# HYDROGEOLOGY and TEST DRILLING REPORT

## Mansfield Ski Club

Mulmur Township, Ontario

**Prepared For:** 

# Mansfield Ski Club

File no.: 510-161

June 2016

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#### 1.0 INTRODUCTION

Morrison Environmental Limited (MEL) were requested by Finley McEwen on behalf of Mansfield Ski Club (MSC) to conduct a Hydrogeologic Investigation in the vicinity of the Ski Club.

The attached **FIGURE 1** is a topographic location map of the study area. The attached **FIGURE 2** is an airphoto map of the area. **FIGURE 3** is a slightly more zoomed in Airphoto that also shows the area and the location of the two test wells and an observation well.

The purpose of the investigation was to determine the Geology of the overburden and bedrock in the vicinity of the club and the Hydrogeology of the overburden and the bedrock. A test drilling program was conducted to determine aquifer coefficients. All of this was to assess the potential for expanding the existing water supply for the club and also to assess the potential to supply additional water for the expansion to the club, while not interfering with other groundwater users.

In the report we will discuss the local and regional geology and hydrogeology. We will then discuss local domestic water supplies. We will then discuss the details of a two well drilling and testing program we conducted at the site, the well and aquifer testing program and the well and aquifer yield. We will then discuss an iterative groundwater modelling program and our water quality testing program before drawing conclusions and making recommendations.

#### 2.0 <u>GEOLOGY</u>

#### 2.1 <u>Regional Geology</u>

The Mansfield Ski Club is located on the east facing slope of the Niagara Escarpment. The crest of the escarpment is characterized by a limestone/dolostone cap (Anabel Formation) on the escarpment underlain by siltstones and shales predominantly of Silurian aged rocks ( $\pm$ 350 million years). These shales extend out easterly under the overburden plain. The bedrock beds dip gently to the southwest at about 20 feet per mile. Below the limestone/dolostone cap the

shale has weathered and there is a talus slope. Subsequent to the Paleozoic bedrock the area has been glaciated by glacial ice advances in the past 60,000 years. The glacial ice advancement out from the centroid of the ice lobe (in the Lake Simcoe area) was in a southerly and southwesterly direction. Glacial till was laid down at the base of glacial ice and smeared on the bedrock through the freeze/melt cycle at the base of the advancing glacier. This glacial till appears to overlie the bedrock throughout the area.

Below the escarpment a thick sand layer outcrops at surface. This appears to be an outwash or lacustrine sand that was deposited in front of the glacier during the waning stages of the last glaciation. On top of the escarpment and to the south along Airport Road ice contact stratified drift has been mapped (kame and outwash). The attached **FIGURE 4** shows the interpreted geology in the vicinity of MSC.

Near the Pine River (which is a tributary of the Nottawasaga River) the more recent alluvium has been mapped and is also shown on **FIGURE 4**.

#### 2.2 Local Geology

On the MSC site, bedrock outcrops or subcrops close to surface near the top of the escarpment. Although a talus slope exists on the escarpment it appears to have been veneered by glacial till. Farther down the escarpment the outwash lacustrine sands outcrop above the glacial till and extensively cover the map area of **FIGURE 4**. The alluvium of the Pine River floodplain is mapped across the area.

#### 3.0 HYDROGEOLOGY

Hydrogeology deals with the movement of groundwater through the overburden and bedrock sediments of the area.

#### 3.1 <u>Regional Hydrogeology</u>

On top of the escarpment the water in the overburden and bedrock flows to the west, away from the escarpment. Below the escarpment, groundwater also flows away from the escarpment but in an easterly direction. Below the escarpment the groundwater flows towards and discharges into the Pine River.

The groundwater in the outwash/lacustrine sands and the alluvium all flows naturally to the Pine River. This surface sand aquifer is a water table aquifer; that is recharged by rainfall, snow melt and runoff, all of which, moves through the pore spaces in the sand. Recharge to the sand aquifer far exceeds any existing or envisioned water takings.

The bedrock is another aquifer used in the area. The groundwater moves under the MSC site in the bedrock in an easterly direction. Groundwater in the bedrock moves westerly from near the crest of the escarpment.

Generally water in the shallow overburden is good quality water with low hardness, low chlorides and low sulphates. Groundwater in the bedrock generally has higher hardness, chlorides and sulphates and often contains hydrogen sulfide gas.

#### 3.2 Local Hydrogeology

Water supplies captured by deep drilled bedrock wells such as the main club well is low yielding and is highly mineralized. The well is located just east of the main parking lot. The wells' yield is about 6 igpm (27.3L/min).

The MSC also have a shallow bored well, which is located on Chalet Run between the main facilities and the base of the escarpment. This well has better quality water but has a low yield 1-2 igpm (4.5-9 L/min).

#### 4.0 LOCAL GROUNDWATER SUPPLIES

All of the local residents in Mulmur Township rely on groundwater for their domestic supplies. The attached **FIGURE A-1 in APPENDIX A** shows the water well records on file with the Ministry of the Environment and Climate Change (MOECC) within the shaded target area (1000 m radius) shown on the Airphoto. Each well symbol with an associated 7 digit identification code represents a well. The attached **TABLE A-1 in APPENDIX A** shows the Well Identification number, the date the well was completed, the depth of the well, the depth to bedrock (if the well ends in bedrock) and the static water level (level below ground surface) that the water surface sits at.

The attached **FIGURE A-2** is an airphoto base showing a selection of wells from the original database. On this plan wells drilled and bored into the overburden are distinguished from wells drilled into the bedrock. The attached **TABLE A-2** shows the well identification, where the well was completed, the depth, the top of screen (overburden well) or the top of the bedrock. The static water level recorded by the water well contractor is also shown.

The attached **APPENDIX A-1** provides the drilling contractors actual water well records for these selected wells.

In general, wells drilled into the bedrock have relatively low yields and the groundwater is mineralized. In general, the overburden wells are not so highly mineralized and the yields are larger. Drilled wells are generally more productive then bored wells.

#### 5.0 TEST DRILLING PROGRAM

Following the evaluation of Geology and Hydrogeology in the area we conducted an onsite Test Drilling Program. The evaluation of regional conditions guided us away from bedrock wells in vicinity of the MSC facilities and away from the crest of the escarpment. The shallow outwash aquifer, off the escarpment looked the most promising. We selected the two test wells locations on the northeast side of the site. The first location was on the east side of the road/parking area in the racing school area.

We retained the services of a Water Well Contractor with the prerequisite experience and equipment to drill and sample for potential higher capacity wells.

The area tested was interpreted to be in an outwash sand aquifer.

#### 5.1 Drilling, Design and Construction of PW1

On May 11, 2016 a 6 inch (150 mm) diameter test well was drilled at the location of PW1 shown on **FIGURE 3**. The well was drilled by the mud rotary method of using clean water. The attached **FIGURE B-1 in APPENDIX B** is a sketch showing the construction of PW1. The sketch shows the Driller's Log of the formations encountered and the construction details of the well.

The attached **FIGURE B-2 in APPENDIX B** is the contractor's Water Well Record for the well PW1. Representative samples of the material encountered were collected, bagged and analyzed for grain size distribution. This arithmetic grain size distribution graph is used specifically for the design of well screens. The specific grain size distribution curves are presented on **FIGURES B-3, TO B-8 in APPENDIX B**.

Based on those analyses a well screen was designed for the well. Eleven feet of 8 slot, 6 inch diameter telescoping stainless steel wire wound well screen was designed and installed in PW1 from 26 to 37 feet (7.9 - 11.3 m). The well was equipped with a 3ft (0.91 m) long sump, below the screen and a 3 ft (0.91 m) long header pipe with a figure K packer above the screen. The static level was 5.45 ft (1.6 m) below ground surface (bgs).

The bottom of the formation was 37 ft (11.3 m) while the bottom of the test hole was 43 ft (13.1 m).

The well was developed by air lift pumping and over pumping until clear, colourless, sand free water was produced.

#### 5.2 Drilling, Design and Construction of PW2

On May 16, 2016 a 6 inch (150 mm) diameter test well was drilled at the location of PW2 as shown on **FIGURE 3**. This well was located 175 ft (53.4 m) south of PW1. Again the well was drilled by the mud rotary method using clean water. The attached **FIGURE C-1 in APPENDIX C** is a sketch showing the construction of the well. The sketch shows the Driller's Log of the formation encountered and the construction details of the well.

The attached **FIGURE C-2 in APPENDIX C** is the contractor's Water Well Record of well PW2. Again representative samples of the material encountered were collected, bagged and analyzed for grain size distribution. The specific grain size distribution curves are presented in **FIGURES C3 to C7 in APPENDIX C**.

Based on these analyses a well screen was designed for the well. Here ten feet of 8 slot, 6 inch diameter telescoping stainless steel wire would well screen was designed and installed in PW2 form 26 to 36 ft (7.9 - 11 m). The well was also equipped with a 3 ft (0.91 m) long sump below the screen and a 3 ft (0.91 m) long header pipe with a figure K packer above the screen. The static water level was 5.26 ft (1.61 m) below ground surface. The bottom of the formation was at 37 feet (11.3 m) while the bottom of the test hole was at 43 ft (13.1 m).

The well was developed by air lift pumping and over pumping until clear, colourless, sand free water was produced.

#### 6.0 WELL AND AQUIFER TESTING

A pumping test run on a well at a constant rate allows us to test the aquifer and determine the important aquifer coefficients of Transmissivity and Storativity. Knowing these parameters allows us to model the aquifer using various pumping rates and scenarios.

A series of tests run on a well at varying controlled pumping rates allows us to evaluate the specific well by determining well losses, formation losses, and well efficiency.

#### 6.1 <u>Step Drawdown Testing of PW1</u>

On May 31, 2016 a three step, Mogg Type, Step Drawdown Test was conducted on PW1. Each step was 15 minutes in duration and at a controlled rate. The well was allowed to recover for about 15 minutes between each step. A semi-logarithmic plot of drawdown vs time for the step test is included in **APPENDIX D as FIGURE D-1**. The steps were run at 5.7, 8.8 and 12.3 igpm (25.9, 40.1 and 56.0 L/m).

The attached **FIGURE D-2 in APPENDIX D** shows the drawdown recorded at 15 minutes of each step recorded on an arithmetic plot of drawdown vs pumping rate. The efficiency of the well drops off with each increase in pumping rate.

#### 6.2 <u>Step Drawdown Testing of PW2</u>

On May 31, 2016 a 3 step Mogg type Step Drawdown Teste was conducted on PW2. Each step was 15 minutes in duration at a controlled rate. During the test the well was allowed to recover for around 15 minutes before starting the next sept. The test data was plotted on a semilogarithmic plot of drawdown vs time. The graph is included as **FIGURE D-3 in APPENDIX D**. The Steps for this test were conducted at rates of 5.7, 8.2 and 12.1 igpm (25.9, 37.4 and 55.0 L/m).

The attached **FIGURE D-4 in APPENDIX D** shows the drawdown measured at 15 minutes of each step and is recorded on an arithmetic plot of drawdown vs pumping rate. The efficiency of PW2 drops off with each increase in the pumping rates. PW2 is considerably more efficient that PW1.

#### 6.3 Aquifer Performance Testing on PW2

On May 25, 2016 we started a 69 hour aquifer performance test on PW2. The pumping rate was 5.7 igpm (6.9 usgpm) or [32.9 L/min] or 47,300 L/day.

The pumping rate was chosen to be below the 50,000 L/day requirement for a Permit To Take Water (PTTW). The rate was controlled using a constant flow Dole valve.

The pumping well PW2 was equipped with a data logger that recorded water levels every minute. Well PW1 was located 175 ft (53.4 m) north of PW2 and was also equipped with a data logger and used as an observation well during the test. Also a private dug well on the neighbours property to the east was also equipped with a data logger. That well was about 850 ft (260 m) to the east. This well is in service. It is located east of the Pine River.

The attached **FIGURE D-5 in APPENDIX D** is a semi-logarithmic plot of drawdown vs time for the pumped well PW2 data. The drawdown and recovery data is shown on the figure. The water levels rose slightly during day one of the test, stayed steady during day two and part of day three before declining to the end of the test. Subsequent analysis of barometric pressure indicated that there was a corresponding change in the barometric pressure that occurred during this period of the test. See **FIGURE D-9 in APPENDIX D**. The barometric pressure gradually decreased over the first 24 hours of the test and then decreased more rapidly, followed by a gradual increase in barometric pressure during the latter hours of the test. The barometric pressure declined during the recovery period. See also **FIGURE D-10 in APPENDIX D** for an arithmetic plot of barometric pressure.

From the recovery data we have interpreted a Transmissivity for the aquifer of 19,000 igpd/ft (280 m<sup>2</sup>/d). The clean sand aquifer therefore has a high Transmissivity.

The attached **FIGURE D-7 in APPENDIX D** is a semi-logarithmic plot of drawdown vs time of the Observation well (OW1). This is the domestic bored well for Alex Kolodziejski the neighbor located to the east of the pumping wells. The barometric changes are evident of this domestic well.

No interference was experienced during the pumping test at the Kolodziejski well. The changes in water level on the plot were do to domestic usage.

The attached **FIGURE D-8** is a semi-logarithmic plot of drawdown vs distance of the pumping test data. Interpreting this graph, the small drawdown observed of PW1 and the Transmissivity previously determined of 19,000 igpd/ft ( $280m^2/d$ ) clearly applies across the site. The Storativity was calculated to be  $1x10^{-2}$  (unitless).

This graph also indicates the radius of influence at the end of the 69 hour aquifer test was about 350 ft (107 m).

It is clear from the test data that the expanding drawdown cone did <u>not</u> reach the Kolodziejski well. The cone of influence did not reach the Pine River either. If the MSC wells are put into service the expanding cone of influence will not extend beyond the Pine River as it is a Recharge boundary.

#### 7.0 MODELLING OF GROUDNWATER AVIALABILITY

Having successfully drilled and tested the two production wells, we have established that the Transmissivity of the aquifer is about 19,000 igpd/ft (280 m<sup>2</sup>/day) and the Storativity of the aquifer is interpreted to be about  $1 \times 10^{-2}$  (unitless). Applying these aquifer coefficients we used a spreadsheet model to estimate the combined yield of the two wells PW1 and PW2.

Through the iterative process there were several runs of the model to determine the maximum capacity of the two wells. The attached **FIGURE E-1 in APPENDIX E** indicates that total

pumping from the two wells of about 40 igpm (182 L/min) is available. The lower efficiency of PW1 may limit its maximum yield.

At this stage it is reasonable to assume that higher groundwater yields can be archived by drilling additional wells in this area along the north east limit of the property. Modeling to determine maximum yields has not yet been performed.

#### 8.0 WATER QUALITY TESTING OF PW2

During the 69 hour aquifer performance test on PW2 we collected water quality samples and submitted them to Agat Laboratories for basic Ionic Balance Analyses. The results of the analyses and the associated Quality Assurance Tests are included in **APPENDIX F**.

The water had a normal pH of 7.91, a hardness of 311 mg/L which is slightly hard but normal for this area. The Total Dissolved Solids (TDS) was low 324 mg/L indicating low mineralization. Chlorides are low at 11 mg/L. Nitrates are low at <0.25 mg/L. Sulphates are also low at 40.2 mg/L.

The only parameter that exceeds the guidelines is Manganese at 0.057 mg/L where the guideline is 0.05 mg/L. This is an aesthetic parameter not a health parameter.

It is cautioned that these analyses were selected to "Finger Print" the water quality at his early stage. More complete analyses will be performed before any water is consumed.

#### 9.0 <u>SUMMARY AND CONCLUSIONS</u>

Based on the Geologic and Hydrogeologic conditions interpreted around the MSC site and the drilling and testing program performed on the site it is summarized and concluded that:

- 1. The shale bedrock and the talus sediments are poorly productive water bearing zones,
- 2. The outwash sands are the most highly productive water bearing zones at the site,
- 3. Groundwater in the limestone and shale bedrock flows westward from the top of the escarpment,
- 4. Groundwater in the shale bedrock beneath the ski slopes and the plain to the east flows to the east generally discharging into the granular sediments and the Pine River,
- 5. Recharge due to high infiltration assures the Water Balance far exceeds foreseeable withdrawals,
- 6. Local residents rely on wells ending in the bedrock and the overburden for their water supply,
- 7. Test drilling into the outwash lacustrine sand aquifer in the northeast sector of the site produced relatively high yields of good quality water,
- 8. The pumping of the test wells did not and will not create interference problems with the local area well supplies,
- 9. Significant recharge to the outwash aquifer occurs through the infiltration of precipitation and runoff from the slopes,
- 10. The existing two test wells can supply about 40 igpm (182 L/m) on a perennial basis established by the interpretation of the aquifer tests and a groundwater model,
- 11. The water quality indicates that the two test wells yield good quality water, with low chlorides and sulphates and slightly elevated hardness.

#### 10.0 <u>RECOMMENDATIONS</u>

Based on the above summary and conclusions we recommend that:

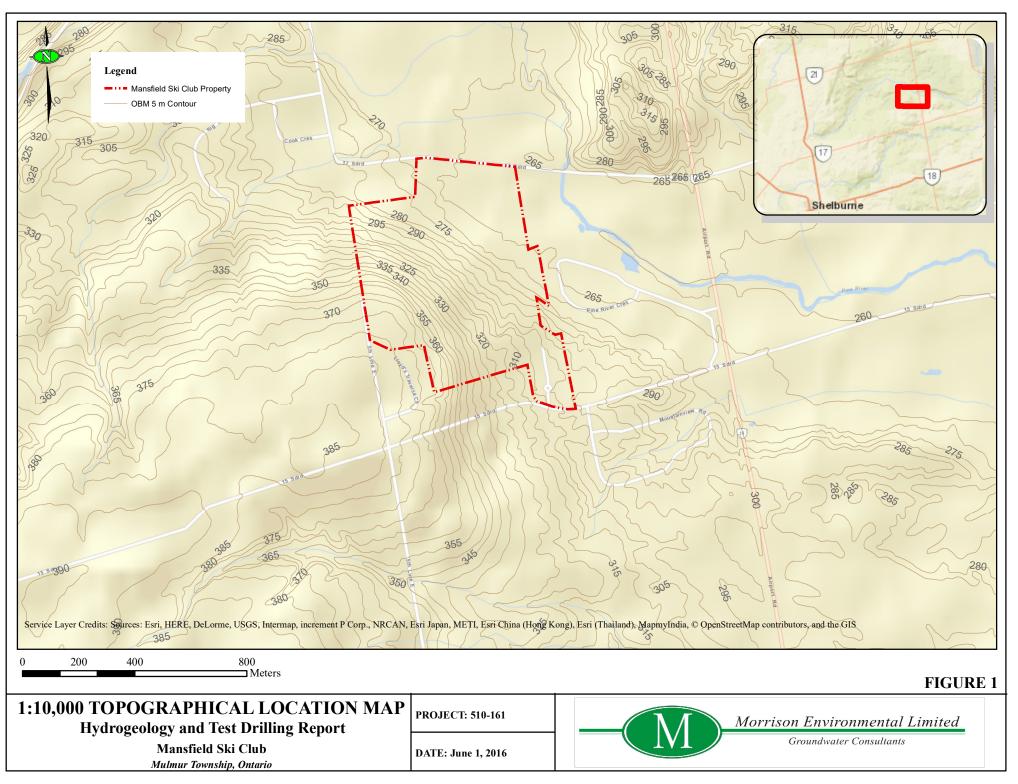
- 1. MSC consider using this new source of supply for their existing facilities
- 2. MSC consider this new tested supply and a possible extension of this supply for their proposed expansion.

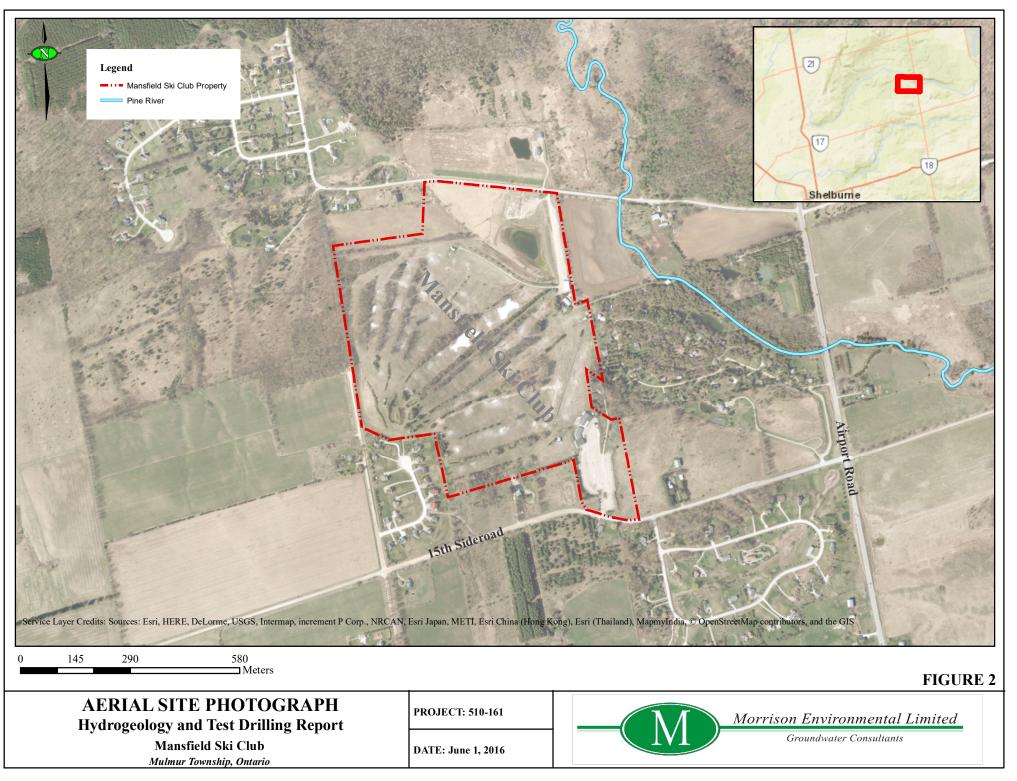
Respectfully submitted,

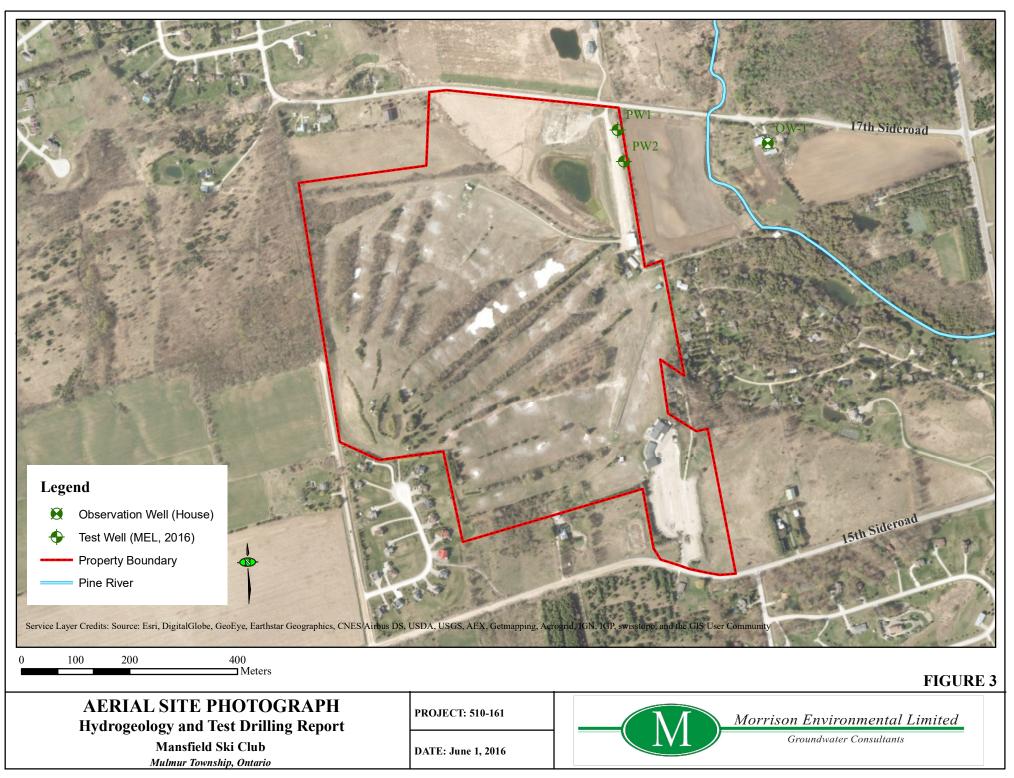
MORRISON ENVIRONMENTAL LIMITED

William D. Morrison, P.Eng. President

### **FIGURES**







Isth sideros	a	Airport Rd	Legend         9: Paleozoic bedrock         9: Stone-poor, carbonate-derived silty to sandy till         9: Ce-contact stratified deposits         9: Stone nalluvial deposits         9: Mansfield Ski Club         Pine River
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS Ontario Geological Survey 2010. Surficial geology of southern Ontario; Ontario Geological Survey, N Data 128 – Revised.	, USDA, USGS, AEX, Getmapping, Aerog Miscellaneous Release—	rid, IGN, IGP, swisstopo, and the GIS User Commu	nity
0 250 500 1,000 Meters			FIGURE 4
QUATERNARY GEOLOGY MAP Hydrogeology and Test Drilling Report Mansfield Ski Club	PROJECT: 510-161 DATE: June 1, 2016		rrison Environmental Limited Groundwater Consultants

Mulmur Township, Ontario

## APPENDIX A

### Well Location Map

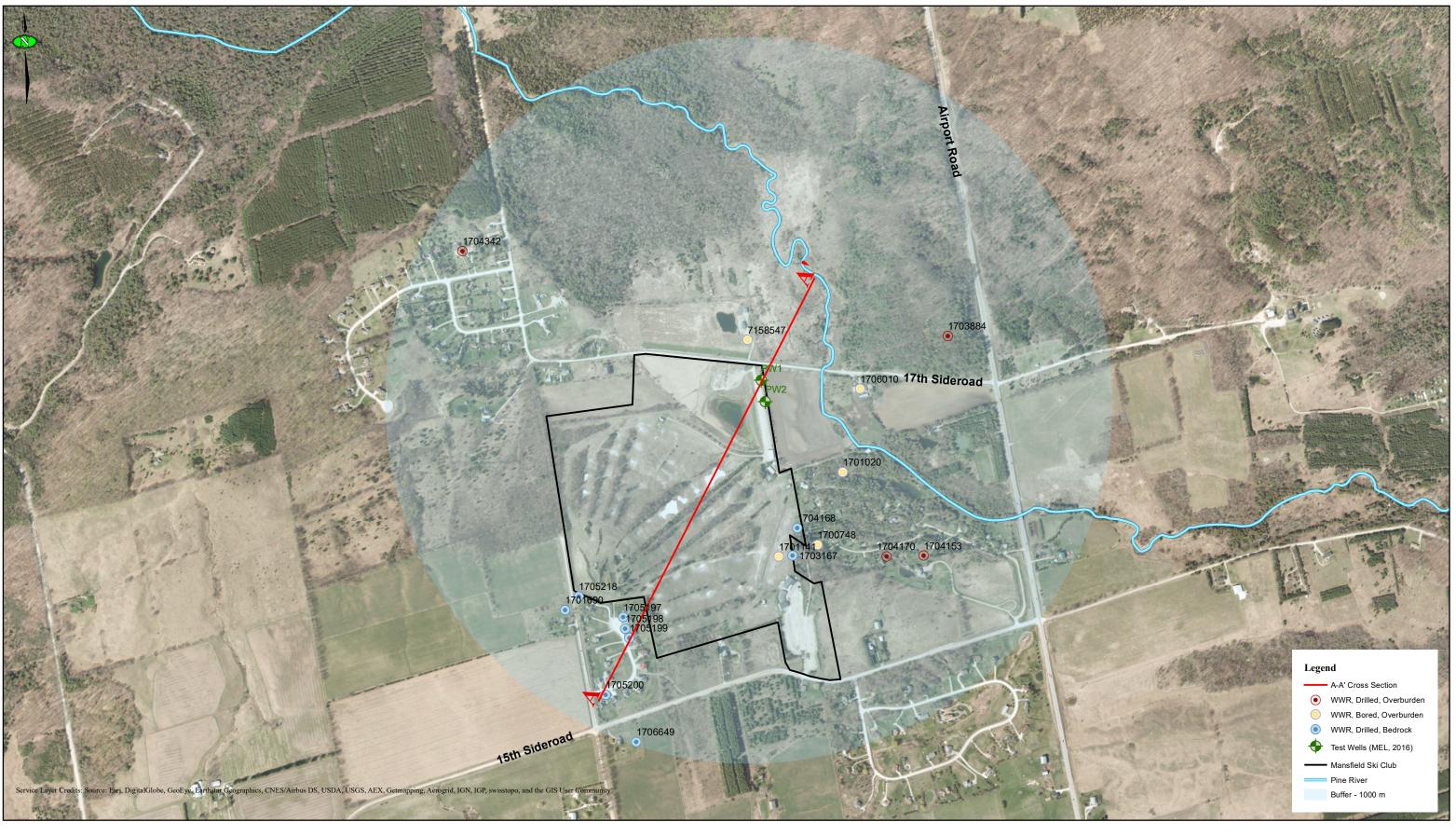
### **Table of Water Well Records**



MOECC WATER WELL RECORD MAP	SC	ALE:						PROJECT: 510-161	
Groundwater Exploration Program	0	100	200	400	600	800	1,000		
Mansfield Ski Club							Meters	DATE: June 2, 2016	
Mansfield, Ontario									

Morrison Environmental Limited

Groundwater Consultants



MOECC	SEL	EC	ΓE	DV	<b>VE</b>	[L]	RECORD	MAP
0		•	Т	•			р	

Groundwater Exploration Program Mansfield Ski Club Mansfield, Ontario

SCA	LE:						PROJECT: 510-161	
0	100	200	400	600	800	1,000 Meters	DATE: June 2, 2016	

#### FIGURE A-2



Morrison Environmental Limited

Groundwater Consultants

			Depth to	Static
	Date Completed	Depth	Bedrock	Water
Well ID	Completed	(m)	(m)	Level (m)
1705198	9/10/1998	19.80	4.90	12.20
1704775	9/19/1994	30.50	24.40	11.60
7170305	7/4/4000	18.30	0.00	8.20
1700879	7/4/1968	4.60	0.00	2.40
1705199	9/10/1998	16.80	5.20	9.10
1701202	5/14/1971	3.70	0.00	1.20
1704720	11/10/1993	18.30	0.00	9.10
1700749	6/20/1966	9.40	0.00	3.70
1705219	10/18/1998	21.30	4.30	13.70
1706649	4/29/2006	84.00	24.10	41.00
1701142	9/30/1970	9.10	0.00	6.10
1704425	8/20/1991	17.40	0.00	6.10
1701261	10/30/1971	8.50	0.00	5.50
1700751	9/2/1967	12.50	0.00	0.60
1704264	12/12/1990	16.80	0.00	9.10
1705767	12/17/2001	67.10	13.40	16.80
1701341	6/27/1972	8.50	0.00	6.10
1701040	12/12/1969	6.70	0.00	3.70
1701041	12/10/1969	7.60	0.00	5.50
1703518	9/14/1987	15.80	0.00	6.10
1706283	9/15/2004	45.70	93.00	0.00
1700752	9/14/1967	4.60	0.00	2.40
1701020	9/8/1969	7.90	0.00	3.70
1703554	11/30/1987	19.20	0.00	9.10
1703616	6/6/1988	6.10	3.70	2.70
1705695	7/26/2001	33.50	3.40	12.20
1706323	1/25/2005	18.30	0.00	16.80
1704498	2/10/1992	15.50	0.00	6.10
1700755	11/8/1967	7.60	0.00	7.30
1704262	, -,	33.20	21.30	9.40
1705200	9/10/1998	29.00	3.00	15.20
1705220	10/15/1998	26.50	5.20	11.60
1704820	10/20/1994	11.00	0.00	3.00
7156446	11/8/2010	9.90	0.00	2.60
1705692	6/21/2001	8.50	4.60	0.90
7152603	0, 21, 2001	41.80	0.00	11.60
1703894	5/4/1989	24.70	17.70	9.10
7048525	7/13/2007	11.00	0.00	4.30
1701141	9/28/1970	6.40	0.00	2.70
1701141	11/24/1985	18.30	0.00	12.80
1705951	1/9/2003	46.90	0.00	0.00
1706009	1/20/2003	10.10	0.00	4.60

			Depth to	Static
	Date	Depth	Bedrock	Water
Well ID	Completed	(m)	(m)	Level (m)
1701093	5/29/1970	5.50	0.00	2.10
1700876	9/25/1968	4.00	2.40	1.80
1700984	5/21/1969	6.70	0.00	3.40
1703159	8/8/1985	13.10	0.00	4.60
1701724	8/9/1974	26.20	0.00	11.60
1701094	5/23/1970	7.60	0.00	4.60
1705218	10/20/1998	27.40	4.90	12.20
1705693	6/27/2001	6.70	4.00	0.90
1705694	7/6/2001	30.50	4.60	0.00
1701690	6/3/1974	35.70	0.30	8.50
7158547	12/10/2010	10.40	0.00	0.00
1701092	6/3/1970	12.80	0.00	9.10
1700878	7/3/1968	7.90	0.00	3.70
1704342	4/30/1991	29.60	0.00	12.20
1701006	9/4/1969	11.60	11.00	8.50
1703763	2/17/1989	13.40	0.00	4.60
1705691	6/25/2001	11.00	10.40	0.90
1706010	1/19/2003	7.60	0.00	3.00
7158543	12/17/2010	15.20	0.00	0.00
1700747	12/15/1964	9.10	8.20	4.60
1700748	6/18/1966	7.90	0.00	3.00
1706005	12/16/2002	53.60	33.20	32.60
1705202	9/10/1998	23.20	3.40	14.60
7128852	11/1/2007	17.10	0.00	5.20
1701022	9/12/1969	6.10	0.00	2.40
1705899	8/8/2002	18.90	18.30	6.10
1703167	10/15/1985	19.80	12.20	4.60
1701332	6/12/1972	5.50	0.00	3.00
1700754	9/25/1967	8.50	0.00	0.00
1702961	6/10/1983	11.90	0.00	4.60
1700881	6/29/1968	8.20	0.00	3.70
1700884	4/19/1969	6.10	0.00	1.20
1705267	10/15/1998	9.10	0.00	1.80
1704170	4/4/1990	25.60	4.60	0.00
1701262	11/1/1971	6.70	0.00	4.30
1701021	9/9/1969	5.50	0.00	2.40
1701691	5/16/1974	42.70	0.00	9.10
1701886	4/22/1975	78.60	60.00	48.80
1704570	2/1/1992	18.30	0.00	0.00
1703884	2/28/1989	21.00	0.00	6.10
1701005	9/6/1969	6.10	0.00	4.00
1703307	1/13/1987	42.70	1.80	9.80

			Depth to	Static
	Date	Depth	Bedrock	Water
Well ID	Completed	(m)	(m)	Level (m)
1702492	9/12/1978	7.00	0.00	0.00
1704489	7/10/1992	15.50	0.00	9.80
1705201	9/10/1998	27.40	3.40	15.20
1705696	7/26/2001	36.00	3.00	15.20
1705697	7/26/2001	30.50	3.40	12.20
1700886	6/1/1968	19.80	6.10	0.00
1704056	2/13/1990	33.50	0.00	10.70
1701004	9/5/1969	5.50	0.00	2.10
1704722	9/20/1993	9.10	6.10	3.00
1704153	3/2/1990	24.40	0.00	9.10
7167280	8/12/2011	15.50	0.00	0.00
1700753	9/21/1967	4.60	2.70	2.10
1701368	10/21/1972	3.70	0.00	1.50
1704168	4/6/1990	12.20	6.70	4.60
1703151	7/15/1985	42.70	19.80	0.00
1705197	9/10/1998	22.60	4.60	10.70
1701124	7/9/1970	4.60	0.00	2.10
1700887	5/27/1968	18.30	6.10	0.00
1701250	11/16/1971	10.70	0.00	5.50
1700746	12/10/1964	14.00	0.00	6.10
1704850	5/20/1993	25.90	0.00	11.00
1704055	2/7/1990	29.90	25.90	10.70
1701126	8/14/1970	6.10	0.00	1.80
1704582	9/10/1992	16.20	0.00	9.10
1704263	10/24/1990	9.40	0.00	3.00
1705217	10/13/1998	21.00	3.70	12.20
1702590	9/8/1979	13.10	0.00	10.10
1702590	9/8/1979	13.10	0.00	10.10
1702590	9/8/1979	13.10	0.00	10.10
1702590	9/8/1979	13.10	0.00	10.10
1702590	9/8/1979	13.10	0.00	10.10
1702590	9/8/1979	13.10	0.00	10.10

Well ID	Completion	Depth (m)	Top of Screen/Open Hole (m)	Static Water Level (m)
PW1	Overburden, Drilled	13.1	7.9	2.18
PW2	Overburden, Drilled	13.1	7.9	1.55
1703884	Overburden, Drilled	21.03	18.9	6.09
1704342	Overburden, Drilled	29.57	27.43	12.19
1704170	Unfinished, Drilled	25.61		
1704153	Overburden, Drilled	24.4	22.56	9.15
7158547	Overburden, Bored	10.36	N/A	4.57
1706010	Overburden, Bored	7.62	N/A	3.05
1701020	Overburden, Bored	7.92	N/A	3.66
1700748	Overburden, Bored	7.92	N/A	3.05
1701141	Overburden, Bored	6.4	N/A	2.95
1704168	Bedrock, Drilled	12.19	8.53	4.57
1703167	Bedrock, Drilled	19.81	12.19	4.57
1705218	Bedrock, Drilled	27.44	6.09	12.19
1701690	Bedrock, Drilled	35.67	5.18	8.54
1705197	Bedrock, Drilled	22.56	6.1	10.67
1705198	Bedrock, Drilled	19.81	6.1	12.19
1705199	Bedrock, Drilled	16.77	6.1	9.15
1705200	Bedrock, Drilled	28.96	6.1	15.24
1706649	Bedrock, Drilled	25.61	7.93	12.5

## **APPENDIX A-1**

## Selected Water Well Records

	ents recorded in:	letric 🕅	mperial	T	ag#: A1852	77	Regulation	1903 01	ntario Wat Page	er Res	of
	ner's Information						]		rage_		
st Name	L	ast Name C	Organization	: Chuk	5	E-mail Address					Constructed ell Owner
ailing Add	dress (Street Number/Nam	ne) SR	The Up	M	lunicipality	Province	Postal Code	Т	elephone N	lo. (inc.	area code)
ell Loca	ation										
dress of	Well Location (Street Nur 48200		2	T	ownship Malmer	r	Lot 16	(	Concession	E	HS
- T	trict/Municipality			C	ity/Town/Village		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Provinc			I Code
/ Coordi	) & Frain inates Zone Easting		rthing		Iunicipal Plan and Subl	ot Number		Other	A	4.1	
	8 3 1 7 5 7 5 2 en and Bedrock Materia	als/Abando	894 nment Sea	300 aling Reco	rd (see instructions on the	e back of this form)			<u> </u>		
neral Co	olour Most Comm	non Material		Oth	er Materials	Gene	eral Description	1		From	pth ( <i>m/ft</i> ) To
win	Jopsvil									0	3
- UNI	9-11			conel	Stones					3	9
in	nod fine	Sand	1 9	<i>w</i> .,	0///~					9	37
ny	Clay									37	43
/											
											-
					×						
enth S	et at (m/ft)	Annular Type of Sea			Volume Placed	After test of well yield,	Results of We		d Testing aw Down	-	Recovery
From	То	(Material an			(m³/ft³)	Clear and sand					Water Level (m/ft)
0	20 Bent	mile	bout			If pumping discontinu	ed, give reason:	Static	7.15		
20	39 Natu	rdl Son	Huk					1	11.4	1	8.65
						Pump intake set at (		2	R.15	2	7.93
Meth	hod of Construction			Well Us	ie	Pumping rate (I/min /		3	12.4	3	7.67
Cable To		i Dui	blic	Comme	rcial 🗌 Not used				12 -		1-1-1
			mestic			Duration of pumping		4	12.5	4	1.56
Rotary (I	Conventional)  Jetting Reverse) Driving Diaging		estock	Municipa	al Dewatering	Duration of pumping	min	5	12.6	5	7.95
Rotary (I Boring Air percu	Reverse) Driving Digging ussion	Live	estock gation ustrial	Municipa	al Dewatering	Duration of pumping 1 hrs + 0 Final water level end 12.	min of pumping (m/R) 87	5	12.6	5	7,45
Rotary (I Boring Air percu Other, sy	Reverse) Driving Digging ussion pecify Construction R	Live	estock gation ustrial ner, specify _ sing	Municipa	al Dewatering le Monitoring & Air Conditioning Status of Well	Duration of pumping hrs + 0 Final water level end 12. If flowing give rate (b)	min of pumping (m/it) <b>87</b> (min / GPM)	5 10 15	12.6	5 10 15	7.45
Rotary (I Boring Air percu Other, sy Inside	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Livv Livv Livv Livv Irrig Oth ecord - Cas Wall Thickness	estock gation ustrial ner, specify _ sing	Municipa	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well	Duration of pumping 1 hrs + 0 Final water level end 12.	min of pumping (m/it) <b>87</b> (min / GPM)	5	12.6 12.75 12.81 12.84	5	7.95
Rotary (I Boring Air percu Other, sy Inside	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material	Livi Irrig Ind Ott ecord - Cas Wall Thickness (cm/in)	estock gation ustrial her, <i>specify</i> _ <b>sing</b> Depth From	Municipa Test Hol Cooling	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well X Test Hole Recharge Well	Duration of pumping hrs + 0 Final water level end 12. If flowing give rate (b)	min of pumping (m/ft) <b>%</b> //min / GPM) p depth (m/ft)	5 10 15 20	12.6	5 10 15 20	7. 45
Rotary (I Boring Air percu Other, sy nside ameter	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Livi Dirig Dirig Cott ecord - Cas Wall Thickness (cm/in)	estock gation ustrial her, <i>specify</i> _ <b>Sing</b> Deptt From -2	Municipa Test Hol Cooling	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Observation and/or	Duration of pumping hrs + Final water level end -  If flowing give rate (// Recommended pum (//min / GPM)	min of pumping (m/tt) <b>y 7</b> (min / GPM) up depth (m/tt) up rate	5 10 15 20 25	12.6 12.75 12.81 12.84	5 10 15 20 25	7.3
Rotary (I Boring Air percu Other, sy nside ameter	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Livi Irrig Ind Ott ecord - Cas Wall Thickness (cm/in)	estock gation ustrial her, <i>specify</i> _ <b>sing</b> Depth From	Municipa Test Hol Cooling	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Mell Alteration	Duration of pumping / hrs + // Final water level end /2. If flowing give rate ( <i>b</i> / Recommended pum ( <i>l/min / GPM</i> ) Well production ( <i>l/mi</i> )	min of pumping (m/tt) <b>y 7</b> (min / GPM) up depth (m/tt) up rate	5 10 15 20 25 30	12.6 12.75 12.81 12.84	5 10 15 20 25 30	7.3
Rotary (I Boring Air percu Other, sy nside	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreqlas, Concrete, Plastic, Steel) Sfrc/ Sfcc/	United States St	estock gation ustrial ner, <i>specify</i> _ sing Depth From -2 34	Municipa Test Hol Cooling	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Water Supply Recharge Well Dewatering Well Dewatering Well Construction and/or Monitoring Hole Alteration (Construction) Abandoned,	Duration of pumping hrs + Final water level end -  If flowing give rate (// Recommended pum (//min / GPM)	min of pumping (m/lt) y 7 (min / GPM) p depth (m/lt) p rate in / GPM)	5 10 15 20 25 30 40 50 60	2.6  2.75  2.81  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40	7.3
Rotary (f Boring Air percu Dther, <i>sp</i> nside ameter <i>cm/in</i> )	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreqlas, Concrete, Plastic, Steel) Sfrc/ Sfcc/	Livu Cord - Cas Wall Thickness (m/in) , / 28 , / 28 ecord - Scre	estock gation ustrial erer, specify Depth From -2 34	<ul> <li>Municipi</li> <li>Municipi</li> <li>Test Hol</li> <li>Cooling</li> <li>(m/ī)</li> <li>To</li> <li>26</li> <li>39</li> <li>.</li> </ul>	al Dewatering le Dewatering & Air Conditioning Status of Well Water Supply Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	Duration of pumping hrs +	min of pumping (m/lt) y 7 min / GPM) p depth (m/lt) p rate n / GPM) Map of W	5 10 15 20 25 30 40 50 60	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40 50 60	7.36
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utside	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreqlass, Concrete, Plastic, Steel) Sfref Sfref Sfref Sfref	Livu Cord - Cas Wall Thickness (m/in) , / 28 , / 28 ecord - Scre	estock gation ustrial erer, specify From -2 34 een Deptt	Municipi     Tost Hol     Cooling     (m/ft)     To     26     39     .	al Dewatering le Dewatering & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify	Duration of pumping	min of pumping (m/lt) y 7 (min / GPM) p depth (m/lt) p rate in / GPM) Map of W o below following	5 10 15 20 25 30 40 50 60 'ell Loc instruction	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40 50 60	7.3
utside	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreqias, Concrete, Plastic, Steel) Sfrc1 Construction R Material (Plastic, Galvanized, Steel) SSfvc1	Livi I did ott ecord - Cas Wall Thickness (cm/in) , 128 , 128 ecord - Scre Stot No.	estock galion ustrial err, specify_ From -2 34 en Depth From	Municipal     Tost Hoi     Cooling     Tost Hoi     Cooling     Tost Hoi     To     To     26     39     To     (m/ft)     To     36	al Dewatering be Dewatering be Alr Conditioning Status of Well Water Supply Recharge Well Dewatering Well Deservation and/or Monitoring Hole Abandoned, Insufficient Supply Abandoned, Oror Water Cuality Abandoned, other, specify	Duration of pumping	min of pumping (m/lt) y 7 min / GPM) p depth (m/lt) p rate n / GPM) Map of W	5 10 15 20 25 30 40 50 60 'ell Loc instruction	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40 50 60	7.3
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Rotary (f Joring) irr percu tither, sy ameter sawin) utside ameter sawin)	Reverse)     □ Driving       □ Digging       ussion       pecify         Construction R       Open Hole OR Material       (Galvanized, Fibreglass, Concrete, Plastic, Steel)       SArce/       SArce/       Construction R       Material       (Plastic, Galvanized, Steel)       SSArce/       Waterial       (Plastic, Galvanized, Steel)       SSArce/       Water De       nd at Depth       Kind of Wate       Other, spe	Live Live Irre	estock gation ustrial ner, specify From -2 34 en Depti From Cepti From 26	Municipal     Municipal     Tost Hol     Cooling     Tost Hol     Cooling     To	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Hole Abandoned, Poor Water Quality Abandoned, other, specify Dother, specify Diameter th (m/t) Diameter To Diameter	Duration of pumping	min of pumping (m/lt) y 7 (min / GPM) p depth (m/lt) p rate in / GPM) Map of W o below following	5 10 15 20 25 30 40 50 60 'ell Loc instruction	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40 50 60	+ 1
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totary (f oring ir percu- ther, sy ir percu- ther, sy ir percu- ir	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Naterial (Galvanized, Fibreqlass, Concrete, Plastic, Steel) Sfref	Live Live Live Live Live Live Live Live	estock gation ustrial ner, specify From -2 34 en Deptt From 26	Municipal Municipal Tost Hol Cooling To 2.6 3.9 To 2.6 3.9 To 3.6 H Depi From CO	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Hole Abandoned, Poor Water Quality Abandoned, other, specify Dother, specify Diameter th (m/t) Diameter To Diameter	Duration of pumping	min of pumping (m/lt) y 7 (min / GPM) p depth (m/lt) p rate in / GPM) Map of W o below following	5 10 15 20 25 30 40 50 60 'ell Loc instruction	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40 50 60	+ 1
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Groundwater Consultants

Morrison Environmental Limited

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1			26	30 31		
	· · · · · · · · · · · · · · · · · · ·	G OF OVERBURDEN AND BEDRO		S ISEE INSTRUCTION	4	DEPTH - FEET
NERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS			/	FROM TO
				o ser	Course	11 15
			- Brov	Clay	a Cora	15 25
			RICO	Clay	Sand.	25 78
			- proc		*	18. 84
		· · · · · · · · · · · · · · · · · · ·	+ <u> </u>	hale.	Blue	84
				i a ·	12	
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					<b>x</b>	
			<u> </u>	<u>,</u>	r	
31 44						
2				SIZE-SI OF OPE	NING 31-33 D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
_,	ATER RECORD	51 CASING & OPEN HOLE	DEPTH - FLET			INCHES
WATER FOUND AT - FEET 10-13	KIND OF WATER		ROM TO 13-16	MATERIAL AND	TYPE	OF SCREEN
2	□ SALTY 4 □ MINERALS 6 □ GAS	2 GALVANIZED 3 CONCRETE	0 18.	61 P	LUGGING & SI	EALING RECORD
2	4 [] MINERALS SALTY 6 [] GAS	0 4 □ OPEN HOLE 5 □ PLASTIC 17-18 1 □ STEEL	20-23	DEPTHYSET AT	FEET MATERIAL	AND TYPE (CEMENT GROUT
	SALTY 6 GAS	2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC		10-13	14-17	
	FRESH 3 SULPHUR 29 4 MINERALS SALTY 6 GAS	24-25 26 1	27-30	18-21	22-25	
	FRESH 3 SULPHUR 34 4 MINERALS 5 SALTY 6 GAS	0 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC		26-29	30-33 80	
PUMPING TEST	METHOD 10 PUMPING RA	TE 11-14 DURATION OF PUMPING 15-16 17-18	]	LOCA	TION OF W	ELL
71 PUM	P 2 BAILER WATER LEVE'. 25	GPMHOURSMINS	IN DI		W DISTANCES OF W NORTH BY ARROW	ELL FROM ROAD AND
LEVEL	PUMPING -21 22-24 15 MINUTE		-	In the C	ite Rd	
a TEST	FEET FEET	FEET FEET FEET FEET	r		<u>vc / vc</u> ,	
SI IF FLOWING. GIVE RATE	38-41 PUMP THE	E SET AT WATER AT END OF TEST 42		an francisco de la composición de la co	· ····································	5
RECOMMENDER	PUMP					h
0-53	LOW DEEP SETTING	FEET KNIE ON			$\mathbf{i}$	04
FINAL	54 I . WATER SUPPLY	S ABANDONED, INSUFFICIENT SUPPLY	11/		×	
STATU: OF WEL	S 3 TEST HOLE	7 DENEINISHED				
	55-56 1 DOMESTIC	S COMMERCIAL	11 >			6
WATE	2 STOCK 3 IRRIGATION 4 INDUSTRIAL	PUBLIC SUPPLY     COOLING OR AIR CONDITIONING		~ c . /	RI	
052		• DKATOT USED	<u>   - ()</u>	5 sid	e /\0.	
METHO	57 1 CABLE TOOL 2 CABLE TOOL	6 D BORING ENTIONAL) 7 DIAMOND				
OF CONSTRUC		RSE) B _ JETTING 9 _ DRIVING		ADKC:		615B
	S AIR PERCUSSIO	WELL CONTRACTOR	DRILLERS REM	SE CONTRAC		
	VELL CONTRACTOR	LICENCE NUMBER	D DATE OF INS	35	NSPECTOR	<b>1AY 1 6 1990</b>
ADDRESS	J. G		SE SE			
NAME OF SIGNATUR	WELL TECHNICIAN	WELL TECHNICIAN LICENCE NUMBER	S D REMARKS			
SIGNATUR	E OF TECHNICIAN/CONTRACTO	DR SUBMISSION DATE	OFFICE			CSS.ES
		1				

Ministry of the		The Ontario Wo	iter Resources Act	CO	RD
Ontario Environment	<b>- - -</b>	1 <b>70415</b> 3			
COUNTY OR DISTRICT	SPACES PROVIDED RECT BOX WHERE APPLICABLE 11 TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE		IO IA IS		0T 25-27
$\square \cap PC$	ha pmur	P	an 86 DATE COM	PLETED	34
	Mancfei'	ECEVATION RC BA	DAY	но	YR
	OG OF OVERBURDEN AND BEDRO				
GENERAL COLOUR COMMON NATERIAL	OTHER MATERIALS		DESCRIPTION	DEPTH	· FEET
		Sandy Tox	soil	0	1
		From Glay	sond.	1	15
		Brownelay	Sund Store	5/5	40
		Blue Ch.	. Sand	42	41
		Plue	Tay	46.	63
		Blue Cla	y 'Sand.	63	66
		BIDECT	ey /	17	80
		10.4			
<b>31</b>   , , ,     ,   ,   ,   ,   , ,	<u> </u> .   <del> </del> .   .   .   .   .   .   .   .   .	 			1,1 1
41 WATER RECORD		RECORD		. INCHES	ENGTH 39-40
AT - FEET 10-13 1 CFESH 3 SULPHUR 2 CF SAITY 4 MINERALS	DIAM MATERIAL THICKNESS FRI INCHES INCHES FRI	13-16 BY MATERIAL	inless steel	DEPTH TO TOP OF SCREEN	41-44 30 FEET
15-18 1 G GAS	A DOPEN HOLE 5 DPLASTIC	7. 61	PLUGGING & SEA		
20-23 1 FRESH 3 SULPHUR 24 2 SALTY 6 GAS	17-18 19 8 • 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE	20-23 DEPTH SET FROM 10-13	AT - FEET MATER <u>1</u> AL AN TO 14-17	ND TYPE LEAD PA	NT GROUT
25-28 1   FRESH 3   SULPHUR 29 4   MINERALS 2   SALTY 6   GAS	5 DPLASTIC 24-25 26 1 DSTEEL	27-30 18-21	22-25		
30-33 1 _ FRESH 3 _ SULPHUR 34 4 _ MINERALS 2 _ SALTY 6 _ GAS	0 2 0 GALVANIZED 3 0 CONCRETE 4 0 OPEN HOLE 5 0 Plastic	26-29	30-33 00		
71 PUMPING TEST METHOD 10 PUMPING RA	TE 11-14 DURATION OF PUMPING	LO	CATION OF WE	LL	
LEVEL PUMPING	LEVELS DURING 2 DECOVERY	IN DIAGRAM BELOW LOT LINE INDICA	SHOW DISTANCES OF WELL ATE NORTH BY ARROW.	L FROM ROAD A	ND
19-21 22-24 15 MINUTE 30 FEET 70 FEET 30 F				A	A
U FEET FLOWING. 38-41 POMP INTAKI GIVE RATE GPM RECOMMENDED PUMP TYPE RECOMMENDED PUMP TYPE PUMP				\$	[V
RECOMMENDED PUMP TYPE RECOMMEND			River		
\$4			Pine River	<u>c.</u>	
FINAL STATUS J UWATER SUPPLY 2 OBSERVATION WI 3 TEST HOLE	7 UNFINISHED			K	
OF WELL 4  RECHARGE WELL	S COMMERCIAL				
WATER 3 I IRRIGATION USE 4 INDUSTRIAL	<ul> <li>MUNICIPAL</li> <li>PUBLIC SUPPLY</li> <li>COOLING OR AIR CONDITIONING</li> </ul>				
57   Carbon Ble Tool			4		
METHOD 2 ROTARY (CONVE OF 3 ORTARY (REVERS CONSTRUCTION 4 ROTARY (AIR)	NTIONAL) 7 DIAMOND		74	61	522
S AIR PERCUSSION		DRILLERS REMARKS	84CTO8 58.63 have szce		63.68 80
ADDRESS State	LICENCE NUMBER		AACTOR 53-62 DATE RECEIV 561 API	<u> </u>	0
ADDRESS AME ADDRESS AME NAME OF WELL FERSING IAK	WELL TECHNICIAN'S				
SIGRATURE OF TECHNICIAN/CONTRACTOR	LICENCE NUMBER	OFFICE		<b>~</b>	C DO
12 may	DAY MO YR	ö		CS FORM NO. 0506 (	S.ES
MINISTRY OF THE ENVIRON	IMENT COPY			2. 2000 (	

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\$	>
Q.	Ontario

Measurements recorded in:

Well Tag No. (Place Sticker and/or Print Below)

A106258

of

Regulation 903 Ontario Water Resources Act

Page

Address of Well Location (Street Number/Name) 648/99 Mulr					Ind	ier Lot 17 Concession						
County/District/M	unicipality		(	City/Town/Village	e	Province Postal Code Ontario 20 M/MO						
UTM Coordinates	Zone Easting	Northin		Aunicipal Plan a		nt Number		Other				
NAD   8   3 Overburden and			9 4 9 0 6 ent Sealing Reco	rd (see instructio	ns on the	the back of this form)						
General Colour		non Material	Otł	er Materials		Genera	al Description			Depth (m/ft) From To		
Brown Top Soil Brown Sand Grey Sand					1				0			
Brown	Sand	,	Gr	avel		L <i>o</i> o				1	10	
Grey	Silt			· · · · · · · · · · · · · · · · · · ·		L00.	SE			<u>10</u> 32	34	
<u> </u>						· ···· ··· · · · · · · · · · · · · · ·						
		*****				•.						
					un anteriore de la companya de la co				s Same Adaptivity and a sectored	lindabasi to nos		
Depth Set at (m		Annular Spa Type of Sealant	Used	Volume Pla	aced	After test of well yield, w		Dra	w Down	R	ecovery	
O 8		(Material and Ty		(m³/ft³)		Clear and sand fre	e	Time (min)	Water Leve (m/ft)	el Time ( <i>min</i> )	Water Level (m/it)	
8% 3	1 -11	<i>с</i>	chips			If pumping discontinued	l, give reason:	Static Level			10:9"	
OR S	4 Filter	Sono						1		1	•	
						Pump intake set at <i>(m</i>	/ft)	2	~~~~~	2		
Method o	f Construction		Well Us			Pumping rate (I/min / G	SPM)	3		3		
Cable Tool	Diamond		Comme	rcial 🗌 Not		Duration of pumping		4		4		
Rotary (Conven	e) Driving	Domest	k 🗌 Test Ho	le 🗌 Mo	watering nitoring	hrs +m		5		5		
Boring	🗌 Digging	🗌 Irrigatio		& Air Conditioning	g	Final water level end of	pumping (m/ft)	10		10		
Other, specify		_ Dther, s				If flowing give rate (I/mi	in / GPM)	15		15	12'4"	
Inside Ope	Construction Ro	ecord - Casing Wall	Depth ( <i>m/ft</i> )	Status of Vater Supp		Recommended pump	depth (m/ft)	20		20		
	vanized, Fibreglass, crete, Plastic, Steel)	Thickness (cm/in) F	rom To	Replaceme	· ·	25		25		25	· · · · · · · · · · · · · · · · · · ·	
36 Co.	ncrete	3 +1	L JQX	🗌 Recharge V		Recommended pump (I/min / GPM)		30		30	13'10"	
	alvanized	1499 1	0 34	Dewatering	and/or	Well production (//min /	/ GPM)	40		40		
				Monitoring H		Z.Z. S. Spr Disinfected?	n	50		50		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Constructio	,	Yes No		60		60	15'3'	
Outside	Construction R	ecord - Screen	Depth ( <i>m/ft</i> )	Abandoned Water Qual	, Poor	Please provide a map b				back.		
Diameter (cm/in) (Plasti	Material îc, Galvanized, Steel)	Slot No.	From To	Abandoned	· 1		House	$\boldsymbol{\Lambda}$			1	
				· · ·		(Bd)	$\Box$				Airport	
		s.		Other, spec	://y		-	M			Rd	
Weter fame d at D	Water Def			lole Diameter	iamatar.	well-	m)				R	
	epth Kind of Water Gas Other, spe		From	To (	iameter (cm/in)	E EAL S						
	epth Kind of Wate		<b>j</b>		48	17 con	APOSX	400'				
	Gas Other, spe epth Kind of Water		ntested 221/2	34 :	32							
(m/ft) Gas Other, specify							< 1/2	mile			~	
Business Name of		or and Well Tec	hnician Informa	ell Contractor's Lice	ence No.				从	10 MQ9		
Johnson	Street Number/Na			503	0	Comments;				101		
	Guimess	me)	2	Sran Horo	1	Comments.						
Province	Postal Code MST6R	Business E-n				Well owner's Date Pa	ckage Delivere	a l	Alini	stry Us		
Bus.Telephone No.	(inc. area code) Na	me of Well Tech		First Name)		information package	-	112	Audit No			
80046	5 4 4 1 8 2 cence No. Signature	of Technician		te Submitted			ork Completed			449.05	302	
298	0				1/10		1012	60	RAN 2	282	.011	
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Print only in space Mark correct box	ces provided. k with a checkmark, where applic		1706	010	Municipality 10 10	Con. HIS. E.	22 23 24
County or District	FERIN	Township/Borough/Cit	ty/Town/Village リレレmをI	К.	Con block tract su	ırvey, etc. L	ot 7 <sup>25-27</sup>
		Address	1 # 2 1	ISLE	Date comple	ted /9	month year
21		Northing		levation RC	Basin Code ii		
General colour	LOG ( Most common material	OF OVERBURDEN AND BED Other materials				Dep	at the set
	N SAND				lescription	From	To
Brun	N SAND	e GAAJE "	-			9	11
Brow	N SAND					11	22
GREY	SAND					22	25
					. <u> </u>		
31	<u> </u>			1 1 1			
				┶┶┶┙╘┶╺╌┶			
	R RECORD 51		A3 RECORD Depth - feet	Sizes of op (Slot No.)	ening 31-33 Diame		75 80 gth 39-40
	Kind of water diam Fresh 3 Sulphur 14 10-11 10-11		From To 13-16	HU HU HATERIAL AND HATERIAL AND	d type	inches Depth at top	feet of screen 30 41-44
16 19	$\begin{array}{c c} \text{Sarty} & 6 & \square & \text{Gas} \\ \hline & & & & \\ \hline \\ \hline$	2 Galvanized	0 25	• 5 K	אאח		feet
20.22	1 Tresh         4         Minerals           Salty         6         Gas           1 Fresh         3         Sulphur         24		20-23		LUGGING & SEALI	NG RECORD	
2	Salty 4 Minerals 6 Gas	3 □ Concrete 4 □ Open hole 5 □ Plastic		Depth set at - From	To Material and type		entonite, etc.)
2	4 Minerals Salty 6 Gas	5 1 🗋 Steel 26 2 🗌 Galvanized	27-30	<b>0</b> <sup>13</sup> 18-21	14-17 HOLE	nv6	
<u>ו</u> ין	Fresh <sup>4</sup> □ Minerals   Salty <sup>6</sup> □ Gas	3  Concrete 4  Open hole 5  Plastic		26-29	30-33 80	<u></u>	
71 Pumping test me		-14 Duration of pumping 15-16 17-18 M Hours Mins		LOCA	TION OF WELL		
Static level W	ater level 25 Water levels during	1 Pumping 2 Recovery	n diagrai Indicate r	m below show c north by arrow.	TION OF WELL distances of well from	n road and lo	t line.
	22-24 15 minutes 26-28 30 minutes 29	45 minutes 32-34 60 minutes 35-37		All	POFT	<u>LO</u>	
SN 10 feet	te <sup>38-41</sup> Pump intake set at	feet         feet         feet           Water at end of test         42		1		MANS	FIELD
Hecommended pu		Clear         Cloudy           H45         Recommended         46-49           pump rate         46-49	AP	Roy			
50-53		GPM	60	10'	OUSE	T	H.
FINAL STATUS	bly <sup>5</sup> 🗆 Abandoned, insufficient			H H	0070		
<sup>3</sup> <sup>3</sup> <sup>3</sup> <sup>3</sup> <sup>3</sup> <sup>3</sup> <sup>3</sup> <sup>3</sup>	7 🗌 Abandoned (Other)	ty 10 C Replacement well		• <u> </u>		GAMAG	6E
WATEB-USE	55-56 5 🖸 Commercial	9 🗋 Not use	K	Do w	ell IT	SHEN	
2 🗌 Stock 3 🗌 Irrigation 4 🗌 Industrial	6 Diffunctional 7 Public supply 8 Cooling & air conditioni	10 🗌 Other		20			
		יי <b>ט</b>	, r≠	Г	BAR	N	
<ol> <li>Cable tool</li> <li>Rotary (cont</li> </ol>	<sup>5</sup> Air percussion Ventional) <sup>6</sup>	<ul> <li><sup>9</sup> Driving</li> <li><sup>10</sup> Digging</li> </ul>	17 SIDE ROAD				
<ul> <li><sup>3</sup> □ Rotary (reve</li> <li><sup>4</sup> □ Rotary (air)</li> </ul>		11 🗋 Other	KOA A			2492	284
Name of Well Contrac	ctor	Well Contractor's Licence No.	Data source	58 Contractor	59-62 Date re		63-68 80
Address )	ON & BAETT	2 3030	O Date of inspection		30 MA	<u>R 0 6 2(</u>	003
OKAn Name of Well Technic		Well Technician's Licence No.	Remarks				
D L/N Signature of Technig	DATET 2	T-333 Submission date				CSS.	.ES3
LAK	rand	day mo yr	ž			0506 (07/00)	) Front Form 9

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Vater management in	Dontario 1. PRINT ONLY IN SP 2. CHECK X CORREC	ACES PROVIDED T BOX WHERE APPLICABLE	11	17010		10	14 15	SE	
DUNTY OR DISTRICT	- p. Al	TOWNSHIP, BOROUGH, CI	-	3	2	BLOCK, TRACT, S	URVEY, ETC.	<i>E</i> .	LOT 25-
DUFFL		MULM C/O	PINE RI	VER Ch	ALET	6 /	DATE C		1070 109-53
		<b>R</b> . 1	, MANS	C. ELEVATION	, <u>on</u> rc.	J. BASIN CODE		<u>В мо Šа</u> Ш	EPT.YR.
		29	43 <b>aq</b>	4, 9865	₹ <u>√</u> <u>\</u> <u>S</u>	212			
	LO	G OF OVERBURDE	N AND BEDF	ROCK MATERI	ALS (SEE II	NSTRUCTIONS)			
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MA	ATERIALS		GENERA	L DESCRIPTION		DEP FROM	TH - FEET
BROWN	TOP Solt	SANDI		NE	NSE	-		o'	2
BROWN	TOP SOIL MED. SAND	1		PA	NSE	0		2'	8'
GREN	SANDY	CLAY			ISE	-		8'	26
	/								
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	$260207 \qquad \qquad$			<sub>∼</sub> 」└┴┸╁┉┶┵┵╴ ╽╽╷╷╷╽╎╷					
7 10		51 CASING &				4 ) OF OPENING	65 31-33 DI	SIAMETER 34-3	75
	EK KELUKU /			E DECADA		NON			
NATER FOUND		INSIDE	WALL	DEPTH - FEET	U (SLOT				
AT - FEET	KIND OF WATER	INSIDE DIAM. MATERIAL INCHES	WALL			NO.) RIAL AND TYPE		INCH DEPTH TO TO OF SCREEN	0P 41-4
	KIND OF WATER	INSIDE DTAM. MATERIAL INCHES 10-11 1 STEEL 2 GALVANIZED	WALL THICKNESS INCHES	DEPTH – FEET FROM TO		RIAL AND TYPE	2 8 6 6	DEPTH TO TO OF SCREEN	OP 41-4
AT - FEET 707 2,10-13 1 15-18 1 2 [ 2 ]	KIND OF WATER	INSIDE         MATERIAL           07AM.         Inches           10-11         STEEL           2         GALVANIZED           30         3 \$\$ concrete           4         OPEN HOLE	WALL THICKNESS INCHES	DEPTH – FEET FROM TO		LUGGINC		DEPTH TO TO OF SCREEN	рр 41-4 FEET RECOR (СЕМЕЛТ GROL
TT - FEET 707210-13 1 15-18 1 [ 20-23 1 [	KIND OF WATER FRESH 3 SULPHUR <sup>14</sup> SALTY 4 MINERAL FRESH 3 SULPHUR <sup>19</sup> SALTY 4 MINERAL FRESH 3 SULPHUR <sup>24</sup> SALTY 4 MINERAL	INSIDE         MATERIAL           07AM.         Inches           10-11         STEEL           2         GALVANIZED           30         3 \$\$ concrete           4         OPEN HOLE	WALL THICKNESS INCHES	DEPTH – FEET FROM TO		LUGGINC	G & SE	DEPTH TO TO OF SCREEN	RECOR
77 - FEET           70 / 210-13           15-18           1           20-23           1           20-23           2           25-28	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         Stech           4         OPEN HOLE           17-18         1           1         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           10         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         1           STEEL	THICKNESS INCHES 12 3'' 19 26	DEPTH – FEET FROM TO	A CALL (SLOT A MATER O S FROM 10-	TO         TO           13         14-17		DEPTH TO TO OF SCREEN	рр 41- FEET <b>RECOR</b> (СЕМЕЛТ GROI
77 - FEET       70 / 210-13       15-18       1       2       20-23       1       20-23       1       20-23       1       25-28       1       2       30-33       1	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       34	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           17-18         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           17-18         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         I           2         GALVANIZED           3         CONCRETE	12 19 26 26	DEPTH - FEET FROM TO 13-16	A CALL (SLOT A MATER O S FROM 10-	Type           LUGGINC           SET AT - FEET           TO           13           14-17           -21           22-25	MATERIAL	DEPTH TO TO OF SCREEN	рр 41- FEET <b>RECOR</b> (СЕМЕЛТ GROI
TT - FEET 240-13 1 15-18 1 2 20-23 1 2 25-28 1 2 30-33 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       34         FRESH       3       SULPHUR       34	INSIDE         MATERIAL           INCHES         MATERIAL           10CHES         2 GALVANIZED           30         3 SC CONCRETE           4 OPEN HOLE         2 GALVANIZED           17-18         1 STEEL           2 GALVANIZED         3 GONCRETE           4 OPEN HOLE         2 GALVANIZED           3 CONCRETE         4 OPEN HOLE           24-25         1 STEEL           2 GALVANIZED         3 CONCRETE           4 OPEN HOLE         3 CONCRETE           4 OPEN HOLE         3 CONCRETE	12 19 26 26 26 26 24 24 24 24 25 25 26 26 26 26 26 26 26 26 26 26	DEPTH - FEET FROM TO 13-16	G1 P DEPTH S FROM 10- 18- 26-	TO         TO           13         14-17           -21         22-25           29         30-33	MATERIAL A	AND TYPE	PP 41- FEET RECOR (CEMENT GROI
71 - FEET       72 - 10-13       15-18       15-18       1       20-23       1       25-28       1       30-33       1       2       2       2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       34         FRESH       3       SULPHUR       34	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         GALVANIZED           31         CONCRETE           4         OPEN HOLE           17-18         1           STEEL         2           GALVANIZED         3           CONCRETE         4           OPEN HOLE         2           GALVANIZED         3           CONCRETE         4           OPEN HOLE         3           CONCRETE         4           OPEN HOLE         3           CONCRETE         4           OPEN HOLE         11-14	THICKNESS INCHES 12 3 13 3 14 3 19 26 26 26 26 26 26 27 26 26 27 26 27 26 27 27 26 27 27 27 28 27 20 27 27 28 20 20 20 20 20 20 20 20 20 20 20 20 20	DEPTH         - FEET           FROM         TO           0         13-16           245         2           20-23         20-23           27-30         27-30	Contractions of the second sec	TO         TO           113         14-17           -21         22-25           29         30-33	BO	EALING AND TYPE LE	RECOR
Ti - FEET       210-13       15-18       1       20-23       1       25-28       1       25-28       1       20-33       1       20-33       1       20-33       1       20-33       1       20-31       20-32       1       20-33       1       20-33       1       20-33       1       20-33       1       20-33       1       20-33       1       20-33       1	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       34         FRESH       3       SULPHUR       34         SALTY       4       MINERAL       54         THOD       10       PUMPING RATE       24         WATER       125       25	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         32           30         32           31         CONCRETE           4         OPEN HOLE           17-18         1           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           1         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM.         OPEN	WALL THICKNESS           12           3'           3'           19           26           5           15-16           POURS           17-11           MING	DEPTH         - FEET           FROM         TO           0         13-16           246         2022           20-23         20-23           27-30         27-30           8	Contraction (SLOT) Contraction (SLOT) Contra	TO         TO           13         14-17           -21         22-25           29         30-33	BO	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TT - FEET 240-13 1 15-18 1 2 20-23 1 2 25-28 1 2 2 30-33 1 2 2 2 1 PUMPING TEST ME PUMP STATIC LEVEL 19-2 10-1 1	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       34         FRESH       3       SULPHUR       34         SALTY       4       MINERAL       21         THOD       10       PUMPING RATE       2000         WATER LEVEL       25       WATEF         PUMPING       25       WATEF	INSIDE         MATERIAL           INCHES         MATERIAL           INCHES         2 GALVANIZED           30         3 GCONCRETE           4         OPEN HOLE           17-18         1 STEEL           2 GALVANIZED         3 CONCRETE           4         OPEN HOLE           10-11         1 STEEL           2 GALVANIZED         3 CONCRETE           4         OPEN HOLE           24-25         1 STEEL           2 GALVANIZED         3 CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM         0           11-14         DURATION OF           GPM         1           12-30 MINUTES         45 MINUT	WALL THICKNESS           12           3''           19           26           5           15-16           15-16           WMPING           15-16           WMPING           15-16           WIMPING           WRECOVERY           60 MINUTES	B. B. B. B. B. B. B. B. B. B.	Contraction (SLOT) Contraction (SLOT) Contra	Tial and type           LUGGINC           Set AT - FEET           TO           13           14-17           -21           22-25           29           30-33           OCATION           cow show distant	BO	EALING AND TYPE LE	RECOR RECOR (CEMENT GRO EAD PACKER, E
TT - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 25-28 1 2 2 30-33 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       29         SALTY       4       MINERAL       21         FRESH       3       SULPHUR       34       80         SALTY       4       MINERAL       22       24         SALTY       4       MINERAL       25       34       80         WATER       LEVEL       25       25       314       274       26-7         WATER       LEVEL       22-24       35       34       67       34       35         U       22-24       35       35       34 <t< td=""><td>INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         A CONCRETE           4         OPEN HOLE           17-18         I STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           10-11         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         I STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM         OF           11-14         DURATION OF           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           1         2           3         GOL           4         OPEN           <td< td=""><td>WALL THICKNESS INCHES           12         3''           19         3''           19         26           26         0           15-16         00         17-11           HOURS         17-11           HOURS         17-11           WMPING         15-16           VUMPING         17-11           HOURS         0           VUMPING         17-11           FEET         60 MINUTES           32-34         60 MINUTES           FEET         0/12/FEE</td><td>B 57 57 57 57 57 57 57 57 57 57</td><td>Contractions of the second sec</td><td>TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM</td><td>BO</td><td>EALING AND TYPE LE</td><td>PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E</td></td<></td></t<>	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         A CONCRETE           4         OPEN HOLE           17-18         I STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           10-11         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         I STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM         OF           11-14         DURATION OF           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           1         2           3         GOL           4         OPEN <td< td=""><td>WALL THICKNESS INCHES           12         3''           19         3''           19         26           26         0           15-16         00         17-11           HOURS         17-11           HOURS         17-11           WMPING         15-16           VUMPING         17-11           HOURS         0           VUMPING         17-11           FEET         60 MINUTES           32-34         60 MINUTES           FEET         0/12/FEE</td><td>B 57 57 57 57 57 57 57 57 57 57</td><td>Contractions of the second sec</td><td>TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM</td><td>BO</td><td>EALING AND TYPE LE</td><td>PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E</td></td<>	WALL THICKNESS INCHES           12         3''           19         3''           19         26           26         0           15-16         00         17-11           HOURS         17-11           HOURS         17-11           WMPING         15-16           VUMPING         17-11           HOURS         0           VUMPING         17-11           FEET         60 MINUTES           32-34         60 MINUTES           FEET         0/12/FEE	B 57 57 57 57 57 57 57 57 57 57	Contractions of the second sec	TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM	BO	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TT - FEET - FEET - FEET - FEET 	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       60         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       60         SALTY       4       MINERAL       60         SALTY       4       MINERAL       60         THOD       10       PUMPING RATE       70         WATER       12       25       WATER         VATER       12       15       MINUTES         38-41       PUMP       INTAKE       50	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         GORGETE           4         OPEN HOLE           17-18         I           1         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           10-11         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         I           3         CONCRETE           4         OPEN HOLE           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM.         OPEN           11-14         DURATION OF           GPM.         OPEN           29-31         OPEN           3         FEET           45         MINUTES           3         FEET           45         MINUTES	WALL THICKNESS           12           12           13           19           26           26           26           26           27           15-16           00/URS           19/UMPING           17-11           19/00/URS           19/00/URS           19/00/URS           19/00/URS           19/00/URS           10/00/URS           27-34           60           100/URS           27-34           10           10/00/URS           28-34           10/00/URS           28-34           10/00/URS           28-34           10/00/URS           28-34           10/00/URS           28-34           10/00/URS           10/00/URS           10/00/URS           10/00/URS           10/00/URS           10/00/URS	DEPTH - FEET FROM TO 13-16 20-22 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-24 20-24 20-25	Contractions of the second sec	TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM	BO	EALING AND TYPE LE	RECOR (CEMENT GRO EAD PACKER, E
TT - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 25-28 1 2 2 30-33 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       29         WATER LEVEL       25       WATER       2000         WATER LEVEL       25       WATER       24         JHO OF       22-24       15       14         JHOUMPING       76-7       38-41       PUMP INTAKE         JMP TYPE       RECOMMENDED       24       25	INSIDE         MATERIAL           INCHES         MATERIAL           10-11         STEEL           2         GALVANIZED           30         A           10-11         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           17-18         1           3         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         1           3         CONCRETE           4         OPEN HOLE           24-25         1           3         CONCRETE           4         OPEN HOLE           11-14         DURATION OF           GPM         01           11-14         DURATION OF           28         30 MINUTES           30 FEET         14           01         12           01         14           01         14           01         14           01         14           29-31         14           37         FEET	WALL THICKNESS           12           12           12           13           19           26           26           26           26           26           26           27           15-16           POUMPING           PRECOVERY           FEET           32-34           FEET           AR           2 CLOUDY           46-4	DEPTH - FEET FROM TO 13-16 20-22 20-23 27-30 27-30 8 8 8 8 10 10 10 10 10 10 10 10 10 10	Contractions of the second sec	Tial and type           LUGGINC           Set AT - FEET           TO           13           14-17           -21           22-25           29           30-33           OCATION           cow show distant	BO	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TT - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       21         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       21         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       25         WATER       22-24       25       WATER         MATER       12       22-24       15         JUMP TYPE       RECOMMENDED       PUMP         N       DEEP       RECOMMENDED         PUMP       SETTING       0	INSIDE     MATERIAL       INCHES     MATERIAL       INCHES     10-11       10-11     STEEL       2     GALVANIZED       30     GONCRETE       4     OPEN HOLE       17-18     STEEL       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       11-18     STEEL       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       24-25     STEEL       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       11-14     DURATION OF       GPM     01       11-14     DURATION OF       11-14     DURATION OF       11-14     OPEN HOLE       11-14     DURATION OF       12     GALVANIZED       28     30 MINUTES       29-31     012       12     43-45       142-45     RECOMMENDE       143-45     RECOMMENDE       23     FEET	WALL THICKNESS       12       3       19       26       26       26       26       26       26       27       15-16       10       17-11       hours       17-12       17-13       15-16       15-17       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-18       15-19       15-16       15-16       15-16       15-17       15-18       15-18       15-19       15-10       15-10       15-11       15-12       160       17-11       160       17-11       161       17-11       162       17-11       163       164       17-11       17-11       160       17-11       17-11       164       17-11       17-11	DEPTH - FEET FROM TO 13-16 20-22 20-23 27-30 27-30 8 8 8 8 10 10 10 10 10 10 10 10 10 10	Contractions of the second sec	TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM	BO	EALING AND TYPE LE	RECOR RECOR (CEMENT GRO EAD PACKER, E
TI - FEET         240-13         15-18         15-18         20-23         21         20-23         21         22         20-23         21         21         22         20-23         21         22         20-23         21         22         230-33         12         21         22         30-33         12         21         22         30-33         12         21         22         30-33         12         21         22         30-33         12         21         22         30-33         23         30-33         24         31         25         32         33         33         34         35         35         36         37	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       34       80         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       34       80         SALTY       4       MINERAL       34       80         THOD       10       PUMPING RATE       90       94       86         20       BAILER       000       15       MINUTES       14       76-2         T       4       FEET       15       MINUTES       15       94       76-2         30       4       FEET       14	INSIDE     MATERIAL       INCHES     MATERIAL       INCHES     10-11       10-11     STEEL       2     GALVANIZED       30     GORCRETE       4     OPEN HOLE       17-18     I       1     STEEL       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       11-14     STEEL       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       11-14     DURATION OF       GPM     01       12     01       20     MURATION OF       GPM     01       11-14     DURATION OF       GPM     01       21     01       229-31     01       30     MURATION       23     FEET       43-45     FEET       43-45     FEET       43-45     FEET       23     FEET </td <td>WALL THICKNESS INCHES           12           12           13           19           26           26           26           26           27           15-16           PUMPING           15-16           PUMPING           PRECOVERY           PUMPING           PRECOVERY           FEET           S2-34           S12           FEET           SAR           20           GP           46-4           OI           GP</td> <td>DEPTH - FEET FROM TO 13-16 0 26-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-24 20-25 20-26 20-2</td> <td>Contractions of the second sec</td> <td>TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM</td> <td>BO</td> <td>EALING AND TYPE LE</td> <td>RECOR RECOR (CEMENT GRO EAD PACKER, E</td>	WALL THICKNESS INCHES           12           12           13           19           26           26           26           26           27           15-16           PUMPING           15-16           PUMPING           PRECOVERY           PUMPING           PRECOVERY           FEET           S2-34           S12           FEET           SAR           20           GP           46-4           OI           GP	DEPTH - FEET FROM TO 13-16 0 26-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-24 20-25 20-26 20-2	Contractions of the second sec	TO         TO           13         14-17           -21         22-25           29         30-33           OCATION           OW SHOW DISTAM	BO	EALING AND TYPE LE	RECOR RECOR (CEMENT GRO EAD PACKER, E
TT - FEET 740-13 1 15-18 1 20-23 1 20-23 1 21 20-23 1 21 20-23 1 21 21 21 21 21 21 21 21 21 2	KIND OF WATER         FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       21         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       21         THOD       10       PUMPING       RATE         WATER LEVEL       25       WATEF       24         WATER LEVEL       25       WATEF       24         JMP TYPE       FEET       15       MINUTES         JMP TYPE       GPM.       GPM.       74         M       DEEP       SETTING       0         OT	INSIDE       MATERIAL         INCHES       MATERIAL         10-11       STEEL         2       GALVANIZED         30       GALVANIZED         30       GALVANIZED         31       CONCRETE         4       OPEN HOLE         17-18       I         18       STEEL         2       GALVANIZED         31       CONCRETE         4       OPEN HOLE         24-25       I         31       STEEL         22       GALVANIZED         33       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM.       DI         11-14       DURATION OF         GPM.       DI         29-31       J         30       MINUTES         29-31       J         43-45       RECOMMENDE         23       FEET         43-45       RECOMMENDE         23       FEET         43-45       RECOMMENDE         23       FEET         43-45       RECOMENDED         23       FEET	WALL THICKNESS           12           12           13           19           26           26           26           26           26           26           7           19           26           26           26           27           15-16           15-17           HOURS           7           19           26           26           27           15-16           15-16           15-17           HOURS           7           7           19           26           27           60           10           7           110           7           111           12           137-34           137-34           137-37           137-37           137-37           140           15           160           17           17	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TI - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         WATER       LOW       10         PUMPING       20       PUMPING         WATER       LEVEL       25         WATER       LEVEL       15         GPM       PEET       15         JUMP       TYPE       RECOMMENDED         PUMPINS       GPM.	INSIDE       MATERIAL         INCHES       MATERIAL         10-11       STEEL         2       GALVANIZED         30       GALVANIZED         31       CONCRETE         4       OPEN HOLE         17-18       STEEL         2       GALVANIZED         31       CONCRETE         4       OPEN HOLE         24-25       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         11-14       DURATION OF         29-31       J         11-14       DURATION OF         29-31       J         43-45       RECOMMENDE         23       FEET         43-45       RATE         43-45       RACOMING         7       ABANDONED, IN:         6       ABANDONED, PO         7       UNFINISHED	WALL THICKNESS           12           12           13           19           26           26           26           26           26           26           7           19           26           26           26           27           7           15-16           15-17           15-18           15-19           15-19           15-16           15-16           15-17           15-18           15-19           15-16           15-16           15-16           15-16           15-17           15-18           15-19           15-19           15-19           15-10           15-11           15-12           15-13           15-14           15-15           160           171           171           171           180           1910           192	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TT - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         FRESH       3       SULPHUR         SALTY       4       MINERAL         WATER       LEVEL       25         WATER       LEVEL       25         GPM.       GPM.       GPM.         JUMP TYPE       GPM.      <	INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I         10-11       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-18       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       OF         11-14       DURATION OF         GPM       OF         11-14       DURATION OF         GPM       OF         11-14       DURATION OF         12       GALVANIZED         14       OPEN HOLE         15       RECOMMENDER         16       MUNICIPAL	WALL THICKNESS           12           12           13           19           26           26           26           26           26           26           7           19           26           26           26           27           7           15-16           15-17           15-18           15-19           15-19           15-16           15-16           15-17           15-18           15-19           15-16           15-16           15-16           15-16           15-17           15-18           15-19           15-19           15-19           15-10           15-11           15-12           15-13           15-14           15-15           160           171           171           171           180           1910           192	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	PP 41- FEET RECOR (CEMENT GROI EAD PACKER, E
TT - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         FRESH       3       SULPHUR         SALTY       4       MINERAL         PROPO       10       PUMPING RATE         20       BAILER       DOM         WATER <level< td="">       25       WATER         END OF       22-24       15. MINUTES         GPM.       GPM.       FEE         SHAT       PUMP INTAKE       5         GPM.       GPM.       FEE         GPM.       GPM./FT. S</level<>	INSIDE       MATERIAL         INCHES       MATERIAL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I         18       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         17-18       I         18       I         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       01         11-14       DURATION OF         GPM       01         12       45         30       MINUTES         30       MATER AT EN         10       FEET         43-45       RECOMMENG         8       CABANDONED, PC         7       UNFINISHED         5       CAMMERCIAL         6       MUNICIPAL         7       PUBLIC SUPPLY         8	WALL THICKNESS INCHES       12       3       19       26       26       26       26       26       26       27       19       26       26       27       32       4       26       26       26       27       4       20       15-16       00       17-11       MINE       27       60       WINUTES       32-34       93-35       93-35       94-4       94-4       92-34       93-35	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	PP 41
AT - FEET         7         15-18         15-18         2         20-23         2         25-28         1         25-28         1         2         30-33         1         2         30-33         1         2         30-33         1         2         1         PUMPING TEST ME         PUMP         STATIC         LEVEL         19-2         IF FLOWING.         GIVE RATE         RECOMMENDED PU         SHALLOV         50-53         C         STATUS         OF WELL         WATER	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         FRESH       3       SULPHUR         SALTY       4       MINERAL         WATER       EWD       0         WATER       LEWD       10         WATER       LEWD       15         MATER       LEWD       15         GPM       PUMPING       SETTING         GPM       DEEP       SETTING	INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         17-18       I         10       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         21-14       DURATION OF         11-14       DURATION OF         12       GALVANIZED         13       GONTINUTES         29       N         30       MINU	WALL THICKNESS INCRE	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	PP 41
TI - FEET 740-13 1 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         WATER       EVEL       25         WATER       EVEL       25         MATER       EVEL       25	INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-18       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         21-3       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       01         11-14       DURATION OF         1       GPM         11-14       DURATION OF         12       GALVANIZED         30       MINUTES         31       GALVANIZED         31       GALVANIZED         32 <t< td=""><td>WALL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES COMUNING INCHES INC</td><td>DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10</td><td>Contraction (SLOT) Contraction (SLOT) Contra</td><td>RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE</td><td>80 80 <b>OF W</b> CES OF WELL RROW.</td><td>ELL FROM ROAD A</td><td>RECOR RECOR (CEMENT GROI EAD PACKER, E SIGN CEAD ND SIGN CEAD</td></t<>	WALL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES COMUNING INCHES INC	DEPTH - FEET FROM TO 13-16 0 20-22 20-23 27-30 8 8 8 10 10 10 10 10 10 10 10 10 10	Contraction (SLOT) Contraction (SLOT) Contra	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         -22-25         29         30-33         OCATION         ow show DISTAN         cw show DISTAN         S' 6 0         YATE	80 80 <b>OF W</b> CES OF WELL RROW.	ELL FROM ROAD A	RECOR RECOR (CEMENT GROI EAD PACKER, E SIGN CEAD ND SIGN CEAD
TI - FEET 710-13 1 15-18 1 20-23 1 20-23 1 21 20-23 1 21 20-23 1 21 21 20-23 1 21 21 21 21 21 21 21 21 21 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         SALTY       4       MINERAL         SALTY       4       MINERAL         SALTY       4       MINERAL         WATER       29       WATER         WATER       200       WATER         WATER       200       WATER         JUNP TYPE       PUMP       NINPRES         M       DEEP       SETTING         0       0       DESERVAT	INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-18       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         21-3       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       01         11-14       DURATION OF         1       GPM         11-14       DURATION OF         12       GALVANIZED         30       MINUTES         31       GALVANIZED         31       GALVANIZED         32 <t< td=""><td>WALL THICKNESS INCHES       12       3       19       26       26       26       26       26       27       19       26       26       27       19       26       26       26       27       15-16       20       15-17       14       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       10       21       21       21       22       23       35-3       312       212       212       212       22       23       34       35       35-3       35-3       35-3       35-3</td></t<> <td>DEPTH - FEET FROM TO 13-16 0 246 20-23 27-30 8 8 8 10 17 17 19 10 10 10 10 10 10 10 10 10 10</td> <td>Contractions of the second sec</td> <td>RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         22-25         29         30-33         OCATION         OW SHOW DISTAN         S' G O         YATE         SIDE RD         SIDE RD         SIDE RD</td> <td>80 80 <b>OF W</b> CES OF WELL RROW.</td> <td>EALING AND TYPE LE</td> <td>RECOR RECOR (CEMENT GROI EAD PACKER, E SIGN CEAD ND SIGN CEAD</td>	WALL THICKNESS INCHES       12       3       19       26       26       26       26       26       27       19       26       26       27       19       26       26       26       27       15-16       20       15-17       14       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       15-18       20       10       21       21       21       22       23       35-3       312       212       212       212       22       23       34       35       35-3       35-3       35-3       35-3	DEPTH - FEET FROM TO 13-16 0 246 20-23 27-30 8 8 8 10 17 17 19 10 10 10 10 10 10 10 10 10 10	Contractions of the second sec	RIAL AND TYPE         LUGGINC         SET AT - FEET         TO         13         14-17         -21         22-25         29         30-33         OCATION         OW SHOW DISTAN         S' G O         YATE         SIDE RD         SIDE RD         SIDE RD	80 80 <b>OF W</b> CES OF WELL RROW.	EALING AND TYPE LE	RECOR RECOR (CEMENT GROI EAD PACKER, E SIGN CEAD ND SIGN CEAD
TI - FEET         7         15-18         15-18         1         20-23         2         20-23         2         20-23         2         20-23         2         20-23         2         20-23         1         2         20-33         1         2         30-33         1         2         2         30-33         1         2         30-33         1         2         30-33         1         2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         19-2         11-2         11-2         12         12         13         14         15-10         <	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         WATER       EVEL       25         WATER       EVEL       25         SUMPTING       EVEL <tr< td=""><td>INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I         10-11       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-14       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       0/2         11-14       DURATION OF         GPM       0/2         11-14       DURATION OF         12       43-45         13       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       0/2         12       45         14       0/2         15       CABANDONED, NO         16       ABANDONED, PC</td><td>WALL THICKNESS INCHES       12       3       13       19       26       26       26       27       28       29       26       26       27       28       29       26       26       27       26       26       27       28       29       26       20       21       226       26       27       28       29       29       20       13-16       20       14       20       21       226       226       20       21       21       22       22       23       24       25       26       27       28       29       20       20       20       21       22       23       35-3       35-3       35-3       35-3       35-3       35-3</td><td>DEPTH - FEET FROM TO 13-16 0 246 20-23 27-30 8 8 8 8 10 12 13-16 20-21 20-23 27-30 13-16 20-21 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-24 20-24 20-25</td><td>Contractions of the second sec</td><td>RIAL AND TYPE LUGGINC SET AT - FEET TO 13 14-17 -21 22-25 23 30-33 OCATION OW SHOW DISTAN OW SHOW DISTAN S' <math>G</math> O Y AT E A S' <math>G</math> O S' <math>G</math> O</td><td>80 80 <b>OF W</b> CES OF WELL RROW.</td><td>ELL FROM ROAD AN</td><td>RECOR RECOR (CEMENT GROU EAD PACKER, E ND SIGN FAD. ND SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN</td></tr<>	INSIDE       MATERIAL         INCHES       MATERIAL         INCHES       STEEL         10-11       STEEL         2       GALVANIZED         30       CONCRETE         4       OPEN HOLE         17-18       I         10-11       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         11-14       STEEL         2       GALVANIZED         3       CONCRETE         4       OPEN HOLE         24-25       I         3       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       0/2         11-14       DURATION OF         GPM       0/2         11-14       DURATION OF         12       43-45         13       CONCRETE         4       OPEN HOLE         11-14       DURATION OF         GPM       0/2         12       45         14       0/2         15       CABANDONED, NO         16       ABANDONED, PC	WALL THICKNESS INCHES       12       3       13       19       26       26       26       27       28       29       26       26       27       28       29       26       26       27       26       26       27       28       29       26       20       21       226       26       27       28       29       29       20       13-16       20       14       20       21       226       226       20       21       21       22       22       23       24       25       26       27       28       29       20       20       20       21       22       23       35-3       35-3       35-3       35-3       35-3       35-3	DEPTH - FEET FROM TO 13-16 0 246 20-23 27-30 8 8 8 8 10 12 13-16 20-21 20-23 27-30 13-16 20-21 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-23 20-24 20-24 20-25	Contractions of the second sec	RIAL AND TYPE LUGGINC SET AT - FEET TO 13 14-17 -21 22-25 23 30-33 OCATION OW SHOW DISTAN OW SHOW DISTAN S' $G$ O Y AT E A S' $G$ O S' $G$ O	80 80 <b>OF W</b> CES OF WELL RROW.	ELL FROM ROAD AN	RECOR RECOR (CEMENT GROU EAD PACKER, E ND SIGN FAD. ND SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN
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	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         PUMPING       22-24       25         WATER LEVEL       25       WATER         SB-41       PUMP INTAKE       38-41         JMP TYPE       RECOMMENDED       PUMP         SGPM.       DE	INSIDE       MATERIAL         INCHES       MATERIAL         10-11       I STEEL         2 GALVANIZED       3 GONCRETE         4 OPEN HOLE       1 STEEL         2 GALVANIZED       3 GONCRETE         4 OPEN HOLE       2 GALVANIZED         3 CONCRETE       4 OPEN HOLE         2 GALVANIZED       3 GONCRETE         4 OPEN HOLE       2 GALVANIZED         2 GALVANIZED       3 GONCRETE         4 OPEN HOLE       2 GALVANIZED         3 GONCRETE       4 OPEN HOLE         11-14       DURATION OF         GPM       0/1         3 O MINUTES       0/2         3 FEET       43 45         RECOMMENDE       0/2         43 45       RECOMMENDE         2 3 FEET       ABANDONED, IN:         4 3 45       RECOMMENDE         2 3 FEET       RATE         4 3 45       RECOMMENDE         2 3 FEET       ABANDONED, IN:         1 4 3 45       RECOMMENDE         2 4 3 45       RECOMMENDE         2 5 COMMERCIAL       MUNICIPAL         7 DUBLIC SUPPLY       B COOLING OR AIR CC         8 COOLING OR AIR CC       9 N	WALL THICKNESS INCHES       12       3       13       19       26       26       26       27       28       29       26       26       27       28       29       26       26       27       26       26       27       28       29       26       20       21       226       26       27       28       29       29       20       13-16       20       14       20       21       226       226       20       21       21       22       22       23       24       25       26       27       28       29       20       20       20       21       22       23       35-3       35-3       35-3       35-3       35-3       35-3	DEPTH - FEET FROM TO 13-16 14-16 13-16	Contractions of the second sec	RIAL AND TYPE LUGGINC SET AT - FEET TO 13 14-17 -21 22-25 23 30-33 OCATION OW SHOW DISTAN OW SHOW DISTAN OW SHOW DISTAN OW SHOW DISTAN OW SHOW DISTAN CATE NORTH BY A S' $G$ O XATIE A S' $G$ O XATIE A ONTRACTOR X & 3 C	BO BO DF W RROW. RROW. SO- SO- SO- SO- SO- SO- SO- SO-	ELL FROM ROAD A	OP         41-           FEET         FEET           RECOR         FEET           RECOR         FEET           RECOR         FEET           RECOR         FEET           ND         FEET           SIGN         FEET           ND         FEET           SIGN         FEET           SIGN         FEET           SIGN         FEET           SIGN         FIET           SIGN         FIET
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10. Rucontain limplate to WATCH RECOUP 13.0. UTM  $| \mathcal{Y}_{\perp} | z$ Jül Ontario Water Resources Commission Act ONTARIO WA ATER WELL RECORDRESOURCES COA Elev. Township, Village, Town or City Mulmer Basin County Date completed e 1966 year) dress 5 8 Bunhamthorpe Ch. Oslington Pumping Test Casing and Screen Record Static level ground to water 10 feet Inside diameter of casing 30 inches Test-pumping rate 3 gallon per ming. P.M. Total length of casing 27 feet Pumping level Type of screen Duration of test pumping Length of screen Water clear or cloudy at end of test Clean Depth to top of screen Diameter of finished hole 30 inchs Water Record Well Log Kind of water Depth(s) at To (fresh, salty, sulphur) From which water(s) Overburden and Bedrock Record ft. ft. found 10 D soil 25 10 Greg sand & wate 25 26 fea fresh Low Infidiagram below road and lot line. For what purpose(s) is the water to be used? Louise Location of Well Indiagram below show distances of well from ..... Indicate north by arrow. Is well on upland, in valley, or on hillside? Hill side Drilling or Boring Firm ..... Address Name of Driller or Borer Man B.W. Address 590 BM F Mansfield Date , CSS.58 nature of Licensed Drilling or Boring Contractor) 800 Form 7 15M-60-4138 S OWRC COPY

The Ontario W	Vater Resources	Commission Act	414/15
WATER W	NELL	RECORD	
Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK X CORRECT BOX WHERE APPLICABLE	<u>11</u>	$\frac{1701141}{\frac{10}{10}}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
COUNTY OR DISTRICT DILFFERIN MULM	-	H-S.E.	016
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		ATERIALS (SEE INSTRUCTIONS)	
GENERAL COLOUR COMMON MATERIAL OTHER MAT		GENERAL DESCRIPTION	DEPTH – FEET FROM TO
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Rould Clail		PACKED	1 8
BROWN SAND LAYERED	VITH CLAY	POROUS	8' 10'
GREY CLAY		PACKED	10 21
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(31) $(32)$ $(31)$ $(32)$			
1.2 14 15 21 32 14 1 WATER RECORD 51 CASING & C			31-33 DIAMETER 34-38 LENGTH 39-40
WATER EQUND KIND OF WATER DIAM. MATERIAL	WALL DEPTH - THICKNESS INCHES FROM		INCHES FEET
10-11 1 STEEL		00215	
	3 0'	20-23 DEPTH SET AT - FEET	& SEALING RECORD MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
20-23         1 [] FRESH         3 [] SULPHUR         2 [] GALVANIZED           2 [] SALTY         4 [] MINERAL         3 [] CONCRETE		FROM TO 10-13 (4-17	
	26	27-30 18-21 22-25	
30-33         1         FRESH         3         SULPHUR         34         80         3         CONCRETE           2         SALTY         4         MINERAL         4         OPEN HOLE		26-29 30-33 80	
PUMPING TEST METHOD 10 PUMPING RATE 11-14 DURATION OF	5-16 0017-18	LOCATION	
STATIC END OF WATER LEVELS DURING		IN DIAGRAM BELOW SHOW DISTANCE LOT LINE. INDICATE NORTH BY ARR	ow.
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OF WELL 4 RECHARGE WELL 55-56 1 DOMESTIC 5 COMMERCIAL		.42	
WATER USE 4 INDUISTRIAL 8 COOLING OF AIR CO			
	IOT USED		
METHOD 57 1 CABLE TOOL 6 BORING 2 CONVENTIONAL 7 COMMON	ID III		
OF 3 COTARY (REVERSE) 8 JETTING DRILLING 4 ROTARY (AIR) 9 DRIVING 5 AIR PERCUSSION	i		MANSFIEL
		DATA 58 CONTRACTOR 59- SOURCE	62 DATE PECEIVED 63-68 80
ADDRESS R. R. I. ALLISTON, ON		DATE OF INSPECTION INSPECTOR	
NAME OF DRILLER OR BORER		11/18/70	F / 2
ZN.F. DOWLING.	1830 10		CSS.S8
Signal are continueron	OCT YR 70		Jel-
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Ministry of the Environment	WAT	The Ontario Water R ER WEL	L RECORD
Ontario	PACES PROVIDED	1704168 U.Z	
	TOWNSHIP BOROUGH CITY. TOWN. VILLAGE	CON BLOCK TRA	in 86. 27
	Mansfi	eld.	DATE COMPLETED 41-53 DAY MO YR 44
	ING / RC. 17 18 24 25	ELEVATION BC. BASIN CODE	
LO	G OF OVERBURDEN AND BEDROO	CK MATERIALS (SEE INSTRUCTIO	DEPTH · FEET
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	tansail	
		Brown Clay	stones. 1 10
37		Blue Clay	10 22.
	· *.	- Bluc Sho	1/e. 1- 40
	C C D alianation and a state of the		
		*	£
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31			
	1   1     32     51     CASING & OPEN HOLE F		IG 31-33 DIAMETER 34-38 LENGTH 39-40
41 WATER RECORD			INCHES FEET VPE DEPTH TO TOP 41-44 30 DOT SORREN
10-13 2 SALTY 4 MINERALS 15-18 10-13 1 FACEH 3 SULPHUR 4 MINERALS 6 GAS 19	10-11 1 DITEL 2 DIGALVANIZED	13-16 Ú	FEET
15-18 1 D FRESH 3 SULPHUR			NO ONIO A OFALINO RECORD
$\begin{array}{c c} 2 & 4 & \text{Immerals} \\ \hline & 5 & \text{alty} & 6 & \text{Igas} \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$	0 4 □ OPEN HOLE 160 0 5 □ PLASTIC 17-18 17-18 1 □ STEEL 19	20-23 DEPTH SET AT - FE FROM TC	
2 SALTY 4 UMINERALS 6 GAS 20-23 1 FRESH 3 SULPHUR 24 2 SALTY 4 MINERALS 6 GAS 25-28 1 FRESH 3 DSULPHUR 23	0.     4 ⊡ OPEN HOLE     180       10.     S □ PLASTIC     19       10.     S □ ELVANIZED     3       3 □ CONCRETE     4 □ OPEN HOLE       5 □ PLASTIC	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13	ET ICEMENT GROUT MATERIAL AND TYPE LEAD PACKER, ETC.)
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       SULPHUR       24         2       SALTY       4       MINERALS         2       SALTY       6       GAS         2       SALTY       6       GAS         2       SALTY       6       GAS         2       SALTY       6       GAS         3       SULPHUR       29         2       SALTY       6       GAS         3       SULPHUR       24         4       MINERALS       6         3       SULPHUR       24         3       SULPHUR       34         3       SULPHUR       34	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20-23 20-23 DEPTH SET AT FE FROM TC 10-13 27-30 18-21	ET ICEMENT GROUT
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       23         2       SALTY       6       GAS       3       ISULPHUR       23         2       SALTY       6       GAS       3       ISULPHUR       34       10         3       1       FRESH       3       ISULPHUR       34       10         2       SALTY       6       GAS       3       10       FRESH       4       IMINERALS         2       SALTY       6       GAS       10       PUMPING RATE       10       PUMPING RATE	0.     4 © OPEN HOLE     1 & 0 OPEN HOLE       1     S © PLASTIC     19       1     S © OLCRETE     4 © OPEN HOLE       3     © CONCRETE       4     © OPEN HOLE       5     © LASTIC       24-25     1       1     © STEEL       2     GALVANIZED       3     © CONCRETE       4     © OPEN HOLE       5     © LASTIC	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-28	ET ICEMENT GROUT MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       24         2       SALTY       6       GAS       3       ISULPHUR       23         2       SALTY       6       GAS       3       ISULPHUR       23         2       SALTY       6       GAS       3       ISULPHUR       24         30-33       1       FRESH       3       ISULPHUR       34       10         2       SALTY       6       GAS       34       10       10       10         2       SALTY       6       GAS       10       10       10       10       10         1       PUMP       2       FAILER       25       10	0.     4 © OPEN HOLE     180       17-18     1 © STEEL     19       2 © GALVANIZED     3 © CONCRETE       4 © OPEN HOLE       5 © PLASTIC       24-25     1 © STEEL       2 © GALVANIZED       3 © CONCRETE       4 © OPEN HOLE       5 © PLASTIC       24-25       1 © STEEL       2 © GALVANIZED       3 © CONCRETE       4 © OPEN HOLE       5 © PLASTIC	20-23 20-23 20-23 20-23 DEPTH SET AT - FE FROM 17C 10-13 22-30 18-21 26-28 L O C A T IN DIAGRAM BELOW SHOW	ET ICEMENT GROUT ICEMENT GROUT LEAD PACKER, ETC ) 14-17 22-25 30-33 80
2     SALTY     4     IMINERALS       20-23     1     FRESH     3     SULPHUR       2     SALTY     4     IMINERALS       2     SALTY     4     IMINERALS       2     SALTY     6     GAS       23-28     1     FRESH     3     SULPHUR       2     SALTY     6     GAS       30-33     1     FRESH     3     SULPHUR       30-33     1     FRESH     3     SULPHUR       2     SALTY     6     GAS       30-33     1     FRESH     3     SULPHUR       2     SALTY     6     GAS	0.     4 Порек ноле     180       17-18     1 STEEL     19       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       24-25     I       3     CONCRETE       4     OPEN HOLE       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       26-25     I       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       4     OPEN HOLE       5     PLASTIC       1     DURATION OF PUMPING       4     OPEN HOLE       5     PLASTIC       6     OPEN HOLE       7     PUMPING       18     PUMPING       19     PUMPING       10     PUMPING       10     PLASTIC	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER: ETC.)
2     SALTY     4     IMINERALS       20-23     1     FRESH     3     SULPHUR       2     SALTY     4     IMINERALS       2     SALTY     4     IMINERALS       2     SALTY     6     GAS       23-28     1     FRESH     3     SULPHUR       2     SALTY     6     GAS       30-33     1     FRESH     3     SULPHUR       30-33     1     FRESH     3     SULPHUR       2     SALTY     6     GAS       30-33     1     FRESH     3     SULPHUR       2     SALTY     6     GAS	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO	ET MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.) 14-17 22-25 30-33 80 10 N OF WELL DISTANCES OF WELL FROM ROAD AND
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       SULPHUR       24         2       SALTY       4       IMINERALS       6       GAS         20-23       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       6       GAS         21-24       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       6       GAS         30-33       1       FRESH       3       ISULPHUR       34       0         30-33       1       FRESH       3       ISULPHUR       34       0         2       SALTY       6       GAS       GAS       14       0         30-33       1       FRESH       3       ISULPHUR       34       0         2       SALTY       6       GAS       GAS       14       0         1       PUMPING TEST METHOD       10       PUMPING RATER       14       0       14       14       14       14       14       14       15       14       15       14       15       14	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER: ETC.)
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       SULPHUR       24         2       SALTY       4       IMINERALS         2       SALTY       4       IMINERALS         2       SALTY       6       GAS         23-28       1       FRESH       3       SULPHUR         2       SALTY       6       GAS         30-33       1       FRESH       3       SULPHUR       34         2       SALTY       6       GAS         30-33       1       FRESH       3       SULPHUR       34       0         30-33       1       FRESH       3       SULPHUR       34       0         30-33       1       FRESH       3       SULPHUR       34       0         2       SALTY       6       GAS       5       0       0         30-33       1       FRESH       3       SULPHUR       34       0         1       PUMPING       10       PUMPING RATE       10       PUMPING RATE         1       PUMP       2       CALLER       25       WATER       26-20 <t< td=""><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO</td><td>ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER: ETC.)</td></t<>	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER: ETC.)
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       SULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS         23-24       1       FRESH       3       SULPHUR       24         2       SALTY       6       GAS       35         2       SALTY       6       GAS       36         30-33       1       FRESH       3       SULPHUR       24         2       SALTY       6       GAS       36       36         30-33       1       FRESH       3       SULPHUR       24         2       SALTY       6       GAS       36       36         2       SALTY       6       GAS       36       37         1       PUMPING       TEST METHOD       10       PUMPING RATE       36         1       PUMP       PUMPING       WATER LEVEL       25       WATER LEVEL         1       PUMPING       TEST METHOD       10       PUMPING RATE       24         1       PUMPING       STATIC       STATE       25	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 27-30 18-21 26-29 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25 30-33 40 4 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW.
2       SALTY       4       IMINERALS         20-23       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS         2       SALTY       6       GAS         23-28       1       FRESH       3       ISULPHUR       23         2       SALTY       6       GAS       34       34       34         30-33       1       FRESH       3       ISULPHUR       34       34       34       34       34       35         30-33       1       FRESH       3       ISULPHUR       34       36       36       35       36       37       36       36       36       36       36       36       36       36       36	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	20-23 20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 22-30 III-21 26-23 III-21 IIII-21 26-23 IIII-21 IIII-21 26-23 IIII-21 IIII-21 IIII-21 IIII-21 IIII-21 IIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIII	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25 30-33 60 4 10N OF WELL OISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Ro. N. KINGA RO.
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS         2       SALTY       4       IMINERALS         2       SALTY       4       IMINERALS         2       SALTY       6       GAS         2       SALTY       6       GAS         30-33       1       FRESH       3       ISULPHUR         2       SALTY       6       GAS         30-33       1       FRESH       3       ISULPHUR         2       SALTY       6       GAS         30-33       1       FRESH       3       ISULPHUR         2       SALTY       6       GAS         30-33       1       FRESH       3       ISULPHUR         2       SALTY       6       GAS         4       ININERALS       28       MATER         5       16       FRECH       24       WATER         4       ININERALS       38       15       MINUTES         <	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	20-23 20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 22-30 III-21 26-23 III-21 IIII-21 26-23 IIII-21 IIII-21 26-23 IIII-21 IIII-21 IIII-21 IIII-21 IIII-21 IIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIII	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25 30-33 40 4 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW.
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       6       GAS       23         21-22       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       23       23       23       24       24       24       24       24       24       24       24       24       24       24       24       24       24       24       24       24       24       25       25       25       25       25       25       25       25       26       26       26       26       26       26       26       27       26       26       26       26       26       26       26       26       26       27       26       26       26       26       27       26	0     4     OPEN HOLE     180       17-18     1     STEEL     19       2     GALVANIZED     3       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       1     DURATION OF PUMPING       4     OPEN HOLE       5     PLASTIC       1     PUMPING       2     GALVANIZED       30     MINUTES       60     MINUTES       30     MINUTES       30     MINUTES       30     MINUTES       30     MINUTES       10     CLEAR       2     JECOVERY       30     MINUTES       10     CLEAR       2     JECONMENDED       43-45     RECOMMENDED       9     ABANDONED. INSUFFICIENT SUPPLY       1     ABANDONED. INSUFFICIENT SUPPLY       1     ABANDONED POOR QUALITY	20-23 20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 22-30 III-21 26-23 III-21 IIII-21 26-23 IIII-21 IIII-21 26-23 IIII-21 IIII-21 IIII-21 IIII-21 IIII-21 IIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIII	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25 30-33 60 4 10N OF WELL OISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Ro. N. KINGA RO.
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS         2       SALTY       6       GAS         23-28       1       FRESH       3       ISULPHUR       23         2       SALTY       6       GAS       34       10         30-33       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       34       10         30-33       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       35       34         2       SALTY       6       GAS       35       34       35         2       SALTY       6       GAS       35       36       35       36         1       PUMPING TEST METHOD       10       PUMPING RATE       25       36       36       36       36       36       36       37       36       36       36       36       36       36       36	0     4     OPEN HOLE     180       17-18     1     STEEL     19       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       6     PLASTIC       6     PLASTIC       6     PLASTIC       6     PLASTIC       7     PURTHON       10     CLEAR       2     SCONTRETE       1     CLEAR       2     PUNPING       7     PUNPING       9     PUNFING       1     CLEAR       1     CLEAR	20-23 20-23 20-23 DEPTH SET AT - FE FROM TC 10-13 22-30 10-13 22-29 10-13 22-29 10-23 10-13 22-29 10-13 10-13 22-29 10-13 10-13 22-29 10-13 10-13 10-13 22-29 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-13 10-14 10	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER. ETC.) 14-17 22-25 30-33 60 4 10N OF WELL OISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Ro. N. KINGA RO.
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS       25         21-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       25         2       SALTY       4       IMINERALS       25         2       SALTY       4       IMINERALS       25         30-33       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       26         2       SALTY       6       IMINERALS       26         2       SALTY       6       IMINERALS       26         30-33       1       PUMPING       71       10       PUMPING         1       IMINERALS       15       MATER       26-22       15       MINUTES         2       TEST       TEST       71       71       71       71       71       71       71       71       71       71       71       72	0     4     OPEN HOLE     180       17-18     1     STEEL     19       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC	20-23 20-23 20-23 DEPTH SET AT - FE FROM IC IO-13 22-30 IB-21 26-23 IB-21 26-23 IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO 10-13 26-23 IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO IN DIAGRAM BELOW SHOW IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO IN DIAGRAM BELOW SHOW IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO IN DIAGRAM BELOW SHOW IN DIAGRAM SHOW IN DIAGNAM SHOW	ET MATERIAL AND TYPE ICEMENT GROUT LEAD PACKER ETC) 14-17 22-25 30-33 00 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A side Rob. River Rob. Side Rob. 61537
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS       25         21-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       25         2       SALTY       4       IMINERALS       25         2       SALTY       4       IMINERALS       26         30-33       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       26         2       SALTY       6       IMINERALS       26         2       SALTY       6       IMINERALS       26         30-33       1       PUMPING       71       10       PUMPING         1       IMINERALS       15       MATER       26-22       15       MINUTES         2       TEST       TEST       71       71       71       71       71       71       71       71       71       71       71       72	0     4     OPEN HOLE     180       17-18     1     STEEL     19       2     GALVANIZED     3       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       4     OPEN HOLE       5     PLASTIC       4     OPEN HOLE       5     PLASTIC       5     PLASTIC       6     PUNPING       7     PUNPING       2     SCONCRETE       30     MINUTES       45     MINUTES       5     PLASTIC       10     CLEAR       2     COUDY       43-45     RECOMMENDED       44-49       PUMPING       6       7       11       12	DEPTH SET AT - FE FROM TO TO-13 27-30 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO LOT LINE INDICATE NO ATE OF INSPECTION LOCAT SOURCE STATE SEMARKS	ET MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC) 14-17 22-25 30-33 00 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A side Rob. River Rob. A side Rob. A Side Rob. A Side Rob. A Side Rob. A Side Rob.
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       ISULPHUR       24         2       SALTY       4       IMINERALS       24         2       SALTY       4       IMINERALS       25         23-28       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       34       16         30-33       1       FRESH       3       ISULPHUR       24         2       SALTY       6       GAS       34       16         30-33       1       FRESH       3       ISULPHUR       24       16         30-33       1       FRESH       3       ISULPHUR       24       16         1       PUMPING       TEST       4       IMINERALS       24       25         31       PUMP       PUMPING       TEST       16       IMINERALS       25         1       PUMP ING       TEST       16       ISULPHUR       24       25         1       PUMP       PUMP       24       ISULPHUR       24       25         2       STATIC       STATIC       STATIC	0     4     OPEN HOLE     180       17-18     1     STEEL     19       2     GALVANIZED     3       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       2     GALVANIZED       3     CONCRETE       4     OPEN HOLE       5     PLASTIC       4     OPEN HOLE       5     PLASTIC       4     OPEN HOLE       5     PLASTIC       5     PLASTIC       6     PUNPING       7     PUNPING       2     SCONCRETE       30     MINUTES       45     MINUTES       5     PLASTIC       10     CLEAR       2     COUDY       43-45     RECOMMENDED       44-49       PUMPING       6       7       11       12	DEPTH SET AT - FE FROM TO DEPTH SET AT - FE FROM TO ID-13 27-30 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO AT A IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO AT A SOURCE DATA SS CONTRACTOR SOURCE DATA SS CONTRACTOR SS AE MARKS	ET MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC) 14-17 22-25 30-33 (0) 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Rob. River Rob. Side Rob. 51-62 PATE RECEIVED 63-63 (0) 63-63 (0) 63-63 (0) 63-64 (0) 63
2       SALTY       4       IMINERALS         20-22       1       FRESH       3       SULPHUR       24         2       SALTY       4       Iminerals       24         2       SALTY       4       Iminerals       25         20-22       1       FRESH       3       Iminerals       24         2       SALTY       4       Iminerals       25         20-33       1       FRESH       3       Iminerals       26         30-33       1       FRESH       3       Iminerals       26         2       SALTY       6       Image: Gassian and anotherals       27         30-33       1       FRESH       3       Iminerals       28         2       SALTY       6       Image: Gassian       28         31       PUMPING       Test and anotherals       28       28         2       SALTY       6       Image: Gassian       28         31       Image: Gassian       10       PUMPING RATE       25         31       Image: Gassian       10       Image: Gassian       26         32       Image: Gassian       10       Image: Gassian       26 <td></td> <td>DEPTH SET AT - FE FROM TO TO-13 27-30 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO LOT LINE INDICATE NO ATE OF INSPECTION LOCAT SOURCE STATE SEMARKS</td> <td>ET MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC) 14-17 22-25 30-33 (0) 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Rob. River Rob. Side Rob. 51-62 PATE RECEIVED 63-63 (0) 63-63 (0) 63-63 (0) 63-64 (0) 63</td>		DEPTH SET AT - FE FROM TO TO-13 27-30 LOCAT IN DIAGRAM BELOW SHOW LOT LINE INDICATE NO LOT LINE INDICATE NO ATE OF INSPECTION LOCAT SOURCE STATE SEMARKS	ET MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC) 14-17 22-25 30-33 (0) 10N OF WELL DISTANCES OF WELL FROM ROAD AND RTH BY ARROW. A Side Rob. River Rob. Side Rob. 51-62 PATE RECEIVED 63-63 (0) 63-63 (0) 63-63 (0) 63-64 (0) 63

Ministry of the	WAT	The Ontario Water Resources Act ER WELL RE	CORD
Ontario Environment	SPACES PROVIDED		
2. CHECK CORR	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT. SUPPEY ETCBLOG	LOT 1625-27
		DATE COMPL	NO OET YR 5
	MANS FIE	ELEVATION RC BASIN CODE 11	
	OG OF OVERBURDEN AND BEDRO	26 30 31 CK MATERIALS (SEE INSTRUCTIONS)	
GENERAL COLOUR MOST	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET FROM TO
BROWN TOP Soit		a lail ALLV	0 1
CRAY SUNTE	STONES C	AB SHALE	40 65
LKEY SHALF		HO SHALL	
		43 54 65 65 65 65 65 65 65 65 65 65 65 65 65	TER 34-38 LENGTH 39-40
41 WATER RECORD	INSIDE MATERIAL THICKNESS		INCHES FEET
AT - FEET RESH 3 ULPHUR 14	INCHES INCHES FR	DEPTH - FEET OM TO 13-15 2. 40	OF SCREEN
↓ 15-18 1 □ FRESH 3 □ SULPHUR <sup>19</sup> 2 □ SALTY 4 □ MINERAL	67 1 CONCRETE 100 7	7 61 PLUGGING & SEAI	CEMENT GROUT
6 5 20-23 1 □ FRESH 3 □ SULPHUR 24 2 □ SALTY 4 □ MINERAL	17:10 1 1 STEEL " 1 2 GALVANIZED 14 3 0 CONCRETE 188	35 65 10-13 TA-17 MATERIAL ANI	LEAD PACKER, ETC.)
25-28 1 _ FRESH 3 _ SULPHUR 29 2 _ SALTY 4 _ MINERAL		27-30 19-21 22-25	
30-33 1 🗇 FRESH 3 🗍 SULPHUR <sup>34</sup> 2 🗍 SALTY 4 🗍 MINERAL	CONCRETE     GPEN HOLE	26-29 30-33 60	
71 PUMPING TEST METHOD 10 PUMPING RA	ATE 11-14 DURATION OF PUMPING 15-16 17-18 GPM HOURS MINS	LOCATION OF WEL	
LEVEL PUMPING	1 D PUMPING 2 D RECOVERY	IN DIAGRAM BELOW SHOW DISTANCES OF WELL LOT LINE INDICATE NORTH BY ARROW.	FROM ROAD AND
15 1 5 1 5 1 5 1 1 5 1 1 1 1 1 1 1 1 1	$\begin{array}{c c} \text{ES} & \text{30 minutes} \\ \hline \textbf{30 minutes}$		
U     FEET     FELT       IF FLOWING,     30-41     PUMP INTAR       GIVE RATE     GPM       GPM     GPM       RECOMMENDED PUMP TYPE     RECOMMENT       Q     -     -	KE SET AT WATER AT END OF TEST 42		l l
RECOMMENDED PUMP TYPE RECOMMENDED PUMP		7 - 1	AL
50-53		750	
FINAL STATUS	S ABANDONED, INSUFFICIENT SUPPLY VELL S ABANDONED. POOR QUALITY 7 UNFINISHED	When a.	F.
OF WELL 4 C RECHARGE WEL	S 🔲 COMMERCIAL	Akie	4
WATER     2     STOCK       WATER     3     IRRIGATION       USE     4     INDUSTRIAL	6 INUNICIPAL 7 I PUBLIC SUPPLY 9 COOLING OR AIR CONDITIONING	a rea	Ŧ
57   CABLE TOOL	• • • NOT USED     • • • • BORING		٦.
METHOD 2 C ROTARY (CONV OF 3 ROTARY (REVEI	ENTIONAL) 7 DIAMOND		
DRILLING 4 D ROTARY (AIR) 5 D AIR PERCUSSIO	N	DRILLERS REMARKS:	D 63-66 80
a highton's will a	trilling tal 3602	DATA 58 CONTRACTOR 59-62 DATA RECEIVE	1185
ADDRESS HALLED OF BORFS			
NAME OF DBULER OR BORER	Long SUBMISSION DATE		000 70
Dennah. H. Mu	inton DAY 2 NO. 10 83	ة 	CSS.ES

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Ministry of	in an	TI	ne Ontario Water Resou	irces Act
Ontario			WATER WELL R	ECORD
Print only in spaces provided. Mark correct box with a checkmark, where applicable.	11	1705218	Maria Has E	
County or District	Township/Borough/City/To	wn/Village	Con block tract survey, etc.	Lot B-27
Owner's surname MOUSELED NRIDGE (HA)ETS NO	Address / Address /	× BLUD. #14 (	Date 20 completed day	10 98 month year
$\begin{bmatrix} 21 \\ 1 \end{bmatrix} \xrightarrow{V} I I I I I I I $	g Northing		C Basin Code ii iii	iv 47
LOG OF C	OVERBURDEN AND BEDF Other materials	OCK MATERIALS (see instr	eral description	Depth - feet
General colour Most common material			Fro	
Red Chty,				16
Red Shale				88
Blue Shule.			0	
10     14     15     21       41     WATER RECORD     51       Water found     Kipe of water     Inside diam	CASING & OPEN HOLD Wall Material	Depth - feet	s of opening <sup>31-33</sup> Diameter <sup>34-38</sup> : No.) inches	Length <sup>39-40</sup>
all - leet         inches           10-13         1         Fresh         3         Subhur         14         inches           10-13         1         Fresh         3         Subhur         14         10-11         1           10         2         Salty         4         Uninerals         12         10         1	Steel <sup>12</sup> Galvanized	From To Matr	rial and type Depth	at top of screen 30 41-44 feet
15-18 1 □ Fresh 3 □ Sulphur 19 2 □ Salty 6 □ Gae	Concrete Open hole Plastic	12 20 61	PLUGGING & SEALING RE	CORD
20-23 1 Gresh 3 Sulphur 24 2 Gresh 4 Minerals 3	Steel Galvanized Concrete Open hole		Annular space Aba et at - feet Material and type (Cement g	ndonment rout, bentonite, etc.)
25-21         1         Fresh         3         C         Sulphur         29        5           2         Salty         4         Minerals         24-25         1		27-30		
30-33 1 ☐ Fresh 3 ☐ Sulphur 34 80 3 4	Concrete Open hole Plastic	26-2	30-33 80	
71 Pumping test method <sup>10</sup> Pumping rate 71-14 1 □ Pump 2 Bailer GPM	Duration of pumping Hours Mins		LOCATION OF WELL	
Static level Water level end of pumping Water levels during 1	Pumping <sup>2</sup> Recovery 45 minutes 60 minutes	In diagram below s Indicate north by ar	now distances of well from road an row.	d lot line.
If flowing give rate     38-41     Pump intake set at       GPM     GPM       Recommended pump type     generation	32-34 S feet S feet	M S	oft. A	8
If flowing give rate 38-41 Pump intake set at GPM feet 6445	Water at end of test	th		
Shallow Deep	Recommended 46-49 pump rate 2 GPM	E.		
FINAL SPATUS OF WELL 54 1 Water supply 5 Abandoned, insufficient st 4 Abandoned agent auditive	upply <sup>9</sup> Unfinished		1x 1 ·	
2       Observation well       6       Abandoned, poor quality         3       Test hole       7       Abandoned (Other)         4       Recharge well       8       Dewatering	10 🗋 Replacement well	15 Side	Rd	
S5-56 USE 55-56 USE 50 Commercial		15 2100	-/\4.	
2     Stock     6     Municipal       3     Irrigation     7     Public supply       4     Industrial     8     Cooling & air conditioning	t 10 Dither			
METHOD OP CONSTRUCTION 57		4	·•	
Cable tool     5     Air percussion       2     Rotary (conventional)     6     Boring       3     Rotary (reverse)     7     Diamond       4     Rotary (air)     8     Jetting	9 Driving 10 Digging 11 Other		19	7379
Name of Went Antractor	Well Contractor's Licence No.	NO Date of inspection	CCC 5 61 59-62 Date received Date received DCT 2	7 1998 80
Address 156 Centry Fulle Name of Well Technician	Well Technician's Licence No			
Signature of Technician/Contractor	T-0295 Submission date		C	SS. ES9
from	day mo yr		0506	(07/94) Front Form 9

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			IISTRY OF THE E			, ng ting ting ting	ADIA	{
(R) and	P \\		Ontario Water	A CONTRACTOR OF A CONTRACTOR OF	- <b>-</b>		- ACTT	IL
	VV/	ATER	VVEL				-+ " /	17-
Ontario	1. PRINT ONLY IN 2. CHECK 🕅 CORE	SPACES PROVIDED RECT BOX WHERE APPLICABLE		17016	90 -	17006	HS E	
COUNTY OR DISTRICT	FERIN	TOWNSHIP, BOROUGH.	CITY, TOWN, VILLAGE		CON., BI	OCK. TRACT. SURVEY.	ETC.	LOT 25-27
$\square D (/ FF)$	~ E \\ ] ]V	MULM					DATE COMPLETED	06-14
		<u>R</u>	I MANSF	ELEVATION	RC. B	ASIN CODE		YR YR
T1019A0	11 21202						G 09, 19	77 322
ļ	MOST	DG OF OVERBURD	EN AND BEDRO					DEPTH - FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER	MATERIALS		GENERAL	DESCRIPTION	FRC	,
BROWN	TOP Soil	SHA	, <u>E</u>	C	Q. 1 mA DI	LY SHA	$\frac{C}{1/E}$	12
RED	SHALE	SHM				YERS	/2	
11	JAAR II	BLUE LA.	VEPS	J7 A 1			6	
11		DAVE AT	r Z A J					
	·							
	602       0.0.1	27051771 00	<u>657177473</u>					
10		51 CASING	& OPEN HOLE			OF OPENING 3	1-33 DIAMETER	75 80 14-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM. MATERIAL	WALL	DEPTH - FEET		AL AND TYPE	DEPTH T	CHES FEET O TOP 41-44 80
	FRESH 3 🗍 SULPHUR 14 SALTY 4 🗋 MINERAL	INCHES	12	13-16			OF SCRE	EN
00.95	FRESH $3 \square$ SULPHUR $19$ SALTY $4 \square$ MINERAL	CONCRETI	E *{0 /	0017	61	PLUGGING	& SEALING I	RECORD
D// 720-23 1	FRESH <sup>3</sup> SULPHUR <sup>24</sup>	17-18 1 🗆 STEEL 2 🗌 GALVANIZ		20-23	FROM	TO	ATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
25-28 1	] SALTY <sup>4</sup>   MINERAL ] FRESH 3   SULPHUR <sup>29</sup>			7 011 1	10-13			
2	] SALTY 4 [] MINERAL ] FRESH 3 [] SULPHUR <sup>34</sup> 8	1 🗆 STEEL 2 🗌 GALVANIZ 3 🗌 CONCRET	ED		26-29			
	] SALTY 4 🗋 MINERAL	4 OPEN HO			] [			
TI DUMPING TEST MET		GPM. DURATION	0F PUMPING 15-16 00 17-18 HOURS 00 MINS			CATION O		
STATIC	WATER LEVEL 25 END OF WATER PUMPING	I EVELC DURING	PUMPING RECOVERY		LINE. INDIC	V SHOW DISTANCES	OF WELL FROM F	IOAD AND
ES <b>D</b> 28 ISI	085 <sup>22-24</sup>	30 MINUTES 45 MIN 28 08 579-31 08	00 MINUTES		- 	a N		
	FEET OS S	EEI FEEI	FEET FEET END OF TEST 42	lotib	) 1	L 		
S IF LOWING GIVE RATE REFORMMENDED PU	GPM	FEET	LEAR 2 CLOUDY		- 0	en ist		
G. SHALLOW		43-45 /00 FEET	<b>дура</b> дрм.	6	+	יש אורר	72.51	F
	54 4		INSUFFICIENT SUPPLY		י א ר			~
STATUS	3 I TEST HOLE			w -			· ~	
OF WELL	4 C RECHARGE WELL	5 COMMERCIAL			tak.		RT	
WATER	2 🗌 STOCK 3 🔲 IRRIGATION	6 🗍 MUNICIPAL 7 🗍 PUBLIC SUPPLY			T	Cont	2	ONTI
USE ()	4 🗌 INDUSTRIAL	B 🗌 COOLING OR AIR C 9 🗍	CONDITIONING NOT USED	Cor		Convi	A 1.R	
метнор	57 1 CABLE TOOL	6 D BORI NTIONAL) 7 D DIAM					2	
OF L	2 D ROTARY (CONVE 3 ROTARY (REVERS 4 ROTARY (AIR)		ING			2		
DRILLING	5 AIR PERCUSSION			DRILLERS REMA				
Hen Hen	1 19T al "	Dons	LICENCE NUMBER 3601	DATA SOURCE O DATE OF INS	58 CO	3602	DATE RECEIVED	0674
HOLDRESS ADDRESS	Hanne 1	Augu			PETION	INSPECTOR		J.B.
	ER OF BORER	the	LICENCE NUMBER	D REMARKS:	,,		S.S8	P KO'
NAME OF DIVIL	CUNTRACTOR	SUBMISSION DA	1 TH	OFFICE		US		WI
Tenn	dh.M. hig	new DAY 25	MO. 6 YR	<b>0</b>				FORM 7 07-091
MINISTRY	OF THE ENVI	KONMENT CO	РТ <u>— — — — — — — — — — — — — — — — — — —</u>					

Ministry of		Th	e Ontario Water Resour	
Ontario Environment and Energy			WATER WELL RE	CORD
Print only in spaces provided. Mark correct box with a checkmark, where applica	able. 11	1705197	17006 Municipality His E	22 23 24
County or District	Township/Borough/City/	Fown/Village	Con block tract survey, etc. I	ol 25-27
	Address ALT FILEIE	BLUD. # H. CONO	URD Date completed day	month year
21 1 2 M 10	Northing			
	OF OVERBURDEN AND BED	ROCK MATERIALS (see instrue	ctions)	Depth - feet
General colour Most common material	Other materials	Gener	ral description From	
Red clay.				15
Red shale.			15	- 74
<b>31</b>   , , ,     ,   ,   ,   ,   , , ,     ,	<u> </u>			
				75_80
41 WATER RECORD 51 Water found Kind of water diam	CASING & OPEN HOLI Wall Material thickness	Depth - feet		ngth <sup>39-40</sup> feet
at - feel 10-13 1 Gresh 3 Sulphur 14 2 Salty 6 Gas	inches	From To 🛄		op of screen 30
I     Catty     6     Gas       I     Fresh     3     Sulphur     19       2     Salty     6     Gas	<ul> <li>a Concrete</li> <li>d Open hole</li> <li>F Plastic</li> </ul>		PLUGGING & SEALING RECO	feet
20-23 1 G Fresh 3 G Sulphur 24	1 🗌 Steel 19 2 🗌 Galvanized 3 🗋 Concrete	20-23	Annular space Abandoi	nment
2         Saity         4         Minerals           6         Gas         Gas           2-28         1         Fresh         3         Sulphur           2         Saity         4         Minerals           2         Saity         4         Minerals           2         Saity         4         Minerals	4  Open hole 5  Plastic	From 10-13	To Material and type (Cement grout, 14-17	bentonite, etc.)
30-33 1 Eresh 3 Eviphur 34 60	1 □ Steel <sup>26</sup> 2 □ Galvanized     3 □ Concrete     4 □ Open hole	27-30 18-21 26-29	22-25 30-33 B0	
2 🗌 Saity e 🗆 Gas	5 🗌 Plastic			
71 Pumping test method <sup>10</sup> Pumping rate <sup>11-</sup> 1 □ Pump 2 Pailer GP Water level <sup>25</sup>	1	In diagram below show	OCATION OF WELL w distances of well from road and lo	t line.
end of pumping	I ☐ Pumping         2 □         Recovery           45 minutes         60 minutes           -31         32-34         35-37	Indicate north by arrow	N.	
$\mathbb{H}$ $\langle \langle   1 \rho   1 \rho   1 \rho \rangle$	eet 70 feet 70 feet Water at end of test 72	h.	15000	
GPM fe Recommended pump type Recommended 43-	eet Clear Cloudy <sup>45</sup> Recommended <sup>46-49</sup>	17	A A	•
□ Shallow □ Deep	et GPM	6 in	tu.	
FINAL STATUS OF WELL 54 1 Water supply 5 Abandoned, insufficier 2 Observation well 6 Abandoned, poor qual		P		
2       Observation well       6       Abandoned, poor qual         3       Test hole       7       Abandoned (Other)         4       Recharge well       8       Dewatering	ity 10 🗌 Replacement well		a series and the	n Na sa ka
WATER USE 55-56 1 D Domestic 5 Commercial	9 🗌 Not used		D I	
1     1 <td>10 🗌 Other</td> <td>15 Silo</td> <td>/\4</td> <td></td>	10 🗌 Other	15 Silo	/\4	
METHOD OF CONSTRUCTION 57 1 D Cable tool 5 Air percussion 2 Rotary (conventional) 6 Boring 3 Rotary (reverse) 7 Diamond 4 Rotary (air) 8 Jetting	9 ☐ Driving 10 ☐ Digging 11 ☐ Other	Goon	191	277
Name of Weighontrackor	Well Contractor's Licence No.	Data 58 Contractor source / Date of inspection	561 Date received SEP 2 1	<sup>63-68</sup> <sup>80</sup>
Name and ell Technician	Well Technician's Licence No. TO248 Submission date		CSS.	99
12 M Cary	day mo yr	2	0506 /07/0	) Front Form 9

MINISTER OF ENVIRONM =N I JPY

Ministry of Environment and Energy		The	e Ontario Water Resources Act WATER WELL RECORD
Ontario and Energy Print only in spaces provided. Mark correct box with a checkmark, where applicable	<b>e.</b> <u>11</u>	1705198	17006 Municipality P: 1 15 15 15 15 15 15 15 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10
County or District	Township/Borough/City/T Address	own/Village	Con block tract survey, etc. Lot 25-27 Date // 0 4
$\begin{bmatrix} 21 \\ 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 10 \\ 12 \end{bmatrix}$	ALTEDGELEY Northing	$\frac{1}{1} \underbrace{\begin{array}{c} \text{BLUD. #14} \\ \text{RC} \\ \text{Elevation} \\ \text{Elevation} \\ \text{RC} \\ \text{Elevation} \\ \text{RC} \\ \text{RC} \\ \text{Schwarz} \\ $	Basin Code II / III / Vear
		ROCK MATERIALS (see instruc	Denth – feet
General colour Most common material	Other materials	Gener	al description From To
Red and			1 16
Red Shale			16 65
N			
41 WATER RECORD 51	CASING & OPEN HOLE		65 75 80 f opening <sup>31-33</sup> Diameter <sup>34-38</sup> Length <sup>39-40</sup> 5.)
at - feet diam inches	Material thickness inches	From To	I and type Depth at top of screen 30
6 5 <sup>2</sup> Salty <sup>4</sup> Minerals Gas	Galvanized     Goncrete     Open hole		feet
2 Galty 6 Gas	i □ Plastic 19	0 2.0	PLUGGING & SEALING RECORD
2 Gaty 6 Gas	Galvanized   Goncrete   Open hole	Depth set a From	t - feet To Material and type (Cement grout, bentonite, etc.)
2 Gas 24-25 1		27-30	/ (4-17 / 22-25
<sup>30-33</sup> <sup>1</sup> □ Fresh <sup>3</sup> □ Sulphur <sup>34</sup> <sup>60</sup> <sup>3</sup>	Concrete     Open hole     Plastic	26-29	30-33 60
Pumping test method 10 Pumping rate / 11-14	Duration of pumping 17-18		DCATION OF WELL
1     □     Pump     2     Usailer     Usailer     GPM       Static level     Water level     25     Water levels during     1     1	umping 2 🗆 Recovery		v distances of well from road and lot line.
	45 minutes 32-34 60 minutes 35-37		
If flowing give rate 38-41 Pump intake set at GPM feet Recommended pump type Recommended 43-45	Water at end of test 42		IN ISP at
GPM feet Recommended pump type Recommended 43-45 pump setting	Clear Cloudy Recommended 46-49 pump rate	4	
Shailow Deep 60 feet	И дрм	e.	
FINAL STATUS OF WELL 54 1 Water supply 5 Abandoned, insufficient so	upply <sup>9</sup> 🔲 Unfinished	2	
2     Observation well     6     Abandoned, poor quality       3     Test hole     7     Abandoned (Other)       4     Recharge well     8     Dewatering	10 🗌 🛱 🖓 Peplacement well		, the second stranger
WATER USE 55-56		15 Side	<u>176</u>
Comestic     Sock     Generation     Commercial     Stock     Generation     Commercial     Development     Commercial     Commercial     Development     Commercial     Commercial	9 🗌 Not used 10 🗍 Other		
4 🗆 Industrial 8 🗋 Cooling & air conditioning	· · · · · · · · · · · · · · · · · · ·		
METHOD OF CONSTRUCTION 57 1 Cable tool 5 Cable tool 6 Darrouge Boring			4.04.07.0
<ul> <li>a Rotary (reverse)</li> <li>7 Diamond</li> <li>4 Rotary (air)</li> <li>8 Jetting</li> </ul>	U Cither	UT	191276
Name of Well Contractor	Well Contractor's Licence No.	Data 58 Contractor	Date received 63-68 80
Address m.	12561		5 6 L   SEP 2   1998
Name of year Technician	Well Technician's Licence No.	Remarks	
Signature of Technician/Contractor	T-0248 Submission date	Remarks L S Z	CSS. S9X
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Ministry of Environment and Energy			Ontario Water Resources Act WATER WELL RECORD
Print only in spaces provided. Mark correct box with a checkmark, where applicable.		1705199	$\frac{17006}{Municipality} + \frac{Con.}{HS} = 06$
County or Phytrict	Township/Borough/City/To	wn/Village	Cop block tract survey, etc. Lot 25.27
	Address ALTERCELEY	Run #14 Control	Date completed day month year
21	Northing	PC Elevation RC	Basin Code II pi iv
		Constant	ons) description
General colour Most common material	Other materials		From To
Red Shale			17 55
7 2			
			<u>╷╎┊╷╢┎╎╻</u> ╎╷╢╷╖╷╵╟╢╷╵╻┊╽╢
41 WATER RECORD 51 Inside	CASING & OPEN HOLE		
at - feet diam inches	Material thickness inches	Depth - feet     Z     (Slot No.)       From     To     III     III       13     16     III     III	inches feet und type Depth at top of screen
2 Sarry 6 Gas	Galvanized Concrete Open hole	r 3 20	feet
2 U Saity 6 Gas 17-18 1 20 23 1 Fresh 3 Ulphur 24 2	Steel <sup>19</sup> Galvanized	20,21	PLUGGING & SEALING RECORD Annular space  Abandonment
$2 \square \operatorname{Gas} 4 \square$	Concrete Open hole Plastic	From 10-13	To Material and type (Cement grout, bentonite, etc.)
30-33 Eroch 3 Sulphur <sup>34</sup> <sup>50</sup> 3	Galvanized Concrete	27-30	22-25
2 Gaity 4 Minerais 4 Gas 5	Open hole Plastic	26.29	S0-33 B0
71 Bump Bailer GPM	ration of pumping 15-16 12-18 Hours Mins		CATION OF WELL distances of well from road and lot line.
Static level end of pumping Water levels during	minutes 60 minutes	Indicate north by arrow.	100 ft. TN
5 30 feet 5 Fleet S Ofeet 5 Fleet	<b>52</b> <sup>32-34</sup> <b>52</b> <sup>35-37</sup> ater at end of test 42	1-	$\rightarrow$
GPM feet Recommended pump type Recommended 43.45 Re	Clear Cloudy	E.	· .
Deep pump setting pump set	mp rate GPM	ne	Y A
FINAL STATUS OF WELL 54	y 🤋 🗋 Unfinished		2
2     Observation well     6     Abandoned, poor quality       3     Test hole     7     Abandoned (Other)       4     Recharge well     8     Dewatering	10 🛛 Replacement well		D.R.P.
WATER USE 55-56 Domestic 5 Commercial	9 🗌 Not used	15 5-	
2 □ Stock 6 □ Municipal 3 □ Irrigation 7 □ Public supply 4 □ Industrial 6 □ Cooling & air conditioning	10 D Other		
Cable tool Air percussion Cable tool Air pe	9 Driving 10 Digging 11 D Other	95	170073
Rotary (air) 8 🗍 Jetting			178273
Name of Water Intractor	Well Contractor's Licence No.	Data 58 Contractor	561 <sup>50-62</sup> Date received 53-68 80
Address 156 Hours Mills			inspector
Name of Wey Technician	Well Technician's Licence No.	Remarks SINI NW	css 🍬 🗡
Signature of Technician/Contractor	Submission date day mo yr		
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Ontario Ministry of Environme and Energy	ent			The Ontario Water WATER WEL	
Print only in space	es provided. with a checkmark, where applic	able. [11]	1705200	Municipality 17066	<u>5</u> , 06
County or Districy	). ff	Township/Borough/City/I	-	Con block tract surv	ey, etc. Lot 25-21
//	GTI.	Address	ur D #u A	Date	1 9 18 9
21	M 10 1		RC Elevation	RC Basin Code ii	day month year
1		2 17 18 DF OVERBURDEN AND BED	ROCK MATERIALS (see ins	30 31	47
General colour	Most common material	Other materials	G	eneral description	Depth - feet From To
Red	Shale				10 90
Blue.	Shale				90 95
· · ·					
31		 			
32 10 14 1					
	R RECORD 51 Kind of water diam	CASING & OPEN HOLE Wall Material thickness		zes of opening <sup>31-33</sup> Diameter lot No.)	
	Fresh <sup>3</sup> Sulphur <sup>14</sup> inches	I I I Steel 12     Galvanized	From To Har Ma	aterial and type	Depth at top of screen 41-44
95 2 0 3	Fresh <sup>3</sup> Sulphur <sup>19</sup> <sup>4</sup> Minerals Salty <sup>6</sup> Gas	3 Concrete 4 Open hole 5 Plastic 188	0 20 61	PLUGGING & SEALI	feet NG RECORD
	Fresh <sup>3</sup> □ Sulphur <sup>24</sup> 4  □ Minerals Salty <sub>6</sub> □ Gas	Concrete     Open hole		Annular space     set at – feet     To     Material and type (C	Abandonment  ement grout, bentonite, etc.)
2 🗌 5		5         Plastic           1         Steel         26           2         Galvanized         1	27-30	13 14-17	
30-33   []   2 [] 5	Fresh <sup>3</sup> Dulphur <sup>34</sup> <sup>60</sup> 4 Minerals Saity 6 Gas	<ul> <li>Concrete</li> <li>Open hole</li> <li>Plastic</li> </ul>	26-	29 30-33 80	
1 Pumping test meth 1 D Pump 2 D		15-16 17-18	4	LOCATION OF WELL	
Static level end	ter level 25 of pumping Water levels during 1 22-24 15 minutes 30 minutes	Pumping 2 Recovery	In diagram below s Indicate north by a	show distances of well from re arrow.	bad and lot line.
19-21 SO feet //	1 feet 15 feet 90 fe		1 100	FT 3 /X	
If flowing give rate	GPM fe	Water at end of test 42 et Clear Cloudy 45 Recommended 46-49			
	Deep pump setting 92 te	et GPM	0	SA	
FINAL, STATUS	y 5 🗋 Abandoned, insufficier	nt supply <sup>9</sup> Unfinished ity <sup>10</sup> Replacement well	15 5	ide Ra	
<ul> <li><sup>2</sup> Doservation</li> <li><sup>3</sup> Test hole</li> <li><sup>4</sup> Recharge we</li> </ul>	7 Abandoned (Other)				e an
VATER USE	55-56 5 🗌 Commercial 6 🗌 Municipal				
<ul> <li>Irrigation</li> <li>Industrial</li> </ul>	<ul> <li>Information</li> <li>Public supply</li> <li>Cooling &amp; air condition</li> </ul>	10 🗌 Other			
METHOD OF CO	5 🗋 Air percussion	9 🗆 Driving			
<ul> <li>2 Rotary (con:</li> <li>3 Rotary (reve</li> <li>4 Rotary (air)</li> </ul>	ventional) 6 Boring erse) 7 Diamond 8 Jetting	<sup>10</sup> □ Digging 11 □ Other	07		191271
Name of Well Contract	por 1	Well Contractor's Licence No.	Data 58 Contra source	acctor 59-62 Date rec	
Address	MI St VI	in Sol	Data Contra Source	Inspector	<u>2 1998</u>
Name of Well Technici	ian Ula	Well Technician's Licence No.			
Signature of Technicia	n/Contractor	Submission date day mo yr		CS	SS.\\S9
1	¥	into yi	••••••••••••••••••••••••••••••••••••••	<u> </u>	0506 (07/94) Front Form 9

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		Ministry of the Enviror		g Number (Plac A <u>O</u> 4	1570	inf number below)	Regulat	tion 903 Onta	Well F	Record
Instructions	s for Completir	ng Form		A 04	1570	÷			page	of
<ul> <li>For use</li> <li>All Section</li> <li>Question</li> <li>All metric</li> </ul>	in the <b>Province</b> ons <b>must</b> be cor ns regarding cor	of Ontario npleted in f npleting this is shall be	only. This docum ull to avoid delays application can l <b>reported to 1/10</b> ink only.	s in processir be directed to	ng. Further the Water	instructions an Well Manage	d explanations ment Coordina Minis	are available	on the back of 235-6203.	of this form.
Well Owner	's Information	and Loca	tion of Well Info	ormation	MUN	C	ON		LOT	
			n n					10		
RR#/Street Nu	mber/Name	A	-M C		City/Town/V	illage	Site	Compartmen	t/Block/Tract e	etc.
GPS Reading	NAD Zor 837	2 575		85804	Unit Make/M		e of Operation:	Undifferenti		eraged
General Colour	Most common		Other Ma			Genera	al Description		Depth	Metres
Rel	e la u			· · · · ·					From	
Rod	chala	,	$\gamma = \frac{1}{2} \frac{d^2}{d^2} + \frac{1}{2} \frac{d^2}{d$						24	24
Aea	Smare	And Address of Street S		······						5-4
	· · · · · · · · · · · · · · · · · · ·					<i>4</i> 1				· · · · · · · · · · · · · · · · · · ·
				·····						
		· · · · · · · · · · · · · · · · · · ·				······				
U	Diameter		<u> </u>							<u> </u>
	etres Diameter		Cons	struction Reco		<b>.</b>	Pumping test	Test of W		Recovery
	To Centimetres	Inside diam	Material	Wall thickness	Depth	Metres	PUM	🧿 🛛 Time	Water Level Tim	e Water Level
02	0 8	centimetres		centimetres	From	То	Pump intake s		Metres mir	n Metres
+7 8	-4 6.		<b>_</b>	Casing		· · · · · · · · · · · · · · · · · · ·	(metres)	Level	41	
	· · ·		Steel Fibreglass				Pumping rate (litres/min)		45 1	752
	r Record		Plastic Concrete	158	+3	26.	Duration of pu	mping 2	4(a 2	72
Water found atMetres /	Kind of Water		Steel Fibreglass	12-			Ling hrs +	min	102	
	Fresh Sulphur	[	Plastic Concrete	1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -		in the second second second	Final water lev	metres	48 3	70,3
Gas	Salty Minerals		Galvanized				Recommended		52 4	685
(manual 1997)	Fresh Sulphur		Steel Fibreglass				type. Shallow Recommended			
Gas	Salty Minerals	· [	Galvanized				depth.		<u>60</u> 5	651
	Fresh Sulphur			Screen			Recommended	pump 10	71.5 10	56.
Gas	Salty Minerals	Outside diam	Steel Fibreglass	Slot No.			rate. (litres/mi		77.2 15	52.6
After test of well	l yield, water was	[	Plastic Concrete				(litres/mi	n) 25	79.2 20 79.2 25	
Clear and se	and the second		Galvanized				If pumping disc ued, give reasc	ontin- 30 n.	79.2 30	
Other, specif	- <u>\</u>			Casing or Scre	en			40	79.2 40	
Chlorinated X	Yes 🗌 No		Open hole	j.	26	84.	A CARACTER STATE	60	79 2 60	
· · · · · · · · · · · · · · · · · · ·	Plugging and Se	aling Reco	rd 🕅 Annula	arspace 🔲 At	andonment		Loc	ation of Wel	I	· · · · · · · · · · · · · · · · · · ·
Depth set at - Me From T	etres Material and typ	be (bentonite sl	urry, neat cement slurry		e Placed metres)	In diagram below Indicate north by	w show distances	of well from roa	d, lot line, and b	uilding.
02		Twite		6.	·····	indicate north by	y anow.	1.		
			J.	25		1	/	N		
			-				SD	RD		
*							ZP	.coIt		•
	<u></u>		×* 19 <sup>58</sup> *			1.13	V	12-1		
Cable Tool	Rotary (		Construction		Digging	11				
Rotary (conve			Jetting		Other	N				
Rotary (revers	se) Boring		Driving			1.1.				
	Industri	Wate	r Use		Other	250	<i>µ</i> .	a and		
Stock	Comme	ercial	🗌 Not used				-		<u></u>	
Irrigation	Mùnicip	Final Stat		air conditioning		Audit No. Z	46470	Date Well	Completed	04129
Water Supply	Recharge w		Unfinished	Abando	oned, (Other)	Was the well ov	vner's information			MM DD
Observation v Test Hole		insufficient su	pply Dewatering			package delivere	ed? XYes		2006	6412
	Well Con		hnician Information	on	× 1.		Minis	stry Use Only	4	
Name of Well C	eu		W	ell Contractor's L	icence No.	Data Source		Contracto	561	
Bysiness Addres	s (street name, numb					Date Received	YYYY MM		pection YYYY	MM DD
122	helbrun		116	ell Technician's l	icënce No	MAY 1 (	2006		rd Number	
1 Sau		mar name)		ell Technician's L		rtemarks		vveli Reco	na mumber	
Signature of Tec	hnician/Contractor	a de la composición de la comp	Da	ate Submitted YYYY	MM DD					
0506E (09/03)		Cont	ractor's Copy 🔲 M	linistry's Copy	Well Ow	ner's Copy 📋		Cette formule	est disponible	en français

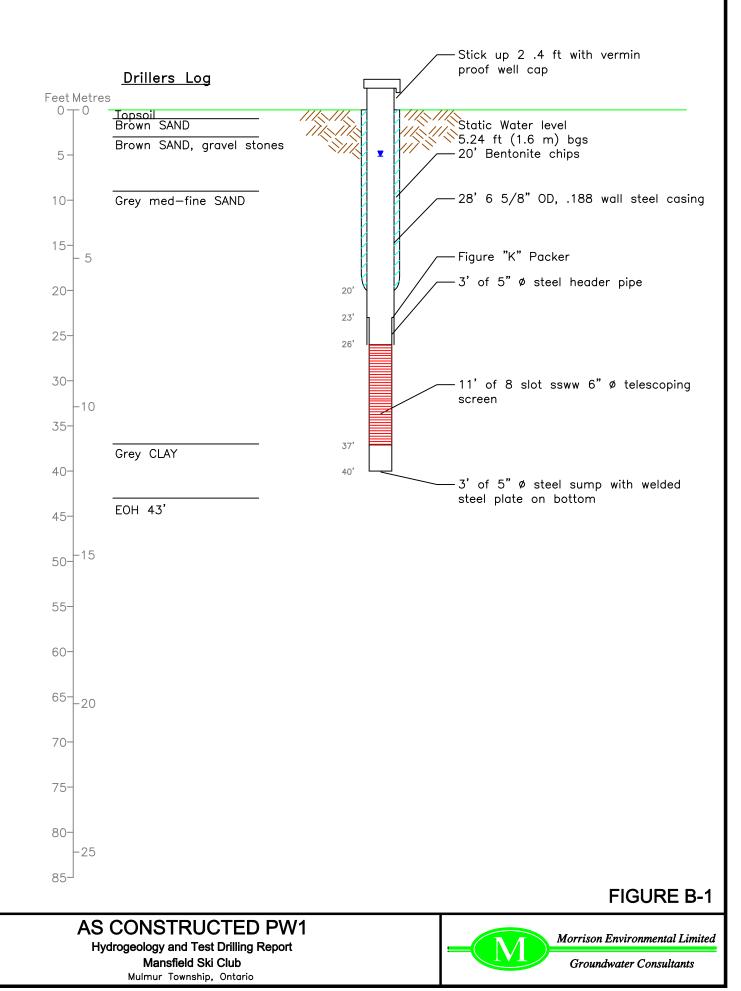
### APPENDIX B

As Constructed PW1

Water Well Record

**Grain Size Curves** 

# AS CONSTRUCTED PW1

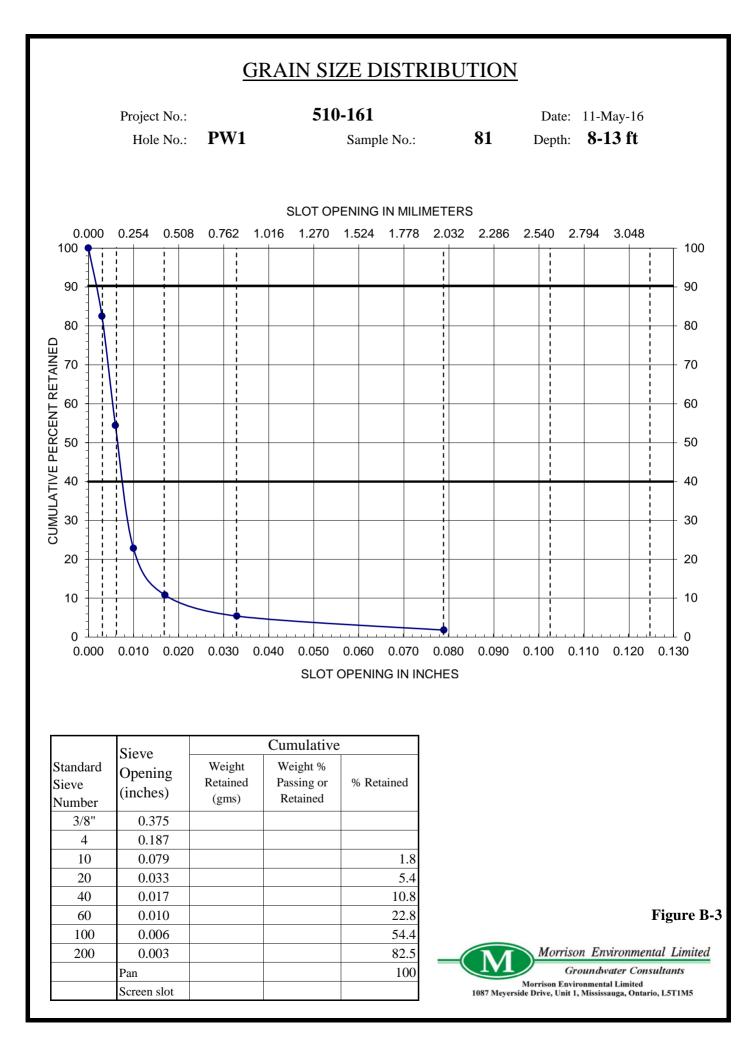


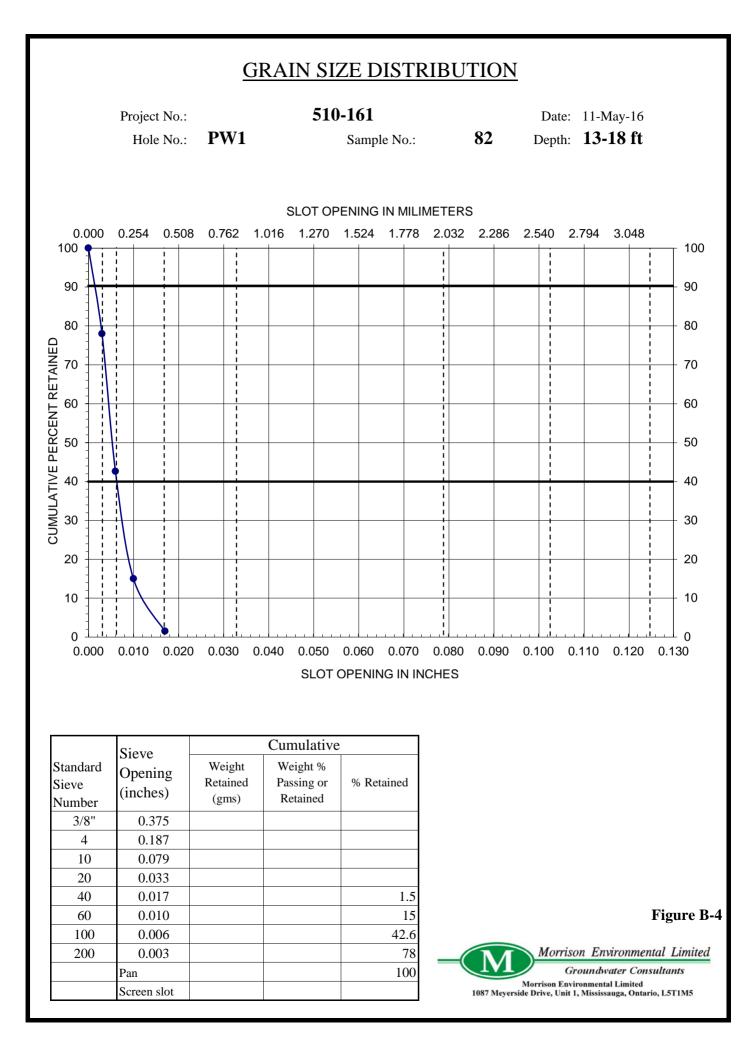
	ents recorded in:	letric 🕅	mperial	T	ag#: A185	777	Regulation	1 303 01	<i>ntario Wat</i> Page	er Kes	of
	ner's Information				-5		1		Fage_		
st Name	L	ast Name C	Organization	: Chark	0	E-mail Address					Constructed ell Owner
illing Add	dress (Street Number/Nar P213 15	ne) SR	The Up	M	lunicipality	Province	Postal Code	Т	elephone N	lo. (inc.	area code)
ell Loca	ation										
dress of	Well Location (Street Nur 48200		R	T	ownship Malmer	r	Lot 16	(	Concession	EI	HS
- T	trict/Municipality			C	ity/Town/Village		,,,	Provinc			I Code
/ Coord	inates Zone Easting		orthing		lunicipal Plan and Subl	ot Number		Other	P	421	
	8 3 1 7 5 7 5 3 en and Bedrock Materia	als/Abando	894 nment Sea	100	rd (see instructions on the	e back of this form)					
neral C	olour Most Comn	non Material		Oth	er Materials	Gene	eral Description	1		From	pth ( <i>m/ft</i> ) To
uwn wwn	Jopsvil									0	3
- UNI				conel	Stones					3	9
in	nod fine	Sance			577775					9	37
ny	Clay									37	43
	/										
Denth C	et at (m/ft)	Annular Type of Sea			Volume Placed	After test of well yield,	Results of We		d Testing aw Down		Recovery
From	То	(Material an			(m³/ft³)	Clear and sand					Water Level (m/ft)
0	20 Bent	mile	bout			If pumping discontinu	ed, give reason:	Static	7.15		
20	39 Natu	ral Son	of Huk					1	11.4	1	8.65
						Pump intake set at (		2	R.15	2	7.93
Met	hod of Construction			Well Us	e	Pumping rate (I/min		3	12.4	3	7.67
Cable To Rotary (	conventional)		blic	Comme							
		Do	mestic			Duration of pumping		4	12.5	4	7.56
Rotary (I	Reverse) Driving	Liv		Municipa	al Dewatering	Duration of pumping	min	5	12.6	5	7.56
Rotary (I Boring Air percu	Reverse) Driving Digging ussion		estock gation lustrial	Municipa	al Dewatering	Duration of pumping 1 hrs + 0 Final water level end 12.	min of pumping (m/R) 87	5	12.6	5	7.56 7,45 7.3
Rotary (I Boring Air percu Other, s	Reverse) Driving Digging ussion pecify Construction R	Liv	estock gation lustrial her, <i>specify</i> _	Municipa M Test Hol	al Dewatering le Monitoring & Air Conditioning Status of Well	Duration of pumping hrs + 0 Final water level end 12. If flowing give rate ( <i>l</i> )	min of pumping (m/R) 87 /min / GPM)	5	12.6	5	7.56 7,45 7.3
Rotary (I Boring Air percu Other, s <sub>i</sub> Inside	Reverse) Driving Digging Ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Liv Liv Dirrig Ind Oth ecord - Cas Wall Thickness	estock gation lustrial her, <i>specify</i> _	Municipa	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well	Duration of pumping 1 hrs + 0 Final water level end 12.	min of pumping (m/R) 87 /min / GPM)	5 10 15	12.6 12.75 12.81 12.84	5 10 15	7.56 7.45 7.3
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Rotary (I Boring Air percu Other, s <sub>i</sub> Inside	Reverse) Driving Digging Ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Liv Drive Cord - Cas Wall Thickness (cm/in)	estock gation lustrial her, <i>specify</i> _ <b>sing</b> Depth From -2	Municipa Test Hol Cooling ( <i>m/ft</i> ) To <b>2.6</b>	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Ø Test Hole Recharge Well Observation and/or	Duration of pumping <u>1</u> hrs + <u>0</u> Final water level and <u>12.</u> If flowing give rate ( <i>b</i> Recommended pum Recommended pum	min of pumping (m/tt) <b>37</b> //min / GPM) np depth (m/tt) np rate	5 10 15 20 25	12.6 12.75 12.81 12.84	5 10 15 20 25	7.56 7.45 7.3
Rotary (I Boring Air percu Other, s <sub>i</sub> nside ameter	Reverse) Driving Digging Ussion pecify Construction R Open Hole OR Material (Galvanized, Fibreglass,	Liv Liv Irrig Ind Ott ecord - Cas Wall Thickness (cm/in)	estock gation lustrial ner, <i>specify</i> _ sing Depth From	Municipa Test Hol Cooling	al Dewatering le Monitoring & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Mell Alteration	Duration of pumping / hrs + O Final water level end / 2. If flowing give rate ( <i>b</i> Recommended pum ( <i>b</i> min / GPM) Well production ( <i>b</i> min	min of pumping (m/tt) <b>37</b> //min / GPM) np depth (m/tt) np rate	5 10 15 20 25 30	12.6 12.75 12.81 12.84	5 10 15 20 25 30	7.56 7.45 7.3
Rotary (I Boring Air percu Other, s <sub>i</sub> nside ameter	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvarized, Fibreglass, Concrete, Plastic, Steel) Sfrc/ Sfrc/	Liv Dirig Otto ecord - Case Wall Thickness (cm/in) , 128 , 128	estock gation lustrial ner, specify_ sing Depth From -2 34	Municipa Test Hol Cooling ( <i>m/ft</i> ) To <b>2.6</b>	al Dewatering le Dewatering & Air Conditioning Status of Well Water Supply Replacement Well Q Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned,	Duration of pumping hrs+	min of pumping (m/R) y 7 //min / GPM) np depth (m/ft) np rate in / GPM)	5 10 15 20 25 30 40 50 60	2.6  2.75  2.81  2.84  2.84  2.84  2.86  2.86  2.86	5 10 15 20 25 30 40	7.56
Rotary (I Boring Air percu Dther, s <sub>i</sub> nside ameter cm/in)	Reverse) Driving Digging ussion pecify Construction R Open Hole OR Material (Galvarizer, Fibreglass, Concrete, Plastic, Steel) Sfcc/ Sfcc/ Construction R	Liv Liv Irrig Irrig Ind Other Wall Thickness (m/in) , 128 , 128 ecord - Screenee	estock gation tustrial ner, specify Sing Depth From -2 34	Municipa Test Hol Cooling ( <i>m/ft</i> ) To <b>2.6</b>	al Dewatering le Dewatering & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Alteration (Construction) Abandoned, Insufficient Supply Water Quality	Duration of pumping hrs + Final water level end  If flowing give rate (// Recommended pum (//min / GPM) Well production (//mi Disinfected?	min of pumping (m/R) <b>P</b> 7 (min / GPM) np depth (m/R) np rate in / GPM) Map of W	5 10 15 20 25 30 40 50 60	2.6  2.75  2.81  2.84  2.84  2.84  2.84  2.86  2.86  2.86	<ul> <li>5</li> <li>10</li> <li>15</li> <li>20</li> <li>25</li> <li>30</li> <li>40</li> <li>50</li> <li>60</li> </ul>	7.56 7.45 7.3
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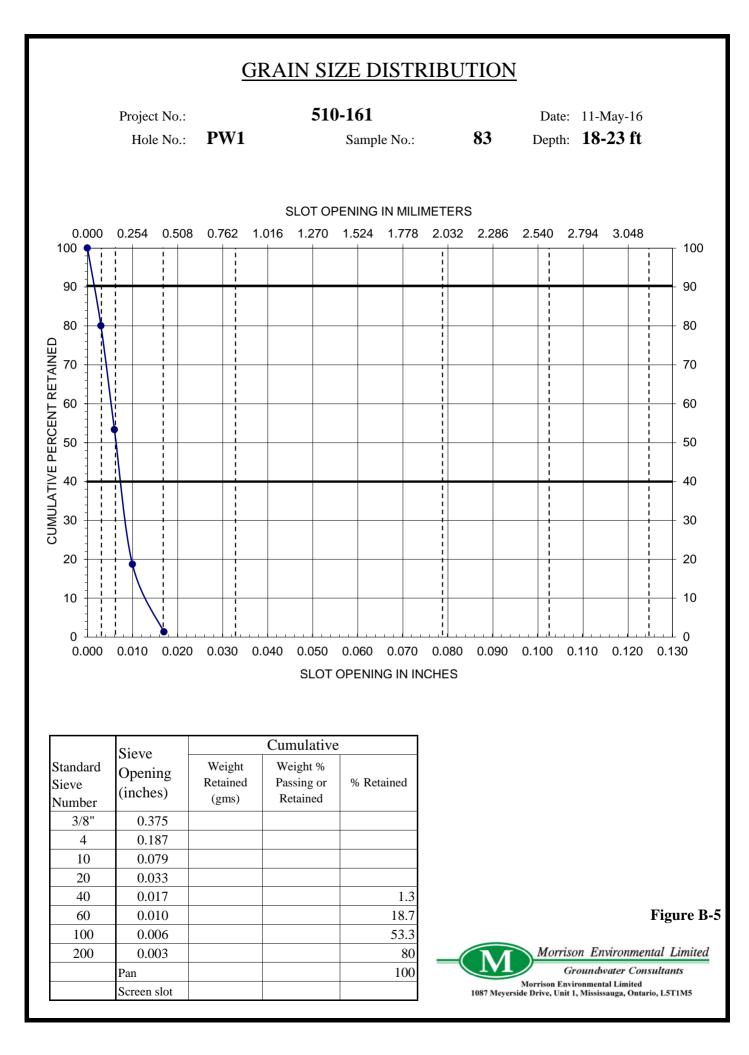


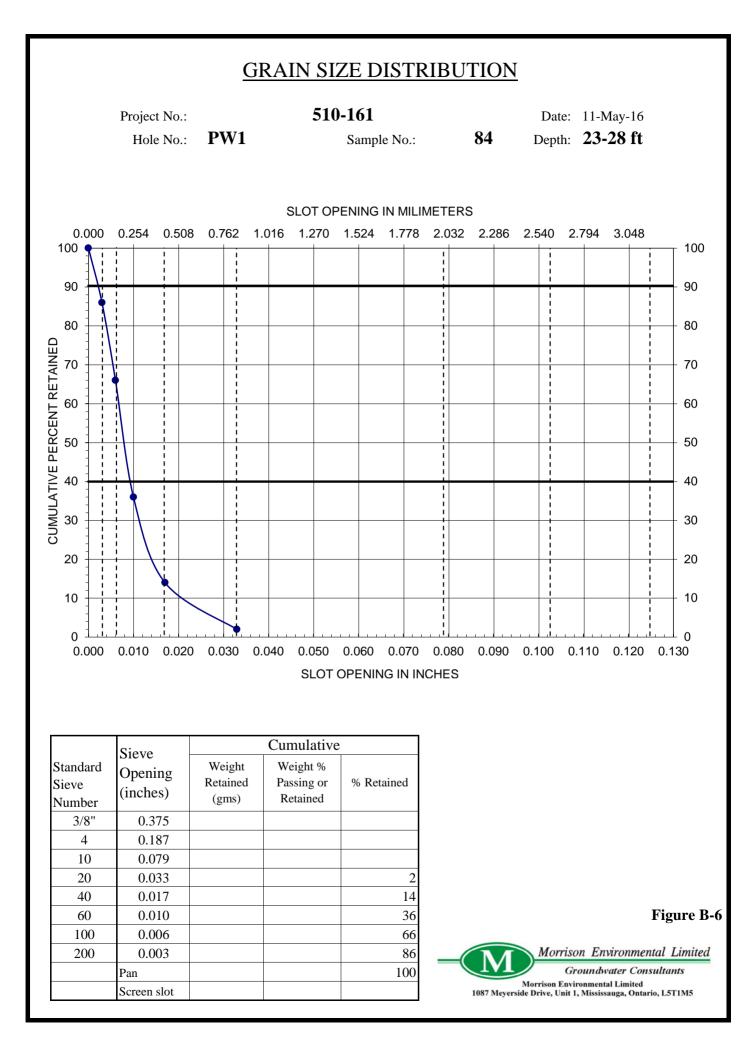
Groundwater Consultants

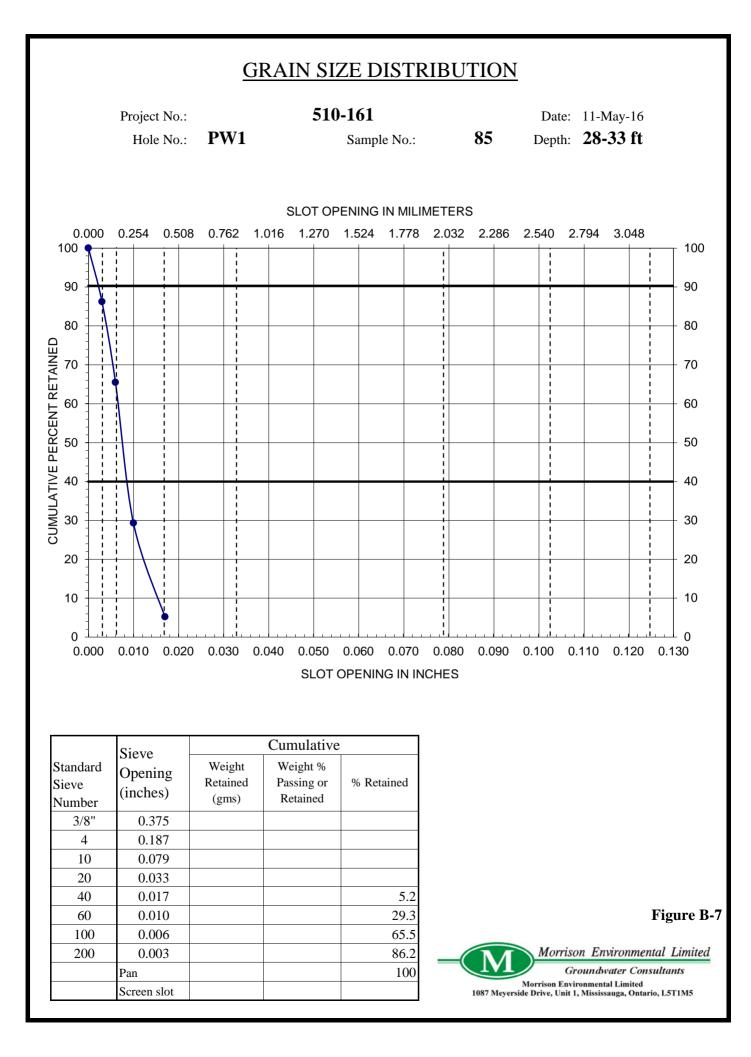
Morrison Environmental Limited

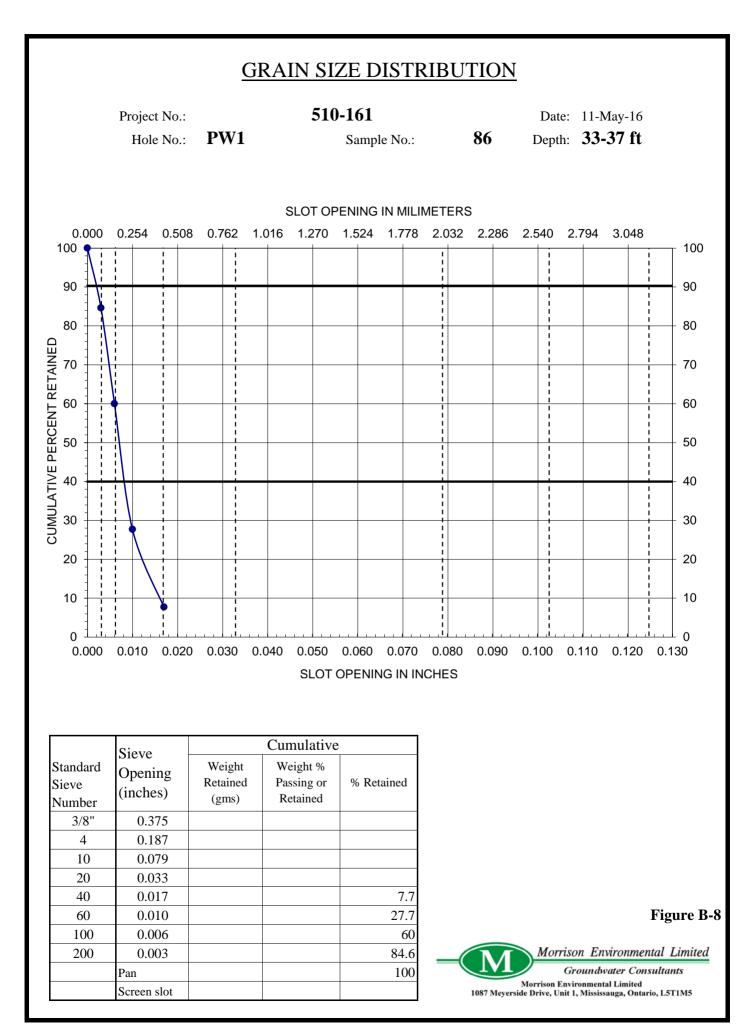












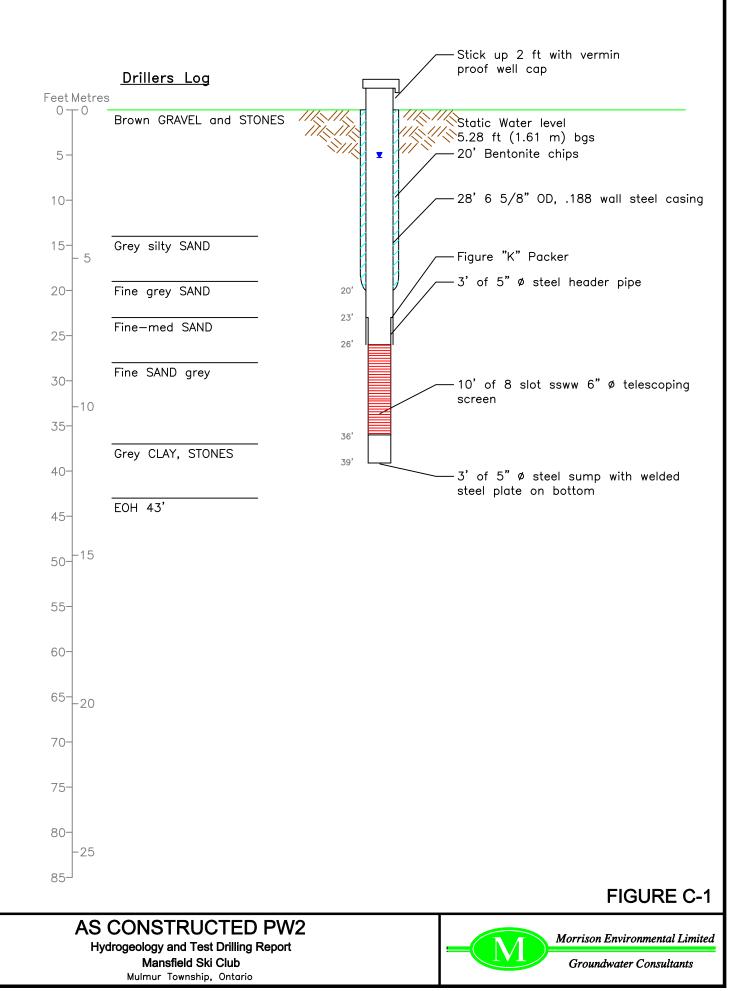
## APPENDIX C

As Constructed PW2

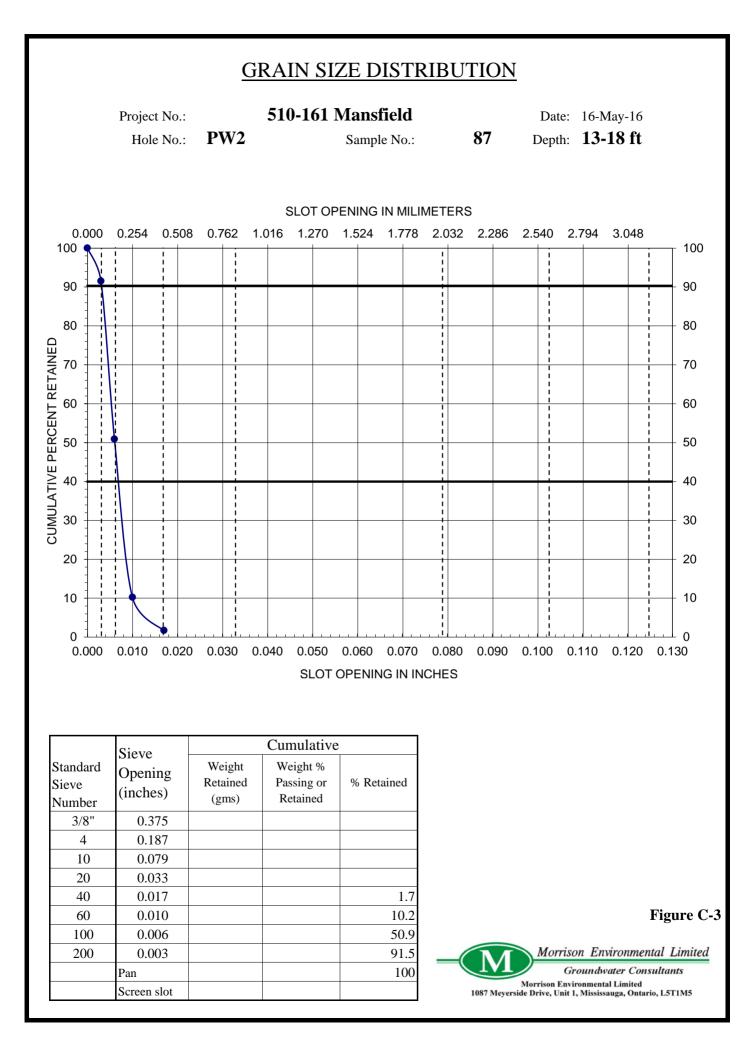
Water Well Record

**Grain Size Curves** 

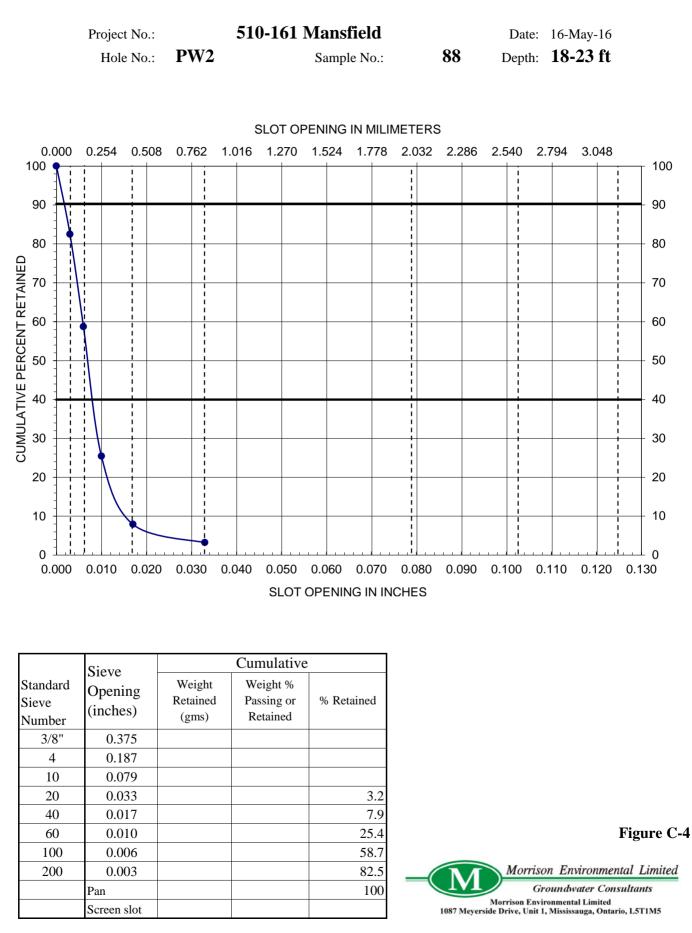
## AS CONSTRUCTED PW2



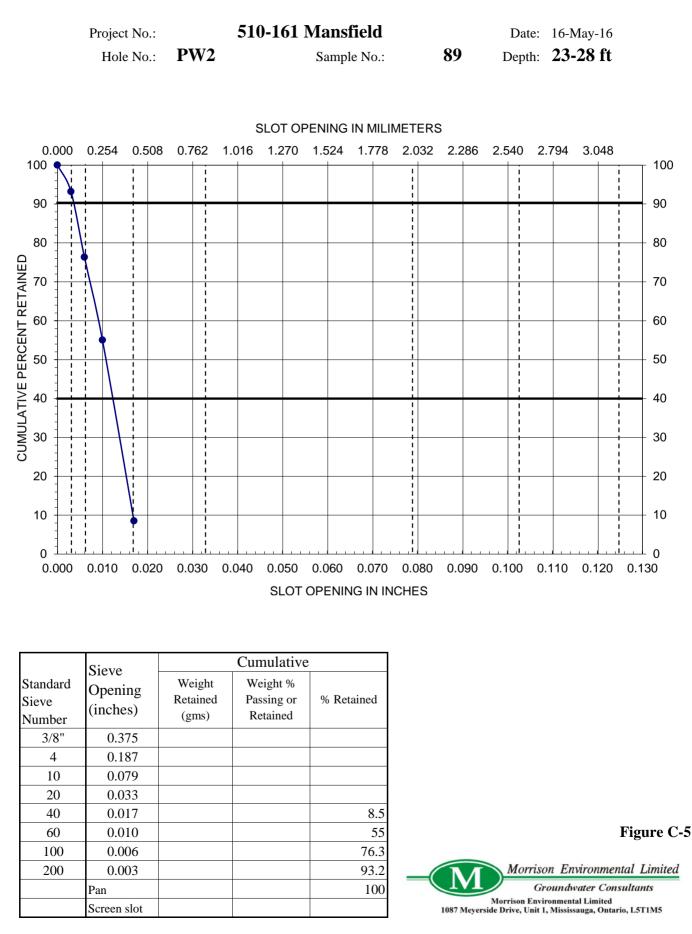
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	ology and Te	estDrillir		rt	_	-		orrison	Environmenta
-	Mansfield S Mulmur Townsh	ski Club						Grou	undwater Consul



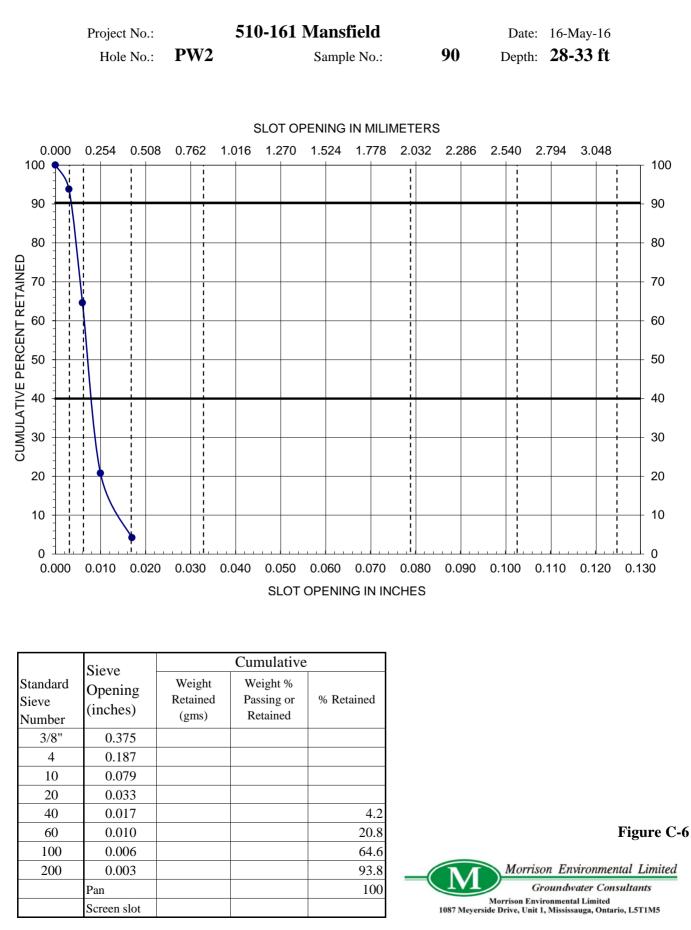
#### **GRAIN SIZE DISTRIBUTION**

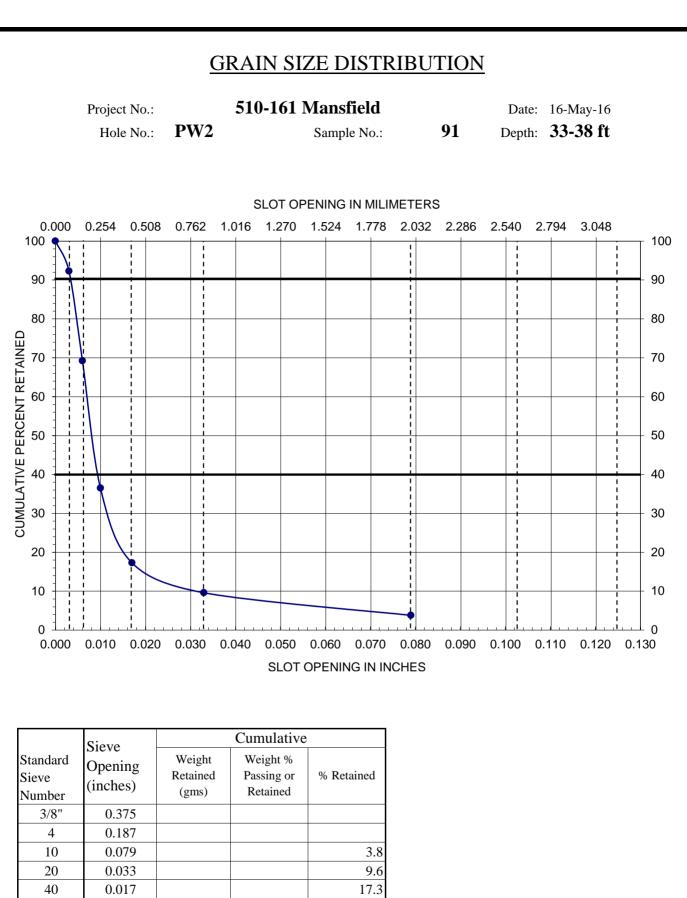












36.5

69.2

92.3

100

60

100

200

0.010

0.006

0.003

Screen slot

Pan

Figure C-7

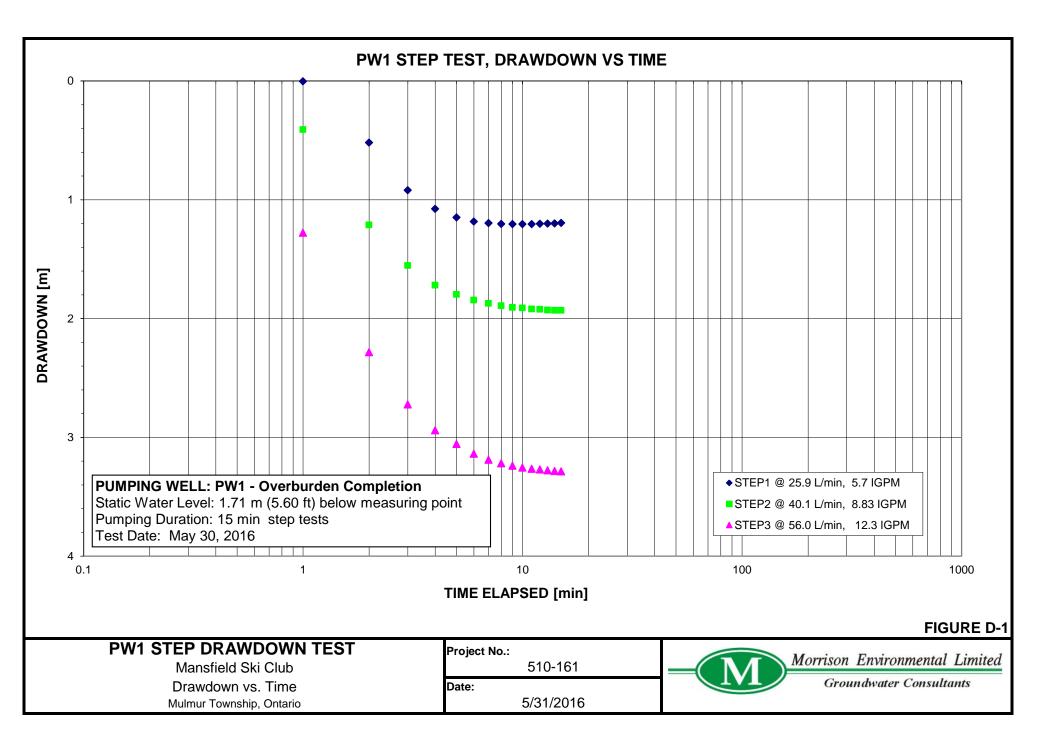


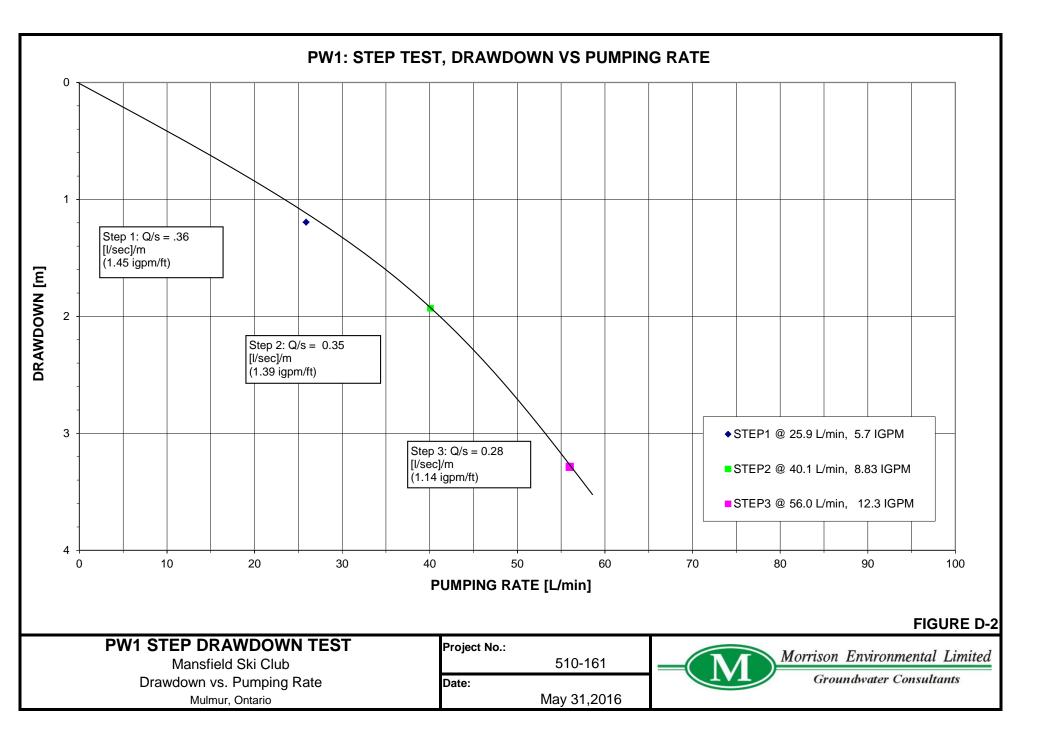
#### APPENDIX D

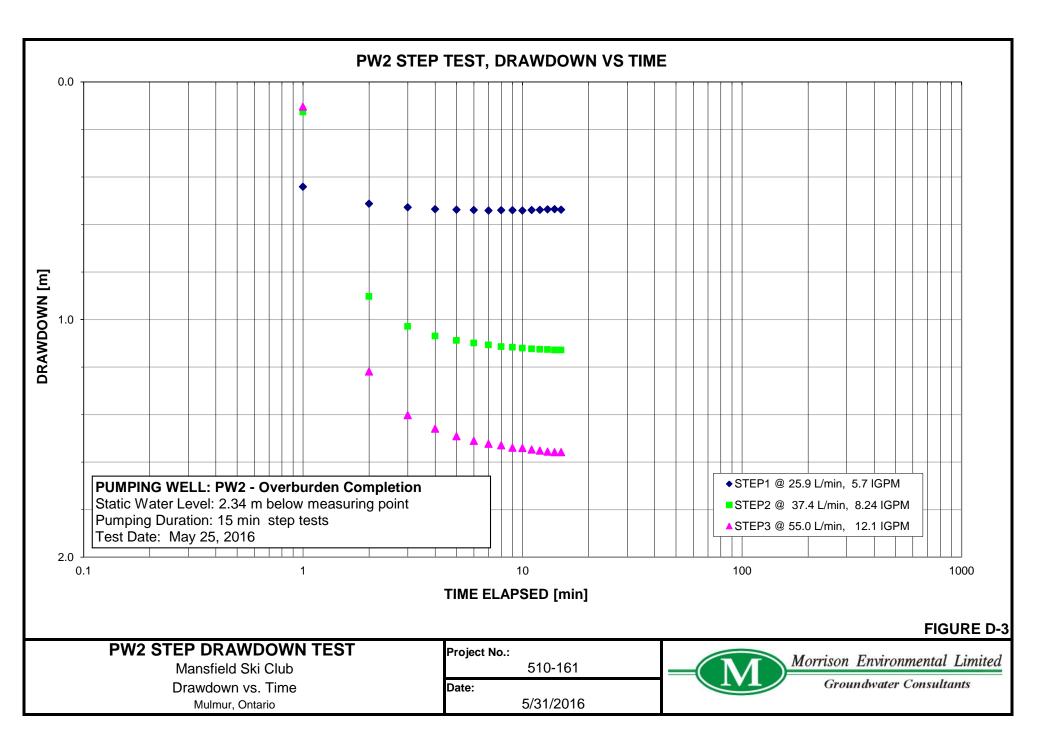
**Step Drawdown Test on PW1** 

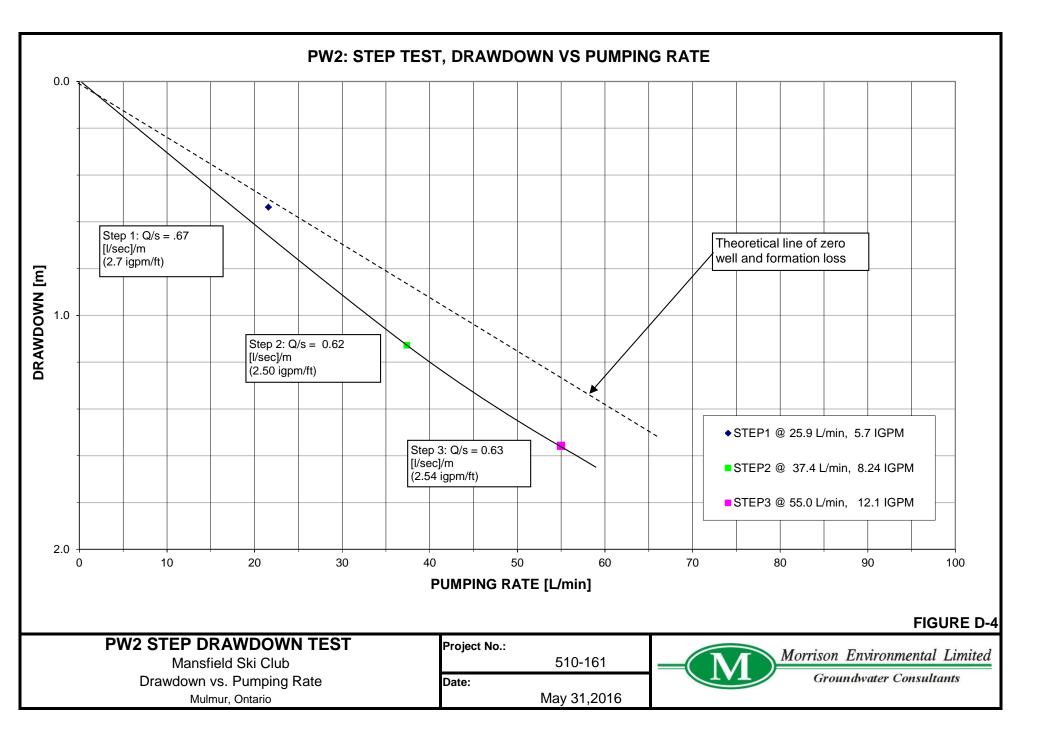
**Step Drawdown Test on PW2** 

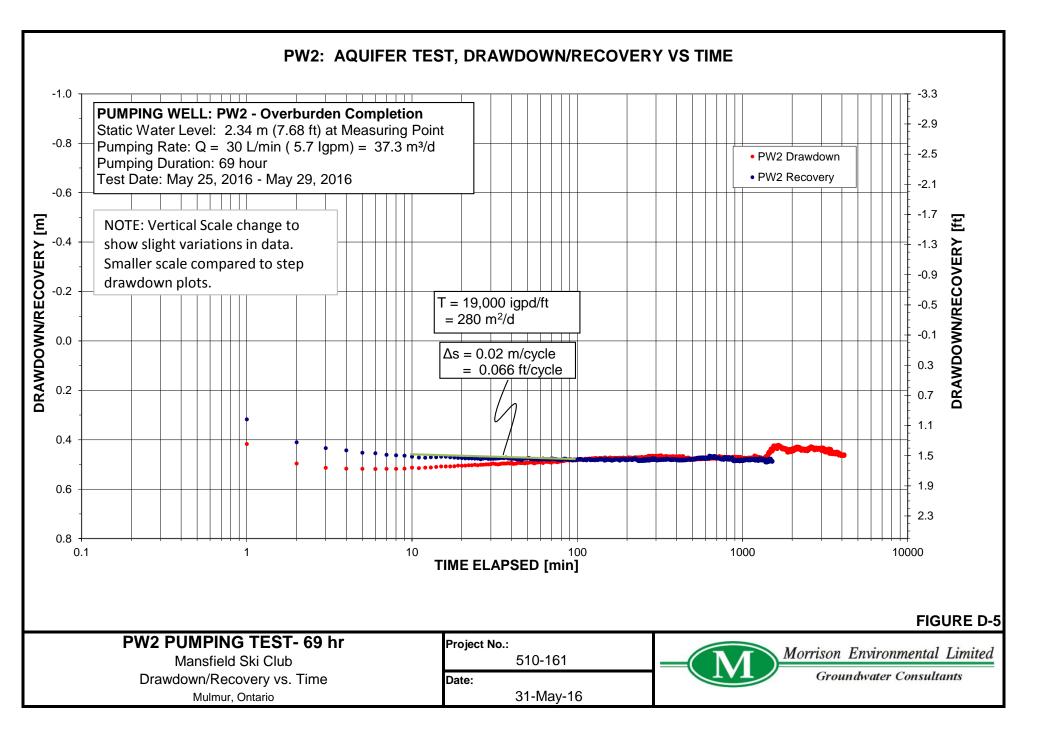
**Aquifer Performance Test on PW2** 

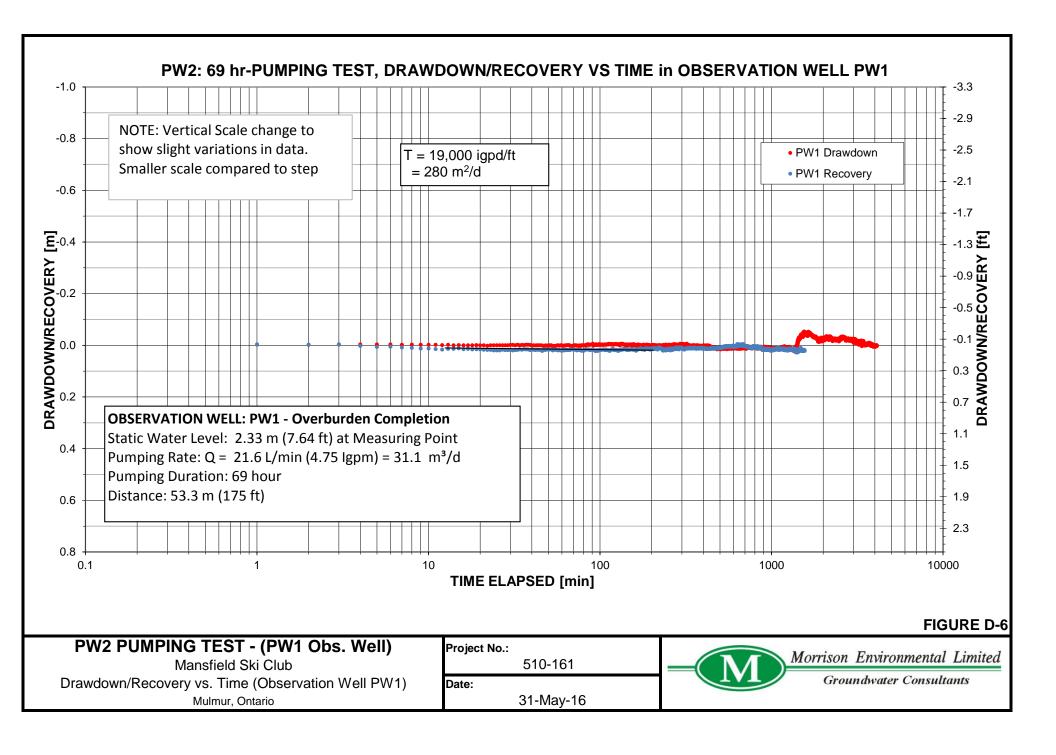


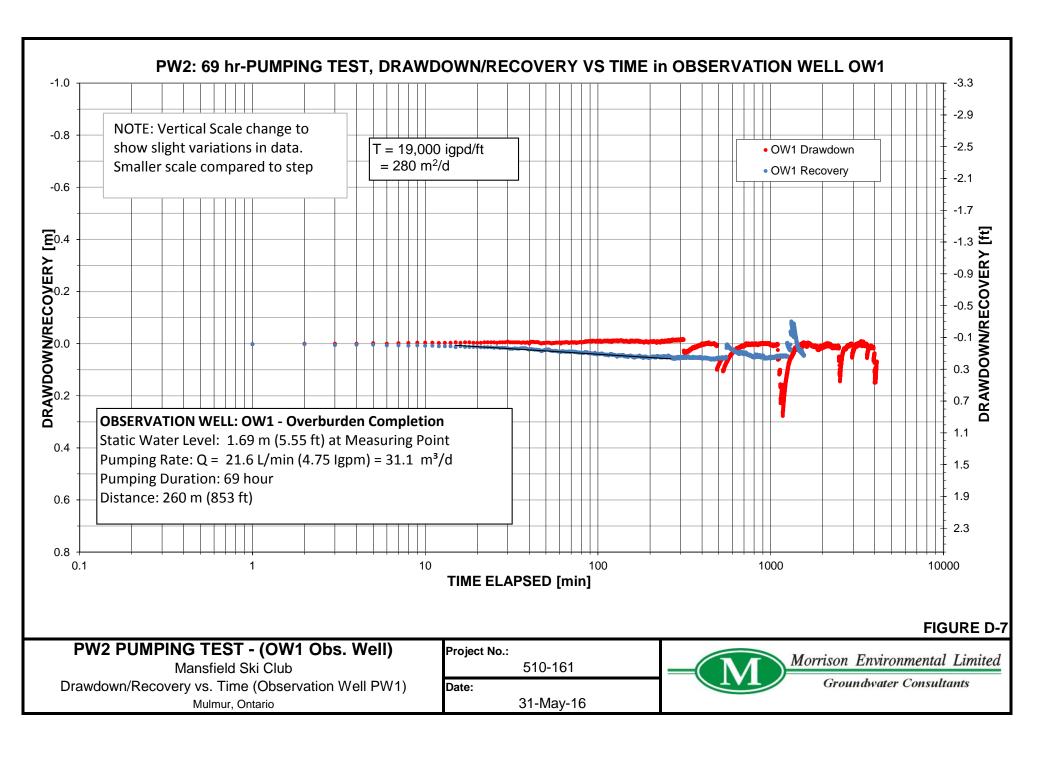


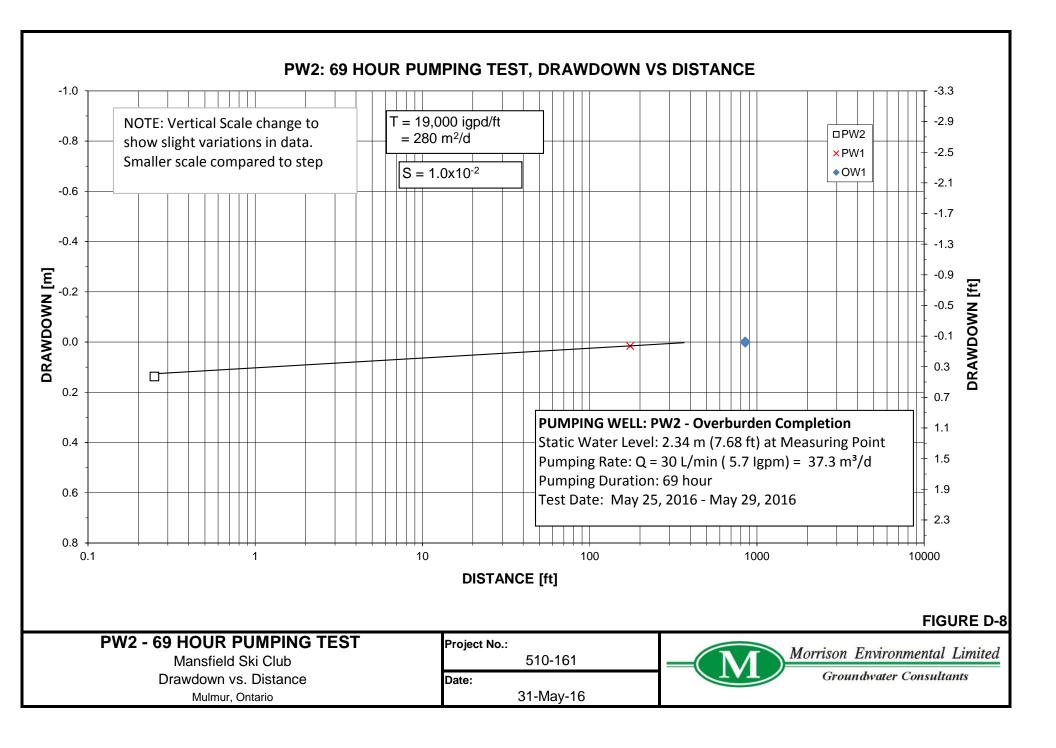


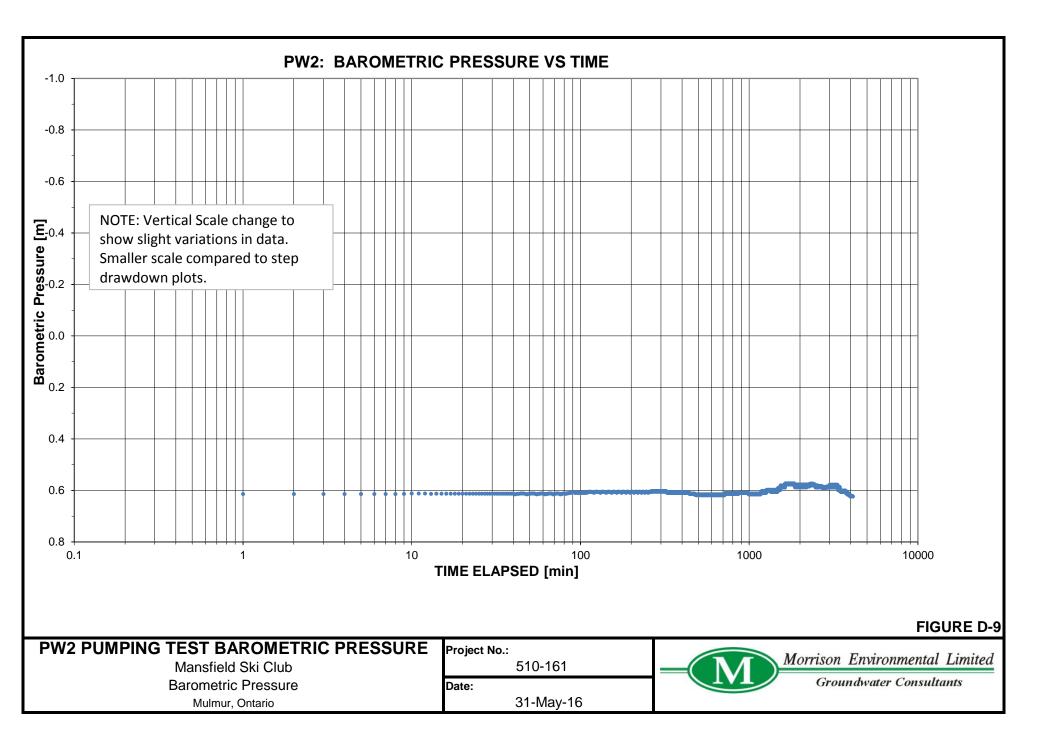


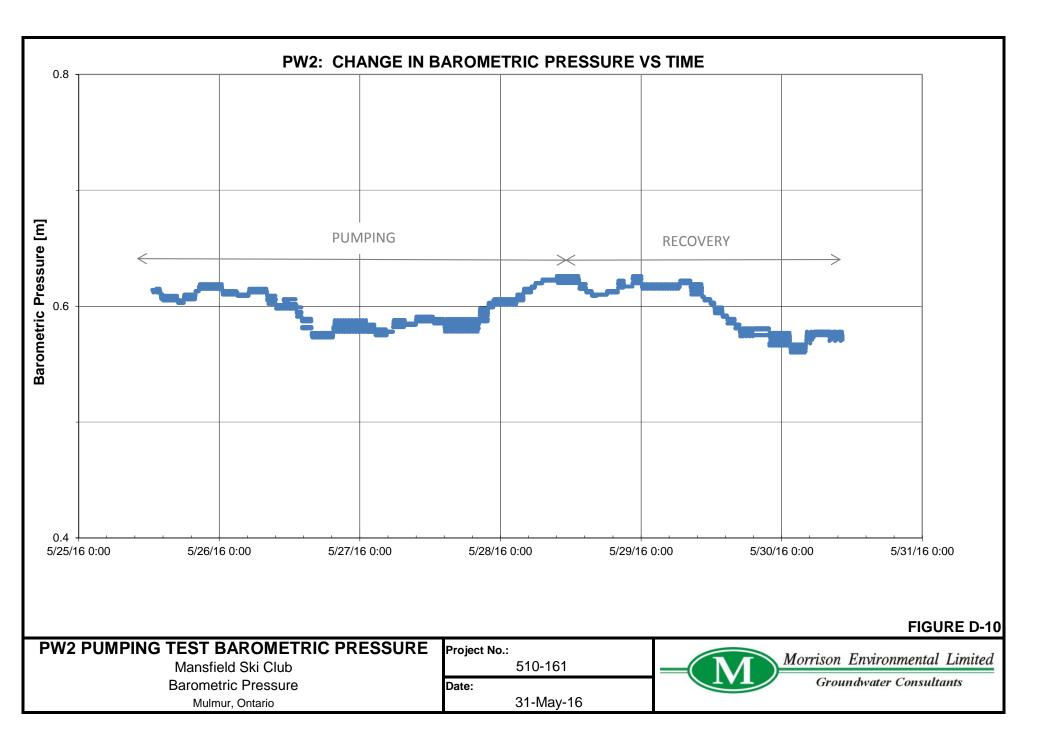












# APPENDIX E

# Modelling of Groundwater Availability

	Drawdow	n and Interfei	ence at Pun	nping Well L	ocations							
ס	PW1	PW2									OW1	
nd PW1	2.78	1.39									0.62	
n to PW2	1.39	2.78									0.62	
Drawdown in a well from pumping and interference from all other												
a we												
eren feren												
/dow												
and												
Total Drawdown each locat		4.17									1.24	
(ft) Total Drawdown each locati	at	4.17									1.24	
( <i>m</i> )	1.27	1.27									0.38	
			1	1	1	1						
			Well PW1-PW2	Q <sub>S (IGPM)</sub> 40.000				Units S	1.0.E-02		1	
								t T	14 19,000	day(s) igpd/ft		
Notes: In R	ows - Drawdown in fee olumns - Drawdown in	et at each location due	to pumping of well in	that row	well W/L elevation	at each location is s	nown in bottom of ro	w of matrix				FIGURE E-1
Estimated Drawdown Matr Groundwater	ix For Total Pumpi	ing Rate of 40 igpm		an pariping indicated			iown in bollom of 10	Project No.:	505-161			
Mansfield Sk Mulmur, On	ii Club							Date:	7-Jun-16		Morrison Enviror Groundwater	

# APPENDIX F

# Water Quality



#### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED 1087 MEYERSIDE DRIVE UNIT 1 MISSISSAUGA, ON L5T1M5 (905) 564-8944

ATTENTION TO: Don Hsu

PROJECT: 510-161

AGAT WORK ORDER: 16T098529

WATER ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

DATE REPORTED: Jun 01, 2016

PAGES (INCLUDING COVER): 9

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES	

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

AGAT Laboratories (V1)

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA) Western Enviro-Agricultural Laboratory Association (WEALA) Environmental Services Association of Alberta (ESAA)

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Page 1 of 9

Results relate only to the items tested and to all the items tested All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request



# Certificate of Analysis

AGAT WORK ORDER: 16T098529 PROJECT: 510-161 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED

SAMPLING SITE:

ATTENTION TO: Don Hsu

SAMPLED BY:

				Water Qu	ality Assessment (mg/L)
DATE RECEIVED: 2016-05-26	6				DATE REPORTED: 2016-06-01
	S	DATE S	PLE TYPE: SAMPLED:	PW2 Water 5/25/2016	
Parameter	Unit	G/S	RDL	7584232	
Electrical Conductivity	uS/cm		2	574	
рН	pH Units	(6.5-8.5)	NA	7.91	
Saturation pH				6.93	
Langelier Index				0.98	
Total Hardness (as CaCO3)	mg/L	(80-100)	0.5	311	
Total Dissolved Solids	mg/L	500	20	324	
Alkalinity (as CaCO3)	mg/L	(30-500)	5	277	
Bicarbonate (as CaCO3)	mg/L		5	277	
Carbonate (as CaCO3)	mg/L		5	<5	
Hydroxide (as CaCO3)	mg/L		5	<5	
Fluoride	mg/L	1.5	0.25	<0.25	
Chloride	mg/L	250	0.50	11.0	
Nitrate as N	mg/L	10.0	0.25	<0.25	
Nitrite as N	mg/L	1.0	0.25	<0.25	
Bromide	mg/L		0.25	<0.25	
Sulphate	mg/L	500	0.50	40.2	
Ortho Phosphate as P	mg/L		0.50	<0.50	
Reactive Silica	mg/L		0.05	11.2	
Ammonia as N	mg/L		0.02	<0.02	
Total Phosphorus	mg/L		0.05	<0.05	
Total Organic Carbon	mg/L		0.5	1.8	
Colour	TCU	5	5	<5	
Turbidity	NTU	5	0.5	1.6	
Calcium	mg/L		0.05	88.3	
Magnesium	mg/L		0.05	21.9	
Sodium	mg/L	20 (200)	0.05	6.00	
Potassium	mg/L	- (	0.05	3.19	
Aluminum	mg/L	0.1	0.004	0.006	
Antimony	mg/L	0.006	0.003	<0.003	
Arsenic	mg/L	0.025	0.003	<0.003	

Certified By:

Page 2 of 9

Amanjot Bhela



# Certificate of Analysis

AGAT WORK ORDER: 16T098529 PROJECT: 510-161 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED

SAMPLING SITE:

ATTENTION TO: Don Hsu

SAMPLED BY:

				Water Qu	ity Assessment (mg/L)
DATE RECEIVED: 2016-05-26					DATE REPORTED: 2016-06-01
	S	SAMPLE DES	CRIPTION:	PW2	
		SAM	PLE TYPE:	Water	
		DATE	SAMPLED:	5/25/2016	
Parameter	Unit	G/S	RDL	7584232	
Barium	mg/L	1	0.002	0.065	
Beryllium	mg/L		0.001	<0.001	
Boron	mg/L	5	0.010	0.035	
Cadmium	mg/L	0.005	0.001	<0.001	
Chromium	mg/L	0.05	0.003	<0.003	
Cobalt	mg/L		0.001	<0.001	
Copper	mg/L	1	0.003	< 0.003	
Iron	mg/L	0.3	0.010	0.138	
Lead	mg/L	0.01	0.002	<0.002	
Manganese	mg/L	0.05	0.002	0.057	
Mercury	mg/L	0.001	0.0001	<0.0001	
Molybdenum	mg/L		0.002	<0.002	
Nickel	mg/L		0.003	<0.003	
Selenium	mg/L	0.01	0.004	<0.004	
Silver	mg/L		0.002	<0.002	
Strontium	mg/L		0.005	0.380	
Thallium	mg/L		0.006	<0.006	
Tin	mg/L		0.002	<0.002	
Titanium	mg/L		0.002	<0.002	
Tungsten	mg/L		0.010	<0.010	
Jranium	mg/L	0.02	0.002	<0.002	
Vanadium	mg/L		0.002	<0.002	
Zinc	mg/L	5	0.005	<0.005	
Zirconium	mg/L		0.004	<0.004	
% Difference/ Ion Balance	%		NA	1.02	

Comments: R

7584232

RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O.Reg.169/03(mg/L)

Elevated RDL indicates the degree of sample dilution prior to the analysis in order to keep analyte within the calibration range of the instrument and to reduce matrix interference.

Certified By:

Amanjot Bhela

	<mark>aga</mark> 1	Laboratories	Guideline Violatic AGAT WORK ORDER: 16T09852 PROJECT: 510-161	-	MISSIS	OOPERS AVENUE SAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 /www.aqatlabs.com
CLIENT NAME	: MORRISON ENVIRONI	MENTAL LIMTED		ATTENTION TO: Don Hsu	nup./	www.agallab3.com
SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
7584232	PW2	O.Reg.169/03(mg/L)	Water Quality Assessment (mg/L)	Manganese	0.05	0.057

Total Hardness (as CaCO3)

(80-100)

311

Water Quality Assessment (mg/L)

O.Reg.169/03(mg/L)

PW2

7584232



# **Quality Assurance**

### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED

PROJECT: 510-161

#### SAMPLING SITE:

AGAT WORK ORDER: 16T098529

ATTENTION TO: Don Hsu

#### SAMPLED BY:

				Wate	er An	alysi	s								
RPT Date: Jun 01, 2016			C	UPLICATE	1		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured		ptable nits	Recoverv		ptable nits	Recovery		eptable mits
		ld					Value	Lower	Upper		Lower	Upper	,	Lower	Upper
Water Quality Assessment (mg/L	)														
Electrical Conductivity	7578341		1760	1780	1.1%	< 2	96%	80%	120%	NA			NA		
рН	7578341		7.80	7.90	1.3%	NA	98%	90%	110%	NA			NA		
Total Dissolved Solids	7584321		528	548	3.7%	< 20	96%	80%	120%	NA			NA		
Alkalinity (as CaCO3)	7578341		306	312	1.9%	< 5	100%	80%	120%	NA			NA		
Bicarbonate (as CaCO3)	7578341		306	312	1.9%	< 5	NA			NA			NA		
Carbonate (as CaCO3)	7578341		<5	<5	NA	< 5	NA			NA			NA		
Hydroxide (as CaCO3)	7578341		<5	<5	NA	< 5	NA			NA			NA		
Fluoride	7584232	7584232	<0.25	<0.25	NA	< 0.05	98%	90%	110%	97%	90%	110%	107%	80%	120%
Chloride	7584232	7584232	11.0	11.4	3.6%	< 0.10	108%	90%	110%	103%	90%	110%	107%	80%	120%
Nitrate as N	7584232	7584232	<0.25	<0.25	NA	< 0.05	91%	90%	110%	100%	90%	110%	107%	80%	120%
Nitrite as N	7584232	7584232	<0.25	<0.25	NA	< 0.05	NA	90%	110%	108%	90%	110%	97%	80%	120%
Bromide	7584232		<0.25	<0.25	NA	< 0.05	109%	90%	110%	108%	90%	110%	106%	80%	120%
Sulphate	7584232		40.2	39.8	1.0%	< 0.10	101%	90%	110%	105%	90%	110%	105%	80%	120%
Ortho Phosphate as P	7584232		<0.50	<0.50	NA	< 0.10	104%	90%	110%	102%	90%	110%	106%	80%	120%
Reactive Silica	7584232	7584232	11.2	10.8	3.6%	< 0.05	99%	90%	110%	101%	90%	110%	99%	80%	120%
Ammonia as N	7581556		0.07	0.06	NA	< 0.02	90%	90%	110%	90%	90%	110%	95%	80%	120%
Total Phosphorus	7580403		0.18	0.00	NA	< 0.02	99%	30 % 80%	120%	100%	90%	110%	98%	70%	130%
Total Organic Carbon	7584321		3.2	3.5	9.0%	< 0.00	102%	90%	110%	103%	90%	110%	104%	80%	
Colour	7584321		<5	<5	NA	< 5	102 %	90%	110%	NA	3070	11070	NA	0070	12070
Turbidity	7584023		0.6	0.6	NA	< 0.5	105%	90%	110%	NA			NA		
Coloium	7504000	7504000	00.0	00.0	4 00/	. 0.05	4040/	000/	4400/	4000/	000/	44.00/	4000/	700/	1200/
Calcium	7584232		88.3	86.9	1.6%	< 0.05	101%	90%	110%	100%	90%	110%	100%	70%	130%
Magnesium	7584232		21.9	21.9	0.0%	< 0.05	101%	90%	110%	100%	90%	110%	105%	70%	130%
Sodium	7584232 7584232		6.00	6.07	1.2%	< 0.05 < 0.05	107% 106%	90% 90%	110% 110%	107% 106%	90% 90%	110% 110%	107% 108%	70% 70%	130% 130%
Potassium Aluminum	7583208	7504252	3.19 0.018	3.17 0.008	0.6% NA	< 0.003	91%		110%	100%	90% 90%	110%	98%	70%	
Antimony	7583208		<0.003	<0.003	NA	< 0.003	97%	90%	110%	97%	90%	110%	101%	70%	130%
Arsenic	7583208		<0.003	<0.003	NA	< 0.003	96%	90%	110%	99%	90%	110%	101%	70%	130%
Barium	7583208		0.013	0.013	0.0%	< 0.002	92%	90%	110%	99%	90%	110%	100%	70%	130%
Beryllium	7583208		<0.001	<0.001	NA	< 0.001	90%	90%	110%	99%	90%	110%	100%	70%	130%
Boron	7583208		<0.010	<0.010	NA	< 0.010	100%	90%	110%	100%	90%	110%	90%	70%	130%
Cadmium	7583208		<0.001	<0.001	NA	< 0.001	92%	90%	110%	96%	90%	110%	103%	70%	130%
Chromium	7583208		<0.003	<0.003	NA	< 0.003	93%	90%	110%	100%	90%	110%	101%	70%	130%
Cobalt	7583208		<0.001	<0.001	NA	< 0.001	93%	90%	110%	100%	90%	110%	100%	70%	130%
Copper	7583208		<0.003	<0.003	NA	< 0.003	95%		110%	102%	90%	110%	100%	70%	130%
Iron	7583208		<0.010	<0.010	NA	< 0.010	90%	90%	110%	96%	90%	110%	105%	70%	130%
Lead	7583208		<0.002	<0.002	NA	< 0.002	94%	90%	110%	101%	90%	110%	102%	70%	130%
Manganese	7583208		<0.002	<0.002	NA	< 0.002	92%	90%	110%	99%	90%	110%	100%	70%	130%
Mercury	7581167		<0.0001	<0.0001	NA	< 0.0001	103%	90%	110%	105%	90%	110%	98%	80%	120%
Molybdenum	7583208		<0.002	<0.002	NA	< 0.002	100%	90%	110%	99%	90%	110%	102%	70%	130%

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Page 5 of 9



### Quality Assurance

### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED

### PROJECT: 510-161

#### SAMPLING SITE:

AGAT WORK ORDER: 16T098529

### ATTENTION TO: Don Hsu

#### SAMPLED BY:

Water Analysis	(Continued)
----------------	-------------

RPT Date: Jun 01, 2016			C	UPLICATI	E		REFEREN	ICE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured		ptable nits	Recovery	1 1 1 1	ptable nits	Recovery	1.17	ptable nits
		Ia					Value	Lower	Upper		Lower	Upper		Lower	Upper
Nickel	7583208		<0.003	<0.003	NA	< 0.003	92%	90%	110%	99%	90%	110%	97%	70%	130%
Selenium	7583208		<0.004	<0.004	NA	< 0.004	95%	90%	110%	100%	90%	110%	103%	70%	130%
Silver	7583208		<0.002	<0.002	NA	< 0.002	90%	90%	110%	101%	90%	110%	100%	70%	130%
Strontium	7583208		0.066	0.068	3.0%	< 0.005	99%	90%	110%	105%	90%	110%	102%	70%	130%
Thallium	7583208		<0.006	<0.006	NA	< 0.006	93%	90%	110%	97%	90%	110%	99%	70%	130%
Tin	7583208		<0.002	<0.002	NA	< 0.002	98%	90%	110%	98%	90%	110%	102%	70%	130%
Titanium	7583208		<0.002	<0.002	NA	< 0.002	96%	90%	110%	93%	90%	110%	98%	70%	130%
Tungsten	7583208		<0.010	<0.010	NA	< 0.010	99%	90%	110%	95%	90%	110%	97%	70%	130%
Uranium	7583208		<0.002	<0.002	NA	< 0.002	97%	90%	110%	100%	90%	110%	101%	70%	130%
Vanadium	7583208		<0.002	<0.002	NA	< 0.002	91%	90%	110%	96%	90%	110%	99%	70%	130%
Zinc	7583208		0.006	0.005	NA	< 0.005	96%	90%	110%	102%	90%	110%	100%	70%	130%
Zirconium	7583208		<0.004	<0.004	NA	< 0.004	97%	90%	110%	95%	90%	110%	96%	70%	130%

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By:

Amanjot Bhela

### **AGAT** QUALITY ASSURANCE REPORT (V1)

not necessarily be included in the scope of accreditation.

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Page 6 of 9

tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may



# Method Summary

### CLIENT NAME: MORRISON ENVIRONMENTAL LIMTED

PROJECT: 510-161

AGAT WORK ORDER: 16T098529

ATTENTION TO: Don Hsu

Water Analysis         INOR-93-6000         SM 2510 B         PC TITRATE           Electrical Conductivity         INOR-93-6000         SM 4500-H+ B         PC TITRATE           Saturation pH         SM 2308         CALCULATION           Langelier Index         SM 2308 B         CALCULATION           Total Hardness (as CaCO3)         INOR-93-6002 SM 2308         SM 220 B         PC TITRATE           Kalkinity (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Carbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Suphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Suphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH	FROJECT. JTO-TOT		ATTENTION TO. I	Don nou
Water Analysis         INOR-93-6000         SM 2510 B         PC TITRATE           Electrical Conductivity         INOR-93-6000         SM 4500-H+ B         PC TITRATE           Saturation pH         SM 2300 B         CALCULATION           Langelier Index         SM 2300 B         CALCULATION           Total Hardness (as CaCO3)         INOR-93-6002 SM 230 B         PC TITRATE           Kalkinity (as CaCO3)         INOR-93-6000 SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000 SM 2320 B         PC TITRATE           Carbonate (as CaCO3)         INOR-93-6000 SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004 SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004 SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004 SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6007         QuicChem 10-115-01-3-A & SM           Chichem 10-115-01-3-8 M 4500 SION CHROMATOGRAPH         Ac2 PA 122 A SM 45	SAMPLING SITE:		SAMPLED BY:	
Electrical Conductivity         INOR-93-6000         SM 2510 B         PC TTRATE           pH         INOR-93-6000         SM 4500-H+ B         PC TTRATE           Langeler Index         SM 2320 B         CALCULATION           Langeler Index         SM 230B         CALCULATION           Total Hardness (as CaCC3)         INOR-93-602B         SM 230B         CALCULATION           Elearbonate (as CaCC3)         INOR-93-6000         SM 2320 B         PC TTRATE           Elearbonate (as CaCC3)         INOR-93-6000         SM 2320 B         PC TTRATE           Fluoride (as CaCC3)         INOR-93-6000         SM 2320 B         PC TTRATE           Fluoride (as CaCC3)         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Fluoride (as CaCC3)         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH	PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
pH         INOR-93-6000         SM 4500 H+ B         PC TITRATE           Saturation pH         SM 2320 B         CALCULATION           Langelier Index         SM 2330 B         CALCULATION           Total Hardness (as CaCO3)         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Total Dissolved Solids         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Carbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH <t< td=""><td>Water Analysis</td><td></td><td></td><td></td></t<>	Water Analysis			
Shuration pH         SM 2320 B         CALCULATION           Langeler Index         SM 2330B         CALCULATION           Chaid Hardness (as CaCO3)         MET-93-6102         EPA SW-466 6010C & 200.7         CP/OES           Total Dissolved Solids         INOR-93-6028         SM 2540 C         BALANCE           Alkalinity (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6057         QuiChem 10-115-01-3.4 & SM         ACDAT FIA           Catal Phosphate as P         INOR-93-6057         QuiChem 10-116-01-3.4 & SM <td< td=""><td>-</td><td>INOR-93-6000</td><td>SM 2510 B</td><td>PC TITRATE</td></td<>	-	INOR-93-6000	SM 2510 B	PC TITRATE
Langelier index         SM 230B         CALCULATION           Total Hardness (as CaCO3)         MCP-39-602B         SM 240 C         ICP/0ES           Total Hardness (as CaCO3)         INOR-93-602B         SM 220 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6047         AQ2 EPA-122A & SM 4500 SIO2 D         AQ2 DISCRETE ANALYSER           Ammonia as N         INOR-93-6057         QuikChem 10-107-06-1-3 & SM 4500         IACHAT FIA           Total Phosphorus         INOR-93-6054         SM 2130 B         NEPHELOMETER           Tubidy         INOR-93-6054         SM 2100 B         SHIMADZU CARBON ANALY           Colour         INOR-93-6057 </td <td>рН</td> <td>INOR-93-6000</td> <td>SM 4500-H+ B</td> <td>PC TITRATE</td>	рН	INOR-93-6000	SM 4500-H+ B	PC TITRATE
Total Hardness (as CaC03)         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/DES           Total Dissolved Solids         INOR-93-6020         SM 2540 C         BALANCE           Akalinity (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaC03)         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6047         AQ2 EPA-122A & SM 4500 SIO2 D         AQ2 DRCRETE ANALYSER           Armonia as N         INOR-93-6057         QuilkChem 10-17-06-1-J & SM 450         LACHAT FIA           Total Phosphorus         INOR-93-6054         SM 2130 B         SPECTROPHOTOMETER           Turbidly         INOR-93-6105         EPA SW-846 6010C & 200.7         ICP/OES	Saturation pH		SM 2320 B	CALCULATION
Total Hardness (as CaC03)         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/DES           Total Dissolved Solids         INOR-93-6020         SM 2540 C         BALANCE           Akalinity (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaC03)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaC03)         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6047         AQ2 EPA-122A & SM 4500 SIO2 D         AQ2 DRCRETE ANALYSER           Armonia as N         INOR-93-6057         QuilkChem 10-17-06-1-J & SM 450         LACHAT FIA           Total Phosphorus         INOR-93-6054         SM 2130 B         SPECTROPHOTOMETER           Turbidly         INOR-93-6105         EPA SW-846 6010C & 200.7         ICP/OES	Langelier Index		SM 2330B	CALCULATION
Total Dissolved Solids         INOR-33-6028         SM 250 C         BLANCE           Alkalinity (as CaCO3)         INOR-33-6000         SM 2320 B         PC TITRATE           Bicarbonate (as CaCO3)         INOR-33-6000         SM 2320 B         PC TITRATE           Flucide         INOR-33-6004         SM 2320 B         PC TITRATE           Flucide         INOR-33-6004         SM 2320 B         PC TITRATE           Flucide         INOR-33-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-33-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-33-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-33-604         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-33-604         SM 4110 B         ION CHROMATOGRAPH           Chtal Phosphorus         INOR-33-6047         A22 EPA-122A & SM 4500 SIO2 D         A22 DISCRETE ANALYSER           Colour         INOR-33-6047         INOR-33-	-	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Carbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6004         SM 4110 B         ON CHROMATOGRAPH           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 410 B         IACHAT FIA           Catla Phosphorus         INOR-93-6004         SM 210 B         IACHAT FIA           Catla Organic Carbon         INOR-93-6046         SM 210 B         SHIMADZU CARBO ANALL           Colaur         INOR-93-6046		INOR-93-6028	SM 2540 C	BALANCE
Bicarbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Carbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6004         SM 4110 B         ON CHROMATOGRAPH           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 410 B         IACHAT FIA           Catla Phosphorus         INOR-93-6004         SM 210 B         IACHAT FIA           Catla Organic Carbon         INOR-93-6046         SM 210 B         SHIMADZU CARBO ANALL           Colaur         INOR-93-6046	Alkalinity (as CaCO3)	INOR-93-6000	SM 2320 B	PC TITRATE
Carbonate (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Hydroxide (as CaCO3)         INOR-93-6000         SM 220 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Chioride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6047         AQ2 EPA-122A & SM 4500 SiO2 D         AQ2 DISCRETE ANALYSER           Ammonia as N         INOR-93-6047         AQ2 EPA-122A & SM 4500 SIO2 D         AQ2 DISCRETE ANALYSER           Coldur         INOR-93-6049         EPA 415.1 & SM 5310         LACHAT FIA           Total Organic Carbon         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium </td <td></td> <td>INOR-93-6000</td> <td>SM 2320 B</td> <td>PC TITRATE</td>		INOR-93-6000	SM 2320 B	PC TITRATE
Hydroxide (as CaCO3)         INOR-93-6000         SM 2320 B         PC TITRATE           Fluoride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Chloride         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrie as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6057         QuikChem 10-107-06-1.J & SM 4500         IACHAT FIA           Total Phosphorus         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Total Organic Carbon         INOR-93-6047         SM 2130 B         SPECTROPHOTOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6103		INOR-93-6000	SM 2320 B	PC TITRATE
Fluoride         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Chloride         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrate as N         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Bronide         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR 93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR 93-6057         QuikChem 10-107-06-1.J & SM 4500         IACHAT FIA           Armonia as N         INOR 93-6057         QuikChem 10-115-01-3-A & SM         IACHAT FIA           Total Organic Carbon         INOR 93-6049         EPA 415.1 & SM 5310         SHIMADZU CARBON ANALY           Color         INOR 93-6045         SM 2120 B         SPECTROPHOTOMETER           Turbidity         INOR 93-6045         SM 2130 B         INEPHELOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93			SM 2320 B	PC TITRATE
Nitrate as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Nitrite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Ortho Phosphate as P         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6057         QuikChem 10-107-06-1-J & SM 4500         AC2 DISCRETE ANALYSER           Ammonia as N         INOR-93-6057         QuikChem 10-1107-06-1-J & SM 4500         LACHAT FIA           Total Organic Carbon         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Turbidity         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Aduminum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Aduminum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Alti		INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nirite as N         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Bromide         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Sulphate         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Ortho Phosphate as P         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6047         AQ2 EPA-122A & SM 4500 SIO2 D         AQ2 DISCRETE ANALYSER           Ammonia as N         INOR-93-6059         MH3-F         LACHAT FIA           Total Phosphorus         INOR-93-6057         QuikChem 10-115-01-3-A & SM 4500-P I         LACHAT FIA           Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET	Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
BromideINOR-93-6004SM 4110 BION CHROMATOGRAPHSulphateINOR-93-6004SM 4110 BION CHROMATOGRAPHOrtho Phosphate as PINOR-93-6004SM 4110 BION CHROMATOGRAPHReactive SilicaINOR-93-6047AQ2 EPA-122A & SM 4500 SiO2 DAQ2 DISCRETE ANALYSERAmmonia as NINOR-93-6057QuikChem 10-107-06-1-J & SM 4500IACHAT FIATotal PhosphorusINOR-93-6057QuikChem 10-115-01-3-A & SMLACHAT FIAColourINOR-93-6049EPA 415.1 & SM 5310SHIMADZU CARBON ANALYColourINOR-93-6044SM 2120 BSPECTROPHOTOMETERCalciumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESMagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESPotassiumMET-93-6103EPA SW-846 6010C & 200.7ICP/OESAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MS <t< td=""><td></td><td></td><td></td><td></td></t<>				
BromideINOR-93-6004SM 4110 BION CHROMATOGRAPHSulphateINOR-93-6004SM 4110 BION CHROMATOGRAPHOrtho Phosphate as PINOR-93-6004SM 4110 BION CHROMATOGRAPHReactive SilicaINOR-93-6047AQ2 EPA-122A & SM 4500 SiO2 DAQ2 DISCRETE ANALYSERAmmonia as NINOR-93-6057QuikChem 10-107-06-1-J & SM 4500IACHAT FIATotal PhosphorusINOR-93-6057QuikChem 10-115-01-3-A & SMLACHAT FIAColourINOR-93-6049EPA 415.1 & SM 5310SHIMADZU CARBON ANALYColourINOR-93-6044SM 2120 BSPECTROPHOTOMETERCalciumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESMagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESPotassiumMET-93-6103EPA SW-846 6010C & 200.7ICP/OESAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MS <t< td=""><td>Nitrite as N</td><td></td><td></td><td></td></t<>	Nitrite as N			
SulphateINOR-93-6004SM 4110 BION CHROMATOGRAPHOrtho Phosphate as PINOR-93-6044SM 4110 BION CHROMATOGRAPHReactive SilicaINOR-93-6047AQ2 EPA-122A & SM 4500 SiO2 DAQ2 DISCRETE ANALYSERAmmonia as NINOR-93-6059QuikChem 10-107-06-1-J & SM 4500IACHAT FIATotal PhosphorusINOR-93-6057QuikChem 10-115-01-3-A & SMLACHAT FIATotal Organic CarbonINOR-93-6049EPA 415.1 & SM 5310SHIMADZU CARBON ANALYColourINOR-93-6044SM 2120 BSPECTROPHOTOMETERTurbidityINOR-93-6046SM 2130 BNEPHELOMETERCalciumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESMagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodumMET-93-6103EPA SW-846 6020A & 200.8ICP-MS <td< td=""><td></td><td></td><td></td><td></td></td<>				
Ortho Phosphate as P         INOR-93-6004         SM 4110 B         ION CHROMATOGRAPH           Reactive Silica         INOR-93-6047         AQ2 EPA-122A & SM 4500 SiQ2 D         AQ2 DISCRETE ANALYSER           Ammonia as N         INOR-93-6059         QuikChem 10-107-06-1-J & SM 4500         LACHAT FIA           Total Phosphorus         INOR-93-6057         QuikChem 10-115-01-3-A & SM 4500-P I         LACHAT FIA           Total Organic Carbon         INOR-93-6049         EPA 415.1 & SM 5310         SHIMADZU CARBON ANALY Colour           Turbidity         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Austinum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Austinum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Austinum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Astronic         MET-93-6103         EPA SW-846 6020A & 200.8				
Reactive SilicaINOR-93-6047AQ2 EPA-122A & SM 4500 SiO2 DAQ2 DISCRETE ANALYSERAmmonia as NINOR-93-6059QuikChem 10-107-06-1-J & SM 4500 NH3-FLACHAT FIATotal PhosphorusINOR-93-6057QuikChem 10-115-01-3-A & SM 4500-P ILACHAT FIATotal Organic CarbonINOR-93-6049EPA 415.1 & SM 5310SHIMADZU CARBON ANALY SPECTROPHOTOMETERColourINOR-93-6046SM 2120 BSPECTROPHOTOMETERCalciumINOR-93-6046SM 2130 BNEPHELOMETERCalciumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESMagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6105EPA SW-846 6020A & 200.8ICP-MSAutimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200	•			
Ammonia as N         INOR-93-6059         QuikChem 10-107-06-1-J & SM 4500 NH3-F         LACHAT FIA           Total Phosphorus         INOR-93-6057         QuikChem 10-115-01-3-A & SM 4500-P I         LACHAT FIA           Total Organic Carbon         INOR-93-6049         EPA 415.1 & SM 5310         SHIMADZU CARBON ANALYS           Colour         INOR-93-6046         SM 2100 B         SPECTROPHOTOMETER           Turbidity         INOR-93-6046         SM 2100 B         NEPHELOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Antimony         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Antimony         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Antimony         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Antimony         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Antimony         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Barium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           B	•			
Total Phosphorus         INOR-93-6057         4500-P I         LACHAT FIA           Total Organic Carbon         INOR-93-6049         EPA 415.1 & SM 5310         SHIMADZU CARBON ANALY           Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Turbidity         INOR-93-6044         SM 2130 B         NEPHELOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Arsenic         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Barium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Beryllium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Codalum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW			QuikChem 10-107-06-1-J & SM 4500	
Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Turbidity         INOR-93-6044         SM 2130 B         NEPHELOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Potassium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Antimony         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Arsenic         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Barium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8	Total Phosphorus	INOR-93-6057		LACHAT FIA
Colour         INOR-93-6046         SM 2120 B         SPECTROPHOTOMETER           Turbidity         INOR-93-6044         SM 2130 B         NEPHELOMETER           Calcium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Magnesium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Sodium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Potassium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Antimony         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Arsenic         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Barium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8	Total Organic Carbon	INOR-93-6049	EPA 415.1 & SM 5310	SHIMADZU CARBON ANALYZER
CalciumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESMagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESPotassiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESAluminumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcad	-	INOR-93-6046	SM 2120 B	SPECTROPHOTOMETER
MagnesiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESSodiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESPotassiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESAluminumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIcad <t< td=""><td>Turbidity</td><td>INOR-93-6044</td><td>SM 2130 B</td><td>NEPHELOMETER</td></t<>	Turbidity	INOR-93-6044	SM 2130 B	NEPHELOMETER
NoMET-93-6105EPA SW-846 6010C & 200.7ICP/OESPotassiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESAluminumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCodmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSLeadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSManganeseMET-93-6103EPA SW-846 6020A & 200.8ICP-MS	Calcium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Potassium         MET-93-6105         EPA SW-846 6010C & 200.7         ICP/OES           Aluminum         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Antimony         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Arsenic         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Barium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boryllium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Codmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8 </td <td>Magnesium</td> <td>MET-93-6105</td> <td>EPA SW-846 6010C &amp; 200.7</td> <td>ICP/OES</td>	Magnesium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
AluminumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSAntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBerylliumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSLeadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSManganeseMET-93-6103EPA SW-846 6020A & 200.8ICP-MS	Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
AntimonyMET-93-6103EPA SW-846 6020A & 200.8ICP-MSArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBerylliumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSLeadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSManganeseMET-93-6103EPA SW-846 6020A & 200.8ICP-MS	Potassium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
ArsenicMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBerylliumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSChromiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSLeadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSManganeseMET-93-6103EPA SW-846 6020A & 200.8ICP-MS	Aluminum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
BariumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBerylliumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSBoronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCadmiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSChromiumMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCobaltMET-93-6103EPA SW-846 6020A & 200.8ICP-MSCopperMET-93-6103EPA SW-846 6020A & 200.8ICP-MSIronMET-93-6103EPA SW-846 6020A & 200.8ICP-MSLeadMET-93-6103EPA SW-846 6020A & 200.8ICP-MSManganeseMET-93-6103EPA SW-846 6020A & 200.8ICP-MS	Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Chromium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS	Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Chromium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS	Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cadmium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Chromium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS		MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS		MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Cobalt         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS	Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS	Chromium			
Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS	Cobalt			
Iron         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS				
Lead         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS           Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS		MET-93-6103		ICP-MS
Manganese         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS				
Mercury MET-93-6100 EPA SW 846 7470 & 245.1 CVAAS	Mercury	MET-93-6100	EPA SW 846 7470 & 245.1	CVAAS
Molybdenum MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS	-			
Nickel MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS	•			
Selenium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS				
Silver MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS				
Strontium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS				
Thallium         MET-93-6103         EPA SW-846 6020A & 200.8         ICP-MS				



# Method Summary

CLIENT NAME: MORRISON ENVIRONME	ENTAL LIMTED	AGAT WORK OR	DER: 16T098529
PROJECT: 510-161		ATTENTION TO:	Don Hsu
SAMPLING SITE:		SAMPLED BY:	
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tin	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Titanium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Tungsten	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zirconium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
% Difference/ Ion Balance		SM 1030 E	CALCULATION

Chain of Custody	GG				tories 5835 Coopers Avenue Mississauga. Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agattabs.com						Laboratory Use Only         Work Order #:         16009         SS29         Cooler Quantity:         Arrival Temperatures:         \$.6											
Report Information:         Company:       Morris         Contact:       Down         Address:       105.7 M         Phone:       905.564         Reports to be sent to:       1. Email:         2. Email:       Chromation:         Project Information:       Project:         Site Location:       510.7 M	(Please check all applicable boxes Regulation 153/04 Table Indicate One Ind/Com Res/Park Agriculture Soll Texture (Check One) Coarse Fine Is this submission Record of Site Co	Table       Indicate One       Sanitary         Ind/Com       Sanitary       CCME         Res/Park       Storm       Prov. Water Quality         Agriculture       Storm       Objectives (PWQO)         Soil Texture (check One)       Region       Other         Coarse       Indicate One       Other         Fine       Indicate One       Regord 169/03         Is this submission for a       Report Guideline on         Record of Site Condition?       Certificate of Analysis					Image: Custody Seal Intact:       Yes       No         Notes:       Turnaround Time (TAT) Required:         Regular TAT       5 to 7 Business Days         Rush TAT (Rush Surcharges Apply)         Image: Substance         Image: Substance										y):					
Sampled By: AGAT Quote #:	uotation number is not pro	PO: vided, client will be t BIII 1 Time	_	es K No	Sample Matrix Legend         B       Biota         GW       Ground Water         O       Oil         P       Paint         S       Soil         SD       Sediment         SW       Surface Water	Field Filtered - Metals, Hg. CrVI (Please Circle)	Metals and Inorganics Metal Scan Undride Econminer Matale		H CV-CV-CV-CV-CV-CV-CV-CV-CV-CV-CV-CV-CV-C	Applicab	THM	CUME Fractions 1 to 4	PAHS	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use	IONIC BALANCE	WATER QUALITY )	2	
PW2_	Sampled 5/25//16	Sampled  / :0 0 pm		Matrix Gw	Special Instructions PLEASE SHOU CATIONS / ANIONS																	
Samples Relinquished By (Print Name and Sign): Dev HSU Samples Relinquished By (Print Rame and Sign): Samples Relinquished By (Print Name and Sign):	~		Date 5/26/ Date Date	Time Time Time	Samples Received By (F Samples Received By (F Samples Received By (F	Print Name and Sign):	may	20	e/10		Date	S)		Time Time Time	1		N°:	P	age	<u>(</u> ° 26:	, <u> </u> 12	1

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