Well ID - Well Use - Production  
Date Completed - Oct/19/68 Water Use - Domestic

## WELL LOG (Imperial Units)

From	To (ft.)	Log	From	To (ft.)	Log
0	6	BROWN CLAY	21	90	BLUE CLAY
6	21	YELLOW CLAY	90	102	SHALE, WATER 99-102 FEET

Aquifer - SH

## WELL CONSTRUCTION

From	To (ft.)	Inside Dia. (in)	Outside Dia. (in)	Screen Slot Size (in)	Type	Material
0	100 casing	4.5				

Top of Casing - 0.0 ft. below ground

## PUMPING TEST

Date : Oct 19 68 Pumping @ 10 Imp. gallons/minute  
Water level before pumping: 30 ft. below ground  
Pumping level at end of test: 50 ft. below ground  
Test duration: 10 hours, minutes Water temperature: 77 degrees F

## REMARKS

WEST END OF SHOAL LAKE

## LOCATION - SE08-17-23W

Owner - T C DOWN Driller - ROBINSON, PETER  
Well ID - Well Use - Production  
Date Completed - Oct/03/69 Water Use - Domestic

## WELL LOG (Imperial Units)

From	To (ft.)	Log
0	5	BROWN CLAY
5	20	YELLOW CLAY
20	80	BLUE CLAY
80	84	BLUE CLAY AND SHALE
84	92	SHALE, PROBABLY SHALE GRAVEL, HARD WATER AT 92 FEET

Aquifer - SH

WELL CONSTRUCTION

From	To (ft.)	Inside Dia. (in)	Outside Dia. (in)	Screen Slot Size (in)	Type	Material
0	92 casing	4.5				

Top of Casing - 0.0 ft. below ground

PUMPING TEST

Date : Oct 03 69      Pumping @ 20 Imp. gallons/minute  
 Water level before pumping: 40 ft. below ground  
 Pumping level at end of test: 43 ft. below ground  
 Test duration: 6 hours, minutes      Water temperature: 77 degrees F

REMARKS

.5 MI W OF SHOAL LAKE, OFF PR #41, SW OF MUNICIPAL SHED, NAACL=320 PPM  
 FE=4 PPM. H=35 GPG, CHEMICAL ANALYSIS

LOCATION - SW08-17-23N

Owner - J BAYDAK      Driller - COSENS DRILLING LTD.  
 Well ID -      Well Use - Production  
 Date Completed - Apr/17/90      Water Use - Domestic, Livestock

WELL LOG (Imperial Units)

From	To (ft.)	Log
0	24	BROWN TILL
24	77	GREY TILL

From	To (ft.)	Log
77	97	LAYERS SAND AND SHALE IN TILL
97	120	SAND AND GRAVEL

Aquifer - SG

WELL CONSTRUCTION

From	To (ft.)	Inside Dia. (in)	Outside Dia. (in)	Screen Slot Size (in)	Type	Material
0	108 casing	5			INSERT	PVC
108	113 perforations gravel pack	4		.015	WIRE WOUND	S. S. QUARTZ S.

Top of Casing - 0.0 ft. below ground

PUMPING TEST

Date : Apr 17 90      Pumping @ 60 Imp. gallons/minute  
 Water level before pumping: 34 ft. below ground  
 Pumping level at end of test: ft. below ground  
 Test duration: 3 hours, minutes      Water temperature: 77 degrees F