APPENDIX F WATER WELL INFORMATION

Well_PID:
Owner:
Driller: 25791

J TRAKALO Ford Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1975 Jul 01

WELL LOG

From To Log (ft.) (ft.) 0 2.0 TILL 2.0 39.0 SOFT CLAY 39.0 53.0 LAYERS OF STONES& SAND 53.0 77.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 2.00

GALVANIZED

55.0 77.0 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

6.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 0.0 imp. gallons/min Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

W.SIDE DAY ST.

Well_PID:
Owner: 56848 PRO AUTO

Driller: GUY'S WELL DRILLING

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1986 Sep 16

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	58.0	CLAY
58.0	60.0	TILL
60.0	61.0	LIMESTONE
61.0	66.0	GRAVEL
66.0	75.0	LIMESTONE

WELL CONSTRUCTION

		Casing		Outside		Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	69.0	casing	4.00			INSERT	PVC
69.0	75.0	open hole	4.00				

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 1986 Sep 16

Pumping Rate: 72.0 Imp. gallons/minute Water level before pumping: 41.0 ft. below ground Pumping level at end of test: 42.0 ft. below ground

2 hours, minutes

Test duration:
Water temperature: ?? degrees F

REMARKS

2075 PLESIS RD.

34885

Well_PID:
Owner: BRUNSWICK ENTERPRISE Driller: Friesen Drillers Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1978 Jul 17

WELL LOG

From To Log (ft.) (ft.) 0 25.0 CLAY 25.0 51.0 TILL 51.0 79.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT BLACK

IRON

53.0 79.9 open hole 5.50

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 30.0 Imp. gallons/minute Water level before pumping: 38.0 ft. below ground Pumping level at end of test: 52.0 ft. below ground

Test duration: hours, minutes Water temperature: ?? degrees F

Well PID: 76933

Owner: LEO'S CONCRETE PUMPG

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642574.011
UTMY: 5531964.24
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1993 Sep 15

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	12.0	SILTY CLAY
12.0	40.0	CLAY
40.0	45.0	SILTY CLAY
45.0	50.0	SILTY TILL
50.0	51.0	FRACTURED LIMESTONE
51.0	142.9	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	53.9	casing	5.00				
~ 7 T T 7 7 N T T 7	מת						

GALVANIZED

53.9 142.9 open hole 4.80

Top of Casing: 2.0 ft. below ground

PUMPING TEST

Date: 1993 Sep 15

Pumping Rate: 40.0 Imp. gallons/minute Water level before pumping: 38.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 60.0 imp. gallons/minute 38.0 ft. below ground hours, 30 minutes

Water temperature: ?? degrees F

REMARKS

LEOS CONCRETE PUMPING LTD, 259 GUNN RD, WHILE PUMPING WATER SEEMED TO HAVE A SLIGHT ROTTEN EGG SMELL, PUMPED WITH AIR

20959

Well_PID:
Owner: L VAN WALLEGHEN

AQUARIUS WELL DRILLING Driller:

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1974 Apr 09

WELL LOG

From To Log

(ft.) (ft.)

0 4.0 DARK CLAY 4.0 50.0 YELLOW CLAY 50.0 84.9 WHITE LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 2.00

GALVANIZED

2.00 54.0 84.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 36.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes

Water temperature: ?? degrees F

REMARKS

CORDITE + PLESSIS RD.

Well_PID:
Owner: 18643 L PIDHIRNEY

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1973 Oct 20

WELL LOG

From To Log (ft.) (ft.)

0 42.0 CLAY 42.0 68.0 SILTY TILL 68.0 101.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 4.00

GALVANIZED

69.0 101.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 42.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes

Water temperature: ?? degrees F

REMARKS

1999 PLESIS ROAD

Well_PID: 24139 Owner: S DOWHAN S DOWHAN

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1975 Jun 10

WELL LOG

From To Log (ft.) (ft.)

0 46.0 CLAY 46.0 61.0 SILTY TILL 61.0 62.0 FRACTURED LIMESTONE 62.0 124.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C

GALVANIZED

64.0 124.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

8.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 32.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

1480 SPRINGFIELD RD

Well_PID:
Owner: 7645

AUTOMATIC AUTO

Driller: SONIC DRILLING CO. LTD

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642574.011 UTMY: 5531964.24 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1965 Oct 18

WELL LOG

From To Log (ft.) (ft.) 0 33.0 DARK GREY CLAY
33.0 33.5 GRAVEL
33.5 54.0 BLUE CLAY
54.0 55.0 BOULDERS
55.0 57.0 DARK BLUE CLAY
57.0 90.9 LIMESTONE WITH WATER BEARING FISSURES

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 5.00

61.0 90.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

1965 Oct 18 Date:

Pumping Rate: 149.9 Imp. gallons/minute

Water level before pumping: ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 4 hours, minutes Test duration:
Water temperature: 41.000 degrees F

REMARKS

AUTOMATIC AUTO + METAL PRESS

Well_PID: 73316
Owner: TEAM AUTO

Driller: Perimeter Drilling Ltd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642574.011
UTMY: 5531964.24
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1991 Sep 06

WELL LOG

From To Log
(ft.) (ft.)
0 51.0 CLAY
51.0 58.0 TILL
58.0 121.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 65.0 121.9 open hole 4.80

Top of Casing: ft. below ground

PUMPING TEST

Date: 1991 Sep 06

Pumping Rate: 45.0 Imp. gallons/minute Water level before pumping: 35.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: hours, minutes Water temperature: ?? degrees F

REMARKS

2073 PLESSIS RD.

Well PID: 74849

Owner: GRAINMASTER MFG LTD Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642574.011
UTMY: 5531964.24
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1992 Jan 06

WELL LOG

From To Log
(ft.) (ft.)
0 43.0 CLAY
43.0 54.0 TILL
54.0 114.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 56.0 114.9 open hole 4.50

Top of Casing: 1.5 ft. below ground

PUMPING TEST

Date: 1992 Jan 06

Pumping Rate:

25.0 Imp. gallons/minute
Water level before pumping:

30.0 ft. below ground
Pumping level at end of test:

40.0 ft. below ground

Test duration: 1 hours, minutes

Water temperature: ?? degrees F

REMARKS

LOT 118, SPRINGFIELD RD

Well PID: 138780

Owner: MAPLE LEAF DRILLING

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642969.195
UTMY: 5532381.52

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2006 Sep 14

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	1.0	CLAY FILL
1.0	28.0	BROWN CLAY
28.0	43.0	GREY CLAY
43.0	47.0	GREY CLAY WITH STONES
47.0	49.0	BROWN TILL
49.0	50.0	LIMESTONE GRAVEL
50.0	52.0	SOFT LIMESTONE
52.0	100.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	52.0	CASING	5.00				PVC
52.0	100.0	OPEN HOLE	4.75				
8.0	45.0						CEMENT

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2006 Sep 14

Pumping Rate: 50.0 Imp. gallons/minute

Water level before pumping: ?? ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: hours, 30 minutes

Water temperature: ?? degrees F

REMARKS

LARGE FRACTURE AT ABOUT 66'. WELL IS NORTHWEST OF BUILDING. PUMPING AIR. LOST WATER AT 50'.

Well_PID: 143872 Owner: CYR CONSTR CYR CONSTRUCTION Stonewall Drilling Driller:

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642168.109 UTMY: 5532369.83

Accuracy XY: 5 GENERAL [1KM-8KM] [WITHIN TOWNSHIP]

UTMZ:

Accuracy Z:

Date Completed: 2007 Jun 19

WELL LOG

From To Log

(ft.) (ft.)

0 41.0 CLAY 41.0 53.0 FRACTURED LIMESTONE WITH GRAVEL 53.0 186.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 54.0 CASING 4.20 4.50 INSERT

GALVANIZED

10.0 54.0 CASING GROUT

BENTONITE

54.0 186.0 OPEN HOLE 4.00

Top of Casing: 1.0 ft. above ground

PUMPING TEST

2007 Jun 19 Date:

20.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 21.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: ??? hours, ?? minutes Water temperature: ?? degrees F

REMARKS

1076 OXFORD STREET, SPRINGFIELD. WELL IS NORTH OF HOUSE, PUMPED BY AIR.

Well PID: 135302

Owner: Z WIECZORKIEWICZ

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642969.195
UTMY: 5532381.52

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2005 Oct 11

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	4.0	CLAY TILL
4.0	32.0	BROWN CLAY
32.0	43.0	GREY CLAY
43.0	54.0	SOFT TILL
54.0	57.0	HARD TILL WITH LIMESTONE
57.0	100.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material		
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)				
0	58.0	CASING	5.00			INSERT	PVC		
58.0	100.0	OPEN HOLE	4.00						
20.0	40.0	CASING GROUT							
BENTONITE									
40.0	58.0	CASING GROUT					CUTTINGS		

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date: 2005 Oct 11

Pumping Rate:
Water level before pumping:
40.0 Imp. gallons/minute
36.0 ft. below ground
Pumping level at end of test: ?? ft. below ground
Test duration:
1 hours, minutes
Water temperature:
?? degrees F

REMARKS

LOT 2 SPRINGFIELD RD, CORNER OF OXFORD, N OF HOUSE, PUMPED BY AIR

134159

Well_PID:
Owner: BESTWAY BUILDERS LTD Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642969.195 UTMY: 5532381.52

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2004 Nov 18

WELL LOG

From To Log

(ft.) (ft.)

0 15.0 CLAY

15.0 62.0 TILL AND GRAVEL 62.0 225.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

52.0 225.0 OPEN HOLE 4.00

12.0 62.0 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

2005 Nov 18 Date:

Pumping Rate: 1.0 Imp. gallons/minute Water level before pumping: 38.0 ft. below ground Pumping level at end of test: 55.0 ft. below ground Test duration: hours, 40 minutes

Test duration: hours, 40 m Water temperature: ?? degrees F

REMARKS

SPRINGFIELD RD, W OF HOUSE

Well_PID: 26670
Owner: DEN CHES ENTERPRISES
Driller: JOHN B. CASWELL DRILLING

Well Name:

Well Use: PRODUCTION Water Use: Industrial UTMX: 642168.109 UTMY: 5532369.83

Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1976 May 01

WELL LOG

From To Log (ft.) (ft.) 0 30.0 CLAY 30.0 45.0 TILL 45.0 56.0 GRAVEL RUBBLE 56.0 59.5 FRACTURED LIMESTONE 59.5 102.9 HARD LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

9.0 59.5 casing 4.50

GALVANIZED

59.5 102.9 open hole 3.90

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 12.0 Imp. gallons/minute Water level before pumping: 36.0 ft. below ground Pumping level at end of test: ?? ft. below ground Water temperature: Test duration: hours, minutes ?? degrees F

REMARKS

118 SPRINGFIELD RD

Well PID: 108563

Owner: J 3 HOLDINGS INC

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642168.109
UTMY: 5532369.83

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1997 Oct 29

WELL LOG

From	To	Log	
(ft.)	(ft.)		
0	32.0	CLAY	
32.0	41.0	TILL	
41.0	42.2	RUBBLE LIMESTONE	
42.2	53.0	LIMESTONE	
53.0	61.0	LOOSE RUBBLE, SOME CLAY	
61.0	144.0	LIMESTONE	

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	44.8	CASING	5.20			INSERT	
GALVANIZ	ΞD						

44.8 144.0 OPEN HOLE 4.90

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1997 Oct 29

Pumping Rate: 40.0 Imp. gallons/minute Water level before pumping: 34.0 ft. below ground Pumping level at end of test: 41.0 ft. below ground Test duration: 2 hours, minutes

Water temperature: ?? degrees F

REMARKS

LOT 9 SPRINGFIELD RD, MOST WATER FROM LOOSE RUBBLE ZONE, ABOUT 10 IGPM FROM 61-144 FT, WELL WILL NOT STAY OPEN BELOW LOOSE RUBBLE ZONE

Well_PID: 14298 Owner: C P R

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642168.109
UTMY: 5532369.83
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1970 Nov 10

WELL LOG

From To Log
(ft.) (ft.)

0 7.0 SILT
7.0 41.0 GREY CLAY
41.0 55.0 GREY CLAY, PEBBLES, GRAVEL
55.0 57.0 GRAVEL
57.0 61.0 LIMESTONE, CLAY
61.0 165.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 5.00 61.0 casing 5.00

Top of Casing: ft. below ground

PUMPING TEST

Date: 1970 Nov 10

Pumping Rate: 7.5 Imp. gallons/minute Water level before pumping: 36.0 ft. below ground Pumping level at end of test: 75.0 ft. below ground Test duration: 6 hours, minutes

Test duration: 6 hours, minu Water temperature: ?? degrees F

REMARKS

N OF CPR TRACKS, GROUND LEVEL ELEV EST 763 FT

Well PID: 149541

Owner: BUCKS AUTO PARTS & GENERAL SCRAP Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic

UTMX: 642170 UTMY: 5532372

Accuracy XY: 3 ACCURATE [50-350M] [WITHIN 1/4-SECTION]

UTMZ: 232

Accuracy Z: 4 FAIR - Shuttle at Centroid

Date Completed: 1986 Apr 14

WELL LOG

From To Log (ft.) (ft.) 0 49.0 CLAY 49.0 58.0 TILL 58.0 60.0 LIMESTONE RUBBLE 60.0 145.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 60.0 CASING 4.10 INSERT

GALVANIZED

60.0 145.0 OPEN HOLE 3.80

Top of Casing: 1.7 ft. above ground

PUMPING TEST

Date: 1986 Apr 14

15.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 34.0 ft. below ground Pumping level at end of test: ?? ft. below ground hours, 45 minutes Test duration:

Water temperature: ?? degrees F

REMARKS

1550 SPRINGFIELD RD, CAR SHREDDER

Well_PID:
Owner: 20600 S DOWHAN

Driller: Friesen Drillers Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 644212.474 UTMY: 5531993.54 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1973 Apr 09

WELL LOG

From To Log (ft.) (ft.) 0 12.0 BROWN CLAY 12.0 38.0 BLUE CLAY 38.0 50.0 HARDPAN 50.0 70.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 56.0 casing 4.25 INSERT BLACK

IRON

56.0 70.0 open hole 4.00

Top of Casing: ft. below ground

PUMPING TEST

Date:

5.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 32.0 ft. below ground

Test duration: 4 hours, minutes Water temperature: ?? degrees F

REMARKS

1480 SPRINGFIELD ROAD

76315

Well_PID:
Owner: BRUNSWICK ENTERPRISE Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642168.109 UTMY: 5532369.83 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1993 Apr 05

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	6.0	BACKFILL, CONCRETE, REBAR, STEEL
6.0	35.0	CLAY
35.0	50.0	TILL
50.0	53.0	BROKEN ROCK
53.0	96.9	LIMESTONE

WELL CONSTRUCTION

From	То	Casing	Inside	Outside	Slot	Туре	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	55.0	casing	5.00			INSERT	PVC
55.0	96.9	open hole	4.50				

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 1993 Apr 05

Pumping Rate: 30.0 Imp. gallons/minute Water level before pumping: 40.0 ft. below ground Pumping level at end of test: 45.0 ft. below ground 1 hours, minutes

Test duration:
Water temperature: ?? degrees F

REMARKS

125 BISMARCK ST

Well PID: 21234

Owner: GENERAL SCRAP

Driller: Paul Slusarchuk Well Drilling LTd.
Well Name: WELL # 2 (FIRE PROTECTION)
Well Use: PRODUCTION
Water Use: Industrial,Other

UTMX: 642168.109 UTMY: 5532369.83 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1974 Jul 05

WELL LOG

From To Log (ft.) (ft.)

0 37.0 CLAY

37.0 48.0 TILL 48.0 52.0 SILTY CLAY WITH STONES 52.0 56.0 FRACTURED LIMESTONE 56.0 124.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT BLACK

IRON

56.0 124.9 open hole 5.00

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 60.0 Imp. gallons/minute Water level before pumping: 37.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, 15 minutes
Water temperature: ?? degrees F

REMARKS

CAR SHREDDER TLD

Well PID: 39742

Owner: GENERAL SCRAP

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name: WELL# 3 PRODUCTION Well Use: Water Use: Industrial

UTMX: 642168.109 UTMY: 5532369.83 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1980 Sep 23

WELL LOG

From To Log

(ft.) (ft.)

0 4.0 RUBBLE FILL 4.0 30.0 CLAY 30.0 54.0 TILL 54.0 172.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material

(ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

56.0 casing 6.50 0 BLACK

IRON

56.0 172.9 open hole 6.50

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1980 Sep 23

Pumping Rate: 100.0 Imp. gallons/minute Water level before pumping: 40.0 ft. below ground Pumping level at end of test: 41.0 ft. below ground hours, 30 minutes Test duration:

Water temperature: ?? degrees F

Well PID: 18642

Owner: GENERAL SCRAP

Owner: GENERAL SCRAP

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name: WELL#1 (SHOP)

Well Use: PRODUCTION

Water Use: Domestic UTMX: 642168.109 UTMY: 5532369.83

Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1973 Oct 24

WELL LOG

From To Log (ft.) (ft.) 0 42.0 CLAY 42.0 53.0 TILL 53.0 57.0 FRACTURED STONE& CLAY 57.0 224.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 57.0 casing 4.00

GALVANIZED

57.0 224.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

8.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 37.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

SCRAP AND CAR SHREDDER

Well PID: 60852

Owner: SOUTHWOOD CONST Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642981.464 UTMY: 5531572.56 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1987 May 08

WELL LOG

From To Log (ft.) (ft.) 0 43.0 CLAY 43.0 52.0 TILL 52.0 56.0 LIMESTONE RUBBLE 56.0 94.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type 57.0 casing Dia.(in) Dia.(in) Size(in) 4.20 0 INSERT BLACK

IRON

57.0 94.9 open hole 4.00

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date: 1987 May 08

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 40.0 ft. below ground

Test duration: 1 hours, minutes

Water temperature: ?? degrees F

Well_PID:
Owner: 80875 F C WOODWORK

Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642981.464 UTMY: 5531572.56 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1995 Jun 07

WELL LOG

From To Log (ft.) (ft.) 0 48.0 CLAY

48.0 58.0 TILL AND BROKEN ROCK 58.0 114.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type
(ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 60.0 casing 5.00 INSERT
60.0 114.9 open hole 4.00 Material

INSERT PVC

Top of Casing: 3.0 ft. below ground

PUMPING TEST

1995 Jun 07 Date:

Pumping Rate: 50.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 50.0 ft. below ground

Test duration: 1 hours, minutes

Water temperature: ?? degrees F

REMARKS

11 GUNN RD

130906

Well_PID:
Owner:
Driller: SEVER'S MECHANICAL Perimeter Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 2003 Nov 14

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	54.0	CLAY
54.0	58.0	TILL
58.0	63.0	LIMESTONE
63.0	66.0	SINKHOLE
66.0	280.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	68.0	CASING	5.00			INSERT	PVC
68.0	280.0	OPEN HOLE	4.50				
		CASING GROUT					

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2003 Nov 14

Pumping Rate: 8.0 Imp. gallons/minute Water level before pumping: 38.0 ft. below ground Pumping level at end of test: 238.0 ft. below ground Test duration: ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

219 GUNN RD

134110

Well_PID:
Owner: 4928777 MANITOBA LTD Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642981.464 UTMY: 5531572.56

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2005 Nov 01

WELL LOG

From To Log

(ft.) (ft.)

0 48.0 CLAY 48.0 53.0 FRACTURED LIMESTONE 53.0 186.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

53.6 186.0 OPEN HOLE 4.00

23.0 53.6 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

2005 Nov 01 Date:

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: 41.0 ft. below ground Test duration: hours, 40 minutes

Test duration: hours, 40 m Water temperature: ?? degrees F

REMARKS

355 GUNN RD, W OF BLDG, PUMPED WITH AIR

Well PID: 124702

Owner: KELVIN CARTAGE

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642981.464 UTMY: 5531572.56

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2003 May 23

WELL LOG

From To Log (ft.) (ft.) 0 6.0 FILL 6.0 44.0 CLAY 44.0 58.0 TILL 58.0 64.0 BROKEN LIMESTONE AND GRAVEL

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) PVC 65.0 87.0 OPEN HOLE 4.50 35.0 CASING GROUT CEMENT

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2003 May 23

15.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 30.0 ft. below ground ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

AIR PUMPED 100GPM

Well PID: 76364

Owner: BRANCHES & ROOT CTRE Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642981.464
UTMY: 5531572.56
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1993 May 03

WELL LOG

From To Log
(ft.) (ft.)
0 47.0 CLAY
47.0 58.0 TILL
58.0 124.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 61.0 124.9 open hole 4.75

Top of Casing: 1.5 ft. below ground

PUMPING TEST

Date: 1993 May 03

Pumping Rate: 25.0 Imp. gallons/minute Water level before pumping: 40.0 ft. below ground Pumping level at end of test: 50.0 ft. below ground

Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

BRANCHES + ROOTS GARDEN CENTRE, 261 GUNN RD, 6 INCH SOCKET 59-61 FT

Well PID: 117601 Owner: CUSTOM CENTRE

Driller: Perimeter Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642981.464 UTMY: 5531572.56

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1999 Jul 01

WELL LOG

From To Log (ft.) (ft.) 0 53.0 CLAY

53.0 56.0 TILL BROKEN LIMESTONE 56.0 62.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT Material

PVC

58.0 62.0 OPEN HOLE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

1999 Jul 01 Date:

Pumping Rate: 25.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 30.0 ft. below ground Test duration: ??? hours, ?? minutes

Water temperature: ?? degrees F

REMARKS

207 GUNN RD.

Well PID: 113331

MASTERS PLUMBING Owner:

Driller: Maple Leaf Enterprises LTd.
Well Name: SHOP WELL
Well Use: PRODUCTION
Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1999 Apr 19

WELL LOG

From	То	Log
(ft.	(ft.)	
(0 4.0	CLAY
4.0	0 26.0	SILT, BROWN CLAY
26.0	0 44.0	GREY CLAY
44.0	0 54.0	SILTY SAND AND GRAVEL
54.0	0 115.0	LIMESTONE

WELL CONSTRUCTION

	To (ft.)	Casing Type		Outside Dia.(in)	Slot Size(in)	Туре	Material
		CASING	5.00		222 (211)	INSERT	PVC
56.0	115.0	OPEN HOLE		4.80			
10.0	40.0	CASING GROUT					CEMENT

Top of Casing: 2.0 ft. above ground

PUMPING TEST

1999 Apr 19 Date:

Pumping Rate: 14.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: 34.0 ft. below ground Test duration: ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

201 GUNN RD

Well_PID:
Owner: 114512 M.P.I.C.

Friesen Drillers Ltd. Driller:

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2000 Mar 07

WELL LOG

From To Log (ft.) (ft.) 0 3.0 FILL 3.0 47.0 CLAY 47.0 60.0 TILL 60.0 257.0 LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	62.0	CASING	5.00			INSERT	PVC
62.0	257.0	OPEN HOLE	4.00				
10.0	62.0	CASING GROUT					

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2000 Mar 07

Pumping Rate: 50.0 Imp. gallons/minute Water level before pumping: 35.0 ft. below ground Pumping level at end of test: 60.0 ft. below ground Water temperature: ??? hours, ?? minutes

?? degrees F

REMARKS

1981 PLESSIS RD.

Well PID: 113631

Owner: MPIC

Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2000 Nov 24

WELL LOG

From To Log

(ft.) (ft.)

0 45.0 CLAY

45.0 59.0 TILL 59.0 238.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type
(ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 61.0 CASING 5.00 INSERT
61.0 238.0 OPEN HOLE 4.30 Material

PVC

10.0 61.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2000 Nov 24

75.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 34.0 ft. below ground Pumping level at end of test: 60.0 ft. below ground ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

1981 PLESSIS RD

Well_PID: 78503 Owner: K MCDONALD

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642177.767
UTMY: 5531554.86
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1994 Nov 01

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	3.0	CLAY, BROWN
3.0	5.0	SILT, BROWN
5.0	30.0	BROWN CLAY
30.0	43.0	GREY CLAY
43.0	53.0	SILT TILL
53.0	99.9	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	56.0	casing	5.00			INSERT	PVC
56.0	99.9	open hole		4.75			

Top of Casing: 1.0 ft. below ground

PUMPING TEST

Date:

Pumping Rate:

Water level before pumping:

Pumping level at end of test:

Test duration:

Water temperature:

20.0 Imp. gallons/minute

39.0 ft. below ground

hours, minutes

?? degrees F

REMARKS

BATHROOMS FOR WAREHOUSE, LOT 2 GUNN RD

Well_PID: 26967 Owner: M.P.I.C

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 642177.767
UTMY: 5531554.86
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1976 Sep 30

WELL LOG

From To Log
(ft.) (ft.)
0 2.0 GRAVEL FILL
2.0 46.0 CLAY
46.0 55.0 TILL
55.0 65.0 BROKEN LIMESTONE & CLAY
65.0 236.8 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C

GALVANIZED

62.0 236.8 open hole 4.75

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate:

Water level before pumping:

Pumping level at end of test:

Pumping Rate:

20.0 Imp. gallons/minute

45.0 ft. below ground

1 hours, minutes

Pumping Rate:

20.0 Imp. gallons/minute

REMARKS

1981 PLESSIS RD

Well PID: 153184

Owner: MANITOBA PUBLIC INSURANCE Driller: Friesen Drillers Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic

UTMX: 641946 UTMY: 5531269

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ: 230

4 FAIR - Shuttle at Centroid Accuracy Z:

Date Completed: 2009 May 29

WELL LOG

From To Log (ft.) (ft.)

0 48.0 TILL 48.0 54.0 BROKEN LIMESTONE 54.0 238.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 56.6 CASING 8.00 8.80 WELDED BLACK

IRON

56.6 238.0 OPEN HOLE 7.50

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2009 May 29

Pumping Rate: 350.0 Imp. gallons/minute Water level before pumping: 27.7 ft. below ground Pumping level at end of test: 32.6 ft. below ground Test duration: ??? hours, ?? minutes

Water temperature: ?? degrees F

Well_PID:
Owner: 147538 ALVIN MERINUK Driller: Echo Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic

UTMX: 642215 UTMY: 5531205

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ: 230

Accuracy Z: 4 FAIR - Shuttle at Centroid

Date Completed: 2008 Jul 29

WELL LOG

From To Log (ft.) (ft.) 0 15.0 LIGHT BROWN TILL 15.0 50.0 CLAY 50.0 53.0 WHITE/BROWN TILL 53.0 137.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 55.0 CASING 5.00 INSERT PVC

55.0 137.0 OPEN HOLE 10.0 50.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

2008 Jul 29 Date:

Pumping Rate: 35.0 Imp. gallons/minute Water level before pumping: 40.0 ft. below ground Pumping level at end of test: 41.0 ft. below ground Test duration: ??? hours, ?? Water temperature: ?? degrees F Test duration: ??? hours, ?? minutes

REMARKS

BOX 26. GRP.337. WINNIPEG

Well PID: 53246

Owner: CALDON WELDING

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1985 Apr 10

WELL LOG

From To Log (ft.) (ft.) 0 43.0 CLAY 43.0 51.0 TILL 51.0 57.0 LIMESTONE CLAY LAYERS 57.0 134.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

58.0 134.9 open hole 3.50

Top of Casing: 2.0 ft. below ground

PUMPING TEST

Date: 1985 May 10

10.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 40.0 ft. below ground Pumping level at end of test: ?? ft. below ground hours, 30 minutes Test duration:

Water temperature: ?? degrees F

REMARKS

115 GUNN RD

Well PID: 56803 Owner: MPIC

Driller: Friesen Drillers Ltd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic, Irrigation

UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1986 Jul 11

WELL LOG

From To Log (ft.) (ft.) 0 44.0 CLAY 44.0 59.0 44.0 59.0 TILL 59.0 256.8 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material

Dia.(in) Dia.(in) Size(in) (ft.) (ft.) Type

0 60.0 casing 4.25 INSERT

GALVANIZED

60.0 256.8 open hole 4.00

Top of Casing: 2.5 ft. below ground

PUMPING TEST

Date: 1986 Jul 11

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 41.0 ft. below ground Pumping level at end of test: 42.0 ft. below ground

Test duration: hours, minutes Water temperature: ?? degrees F

REMARKS

1981 PLESSIS RD., CHEMICAL ANALYSIS 1990, WATER RIGHTS PUMP TEST DATA FILE.

Well PID: 123895

Owner: PROTEC SCALE LTD.

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic PRODUCTION UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 2002 Aug 01

WELL LOG

From To Log (ft.) (ft.) 0 3.0 FILL 3.0 45.0 CLAY 45.0 53.0 GREY TILL 53.0 115.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

0 56.0 CASING 5.00 PVC 56.0 115.0 OPEN HOLE 4.50 15.0 45.0 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

2002 Aug 01 Date:

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 40.0 ft. below ground Pumping level at end of test: 45.0 ft. below ground Test duration: ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

159 GUNN RD. 20-30 GPM

Well_PID: 134164
Owner: GLEN KELLER
Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 2004 Sep 10

WELL LOG

From To Log (ft.) (ft.)

0 40.0 CLAY 40.0 50.0 TILL AND SILT 50.0 54.0 FRACTURED LIMESTONE 54.0 110.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

54.0 110.0 OPEN HOLE 4.00

8.0 54.0 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 2004 Sep 10

Pumping Rate: 25.0 Imp. gallons/minute Water level before pumping: 36.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: ??? hours, ?? minutes Water temperature: ?? degrees F

REMARKS

183 GUNN RD, E OF HOUSE, SUPRA BUILDERS, PUMPED WITH AIR

Well_PID:
Owner: 134106 BODDAN SZYSZKO Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2005 Sep 27

WELL LOG

From To Log (ft.) (ft.)

0 50.0 SOFT CLAY 50.0 56.0 TILL 56.0 58.0 FRACTURED LIMESTONE 58.0 145.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

58.6 145.0 OPEN HOLE 4.00

30.0 58.6 CASING GROUT

BENTONITE

Top of Casing: 1.6 ft. above ground

PUMPING TEST

Date: 2005 Sep 27

30.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 35.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: ??? hours, ?? minutes Water temperature: ?? degrees F

REMARKS

235 GUNN RD, E OF HOUSE, PUMPED WITH AIR

37216

Well_PID:
Owner: KLEEN-TUBE SYSTEMS Driller: CAPROCK DRILLING LTD.

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1979 Jun 21

WELL LOG

From To Log (ft.) (ft.) 0 48.0 CLAY
48.0 50.0 BROKEN LIMESTONE
50.0 70.0 TIGHT LIMESTONE
70.0 91.9 FRACTURED LIMESTONE
91.9 126.9 TIGHT LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 6.00

GALVANIZED

50.0 126.9 open hole

Top of Casing: 1.0 ft. below ground

PUMPING TEST

1979 Jun 21 Date:

Pumping Rate: 5.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: ?? ft. below ground rest duration:

2 hours, minutes
Water temperature:

?? degrees F

REMARKS

NE PLESSIS AND GUNN

80876 Well PID:

Owner: BRANKO DEMOLITION

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1995 Sep 13

WELL LOG

From To Log (ft.) (ft.) 0 4.0 FILL 4.0 20.0 SILTY CLAY 20.0 48.0 CLAY 48.0 56.0 TILL 56.0 60.0 WEATHERED LIMESTONE 60.0 183.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 60.7 casing 5.00 Type Material

INSERT

GALVANIZED

60.7 183.9 open hole 4.90

0 0 casing grout CEMENT

Top of Casing: 2.0 ft. below ground

PUMPING TEST

1995 Sep 13 Date:

Pumping Rate: 17.0 Imp. gallons/minute Water level before pumping: 44.0 ft. below ground Pumping level at end of test: 47.0 ft. below ground hours, 30 minutes Test duration:

Water temperature: ?? degrees F

REMARKS

LOTS 2 + 3 BLUECHER AVE

Well_PID: 18349
Owner: ROBIN ELECTRIC CO
Driller: D. J. Coyle

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1973 Jul 03

WELL LOG

From To Log

(ft.) (ft.)

0 52.0 CLAY 52.0 70.0 LIMESTONE ROCK

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C BLACK

IRON

53.0 70.0 open hole

Top of Casing: ft. below ground

No pump test data for this well.

REMARKS

2011 PLESSIS ROAD NEAR GRASSIE AND CPR MAIN LINE

Well PID: 73356

ROBIN ELECTRIC Owner:

Driller: HYGAARD'S WELL DRILLING

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1991 Jun 14

WELL LOG

From To Log (ft.) (ft.)

0 46.0 GREY CLAY
46.0 53.0 TILL AND BOULDERS
53.0 62.0 LIMESTONE AND RED SHALE LAYERS
62.0 139.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

64.0 139.9 open hole 4.00

Top of Casing: 1.0 ft. below ground

PUMPING TEST

Date: 1991 Jun 14

Pumping Rate: 12.0 Imp. gallons/minute Water level before pumping: 39.0 ft. below ground Pumping level at end of test: ?? ft. below ground hours, 30 minutes Test duration:

Water temperature: ?? degrees F

139628

Well_PID:
Owner: 4928777 MB LTD Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 642177.767 UTMY: 5531554.86

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2005 Nov 01

WELL LOG

From To Log

(ft.) (ft.)

0 48.0 CLAY 48.0 53.0 FRACTURED LIMESTONE 53.0 186.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 4.20 4.500 INSERT

GALVANIZED

53.6 186.0 OPEN HOLE 4.00

28.0 53.6 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

2005 Nov 01 Date:

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: 35.0 ft. below ground Test duration: hours, 15 minutes

Test duration: hours, 15 m Water temperature: ?? degrees F

REMARKS

355 GUNN ROAD, SPRINGFIELD. WELL IS AT THE NORTHWEST CORNER OF HOUSE. PUMPED WITH AIR.

Well_PID: 71223
Owner: AUTOPAC MPIC
Paul Slusarchuk Well Drilling LTd.

Well Name:
Well Use: PRODUCTION
Water Use: Domestic UTMX: 642177.767 UTMY: 5531554.86 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1990 Aug 07

WELL LOG

From To Log (ft.) (ft.) 0 47.0 CLAY 47.0 53.0 TILL 53.0 54.0 LIMESTONE 54.0 55.0 CLAY 55.0 308.8 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)
0 56.0 casing 6.00 T & C BLACK IRON

56.0 308.8 open hole 5.80 0 0 casing grout

Top of Casing: 2.5 ft. below ground

PUMPING TEST

Date: 1990 Aug 07

129.9 Imp. gallons/minute Pumping Rate: Water level before pumping: 39.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

1981 PLESSIS RD, WELL CHLORINATED, PUMPED WITH AIR

Well PID: 11575 Owner: W RAYNER

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1968 Oct 03

WELL LOG

From To Log (ft.) (ft.)

0 34.0 DARK CLAY 34.0 48.0 GREY CLAY, GRAVEL, FEW BOULDERS 48.0 60.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 48.0 casing 4.00

48.0 60.0 open hole

Top of Casing: ft. below ground

PUMPING TEST

1968 Oct 03 Date:

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: 29.0 ft. below ground

Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

LOT 36-40, 20 FT S OF DAY ST NORTH, GROUND LEVEL ELEV EST 775 FT

Well PID: 140055

Owner: ALPINE CONCRETE

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 644212.474
UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2006 Aug 31

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	1.0	FILL
1.0	26.0	BROWN CLAY
26.0	35.0	GREY CLAY
35.0	46.0	TILL
46.0	57.0	BOULDERS AND TILL
57.0	60.0	LIMESTONE AND BROKEN LIMESTONE LAYERS
60.0	130.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	60.5	CASING	5.00			INSERT	PVC
60.0	130.0	OPEN HOLE	4.25				
10.0	50.0	CASING GROUT					
DENITONITOR	7						

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 2006 Aug 31

Pumping Rate: 15.0 Imp. gallons/minute

Water level before pumping: ?? ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: ??? hours, ?? minutes

Water temperature: ?? degrees F

REMARKS

LOT 27 REDONDA, WEST SIDE. NO ADDRESSES AVAILABLE YET. PUMPED WITH AIR.

Well PID: 120205

Owner: SPERLING INDUSTRIES LTD.
Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 644212.474
UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2001 Aug 01

WELL LOG

From To Log
(ft.) (ft.)
0 4.0 FILL
4.0 21.0 BROWN CLAY
21.0 44.0 GREY CLAY
44.0 54.0 TILL
54.0 115.0 LIMESTONE

WELL CONSTRUCTION

om	To	Casing	Inside	Outside	Slot	Type	Material
t.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	56.0	CASING	5.00				PVC
6.0	115.0	OPEN HOLE		4.80			
5.0	40.0	CASING GROUT					
	t.) 0 6.0	t.) (ft.) 0 56.0 6.0 115.0	om To Casing t.) (ft.) Type 0 56.0 CASING 6.0 115.0 OPEN HOLE 5.0 40.0 CASING GROUT	t.) (ft.) Type Dia.(in) 0 56.0 CASING 5.00	t.) (ft.) Type Dia.(in) Dia.(in) 0 56.0 CASING 5.00 6.0 115.0 OPEN HOLE 4.80	t.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 56.0 CASING 5.00 6.0 115.0 OPEN HOLE 4.80	t.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 56.0 CASING 5.00 6.0 115.0 OPEN HOLE 4.80

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2001 Aug 01

Rate: ?? Imp. gallons/minute
Water level before pumping: 40.0 ft. below ground
Pumping level at end of test: 42.0 ft. below ground
Test duration: ??? hours, ?? minutes

Water temperature: ?? degrees F

REMARKS

GUNN RD. DATE MAY NOT BE ACCURATE.

Well PID: 119096

Owner: WRB

Driller: UNKNOWN

Well Name: EAST SIDE HOOP
Well Use: PRODUCTION
Water Use: Domestic
UTMX: 644212.474
UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1978 Apr 15

No well log data for this well.

No construction data for this well.

Top of Casing: 0.0

No pump test data for this well.

REMARKS

NO WELL LOG. BIRDS HILL PARK CLUB.

Well_PID: 11572 Owner: R BIRD

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 643803.509
UTMY: 5532396.17
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1968 Mar 22

WELL LOG

From To Log

(ft.) (ft.)

0 39.0 DARK CLAY

39.0 48.0 GREY CLAY, GRAVEL, BOULDERS

48.0 55.0 GRAVEL, PEBBLES, GREY SANDY CLAY

55.0 104.9 LIMESTONE, WATER AT 55 FEET

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 55.0 casing 5.00

Top of Casing: ft. below ground

PUMPING TEST

Date: 1968 Mar 22

Pumping Rate:

Water level before pumping:

Pumping level at end of test:

30.0 ft. below ground

39.0 ft. below ground

39.0 ft. below ground

39.0 ft. below ground

39.0 ft. below ground

49.0 Imp. gallons/minute

Water temperature: ?? degrees F

REMARKS

85 FT E OF DAY ROAD, S OF SPRINGFIELD RD, GROUND LEVEL ELEV EST 775 FT

Well_PID: 63034
Owner: KOSS CABINETS

Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1988 Nov 01

WELL LOG

From To Log

(ft.) (ft.)

0 38.0 CLAY
38.0 58.0 FRACTURED LIMESTONE, SANDY LAYERS
58.0 99.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

58.0 99.9 open hole 4.00

Top of Casing: 2.5 ft. above ground

PUMPING TEST

Date: 1988 Nov 01

Pumping Rate: 8.0 Imp. gallons/minute Water level before pumping: 29.0 ft. below ground Pumping level at end of test: 50.0 ft. below ground Test duration: hours, 35 minutes

Water temperature: ?? degrees F

REMARKS

DAY ST., WEST SIDE 2965 DAY ST

63035

Well_PID:
Owner: RIVERSIDE PAINTING Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1988 Nov 01

WELL LOG

From To Log (ft.) (ft.)

0 45.0 CLAY

45.0 61.0 CLAY AND LIMESTONE LAYERS 61.0 134.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

61.0 134.9 open hole 4.00

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1988 Nov 01

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 34.0 ft. below ground Pumping level at end of test: 50.0 ft. below ground Test duration: 1 hours, 50 minutes

Water temperature: ?? degrees F

REMARKS

LOT 18 DAY ST., 350 FT. S. OF SPRINGFIELD RD.

Well PID: 103468

Owner: MOUNTAIN VIEW AUTO PARTS LTD

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 643803.509
UTMY: 5532396.17

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1996 Aug 26

WELL LOG

From To Log
(ft.) (ft.)
0 40.0 CLAY
40.0 50.0 SILTY TILL
50.0 52.5 RUBBLE LIMESTONE AND CLAY
52.5 143.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 0 54.0 CASING 54.0 143.0 OPEN HOLE 10.0 40.0 CASING GROUT

BENTONITE

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1996 Aug 26

Pumping Rate:

Water level before pumping:

Pumping level at end of test:

Test duration:

Water temperature:

7.0 Imp. gallons/minute
35.0 ft. below ground
1 hours, minutes
?? degrees F

REMARKS

SPRINGFIELD RD, E OF HWY #59

Well PID: 75660

Owner: GLENWOOD PLASTICS Driller: Friesen Drillers Ltd.

Well Name:

Well Use: RECHARGE Water Use: Industrial UTMX: 643803.509 UTMY: 5532396.17

Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1992 Jul 10

WELL LOG

From To Log (ft.) (ft.) 0 40.0 CLAY 40.0 45.0 TILL 45.0 52.0 BROKEN ROCK 52.0 179.9 LIMESTONE

WELL CONSTRUCTION

From (ft.)		Casing Type		Outside Dia.(in)		Туре	Material
0	46.0	casing	5.00			INSERT	PVC
46.0	53.0	perforations	5.00		0.020	SAW CUT	PVC
40.0	53.0	gravel pack				PEA SIZE	GRAVEL
8.0	40.0	casing grout					CEMENT

Top of Casing: 1.5 ft. above ground

PUMPING TEST

1992 Jul 13 Date:

Pumping Rate: 100.0 Imp. gallons/minute Water level before pumping: 24.0 ft. below ground Pumping level at end of test: 10.0 ft. below ground

Test duration: 1 hours, minutes

Test duration: Water temperature: ?? degrees F

REMARKS

2954 DAY ST, PUMP TEST IS RECOVERY, FORMERLY THOMPSON PLASTICS.

Well PID: 56307 Owner: B MAJETIC

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1986 Oct 30

WELL LOG

From To Log (ft.) (ft.) 0 4.0 FILL 4.0 42.0 CLAY 42.0 55.0 TILL 55.0 58.0 FRACTURED LIMESTONE AND CLAY 58.0 134.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

59.0 134.9 open hole 3.80

Top of Casing: 1.6 ft. above ground

PUMPING TEST

1986 Oct 30 Date:

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: ?? ft. below ground rest duration:

1 hours, minutes
Water temperature:

?? degrees F

REMARKS

OXFORD ST, OFF SPRINGFIELD RD

Well PID: 71575

GLENWOOD PLASTICS Owner:

Driller: Watkins & Argue Construction Co.

Well Name:

Well Use: TEST WELL

Water Use:

UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1991 Jun 14

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	6.0	TOPSOIL
6.0	12.0	YELLOW CLAY
12.0	38.0	GREY CLAY
38.0	42.0	WHITE CLAY AND GRAVEL
42.0	43.0	GRAVEL
43.0	48.0	WHITE CLAY AND GRAVEL
48.0	54.0	LIMESTONE RUBBLE
54.0	70.0	LIMESTONE

WELL CONSTRUCTION

]	From	To	Casing	Inside	Outside	Slot	Type	Material
	(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
	0	50.0	casing	6.00			INSERT	PVC
	50.0	60.0	casing	5.00		0.040	WIRE WOUND	S. S.
	45.0	63.0	gravel pack				1.2 MM	QUARTZ
S.								

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date: 1991 Jun 14

Pumping Rate: 78.0 Imp. gallons/minute Water level before pumping: 31.0 ft. below ground Pumping level at end of test: 48.0 ft. below ground Test duration: 2 hours, minutes

?? degrees F Water temperature:

REMARKS

55 FT. E. OF BLDG. PULLED THIS WELL OUT

Well_PID: 65976 Owner: SOUTHWOOD Driller: Echo Drilling Ltd.
Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1989 Jul 31

WELL LOG

From To Log (ft.) (ft.) 0 40.0 CLAY 40.0 46.0 TILL 46.0 48.0 BROKEN LIMESTONE 48.0 159.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT BLACK

IRON

49.0 159.9 open hole 4.00

Top of Casing: 2.0 ft. above ground

PUMPING TEST

1989 Jul 31 Date:

Pumping Rate: 12.0 Imp. gallons/minute Water level before pumping: 32.0 ft. below ground Pumping level at end of test: 38.0 ft. below ground

Test duration: 1 hours, minutes Water temperature: ?? degrees F

REMARKS

LOT 4 OXFORD ST. WEST

Well PID: 30706

Owner: GLENWOOD PLASTICS

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1977 Sep 15

WELL LOG

From To Log (ft.) (ft.)

0 45.0 CLAY 45.0 52.0 BROKEN RUBBLE LIMESTONE 52.0 124.9 LIMESTONE SOME FRACTURED ZONES

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C

GALVANIZED

3.75 52.0 124.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 32.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: hours, 30 minutes

Water temperature: ?? degrees F

REMARKS

PREVIOUS OWNER SPRINGHILL LUMBER 2954 DAY ST

Well PID: 106904

Owner: NORTECH AUTO PARTS/CHRIS SZEINTAG

Driller: Stonewall Drilling

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 643803.509
UTMY: 5532396.17

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1998 Oct 14

WELL LOG

From To Log
(ft.) (ft.)
0 38.0 CLAY
38.0 42.0 TILL
42.0 48.0 LIMESTONE
48.0 55.0 TILL
55.0 81.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) O 55.0 CASING 4.20 INSERT

55.0 81.0 OPEN HOLE 4.00

20.0 55.0 CASING GROUT CEMENT

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1998 Oct 14

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 31.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 20 minutes

Water temperature: ?? degrees F

REMARKS

W ST OF DAY ST, S OF AUCTION AUTO, KOSS N OF KOSS CABINETS, PUMPED WITH AIR

125180

Well_PID:
Owner: AKRIM AUTO AND TRUCK PARTS

Driller: Selkirk Drillers

Well Name:

PRODUCTION Well Use:

Water Use:

UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 2000 Jul 08

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	4.0	BACKFILL PACK
4.0	42.0	GREY CLAY
42.0	55.0	TILL
55.0	65.0	BROKEN LIMESTONE
65.0	84.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	67.0	CASING	5.00				PVC
67.0	84.0	OPEN HOLE	4.50				

Top of Casing: 1.0 ft. above ground

PUMPING TEST

2000 Jul 08 Date:

Pumping Rate: 40.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration:
Water temperature: ??? hours, ?? minutes

?? degrees F

REMARKS

2691 DAY ST.

Well PID: 103188 Owner: ED BOYECHKO

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1996 Jun 10

WELL LOG

From To Log (ft.) (ft.) 0 40.0 CLAY, SILTY 40.0 46.0 SILTY TILL 46.0 52.0 LAYERS OF LIMESTONE AND CLAY, SOME RUBBLE LIMESTONE 52.0 143.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 4.50 53.0 143.0 OPEN HOLE 4.90 8.0 40.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

1996 Jun 10 Date:

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: ?? ft. below ground Water temperature: Test duration: hours, 45 minutes

?? degrees F

REMARKS

2975 DAY ST, S OF SPRINGFIELD RD

Well PID: 124727

Owner: RED RIVER GALVANIZING INC. Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial UTMX: 643803.509 UTMY: 5532396.17

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2003 Aug 01

WELL LOG

From To Log (ft.) (ft.) 0 4.0 FILL 4.0 43.0 CLAY 43.0 45.0 TILL 45.0 46.0 LIMESTONE 46.0 49.0 TILL 49.0 130.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 5.00 Material

PVC

51.5 130.0 OPEN HOLE 4.50

10.0 45.0 CASING GROUT BENTONITE

Top of Casing: 0.0

PUMPING TEST

2003 Aug 01 Date:

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 39.0 ft. below ground Pumping level at end of test: 40.0 ft. below ground Test duration: ??? hours, ?? minutes

?? degrees F Water temperature:

REMARKS

LOT 3 OXFORD ST.

Well PID: 123941

Owner: POUNDER EMULSIONS

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial UTMX: 643803.509 UTMY: 5532396.17

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2002 Jun 01

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	28.0	BROWN CLAY
28.0	41.0	GREY CLAY
41.0	50.0	SILTY GREY CLAY
50.0	63.0	SOFT BROKEN LIMESTONE
63.0	130.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	65.0	CASING	5.00				PVC
65.0	130.0	OPEN HOLE		4.50			

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2002 Jun 01

Pumping Rate: ?? Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: ?? ft. below ground ??? hours, ?? minutes Test duration: Water temperature:

?? degrees F

REMARKS

1800 DAY

Well PID: 33786

DAY AUTO PARTS Owner:

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1978 Aug 14

WELL LOG

From To Log (ft.) (ft.)

0 49.0 CLAY 49.0 53.0 SILTY CLAY& STONE 53.0 61.0 WEATHERED ROCK 61.0 124.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C

GALVANIZED

61.0 124.9 open hole 3.50

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: hours, minutes Water temperature: ?? degrees F

Well PID: 70728

Owner: ACTION RECYCLED

Driller: Perimeter Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643803.509 UTMY: 5532396.17 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1990 Sep 10

WELL LOG

From To Log (ft.) (ft.) 0 2.0 FILL 2.0 55.0 CLAY 55.0 60.0 BROKEN LIMESTONE 60.0 186.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

0 62.0 casing 5.00 I86.9 open hole 4.80

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date: 1990 Sep 10

Pumping Rate: 30.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 30.0 ft. below ground Test duration:

1 hours, minutes Water temperature: 41.000 degrees F

REMARKS

W. SIDE DAY STREET 2955 DAY ST

71577 Well PID:

Owner: SPARTECK PROFILES/WRB

Driller: Watkins & Argue Construction Co.

Well Name: G050J139 GM262 THOMPSON Well Use: PRODUCTION Water Use: Industrial

UTMX: 644022 UTMY: 5532320

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1991 Jul 10

WELL LOG

From To Log (ft.) (ft.) 7.0 7.0 YELLOW CLAY
7.0 38.0 GREY CLAY
38.0 46.0 WHITE CLAY AND GRAVEL
46.0 57.0 GRAVEL AND CLAY
57.0 103.9 LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	57.4	casing	8.00			INSERT	PVC
57.4	103.9	open hole	6.00				

Top of Casing: ft. below ground

PUMPING TEST

Date: 1991 Jul 10

199.9 Imp. gallons/minute Pumping Rate: Water level before pumping: 31.0 ft. below ground Pumping level at end of test: 35.0 ft. below ground 2 hours, minutes Test duration:

Water temperature: ?? degrees F

REMARKS

WINNIPEG REGION - PREVIOUSLY USED AS A WRB MONITORING STATION FOR WATER QUALITY (1992-2005) & WATER TEMPERATURE (1992-2005). 2954 DAY ST., E SUPPLY WELL #3, 280 FT. E. OF BLDG. EC=400, HARD=20

Well PID: 71578

Owner: SPARTECK PROFILES/WRB

Watkins & Argue Construction Co. Driller: Well Name: G050J140 GM263 WELL #2 RETURN

Well Use: RECHARGE

Water Use:

UTMX: 643915 UTMY: 5532372

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1991 Jun 21

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	4.0	TOPSOIL
4.0	11.0	YELLOW CLAY
11.0	40.0	GREY CLAY
40.0	42.0	GRAVEL, WATER LOSS
42.0	46.0	LIMESTONE, WATER LOSS, HIGH FISSURE
46.0	101.9	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	42.0	casing	8.00			INSERT	PVC
42.0	101.9	open hole	6.00				
39.0	42.0	casing grout					CEMENT
35.0	40.0	casing grout					

Top of Casing: ft. below ground

PUMPING TEST

1991 Jun 21 Date:

Pumping Rate: 173.9 Imp. gallons/minute Water level before pumping: 31.0 ft. below ground Pumping level at end of test: 44.0 ft. below ground 2 hours, minutes Test duration:

Water temperature: ?? degrees F

REMARKS

WINNIPEG REGION - PREVIOUSLY USED AS A WRB MONITORING STATION FOR WATER TEMPERATURE (1992-2005). 2954 DAY ST., THOMPSON PLASTICS, 8 FT. N. OF BLDG. EC=420, FE=0, HARD=22

Owner: GLENWOOD PLASTICS
Driller: Watkins & Argue Construction Co.
Well Name: WELL #1
Well Use: Well Use: PRODUCTION Water Use: Industrial UTMX: 643803.509 UTMY: 5532396.17

Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1991 Jun 12

WELL LOG

From To Log (ft.) (ft.) 0 6.0 TOPSOIL 6.0 13.0 YELLOW CLAY 13.0 43.0 GREY CLAY 43.0 56.0 WHITE CLAY AND GRAVEL 56.0 249.8 LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	60.0	casing	8.00			INSERT	PVC
60.0	249.8	open hole	6.00				
35.0	57.0	casing grout					CEMENT

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date: 1991 Jul 10

149.9 Imp. gallons/minute Pumping Rate: Water level before pumping: 29.0 ft. below ground Pumping level at end of test: 62.0 ft. below ground 1 hours, 15 minutes ?? degrees F Test duration:

Water temperature:

REMARKS

95 FT. E. OF BLDG. EC=460, FE=0, HARD=23

154793 Well PID:

Owner: NORCRAFT CANADA CORP.

Driller: Maple Leaf Enterprises LTd.
Well Name: WOOD WORKING
Well Use: PRODUCTION
Water Use: Industrial

UTMX: 643806 UTMY: 5532396

Accuracy XY: 3 ACCURATE [50-350M] [WITHIN 1/4-SECTION]

UTMZ: 234

4 FAIR - Shuttle at Centroid Accuracy Z:

Date Completed: 2003 Sep 01

WELL LOG

From To Log

(ft.) (ft.)

0 47.0 CLAY 47.0 49.0 SILTY SAND 49.0 130.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 51.0 130.0 OPEN HOLE 4.25

 \cap 48.0 CASING GROUT

BENTONITE

Top of Casing: 0.0

PUMPING TEST

Date: 2003 Sep 01

15.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 37.0 ft. below ground Pumping level at end of test: 41.0 ft. below ground Water temperature: ??? hours, ?? minutes

?? degrees F

REMARKS

1980 SPRINGFIELD RD. DRILL DATE IS ESTIMATED. GROUTED WITH A

CEMENT/BENTONITE MIX

Well PID: 111335

Owner: WINN-MAN TRANSPORT LTD

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1998 Mar 02

WELL LOG

From To Log (ft.) (ft.) 0 46.0 CLAY 46.0 54.0 SILTY TILL 54.0 60.0 RUBBLE LIMESTONE 60.0 144.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

62.5 CASING 5.50 INSERT 0

GALVANIZED

62.5 144.0 OPEN HOLE 4.90

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1998 Mar 02

50.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 31.5 ft. below ground Pumping level at end of test: ?? ft. below ground hours, 30 minutes Test duration:

Water temperature: ?? degrees F

REMARKS

135 SAUNDERS

Well PID: 80874

Owner: NEIGHBOUR'S LANDSCAP Driller: Perimeter Drilling Ltd.

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643815.778 UTMY: 5531587.21 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1995 Jun 15

WELL LOG

From To Log (ft.) (ft.) 0 2.0 TOPSOIL 2.0 45.0 CLAY 45.0 53.0 BROKEN LIMESTONE 53.0 119.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 55.0 119.9 open hole 4.75

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 1995 Jun 15

Pumping Rate: 50.0 Imp. gallons/minute Water level before pumping: 35.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: hours, 30 minutes Water temperature: 41.000 degrees F

REMARKS

2735 DAY ST, E OF BLDG

Well PID: 24165 Owner: SWIDERSKI

Paul Slusarchuk Well Drilling LTd. Driller:

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 643815.778 UTMY: 5531587.21 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1975 Jul 23

WELL LOG

From To Log (ft.) (ft.) 0 40.0 CLAY 40.0 47.0 TILL 47.0 54.0 FRACTURED LIMESTONE 54.0 144.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) T & C

GALVANIZED

54.6 144.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date:

Flowing Rate: 10.0 Imp. gallons/minute Water level before pumping: ft. below ground Pumping level at end of test: 30.0 ft. below ground hours, 45 minutes Test duration:

Water temperature: ?? degrees F

Well_PID:
Owner: 81576 FRANK MOTORS

Stonewall Drilling Driller:

Well Name:

Well Use: PRODUCTION Water Use: Domestic UTMX: 644212.474 UTMY: 5531993.54 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1995 Jun 01

WELL LOG

From To Log

(ft.) (ft.)

0 41.0 CLAY AND SILT 41.0 60.0 FRACTURED LIMESTONE 60.0 135.9 LIMESTONE, FRACTURED LAYERS

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT

GALVANIZED

60.0 135.9 open hole 4.00

20.0 60.0 casing grout CEMENT

Top of Casing: 1.5 ft. above ground

PUMPING TEST

Date: 1995 Jun 01

20.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 29.0 ft. below ground Pumping level at end of test: 39.0 ft. below ground hours, 25 minutes Test duration:

Water temperature: ?? degrees F

REMARKS

3001 DAY ST, NORTH PERIMITER CONSTRUCTION LTD

Well_PID: 11573 Owner: J HOLLAND

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 643815.778
UTMY: 5531587.21
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1968 Oct 05

WELL LOG

From	10	Log	
(ft.)	(ft.)		
0	36.0	DARK CLAY	
36.0	43.0	GREY CLAY, GRAVEL, BOULDERS	
43.0	68.0	GRAVEL, GREY SANDY CLAY	
68.0	81.9	LIMESTONE	

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	68.0	casing	4.00				
68.0	81.9	open hole					

Top of Casing: ft. below ground

PUMPING TEST

Date: 1968 Oct 05

Pumping Rate: 20.0 Imp. gallons/minute Water level before pumping: 28.0 ft. below ground Pumping level at end of test: 28.0 ft. below ground Test duration: 1 hours, 30 minutes

Water temperature: ?? degrees F

REMARKS

LOT 52-61, 60 FT E OF DAY STREET, GROUND LEVEL ELEV EST 775 FT

Well PID: 124692

Owner: CANDO CONSTRUCTION LOCOMOTIVE Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION Water Use: Industrial

UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2002 Nov 18

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	2.0	SILT SAND
2.0	12.0	SOFT CLAY AND SILT
12.0	46.0	CLAY
46.0	53.0	TILL
53.0	58.0	RUBBLE
58.0	87.0	LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
(60.5	CASING	5.00				PVC
60.5	87.0	OPEN HOLE		4.00			
12.0	45.0	CASING GROUT					

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2002 Nov 18

Pumping Rate: 15.0 Imp. gallons/minute Water level before pumping: 32.0 ft. below ground Pumping level at end of test: 33.0 ft. below ground Test duration: ??? hours, ?? minutes

Water temperature: ?? degrees F

REMARKS

DAY ST., AIR PUMPED AT 56', 40 GPM

Well PID: 123952

Owner: AL THOMPSON BROOM

Driller: Maple Leaf Enterprises LTd.

Well Name:

Well Use: PRODUCTION

Water Use:

UTMX: 644212.474 UTMY: 5531993.54

Accuracy XY:

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 2002 Feb 08

WELL LOG

From To Log (ft.) (ft.) 0 3.0 FILL 3.0 28.0 BROWN CLAY 28.0 43.0 GREY CLAY 43.0 57.0 TILL 57.0 85.0 LIMESTONE

WELL CONSTRUCTION

From	To	Casing	Inside	Outside	Slot	Type	Material
(ft.)	(ft.)	Type	Dia.(in)	Dia.(in)	Size(in)		
0	59.0	CASING	5.00				PVC
59.0	85.0	OPEN HOLE		4.50			
10.0	35.0	CASING GROUT					

BENTONITE

Top of Casing: 0.0

PUMPING TEST

2002 Feb 08 Date:

15.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 30.0 ft. below ground Pumping level at end of test: 31.0 ft. below ground Test duration: Test duration: ??? hours, ??
Water temperature: ?? degrees F ??? hours, ?? minutes

REMARKS

592 GUNN RD.

Well PID: 104710

Owner: BORDER CHEMICALS/WRB

Driller: UNKNOWN Well Name: GM123
Well Use: OBSERY

Well Use: OBSERVATION

Water Use:

UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY: 4 FAIR [350M-1KM] [WITHIN SECTION]

UTMZ:

Accuracy Z: UNKNOWN Date Completed: 1965 Aug 17

No well log data for this well.

No construction data for this well.

Top of Casing: 0.0

No pump test data for this well.

REMARKS

WINNIPEG REGION - PREVIOUSLY USED AS A WRB MONITORING STATION FOR WATER QUALITY (1965-1993). SW DAY ST & GUNN RD, NO WELL LOG AVAILABLE.

Well PID: 11574

Owner: BORDER CHEMICAL

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name: OFFICE
Well Use: PRODUCTION
Water Use: Domestic UTMX: 643815.778 UTMY: 5531587.21 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1968 Jul 09

WELL LOG

From To Log (ft.) (ft.) 0 36.0 DARK CLAY
36.0 52.0 GREY CLAY, GRAVEL, BOULDERS
52.0 84.9 GRAVEL, GREY SANDY CLAY
84.9 112.9 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 4.00 84.9 112.9 open hole

Top of Casing: ft. below ground

PUMPING TEST

Date: 1968 Jul 09

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 31.0 ft. below ground Pumping level at end of test: 31.0 ft. below ground Test duration: 4 hours, minutes

Water temperature: ?? degrees F

REMARKS

GROUND LEVEL ELEV EST 775 FT

Well PID: 65609

Owner: BORDER CHEMICAL

Driller: Paul Slusarchuk Well Drilling LTd.

Well Name: PLANT WELL NO. 2

Well Use: PRODUCTION
Water Use: Industrial

UTMX: 643815.778 UTMY: 5531587.21 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1989 Aug 30

WELL LOG

From	To	Log
(ft.)	(ft.)	
0	4.0	FILL
4.0	45.0	CLAY
45.0	56.0	TILL
56.0	75.8	LAYER OF LIMESTONE TILL AND GRAVEL
75.8	199.9	LIMESTONE
199.9	244.8	LAYERS OF LIMESTONE, SHALE AND CLAY SOME SAND
244.8	249.8	SHALE

WELL CONSTRUCTION

From	ТО	Casing	Inside	Outside	910t	Tvpe	Material
	(ft.)	2		Dia.(in)		Type	Maceriar
		casing	8.00	Dia. (III)		ш с О	BLACK
	//.0	Casing	8.00			T & C	BLACK
IRON							
		open hole	7.80				
10.0	45.0	casing grout					CEMENT

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 1989 Aug 30

Pumping Rate: 299.9 Imp. gallons/minute Water level before pumping: 34.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, 30 minutes

Water temperature: ?? degrees F

REMARKS

AT 100 FT. WELL PRODUCED 10 GPM MAJOR FRACTURES - 110-115 FT. - 200-245 FT.

8878

Owner: BORDER CHEMICAL
Driller: SONIC DRILLING CO. LTD
Well Name: PLANT WELL NO.1
Well Use:

Water Use: Industrial

UTMX: 643815.778 UTMY: 5531587.21 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1966 Jun 29

WELL LOG

From To Log (ft.) (ft.) 0 8.0 BROWN SANDY CLAY
8.0 41.0 BLUE CLAY
41.0 46.0 FINE SAND AND GRAVEL
46.0 70.0 LIMESTONE GRAVEL
70.0 100.9 HARD LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) 8.00

74.0 83.9 perforations SL. PIPE

Top of Casing: ft. below ground

PUMPING TEST

1966 Jun 29 Date:

Pumping Rate: 149.9 Imp. gallons/minute Water level before pumping: 26.0 ft. below ground Pumping level at end of test: 32.0 ft. below ground

Test duration: 8 hours, minutes Water temperature: ?? degrees F

REMARKS

GUNN AND DAY ST, SPRINGFILED, GROUND LEVEL ELEV EST 775 FT

Well PID: 126011

Owner: BORDER CHEMICAL

Driller: Friesen Drillers Ltd.

Well Name: PLANT WELL NO.3
Well Use: PRODUCTION
Water Use: Industrial

UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2003 Sep 02

WELL LOG

From To Log

(ft.) (ft.)

0 52.0 CLAY

52.0 60.0 TILL 60.0 140.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) WELDED BLACK

IRON

75.0 140.0 OPEN HOLE 10.60

10.0 75.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

2003 Jul 17 Date:

Pumping Rate: 83.0 Imp. gallons/minute Water level before pumping: 34.1 ft. below ground Pumping level at end of test: 36.7 ft. below ground Test duration: ??? hours, ?? minutes

Test duration:
Water temperature: ?? degrees F

REMARKS

PRODUCTION WELL INSTALLED AT 5" TEST WELL SITE, PUMP TEST NO.1 WAS FOR 5" TEST HOLE, NO.2 IS FOR 12" WELL

Well PID: 103484

Owner: BORDER CHEMICALS

Driller: Paul Slusarchuk Well Drilling LTd.
Well Name: POTASH TRANSFER FACILITY
Well Use: PRODUCTION
Water Use: Domestic UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 1996 Oct 02

WELL LOG

From To Log

(ft.) (ft.)

0 40.0 SILTY CLAY 40.0 55.0 TILL 55.0 63.0 RUBBLE LIMESTONE AND TILL 63.0 164.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

65.5 CASING 0 5.50 INSERT

GALVANIZED

65.5 164.0 OPEN HOLE 4.80

10.0 40.0 CASING GROUT CEMENT

Top of Casing: 1.5 ft. above ground

PUMPING TEST

1996 Oct 02 Date:

Pumping Rate: 10.0 Imp. gallons/minute Water level before pumping: 30.0 ft. below ground Pumping level at end of test: ?? ft. below ground Test duration: 1 hours, minutes Test duration:
Water temperature:

?? degrees F

REMARKS

2641 DAY ST, JUST S OF CP MAINLINE

Well PID: 126012

Owner: BORDER CHEMICAL

Driller: Friesen Drillers Ltd.
Well Name: TEST WELL #1 & OBSERVATION
Well Use: OBSERVATION

Water Use:

UTMX: 643815.778 UTMY: 5531587.21

Accuracy XY:

UTMZ:

Accuracy Z:

Date Completed: 2003 Jul 17

WELL LOG

From To Log (ft.) (ft.) 0 35.0 CLAY 35.0 60.0 TILL 60.0 80.0 LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in) INSERT PVC 65.0 80.0 OPEN HOLE 4.75

10.0 65.0 CASING GROUT

BENTONITE

Top of Casing: 2.0 ft. above ground

PUMPING TEST

Date: 2003 Jul 17

100.0 Imp. gallons/minute Pumping Rate: Water level before pumping: 32.0 ft. below ground Pumping level at end of test: 34.0 ft. below ground ??? hours, ?? minutes Test duration:
Water temperature:

?? degrees F

REMARKS

595 GUNN RD., TRANSCONA

APPENDIX G AUGUST 2002 AIR QUALITY TESTING

425 Stanley Avenue Selkirk, Manitoba R1A 0R7

Plasti-Fab Ltd. 2485 Day Street Winnipeg, Manitoba Attention: Rodney

Dear Rod:

This report concerns recent monitoring of styrene and LEL's (lower explosive limits) conducted in your plant at the request of management and the workplace safety and health committee.

Styrene levels were monitored using a gas tech detector and detector tubes specifically designed to detect the amount of styrene present in the air. Several tubes were pulled at each of the following locations and the highest readings obtained are as follows:

- 1. At the primary work station of the down cutter the cutting harp had fourteen wires installed in the machine when the following results were recorded:
- 2. At the specialty line cutting harp(no sample was drawn as there was not enough of a plume generated to warrant taking a sample)

As the TLV for Styrene is 50ppm there would not appear to be a problem at this time. In addition to the above monitoring for styrene there were numerous attempts made to monitor the lower explosive limit when bead boxes were being dumped into the hopper at the tilting station. Having reviewed correspondence from Huntsman which was given to me and taking into consideration my findings I think it would be prudent to install a fan which would dilute or extract the potentially explosive mixture away from the hopper where the plastic bag liner is removed from the box after dumping the contents into the hopper. The reason for my recommendation is as per the next paragraph.

Although I could not get the instrument to alarm when a box was being dumped during actual operating conditions the instrument did alarm on several occasions when boxes of bead were opened and the bead was agitated (essentially the same thing as dumping in that the pentane is liberated). This means that some boxes or types of bead do have the

potential to produce potentially explosive mixtures that could be ignited by something as seemingly innocuous and unpredictable as a static spark.

Also, there needs to be a written safe work practice or procedure for operators to follow when they are performing the job of dumping boxes of bead. This is a requirement of the latest regulatory requirements and it is consistent with the best practices for safety and health programs. The written work practice or procedure should be specific as to when the bag is to be removed and when the fan is to be used and for how long prior to and after dumping a box of bead. In addition, the operators must be instructed to make regularly scheduled (daily) checks of the grounding etc. I am including a copy of the Safer Workplaces Act for your information as you may decide that you need some assistance in complying with some of the new provisions.

Yours truly,

Rick Wyspinski

APPENDIX H JUNE 2010 NOISE LEVEL HAZARD ASSESSMENT



Business Type: EPS Product Solutions

June 9, 2010

Plasti-Fab Manitoba 2485 Day St.. Winnipeg, MB R2C 5G2

ATTENTION: Rodney Bagley - Plant Manager - Plasti-Fab Manitoba

RE: NOISE LEVEL HAZARD ASSESSMENT - May 18, 2010

Protec Hearing is pleased to submit our findings of the recent noise level hazard assessment of the Plasti-Fab Manitoba at 2485 Day St.in Winnipeg, MB. The purpose of the assessment is to establish baseline sound level readings for areas selected by Rodney Bagley - Plant Manager.

All measurements were obtained using the slow response setting of the hand held sound level meter. Dosimetry was carried out using an integrating sound level meter. The integrating sound level meter averages the sound levels over a given length of time. In this manner, short bursts of impulsive sound may be integrated or averaged into the results producing a more workable number. For employee's whose job location and/or responsibilities change throughout the day, a noise dosimeter records fluctuations in noise levels throughout the work day directly from the level of the subjects ear. Length of dosimetry is felt to be representative of the sound levels associated with the jobs sampled by this method.

Measurements were all short samples, approx 60 seconds or under. 3 measurements were obtained. Sound levels ranged from 92 to 95 dBA.

All findings appear on the attached sheets entitled; <u>Plasti-Fab Manitoba - Noise Hazard Assessment</u>, <u>May 18</u>, 2010, <u>carried out by: Protec Hearing Inc.</u>

I. Equipment:

Quest Sound Pro SE/DL sound level meter	Serial # BGG100014
Quest QC-10/QC-20 Calibrator	Serial # QIG090045
Quest NoisePro Dosimeter	Serial # NLH020012
Quest NoisePro Dosimeter	Serial # NLD120047
Metrosonics db-4000ez	Serial # NZD010028

II. Method:

Battery condition and calibration were checked prior to and immediately after measurements were carried out. All measures were taken at the proximity of the worker's ear at locations to be described with each measurement. All measurements are expressed in dBA.

III. Findings:

<u>Area</u>	Equipment	Measurement Location	<u>dBA</u>	<u>Comments</u>
Milling Area	Milling Machine	Feed End	91.6	Normal Operation 3 pieces of block mold material are run through the machine.
				Max = 86.6 dBA 25 Seconds
		Receiving End	93.2	Normal Operation 3 pieces of block mold material run through the machine and are received and stacked.
				Max = 86.6 dBA 25 Seconds
	Mulcher	Operator Position	95.4	1 piece of block mold material is mulched.
				Max = 86.6 dBA 25 Seconds

IV. Summary of Personal Dosimetry Results

Sample Date Tuesday, May 18, 2010 Comments:

Area: BW Area & Warehouse Microphone placed on right shoulder.

Contour Cutting Operator on the "Pic Wells" mosking work activities, asked to keep an activity log of his

Job: "Big Wally" machine work activities, asked to keep an activity log of activities and note if any tampering occurred.

Employee: Gordon Cube

Employee: Gordon Cube

Gordon indicates this sample is not contaminated and describes the day as a typical workday. Nothing

TWA (duration): 78.6 dBA and describes the day as a typical workday. Nothing out of the ordinary occurred.

Duration: 6 hrs. 29 min. Gordon describes his job as:

Max: Contour Cutting Operator on the "Big Wally"

Calibration Level: 114.0 dBA machine (A 2 dimensional cutting machine).

Dosimeter:

Note: The activity log below is based on the employee's time accounting card.

Activities Log - Tuesday, May 18, 2010 - Gordon Cube - Contour Cutting Operator

Time	Activity
8:16 am	Dosimeter attached and turned on
2 hr. 30 min.	Working around Big Wally – gathering & using materials from around the Big
Approx. $7:00 - 9:30$ am	Wally Machine.
	(Plant # = 41, Act. Code = 35, STN # = 51)
15 min.	Get a new block from the warehouse.
Approx.9:30 - 9:45 am	(Act. Code = 30 , STN # = 41)
2 hr. 30 min.	Working around Big Wally – gathering & using materials from around the Big
<i>Approx.</i> 9:45 – 12:15 pm	Wally Machine.
	(Act. Code = 35)
30 min.	Lunch – eat at work station while machine runs.
	(Act. Code = 99)
45 min	Recycling: Place materials into the mulcher machine and then go & get more
<i>Approx.</i> 12:30 – 1:15 pm	material to add. Usually there is very little standing at the mulcher.
	(Act. Code = 68)
1 hr. 30 min.	Working around Big Wally – gathering & using materials from around the Big
<i>Approx.</i> 1:15 – 2:45 pm	Wally Machine.
	(Act. Code = 35)
2:45 pm	Dosimeter turned off and removed

IV. Summary of Personal Dosimetry Results continued...

Sample Date Tuesday, May 18, 2010 <u>Comments:</u>

Area: Microphone placed on right shoulder.

Primary Area & Warehouse

Job: Miles Bileski was instructed to carry on his normal work activities, asked to keep an activity log of his

Employee: Miles Bileski activities and note if any tampering occurred.

Leq (8hrs): 78.6 dBA Miles indicates this sample is not contaminated and describes the day as a typical workday. Nothing out

TWA (duration): 77.8 dBA describes the day as a typical workday. Nothing out of the ordinary occurred.

Duration: 6 hrs 37 min.

Miles describes his job as:

Max: 109.4 dBA @ 10:27 am Primary Cutting Operator / Lead Hand

Calibration Level: 114.0 dBA Note: The activity log below is based on the

Dosimeter: Ouest Noise Pro NLH020012 employee's time accounting card.

Activities Log - Tuesday, May 18, 2010 - Miles Bileski - Primary Cutting Operator / Lead Hand

Time	Activity
8:06 am	Dosimeter attached and turned on
15 min.	In & around direct zone/ primary work station
<i>Approx.</i> 7:00 – 7:15 am	(Act. Code = 35)
3 hr 15 min.	Out of direct zone & in warehouse area.
<i>Approx.</i> 7:15 – 10:30 am	(Act. Code = 30)
15 min.	In & around direct zone/ primary work station
<i>Approx.</i> 10:30 – 10:45 am	(Act. Code = 35)
2 hr 15 min.	Out of direct zone & in warehouse area.
<i>Approx.</i> 10:45 – 1:00 pm	(Act. Code = 30)
30 min.	Lunch in lunch room
	(Act. Code = 990)
15 min.	In & around direct zone/ primary work station
<i>Approx.</i> 1:30 – 1:45 pm	(Act. Code = 35)
30 min.	Out of direct zone & in warehouse area.
<i>Approx.</i> 1:45 – 2:15 pm	(Act. Code = 30)
2:43 pm	Dosimeter turned off and removed

IV. Summary of Personal Dosimetry Results continued...

Comments: Tuesday, May 18, 2010 Sample Date

Microphone placed on right shoulder. Area: Mold Area

John Dalebozik was instructed to carry on his normal 4th Class Power Engineer work activities, asked to keep an activity log of his Expander Machine &

activities and note if any tampering occurred.

Job: Block Molder Machine Operator

John indicates this sample is not contaminated and Employee: John Dalebozik describes the day as a "slow workday." Nothing out

Leq (8*hrs*): 82.1 dBA of the ordinary occurred.

TWA (duration): 81.2 dBA John describes his job as: 4th Class Power Engineer 6 hrs. 32 min. **Duration:**

Expander Machine & Block Molder Machine Max: 117.8 dBA @ 1:52 pm

Operator

114.0 dBA Calibration Level: Note: The activity log below is based on the

Dosimeter: Ouest Noise Pro NLD120047 employee's time accounting card.

Activities Log

<u>Tuesday, May 18, 2010 - John Dalebozik - Machine Operator & 4th Class Power Engineer</u>

Note: John typically runs both the Expanding Machine and the Block Molding Machine simultaneously all day long. Work is done in task cycles of approx. 10 - 12 min. intervals. The first 7 min. (approx.) are spent operating the machines followed by 3 min. (approx.) of moving the block mould into the warehouse.

A typical day would be equal amounts of Expanding and Molding machine operation.

John starts work at 7 am and works an 8 hr. day. Total hours combine to greater than 8 hrs due to some activities occurring simultaneously.

Time	Activity
8:05 am	Dosimeter attached and turned on
5.5 hrs	Block Molding (Plant # = 42, Act. Code = 20, STN # = 16)
3 hrs	Expanding Process (Plant # = 42, Act. Code = 15, STN # = 21)
.5 hr	Lunch
11:00 pm – 11:30 am (<i>approx</i> .)	(Plant # = 42, Act. Code = 99)
.5 hr	Boiler Check – "MT – Horn & Side Silo"
	(Plant # = 42, Act. Code = 86)
1 hr	Warehouse work – "make room on boards for fresh G-S block."
	(Plant # = 42, Act. Code = 62)
2:38 pm	Dosimeter turned off and removed

V. Recommendations:

Manitoba Provincial Regulation 217/2006 – Part 12 – Respecting Hearing Conservation And Noise Control

(NOTICE: This summary is for convenience of reference only. The original Act should be consulted for all purposes of interpreting and applying the law.)

>80 dBA Periodic exposure measurements <u>MUST</u> be taken and workers informed of the results.

All workers **MUST** receive training in hearing conservation and noise control.

80-85 dBA Use Of Hearing Protection Is Optional:

If requested - workers must be provided with hearing protection and information regarding its selection, use and care.

>85 dBA Employers <u>MUST</u> study the workplace to determine the practicality of taking sound control measures to reduce exposure levels to </= 85 dBA.

If engineering controls can be shown to be impractical, work practice controls <u>MUST</u> be considered.

Use Of Hearing Protection Is Mandatory:

Workers <u>MUST</u> be provided with hearing protection and information regarding its selection, use and care.

Warning signs **MUST** be posted advising that hazardous noise levels exist.

All exposed workers <u>MUST</u> have their hearing tested no later than 70 days from initial exposure (a baseline test) and at least once a year thereafter.

Periodic reassessment of the practicality of engineering and work practice controls is required.

Hearing Protection Effectiveness: Traditional vs. NIOSH Recommendations

When selecting suitable hearing protection devices, both the limitations and the noise reduction rating (NRR) of the particular device should be understood.

The goal is to reduce the level of noise to levels below 85dB. Therefore if a device has a NRR of 30dB, it would be expected that this protector would be effective in noise up to 115dB (85dB + 30dB = 115dB). This is not the case. This figure is derived under ideal laboratory conditions, with the device being a proper fit.

Because of individual differences, e.g.: ear canal size and shape, structure of cheek bones, effectiveness of the seal etc., the NRR of the hearing protection device should be devalued to reflect these "real world" differences. An effective level to devalue by is approximately 10-12dB.

Therefore, in the above example, the NRR of 30dB would <u>traditionally</u> be devalued by approximately 12dB and have a real world attenuation of 18dB. Studies have shown that this method of de-valuing a hearing protector's effectiveness may indeed prove too conservative. A best practice recommendation may be to consider adopting the following NIOSH protocol for estimating effectiveness of hearing protectors.

National Institute for Occupational Safety and Health in the USA (NIOSH) compared NRR's derived from real-world noise attenuation data with the Manufacturers' or Laboratory NRR's. The Laboratory NRR's consistently over-estimated the real-world NRR's by 140% to 2000% [Berger etal. 1996].

<u>NIOSH</u> recommends that if subject fit data are not available, then labeled NRRs be derated as follows:

Earmuffs Subtract 25% from the manufacturer's labeled NRR

Formable Earplugs Subtract 50% from the manufacturer's labeled NRR

All other Earplugs Subtract 70% from the manufacturers labeled NRR

When the noise exposure level in dBA is known, the effective A-weighted noise level (ENL) is:

ENL = dBA - (derated NRR - 7)

To summarize, the best hearing protection for any worker is the removal of hazardous noise from the workplace. Until that happens, the best hearing protector for a worker is the one he or she will wear willingly and consistently.

The following factors are extremely important determinants of worker acceptance to hearing protectors and the likelihood that workers will wear them consistently.

- · Convenience and availability
- · Belief that the device can be worn correctly
- · Belief that the device will prevent hearing loss
- · Belief that the device will not impair a workers ability to hear important sounds
- · Comfort
- · Adequate noise reduction
- · Ease of fit
- · Compatibility with other personal protective equipment

(Source: NIOSH web site: www.cdc.gov/niosh/98-126f.html)

Traditional Forms of Hearing Protection (NRR's Must be De-Rated)

A variety of hearing protection should be made available to employees as one type of protection may not be suitable for all employees or jobs.

It is advised that when employees work in noise levels which exceed 102 dBA, doubling-up of hearing protection through the use of both plugs and a muff is recommended.

Ear Muffs - are generally the most reliable in terms of employees using them correctly as they are fairly easy to put on. They are however often rejected as being hot, heavy and uncomfortable. Watch for employees bending the head band, thereby losing the effectiveness of the ear cushion seal. Ear muffs will require (as a minimum) an annual maintenance to replace the cushions as they will lose their resiliency. The use of perspiration pads will improve the comfort of the muff in warm environments. De-rate NRR by 25%

Foam Plugs - are an excellent form of hearing protection when properly worn. The problem is most people do not wear them correctly and they become of little help. Employees must be taught and supervised on the correct use of this product. Most employees find them cool and comfortable to wear although some find them to hurt. Foam plugs are meant for all day use and are not to be constantly taken off and on all day. They should not be used in extremely dirty atmosphere or where employees' hands get quite dirty. **De-rate NRR by 50**

Standard / Rubber Plugs - are a bit easier to put in than a foam plug but not as effective as a hearing protector. The plugs come in a variety of sizes and the employee must be given the correct size for them to be effective. Employees find them cool and fairly comfortable. Cost is quite minimal and a set of plugs may last up to 6 months. **De-rate NRR by 70%**

Canal Caps - are cool and comfortable to wear, are quite cosmetically appealing, and are fairly easy to remove and put on and are very light. They are however, the least effective noise attenuator and should not be used in noise levels in excess of 95 dBA. They are quite visible and are good for supervisors who are in and out of noise. We recommend the brand name E.A.R. Carboflex. **De-rate NRR by 70%**

New Technology Hearing Protection

<u>Unlike traditional hearing protection – No more de-rating or guessing</u> the amount of protection afforded to the worker. This form of protection is objectively computer-measured to avoid either under or over-protection thereby facilitating uninterrupted use in toxic noise while still allowing optimal communication ability and sound balancing.

Custom E-A-R calibrated plugs are a cost effective method of providing hearing protection, allowing employees to maintain their communication need; made on-the-spot in minutes.

<u>Aearo/Sonomax CustomE-A-R</u> The Ultimate in Personal Fit, Protection and Comfort

A Canadian technology that consists of hearing protection that can now be custom molded on the spot, calibrated to the specific time-weighted average noise exposure level of the worker, and objectively fit and tested through the use of computer measurement software. Each device is then equipped with sonic filters to ensure optimum communication ability without sacrificing safety. Finally, for the first time ever, a certificate of effectiveness for each employee fit is issued to Occupational Safety and Health / Risk Management for objective, individual quantification of the Hearing Protection Device portion of the Hearing Conservation Program. Please call and we would be pleased to discuss the use of this product with your company.

For more information visit: www.customE-A-R.com

VI. Definitions

<u>A - weighted sound pressure level:</u> means a sound pressure level as determined by a measurement system which includes an A-weighting filter that meets the requirements set out in the International Electrotechnical Commission Standard 651 (1979), Sound Level Meters, as amended from time to time: (niveau de pression acoustique ponderee A)

<u>dBA</u>: means decibel A-weighted and is a unit of A-weighted sound pressure level: (dBA).

<u>Sound level meter:</u> means a device for measuring sound pressure level that meets the performance requirements for a Type 2 instrument as specified in the International Electrotechnical Commission Standard 651 (1979), Sound Level Meters, as amended from time to time.

It was a pleasure contributing to the hearing conservation program at Plasti-Fab Manitoba. If there are any questions regarding this noise survey report please do not hesitate to call at any time.

Sincerely,

Karen Turner, L.I.A.T Hearing Conservationist Bob Turner, M.S. Aud. (C) Audiologist

Mary-Anne Tymm, BA Hearing Conservationist

APPENDIX I MATERIAL SAFETY DATA SHEETS

Water Treatmost. Stean Boiler

MATERIAL SAFETY DATA SHEET

Nor-Chem Water Treatment LTD. 255 Thurso Street Winnipeg, Manitoba, R3M 3C7 Phone: (204)478-9994 In Case of Emergency Only: Phone CANUTEC: (613) 996-6666

Date completed: Nov.1,2011

PRODUCT NAME:

PBT-20 POLYMER BOILER TREATMENT

CODE: S772

OTHER NAME: DISTRIBUTED BY:

WHMIS CLASSIFICATION:

D2B

TDG CLASSIFICATION:

Not Regulated

HAZARDOUS INGREDIENTS %WT/WT CAS NO.

TOXICITY DATA (LD₅₀ & LC₅₀)

Polyacrylic Sodium Salt

40-60

Mixture

Not Available

PHYSICAL DATA FOR PRODUCT

Physical State: Liquid

Sp. Gravity: 1.0898

pH: 4-5

Boiling Point: 100°C Vapour Density: N/A Vapour Pressure: N/A Evaporation Rate: N/A

Freezing Point: N/A Solubility in Water: 100%

Appearance & Odour: Light brown with slight odour.

FIRE AND EXPLOSION DATA FOR PRODUCT

Flash Point (Test Method): >93.3°C (C.C.)

Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A

Fire Extinguishing Substances: (X) Water Fog (X) Foam (X) CO₂

(X) Dry Chem () Other:

Hazardous Combustion Products: Carbon oxides.

Special Firefighting Procedures: As for surrounding fire.

REACTIVITY DATA FOR PRODUCT

Incompatibility: () Water (X) Oxidizing Material () Acid () Base

() Other:

Hazardous Decomposition Products:

Carbon oxides. Acrid smoke and fumes emitted winen

heat to decomposition.

Chemical Stability: Stable under normal conditions.

*N/A - Not applicable.

Product Name: PBT-20

PBT-20 POLYMER BOILER TREATMENT

HEALTH HAZARD INFORMATION FOR PRODUCT

EMERGENCY and FIRST AID PROCEDURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, if breathing is

difficult, give oxygen. Call physician.

Ingestion: Induce vomiting. Drink 2 glasses of water to dilute chemical. Call physician

immediately.

Eyes: Flush eyes immediately with water for at least 15 minutes and call a physician.

Skin: Wash exposed area with soap and water. If irritation or abnormalities persist,

call a physician.

EFFECTS OF OVEREXPOSURE (Acute and Chronic)

Inhalation: If misted may cause sneezing, slight irritation of nose and throat.

Ingestion: May cause nausea and vomiting.

Eyes: May cause watering of the eyes and inflammation of conjuctiva.

Skin: May cause irritation after prolonged contact.

PREVENTIVE MEASURES

Steps to be taken upon release or spillage (including neutralizing):

For small spills, dilute and wash area with water. For larger spills, contain and

pick up.

Waste disposal method:

Dispose in accordance with federal, provincial and local regulations in designated

landfill site.

Handling and Storage Requirements:

Store in cool, well ventilated, area away from strong oxidizers. Keep container closed

when not in use.

Ventilation Requirements (Local or General):

General ventilation is normally sufficient.

Respiratory Protection:

An approved NIOSH chemical cartridge respirator should be worn. Avoid

breathing mist or vapour.

Eye Protection:

Safety glasses or chemical workers goggles should be worn.

Other Protection:

Rubber gloves and coveralls should be used to minimize contact with skin and

clothing.

Prepared by: Technical Services Department,

Water Treatment Steam Boiler

MATERIAL SAFETY DATA SHEET

Nor-Chem Water Treatment LTD. 255 Thurso Street

Winnipeg, Manitoba, R3M 3C7

Phone: (204)478-9994 In Case of Emergency Only:

Phone CANUTEC: (613) 996-6666

Date completed: Nov. 1,2011

PRODUCT NAME:

SP-50 POWDERED BOILER COMPOUND

CODE: S763

pH: 1% sol. 10.7

OTHER NAME: DISTRIBUTED BY:

WHMIS CLASSIFICATION: D2A

TDG CLASSIFICATION:

Not Regulated

HAZARDOUS INGREDIENTS	%WT/WT	CAS NO.	TOXICITY DATA
			(LD ₅₀ & LC ₅₀)
Sodium Sulphite	40-70	7757-83-7	LD ₅₀ Oral (rabbit) 2825 mg/kg
			ACGIH TLV - 10 mg/m ³
Sodium Carbonate	10-30	497-19-8	LD ₅₀ Oral (rat) 2800 mg/kg
Nitrilotriacetic Acid,	3-7	5064-31-3	LD ₅₀ Oral (rat) 3715 mg/kg
	3-1	3004 31 5	LD50 Oral (rat) 57 15 mg/kg
Trisodium Salt			
Benzotriazole	1-5	95-14-7	LD ₅₀ Oral (rat) 560 mg/kg

PHYSICAL DATA FOR PRODUCT

Physical State: Solid

Sp. Gravity: Not Avail.

Boiling Point: Not Avail. Vapour Density: Non-volatile Vapour Pressure: N/A

Freezing Point: Not Avail.

Evaporation Rate: N/A

Solubility in Water: 5-10%

Appearance & Odour: Free flowing powder.

FIRE AND EXPLOSION DATA FOR PRODUCT

Flash Point (Test Method): N/A

Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A

Fire Extinguishing Substances: (X) Water Fog (X) Foam (X) CO₂

(X) Dry Chem () Other:

Hazardous Combustion Products:

May liberate carbon monoxide, carbon dioxide, oxides of sodium

and sulphur dioxide.

Special Firefighting Procedures:

Use self-contained breathing apparatus and protective clothing.

REACTIVITY DATA FOR PRODUCT

Incompatibility: () Water (X) Oxidizing Material (X) Acid () Base

() Other:

Hazardous Decomposition Products: Sulphur dioxide decomposes at 900°C

Chemical Stability: Stable under normal conditions.

*N/A - Not applicable.

Product Name: SP-50 POWDERED BOILER COMPOUND

HEALTH HAZARD INFORMATION FOR PRODUCT

EMERGENCY and FIRST AID PROCEDURES

Inhalation: Move to fresh air.

Ingestion: Do not induce vomiting. If swallowed, drink milk, egg whites or large quantities of water.

Get medical attention.

Eyes: Flush with plenty of water for 15 minutes. Get medical attention.

Skin: Flush with plenty of water.

EFFECTS OF OVEREXPOSURE (Acute and Chronic)

Inhalation: May cause irritation of upper respiratory tract and central nervous system depression.

Ingestion: Harmful, do not take internally. May cause central nervous system depression, low

blood pressure and circulating collapse. May cause irritation of the mouth and throat,

nausea, abdominal pain and diarrhea.

Eyes: Keep away from eyes, causes irritation.

Skin: Prolonged skin contact will cause irritation, defatting and drying and cracking of the skin.

PREVENTIVE MEASURES

Steps to be taken upon release or spillage (including neutralizing):

Flush with water and mop up. For large spills, dyke for later recovery of neutralized

product, sludge and contaminated soil.

Waste disposal method:

Dispose in accordance with federal, provincial and local regulations. Wastes should not

be disposed into local sewer or with normal refuse. Dispose in approved incinerator or

waste treatment disposal facility.

Handling and Storage Requirements:

Keep container closed and away from direct sunlight.

Ventilation Requirements (Local or General):

Local ventilation is sufficient.

Respiratory Protection:

Dust mask should be worn where dust occurs.

Eye Protection:

Safety glasses with sideshield.

Other Protection: Gloves should be worn.

Prepared by: Technical Services Department,



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(30041655/SDS_GEN_CA/EN)

1. Product and Company Identification

Use: Colorants for the Paints, lacquers and varnishes industry

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

Chemical family:

pigments, non-ionic surfactants, preparation, in water/solvent

2. Hazards Identification

Emergency overview

NO PARTICULAR HAZARDS KNOWN.

State of matter: liquid Colour: green Odour: product specific

Potential health effects

Acute toxicity:

Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

No significant reaction of the human body to the product known.

3. Composition / Information on Ingredients

Not WHMIS controlled.

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4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known

specific antidote.

5. Fire-Fighting Measures

Flash point:

> 100 °C

(DIN 51758)

Autoignition:

> 200 °C

(DIN 51794)

Flammability:

does not ignite

Suitable extinguishing media:

water spray, dry powder, foam

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

General advice:

No special measures necessary provided product is used correctly. Protect against heat.

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Protection against fire and explosion:

No special precautions necessary.

Storage

General advice:

Keep container tightly closed and in a cool place. Store protected against freezing.

Temperature tolerance

Protect from temperatures below: 0 °C Protect from temperatures above: 50 °C

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:

Odour: Odour threshold:

product specific No data available.

Colour:

green

pH value:

7 - 9

(20 °C) (measured with the undiluted

solidification temperature:

-30 °C

substance) (1,013 hPa)

miscible

boiling temperature:

approx. 100 °C

Vapour pressure:

not determined

Density: Relative density:

approx. 1.4 g/cm3

(approx. 20 °C) No data available.

Vapour density:

Particle size:

not determined

The substance / product is marketed or used in a non solid or granular form.

Solubility in water:

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme heat.

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Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

not determined

Corrosion to metals:

No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

Inhalation:

not determined

Dermal:

not determined

Irritation / corrosion

Skin:

Species: rabbit Result: non-irritant

Method: OECD Guideline 404

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Aspiration Hazard:

No aspiration hazard expected.

Other Information:

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Fish

Leuciscus idus/LC50 (96 h): > 100 mg/l

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The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic:

No data available.

Aquatic invertebrates

Acute:

No data available concerning toxicity for daphnia.

Chronic:

No data available.

Aquatic plants

Toxicity to aquatic plants:

No data available concerning toxicity for algae.

Microorganisms

Toxicity to microorganisms:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Degradability / Persistence

Biological / Abiological Degradation

Test method:

Static test 25 - 50 %

Degree of elimination: Evaluation:

Moderately/partially eliminated from water.

The product is not very soluble in water and can thus be removed from water

mechanically in suitable effluent treatment plants.

The solvents are biodegradable.

Other adverse effects:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

The product contains: 3 (W/W) % copper

The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

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Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical

DSL, CA

released / listed

Not WHMIS controlled.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by: BASF NA Product Regulations msds@basf.com MSDS Prepared on: 2010/12/13

Luconyl is a registered trademark of BASF Canada or BASF SE END OF DATA SHEET



Safety Data Sheet Luconyl® Brown 2915

Revision date: 2012/09/14

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Version: 1.0

(30041641/SDS GEN CA/EN)

1. Product and Company Identification

Company
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information CANUTEC (reverse charges): (613) 996-6666 BASF HOTLINE: (800) 454-COPE (2673)

Chemical family:

iron oxide, in water/solvent

Synonyms:

Water/DPG dispersion of pigment red 101; C.I. 77491

2. Hazards Identification

Emergency overview

CAUTION

May cause sensitization by skin contact.

Prolonged or repeated exposure may cause pneumoconiosis.

The statements are based on the properties of the individual components.

Avoid inhalation of mists/vapours.

Use with local exhaust ventilation.

Wear protective clothing.

Wear full face shield if splashing hazard exists.

State of matter: liquid

Colour: brown

Odour: product specific

Potential health effects

Primary routes of entry:

Eyes

Skin

Inhalation.

Ingestion.

Acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization:

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sensitizing effect in animal tests The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity:

Repeated dose toxicity: The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

3. Composition / Information on Ingredients

CAS Number 1309-37-1 Content (W/W) 40.0 - 50.0 %

Hazardous ingredients

Iron oxide

26316-40-5

5.0 - 10.0 %

Ethylenediamine, ethoxylated and propoxylated

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Remove contaminated clothing. Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known

specific antidote.

5. Fire-Fighting Measures

Flash point: Autoignition: > 100 °C > 200 °C (DIN 51758)

Lower explosion limit:

2.9 %(V)

(DIN 51794) Information applies to the solvent.

Upper explosion limit:

12.6 %(V)

Information applies to the solvent.

Flammability:

not determined

not self-igniting

Self-ignition temperature:

Suitable extinguishing media:

water spray, dry powder, foam

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus in confined areas or when exposed to combustion products.

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(30041641/SDS_GEN_CA/EN)

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:

Ensure thorough ventilation of stores and work areas.

Storage

General advice:

Keep container tightly closed and in a cool place.

Storage stability:

Storage temperature: <= 60 °C

Temperature tolerance

Protect from temperatures above: 60 °C

8. Exposure Controls and Personal Protection

Components with workplace control parameters

Iron oxide

OSHA

PEL 10 mg/m3 fumes/smoke;

ACGIH

TWA value 5 mg/m3 Respirable fraction;

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Eye wash fountains and safety showers must be easily accessible.

9. Physical and Chemical Properties

Form:

liquid

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Odour:

Odour threshold:

product specific No data available.

Colour:

brown 8 - 9

(20 °C) (measured with the undiluted

pH value:

solidification temperature:

-17 °C

substance)

boiling temperature:

approx. 100 °C

not determined

Vapour pressure:

(20°C)

Density: Relative density: approx. 1.5 g/cm3

Study does not need to be conducted.

Vapour density: Partitioning coefficient nnot determined

octanol/water (log Pow):

not applicable

Viscosity, dynamic:

not determined

Particle size:

The substance / product is marketed or used

in a non solid or granular form.

miscible

Solubility in water:

10. Stability and Reactivity

Conditions to avoid:

No special precautions other than good housekeeping of chemicals.

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Information on: Iron oxide Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Information on: dipropylene glycol

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral:

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual

components

Inhalation:

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Species: rat Value: (IRT) Exposure time: 8 h

No mortality within the stated exposition time as shown in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal:

not determined

Irritation / corrosion

Information on: Iron oxide
Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Information on: dipropylene glycol Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Skin:

Information on: Iron oxide Species: rabbit Result: non-irritant

Method: OECD Guideline 404

Information on: dipropylene glycol

Species: rabbit Result: non-irritant

Eye:

Information on: Iron oxide

Species: rabbit Result: non-irritant

Method: OECD Guideline 405

Information on: dipropylene glycol

Species: rabbit Result: non-irritant

Sensitization

Information on: Iron oxide
Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Information on: dipropylene glycol Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Information on: Ethylenediamine, ethoxylated and propoxylated

Assessment of sensitization: sensitizing effect in animal tests

Information on: Iron oxide Maurer optimisation test Species: guinea pig

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Result: Non-sensitizing,

Information on: dipropylene glycol

Buehler test Species: guinea pig Result: Non-sensitizing.

Information on: Ethylenediamine, ethoxylated and propoxylated

Mouse Local Lymph Node Assay (LLNA)

Species: mouse Result: sensitizing

Method: OECD Guideline 429 Guinea pig maximization test

Species: guinea pig Result: Non-sensitizing.

Repeated dose toxicity

Information on: Iron oxide

Assessment of repeated dose toxicity:

The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

Information on: dipropylene glycol

Assessment of repeated dose toxicity:

No adverse effects were observed after repeated exposure in animal studies.

Genetic toxicity

Information on: Iron oxide

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: dipropylene glycol

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Carcinogenicity

Information on: Iron oxide

The whole of the information assessable provides no indication of a carcinogenic effect. IARC Group 3 (not classifiable as to human carcinogenicity).

Information on: dipropylene glycol

In long-term studies in rats and mice in which the substance was given by drinking-water, a carcinogenic effect was not observed.

Reproductive toxicity

Information on: Iron oxide Study scientifically not justified. Information on: dipropylene glycol

No data available concerning reproduction toxicity. The chemical structure does not suggest a specific alert for such an effect.

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Development:

Information on: Iron oxide Study scientifically not justified. Information on: dipropylene glycol

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Aspiration Hazard:

No aspiration hazard expected.

12. Ecological Information

Fish

Acute:

Leuciscus idus/LC50 (96 h): > 1,000 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components

Microorganisms

Toxicity to microorganisms:

C test activated sludge/EC50: > 1,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Degradability / Persistence

Biological / Abiological Degradation

Test method:

Static test

Method of analysis: Degree of elimination: colour reduction > 90 %

Test method:

OECD Guideline 302 B

Method of analysis:

DOC reduction

Degree of elimination:

> 70 %

Evaluation:

Easily eliminated from water.

Easily eliminated from water.

The product is virtually insoluble in water and can thus be separated from

water mechanically in suitable effluent treatment plants.

Other adverse effects:

Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

. Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical

DSL, CA

released / listed

WHMIS classification: D2B: Materials Causing Other Toxic Effects - Toxic

material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations msds@basf.com BASF HOTLINE (800) 454 - COPE (2673) MSDS Prepared on: 2012/09/14

Luconyl is a registered trademark of BASF Canada or BASF SE END OF DATA SHEET

PLASTI-FAB LTD. EPR RESIN

MATERIAL SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION:

TRADE NAME:

EPR

CHEMICAL NAME:

EXPANDABLE POLYSTYRENE RESIN

MANUFACTURER:

Plasti-Fab Ltd. Polymer Plant, Box 88, 802 McCool Street,

Crossfield, Alberta, Canada, TOM 0S0

2. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW:

Pentane vapours are primary concern. Be aware that pentane vapours are

extremely flammable and heavier than air.

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY:

CARCINOGEN/TERATOGEN/

MUTAGEN:

Skin Contact, Eye Contact, Inhalation, Ingestion

No

See section 11

WHMIS Classification:

Indicated as being Class B (Flammable) due to pentane vapours

3. COMPOSITION, INFORMATION ON INGREDIENTS:

MPOSITION, INFORMATION OF THE		Chemical Name
CAS Number	Content (W/W)	Polystyrene
9003-53-6	>90% <7.0%	n-Pentane
109-66-0	<7.0% <1.0%	Isopentane
78-78-4	<1.0%	1,2,5,6,9,10-Hexabromocyclododecane
3194-55-6	<1.078	, 1 – 1 – 1 – 1

4. FIRST-AID MEASURES:

Eyes:

Flush with flowing water for several minutes. If irritation persists, obtain medical

assistance

Skin:

Wash with soap & water

Ingestion:

Consult a physician if more than a mouthful is ingested

Inhalation:

If excessive pentane vapours are inhaled, remove victim to fresh air. Assist breathing

and obtain medical assistance.

EMERGENCY PHONE NUMBERS

403-946-5031 (24 Hours) 403-946-4576 (Office Hours)

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5. FIRE-FIGHTING MEASURES:

Conditions of Flammability:

Vapours can be ignited by heat, sparks, flames or other sources of

ignition

Water Fog

• Foam

Means of Extinction:

Dry Chemical

ABC type Extinguisher

Protective Equipment

Self-contained breathing apparatus

Flash Point:

< -40 °C / -40 °F (pentane)

Upper Explosive Limit:

8.3 (% by Volume)

Lower Explosive Limit:

1.4 (% by Volume)

Autoignition Temperature:

284 °C / 544 °F (pentane)

Hazardous Combustion Products:

CO, HBr

Explosion Data:

Not available

6. ACCIDENTAL RELEASE MEASURES:

Ventilate area of leak or spill to avoid accumulation of vapours. Remove all sources of ignition. Wear appropriate personal protective equipment. Sweep up, using non-sparking equipment. Avoid static build up and discharge.

7. HANDLING AND STORAGE:

Do not smoke in areas where product is being stored or used. Store away from all sources of ignition. Ventilate storage areas well. Handle carefully using spark-proof tools; electrostatic discharge can be generated during handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Airborne Exposure Limits (for pentane):

-OSHA Permissible Exposure Limit (PEL):

1000 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):

600 ppm (TWA)

RESPIRATORY PROTECTION: Cartridge or self-contained respirator, if TLV is exceeded

SKIN PROTECTION: Hand protection not normally required.

EYE PROTECTION: Safety glasses with side protection.

General Hygiene: Wash thoroughly after handling. Do not eat, drink or smoke in work area.

EMERGENCY PHONE NUMBERS

403-946-5031 (24 Hours)

403-946-4576 (Office Hours)

APPENDIX J GENERAL TERMS AND CONDITIONS

AMEC Environment and Infrastructure, A Division of AMEC Americas Limited STATEMENT OF GENERAL CONDITIONS - ENVIRONMENTAL SERVICES

- 1. STANDARD OF CARE In the performance of professional services, AMEC uses that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession practicing in the same or similar localities. No warranty, either express or implied, is made or intended by this Agreement or by furnishing oral or written reports of the findings. AMEC is to be liable only for damage proximately caused by the negligence of AMEC. The CLIENT recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys or explorations are made by AMEC and that the data, interpretations and recommendation of AMEC are based solely on the information available to him. AMEC will not be responsible for the interpretation by others of the information developed.
- 2. SITE INFORMATION The CLIENT has agreed to make available to AMEC all relevant information and documents under his control regarding past, present and proposed conditions of the site. The information shall include, but not be limited to, plot plans, topographic surveys, hydrologic data and previous soil and geologic data including borings, field or laboratory tests and written reports. The CLIENT shall immediately transmit to AMEC any new information that becomes available or any change in plans. The CLIENT also ensured uninterrupted site access for AMEC throughout performance of this Agreement.

AMEC agrees to include a review of all historical information obtained by the CLIENT or provided by the Client to assist in the investigation of the Site unless and except to the extent that such a review is limited or excluded from the scope of work to be performed by AMEC.

- 3. FULL DISCLOSURE The CLIENT acknowledges that in order for AMEC to properly advise and assist the CLIENT in respect of the investigation of the Site, AMEC has relied upon full disclosure by the CLIENT of all matters pertinent to an investigation of the Site.
- 4. DELAYS AND INTERRUPTIONS Should AMEC have been delayed or interrupted by others in the performance of its services or be required to perform additional services as a result of any delay or interruption caused by others, AMEC shall be equitably compensated by the CLIENT for all costs, charges and expenses which it may incur as a result of such delay or interruption and any such additional services to be performed and any and all consequences resulting from such delay or interruption.
- 5. USE OF WORK PRODUCT AMEC agrees to provide to the CLIENT interim reports outlining the progress of the investigation of the Site on a periodic basis and a final comprehensive report upon the completion of the investigation of the Site.
- 6. COMPLETE REPORT This document being a part of the Report is of a summary nature and is not intended to stand alone without reference to the instructions given to AMEC by the CLIENT, communications between AMEC and the CLIENT, and to any other reports, writings or documents prepared by AMEC for the CLIENT relative to the specific Site described herein, all of which constitute the Report. Wherever the word "Report" is used herein, it shall refer to any and all of the documents referred to herein.

In order to properly understand the suggestions, recommendations and opinions expressed herein, reference must be made to the whole of the Report. AMEC cannot be responsible for use by any part of portions of the report without reference to the whole report.

- 7. LIMITATIONS ON SCOPE OF INVESTIGATION AND WARRANTY DISCLAIMER There is no warranty, expressed or implied, by AMEC that:
- a) The investigation shall uncover all potential contaminants, including asbestos, on the Site; or
- b) The Site will be entirely free of all Targeted Contaminants or other contaminants as a result of any cleanup work undertaken on the Site, since it is not possible, even with exhaustive sampling, testing and analysis, to document all potential contaminants on the Site.

Classification and identification of soils, rocks, geological units, contaminated materials and contaminant quantities have been based on commonly accepted practices in environmental consulting practice in this area.

The CLIENT acknowledges that:

- a) The investigation findings are based solely on the information generated as a result of the specific scope of the investigation authorized by the CLIENT;
- b) any assessment regarding the presence of contamination of the Site is based on the interpretation of conditions determined at specific sampling locations and depths and that conditions may vary between sampling locations;
- c) there can be no assurance that isolated pockets of contaminants are not located on the Site;
- d) any assessment is also dependent on and limited by the accuracy of the analytical data generated by the sample analyses;
- e) any assessment is also limited by the scientific possibility of determining the presence of contaminants for which scientific analyses have been conducted; and
- f) the analytical parameters selected are limited to those outlined in the CLIENT's authorized scope of investigation (in the absence of any evidence of potential contamination sources on the Site, which may warrant expanding the analytical parameters).
- 8. REMEDIATION COST ESTIMATES Estimates of remediation costs can only be based on the specific information generated and the technical limitations of the investigation authorized by the CLIENT. Accordingly, estimated costs for remediation only represent the cost to clean up known contaminants that have been identified during the course of the investigation. As remediation of a Site is often an iterative exercise, estimated costs for remediation should only be interpreted to cover the first stage of any Site remediation until such time as verification samples indicate that the Site has been fully remediated and AMEC shall therefore not be liable for the accuracy of any estimates of remediation costs provided.
- 9. CONTROL OF WORK AND JOBSITE SAFETY AMEC is only responsible for the activities of its employees on the jobsite. The presence of AMEC personnel on the Site shall not be construed in any way to relieve the CLIENT or any contractors on Site from their responsibilities for Site safety. The CLIENT undertakes to inform AMEC of all hazardous conditions, or possible hazardous conditions which are known to him. The CLIENT also recognizes that the activities of AMEC may uncover previously unknown hazardous materials and that such a discovery may result in the necessity to undertake emergency procedures to protect AMEC employees as well as the public at large and the environment in general. The CLIENT also acknowledges that in some cases the discovery of hazardous conditions and materials will require that certain regulatory bodies be informed and the CLIENT agrees that notification to such bodies by AMEC will not be a cause of action or dispute.

10. LIMITATION OF RESPONSIBILITY

Limitation of Liability - The CLIENT has agrees that, notwithstanding any other provision negotiated as part of AMEC's contract, the total liability of AMEC, its officers, directors and employees for liabilities, claims, judgments, demands and causes of action arising under or related to this Agreement, whether based in contract or tort, shall be limited to the total compensation actually paid to AMEC for the services hereunder or \$50,000, whichever is less. All claims by the CLIENT shall be deemed relinquished unless filed within one (1) year after substantial completion of the services hereunder.

No Special or Consequential Damages - CLIENT and AMEC agree that to the fullest extent permitted by law that AMEC shall not be responsible for any consequential, incidental or indirect damages.

Indemnification - Because CLIENT owns and/or operates the site where work is being performed, CLIENT has and shall retain all responsibility and liability associated with the environmental conditions at the site. Unless specifically identified elsewhere, CLIENT'S responsibility and liability includes the handling and disposal of any samples or hazardous materials generated on the site as a result of AMEC's performance hereunder. To the fullest extent permitted by law, the CLIENT agrees to defend, indemnify and hold AMEC, its agents, subcontractors, and employees harmless from and against any and all claims, defense costs, including attorney's fees, damages, and other liabilities arising out of or in any way related to CONSULTANT's reports or recommendations concerning this Agreement, AMEC's presence on the project property, or the presence, release, or threatened release of asbestos, hazardous substances, or pollutants on or from the project property; provided that the CLIENT shall not indemnify AMEC against liability for damages to the extent caused by the negligence or intentional misconduct of AMEC, its agents, subcontractors, or employees.