#### Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

**Materials Testing** 

**Building Science** 

Archaeological Services

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## **Phase I-Environmental Site Assessment**

147 Langstaff Drive Ottawa, Ontario

**Prepared For** 

**Inverness Homes** 

#### Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca July 5, 2019

Report: PE4666-1

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### EXECUTIVE SUMMARY

#### Assessment

Paterson Group was retained by Inverness Homes to conduct a Phase I-Environmental Site Assessment (ESA) for 147 Langstaff Drive, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I study area and to identify any environmental concerns with the potential to have impacted the Phase I property.

According to the historical research, the Phase I Property has always been vacant and undeveloped land. Based on historical records, neighbouring land use has consisted of residential, institutional, recreational and commercial.

Five (5) historical potentially contaminating activities (PCAs) were identified, including railway tracks and two (2) former landfills. Based on the downgradient orientation, these PCAs, with the exception of a former landfill, are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The former landfill located immediately northwest of the subject site has generated an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The subject site is vacant land situated in a mixed-use area. Neighbouring land use in the Phase I Study Area consists of residential, commercial retail, intuitional and recreational. No other PCAs were identified with the current use of the Phase I Property or lands within the Study Area.

Based on the results of the assessment, it is **our opinion that a Phase II-**Environmental Site Assessment is required for the subject property.

### 1.0 INTRODUCTION

At the request of Inverness Homes, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 147 Langstaff Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Ms. Alison Stirling of the Stirling Group, acting on behalf of Inverness Homes. Ms. Stirling can be reached by telephone at (613) 299-5654.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

## 2.0 PHASE I PROPERTY INFORMATION

Address: 147 Langstaff Drive, Ottawa, Ontario

- Legal Description: Part of Blocks A, B, C of Lots 6 to 13, north of John Street, Lots 15 to 21, south of John Street, of Plan 148, Part of Lot 18, Concession 2 (formerly Huntley) and Lots 52 and 53, Part of Lots 54 and 55 of Registered Plan 4R24903, in the City of Ottawa.
- Location: The site is located on the southwest side of Langstaff Drive, 185 m northwest of the Langstaff Drive and Donald B. Munro intersection, in the Village of Carp ; Township of West Carleton, (now City of Ottawa), Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.

Latitude and Longitude: 45° 20' 43.96" N, 75° 02' 54.26" W

#### Site Description:

Configuration:	Irregular
Area:	7.3 hectares (approximately)
Zoning:	V3B – Village Residential Third Density Zone
Current Use:	The subject site is currently vacant land.
Services:	The subject site and adjacent lands are situated in a municipally serviced area that relies on potable water wells.

# 3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- □ Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- □ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

### 4.0 RECORDS REVIEW

#### 4.1 General

#### Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I study area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

#### First Developed Use Determination

According to the aerial photographs, the subject property has never been developed.

#### National Archives

Fire Insurance Plans (FIPs) are not available for the subject site or adjacent properties.

The Ottawa city directories were reviewed for the subject site. However, due to the amalgamation and the location of the subject property, the Ottawa City Directories were only available from 2001 to 2011. The subject site has never been listed in the city directories. Three (3) off-site potentially contaminating activities (PCAs) were identified in the directories which included a former construction company at 3725 Carp Road, a former automotive garage at 421 Donald B. Munro Drive and a commercial cleaner/dry cleaner at 449 Donald B. Munro Drive. These PCAs with respective distances are presented in Table 1.

TABLE 1: Potentially Contaminating Activities           City Directories Review Summary						
Address	Listing	Years Listed	Approximate Distance / Orientation from Site			
Carp Road						
3725	Contracting Company (2 USTs)	2001-2011	130 m S			
Donald B. Munro Drive						
421	Automotive Repair Garage	2001-2011	44 m S			
449	Star Fashion / drycleaner	2001-2011	120 m SW			

Based on their down-gradient location with respect to the subject site, these offsite PCAs are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The location of these PCAs are shown in Drawing PE4666-2 – Surrounding Land Use Plan.

#### Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews, city directories and previous engineering reports.

#### Plan of Survey

A plan of survey was not available for review at the time of this assessment.

#### Previous Engineering Reports

Paterson has conducted several environmental investigations within the area. Based on a review of our files, one potentially contaminating activity (PCA) was identified immediately west of the subject site; a former waste disposal site, Wc-05, which is discussed in more detail in the City of Ottawa Landfill Document section of this report.

Paterson conducted a geotechnical investigation for the subject site in January 2009 (Report No. PG1773-REP.01). Based on the geotechnical report, the subsurface profile in the general area consisted of topsoil overlying a thin silty sand layer followed by a stiff silty clay deposit, overlying silty sand.

Groundwater levels were measured at the time of the investigation and the groundwater flow direction was inferred to be in a southerly direction with a hydraulic gradient of approximately 0.018 m/m.

### 4.2 Environmental Source Information

#### **Environment Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on June 28, 2019. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I study area.

#### PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I study area.

#### Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on June 28, 2019. The search did not reveal any areas of natural significance within the Phase I study area.

#### Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

#### **MECP Submissions**

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the properties. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

#### MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

#### MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. Based on the MECP's response, no records were located regarding the Phase I Property or the study area.

#### **MECP Coal Gasification Plant Inventory**

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

#### MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the subject property or properties within the Phase I ESA study area.

#### MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I study area.

#### Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records were listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

#### City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. Two (2) former domestic waste disposal sites, Wc-05 and Wc-10 which operated pre-1940s were identified within the study area. Waste site Wc-10 (Carp Plaza site) is located approximately 175 m downgradient of the subject site at 461 Donald B. Munroe Drive. Based on the location of this potentially contaminating activity (PCA), this former waste dump does not represent an area of potential environmental concern to the Phase I Property.

Waste site Wc-05 (Fairgrounds Dump), was located on the adjacent property at 3774 Carp Road. According to the document, the footprint of the Fairgrounds Dump landfill covered approximately 2,910 square meters with a waste depth of just shy of 1 meter deep. The landfill was reportedly used for domestic waste. No other information was provided in the City of Ottawa Landfill document. Based on the location of this PCA, this former landfill is considered to represent an area of potential environmental concern (APEC) on the Phase I Property.

#### City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment.

The HLUI search results did not identify any activities associated with the Phase I Property, however, twenty-three (23) activities associated with properties within the Phase I Study Area were identified. Nine (9) activities are identified as PCAs and are summarized in Table 2.

TABLE 2: Potentially Contaminating Activities Historical Land Use Inventory Search Results						
Address	Activity Listed	Years Listed	Approximate Distance / Orientation from Site			
Carp Road						
3725	Contracting Company (2 USTs)	1990-2011	127 m SW			
3715	Impacts Prints (Commercial Printing)	2001	125 m SW			
3739	Gas Station	1930-1970	80 m SW			
3727	RJ Nebbs Transportation	2005	129 m SW			
Donald B. Munro Drive						
Not listed	Canadian National Railway coal shed	1934	>80 m S			
421	Automotive Repair Garage	2001-2011	44 m S			
449	Star Fashion / drycleaner	1994-2003	120 m SW			
461	Motor Vehicle Repair Shop	1930-1970	135 m SW			

Based on the separation distance and downgradient location with respect to the subject land, the above noted PCAs are not considered to represent APECs on the Phase I Property. A copy of the HLUI search response is provided in Appendix 2.

#### 4.3 Physical Setting Sources

#### Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following observations have been made:

- 1946 The subject site appears to be vacant agricultural fields. Carp Road and Donald B. Munro Drive can be seen in their current configuration. Langstaff Drive is not present at this time. Surrounding lands along Donald B. Munro Drive and Carp Road are developed and occupied. Adjacent lands to the north/northeast are also vacant and undeveloped at this time.
- 1964 The subject site and surrounding lands appear unchanged from the previous photograph.
- 1976 No significant changes are apparent on the subject site or surrounding properties.
- 1983 No significant changes are apparent to the subject site or neighbouring lands.
- 1999 No significant changes are apparent to the subject site. Langstaff Drive is present at this time. A residential development is present across Langstaff Drive with recreational facilities to the north.
- 2010 No significant changes are apparent to the subject site. Additional developments are present further to the north.
- 2017 The subject site and surrounding lands appear unchanged from the previous photograph.

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

#### **Topographic Maps**

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a southwesterly direction towards the Carp River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

#### Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the southern and northern portions of the property consists of interbedded limestone and shale of the Verulam Formation and intrusive rocks of Syenite, respectively. The site is located in an area where both nearshore and offshore marine sediments are present (sand, reworked glaciofluvial, clay and silt). The drift thickness in the area ranges from 50 to 100 m.

#### Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the site is situated within the Ottawa Clay Plain physiographic region.

#### Water Bodies and Areas of Natural Significance

No bodies of water or areas of natural significance were identified on the subject site or within the study area.

#### Water Well Records

A well record search was conducted on July 2, 2019 for all drilled wells within 250 m of the subject site. The search returned forty-three (43) records, of which, forty-one (41) were domestic wells, one (1) monitoring well, and one (1) abandoned well. All of the well records were identified 20 m or more away from the subject site. Based on the well records, all potable water wells were drilled to depths ranging from 15.8 to 76.8 m below the existing ground surface.

One monitoring well was identified at a residential address (422 Donald B. Munro Drive), approximately 20 m southwest of the subject site. Based on the downgradient location, this property is not considered to pose a risk to the subject site.

Based on the well records, the stratigraphy in the general area consists of sandy clay y, overlying limestone bedrock. No other information was provided in the well records. A copy of the well records has been included in Appendix 2.

### 5.0 INTERVIEWS

No one knowledge about the subject site was available for interviewing at the time of this assessment.

# 6.0 SITE RECONNAISSANCE

#### 6.1 General Requirements

The site visit was conducted on July 2, 2019. Weather conditions were sunny with a temperature of approximately 26 °C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

#### 6.2 Specific Observations at Phase I Property

#### Site Features

The subject property is vacant land covered in grass and low brush with some trees along the property boundaries and a ravine passing through the central part of the site running in a north to south direction. A gravel laneway provides access to the site, fronting Langstaff Drive. Site drainage consists primarily of infiltration.

The site topography is at the grade with Langstaff Drive and slopes down in a southerly direction. The regional topography slopes down in a south-westerly direction towards the Carp River.

No underground utilities were noted on-site. No drains or private sewage systems were observed on the subject property at the time of the site visit. No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit. No areas of stained gravel/ground surface, stressed vegetation or unidentified substances were observed on-site at this time. Stagnant/ponded water was noted in the central portion of the site. No unusual odour or sheen was noted at the time of the visit.

#### **Buildings and Structures**

There are no buildings or structures present on the Phase I Property.

#### **Neighbouring Properties**

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site was as follows:

- □ Northeast Langstaff Drive, followed by residential dwellings;
- South/southwest Residential dwellings and commercial retailers, followed by Carp Road;
- □ Southeast Residential dwellings, followed by Donald B. Munro Drive;
- □ Northwest/west Fairgrounds, followed by recreational facilities.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I Property.

Current land use in the Phase I Study Area is illustrated on Drawing PE4666-2 – Surrounding Land Use Plan in the Figures section of this report.

# 7.0 REVIEW AND EVALUATION OF INFORMATION

#### 7.1 Land Use History

Based on the available historical records, the Phase I Property has never been developed.

# Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Table 2 of O.Reg. 153/04, a historical PCA (Item 58) was identified within the Phase I ESA Study Area: a former landfill located immediately northwest of the Phase I Property at 3774 Carp Road. Based on its location with respect to the subject site, this PCA generates an area of potential environmental concern (APEC) on the Phase I Property.

Other PCAs that did not result in APECs are depicted in green on Drawing PE4666-2 –Surrounding Land Use Plan, in the Figures section of this report.

#### **Contaminants of Potential Concern**

Contaminants of Potential Concern (CPCs) include benzene, toluene ethylbenzene, and xylenes (BTEXs), petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs) in soil and/or groundwater.

### 7.2 Conceptual Site Model

#### Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, the overburden thickness in the area of the subject site is estimated to be on the order of 50 to 100 m. The overburden consists of both nearshore and offshore marine sediments (sand, reworked glaciofluvial, clay and silt). Bedrock in the southern and northern portions of the property consists of interbedded limestone and shale of the Verulam Formation and intrusive rocks of Syenite, respectively.

Groundwater flow is interpreted to be in a southwesterly direction towards the Carp River.

#### **Contaminants of Potential Concern**

As per Section 7.1 of this report, CPCs include BTEX, PHCs, PAHs and VOCs in soil and/or groundwater.

#### Existing Buildings and Structures

There are no buildings or structures on the Phase I Property.

#### Water Bodies and Areas of Natural Significance

No bodies of water or areas of natural significance were identified on the subject site or within the study area.

#### Drinking Water Wells

Based on the MECP well records search, no potable water wells were identified on the Phase I Property.

#### **Groundwater Monitoring Wells**

One groundwater monitoring well was identified 20 m southwest of the subject site. Based on the downgradient location of the monitoring well, it is not considered to pose a risk to the Phase I Property.

#### Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of a combination of residential, institutional, commercial (retailers and restaurants) and recreational. Railway tracks are present 100 m south of the subject land.

# Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, a former landfill operating on the Carp fairgrounds was identified to result in an APEC on the Phase I Property.

#### Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there is one APEC on the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

#### 8.0 CONCLUSIONS

#### Assessment

Paterson Group was retained by Inverness Homes to conduct a Phase I-Environmental Site Assessment (ESA) for 147 Langstaff Drive, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I study area and to identify any environmental concerns with the potential to have impacted the Phase I property.

According to the historical research, the Phase I Property has always been vacant and undeveloped land. Based on historical records, neighbouring land use has consisted of residential, institutional, recreational and commercial.

Five (5) historical potentially contaminating activities (PCAs) were identified, including railway tracks and two (2) former landfills. Based on the downgradient orientation, these PCAs, with the exception of a former landfill, are not considered to represent areas of potential environmental concern (APECs) on the Phase I Property. The former landfill located immediately northwest of the subject site has generated an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The subject site is vacant land situated in a mixed-use area. Neighbouring land use in the Phase I Study Area consists of residential, commercial retail, intuitional and recreational. No other PCAs were identified with the current use of the Phase I Property or lands within the Study Area.

Based on the results of the assessment, it is **our opinion that a Phase II-**Environmental Site Assessment is required for the subject property.

#### 9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Inverness Homes. Permission and notification from Inverness Homes and Paterson will be required to release this report to any other party.

#### Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.

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Mark S. D'Arcy, P.Eng., QPESA

#### **Report Distribution:**

- Inverness Homes
- Paterson Group

### **10.0 REFERENCES**

#### Federal Records

Air photos at the Energy Mines and Resources Air Photo Library. National Archives. Maps and photographs (Geological Survey of Canada surficial and subsurface mapping). Natural Resources Canada – The Atlas of Canada. Environment Canada, National Pollutant Release Inventory. PCB Waste Storage Site Inventory.

#### **Provincial Records**

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled "Waste Disposal Site Inventory in Ontario".
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern

Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

#### **Municipal Records**

City of Ottawa Document "Old Landfill Management Strategy, Phase I -Identification of Sites.", prepared by Golder Associates, 2004. Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

#### **Local Information Sources**

Personal Interviews.

#### **Public Information Sources**

Google Earth. Google Maps/Street View.

# **FIGURES**

FIGURE 1 – KEY PLAN

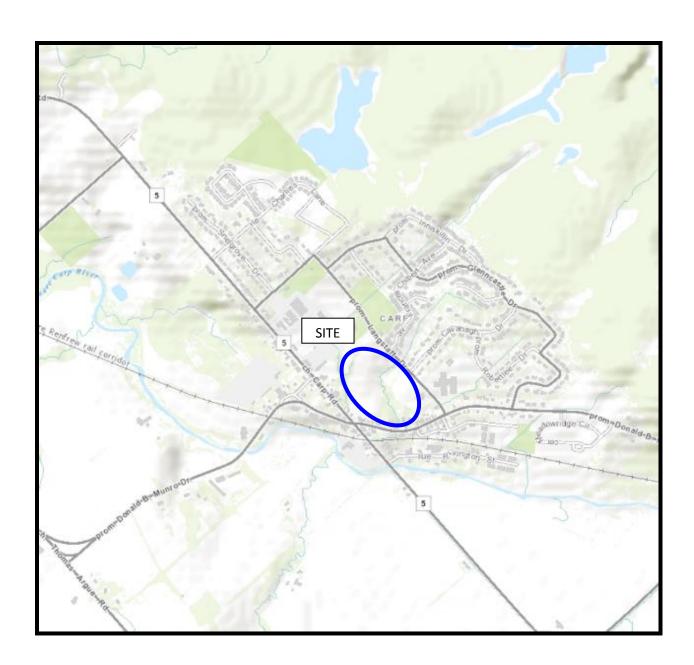
FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4666-1 – SITE PLAN

DRAWING PE4666-2 – SURROUNDING LAND USE PLAN

# patersongroup -

<u>figure 1</u> KEY PLAN



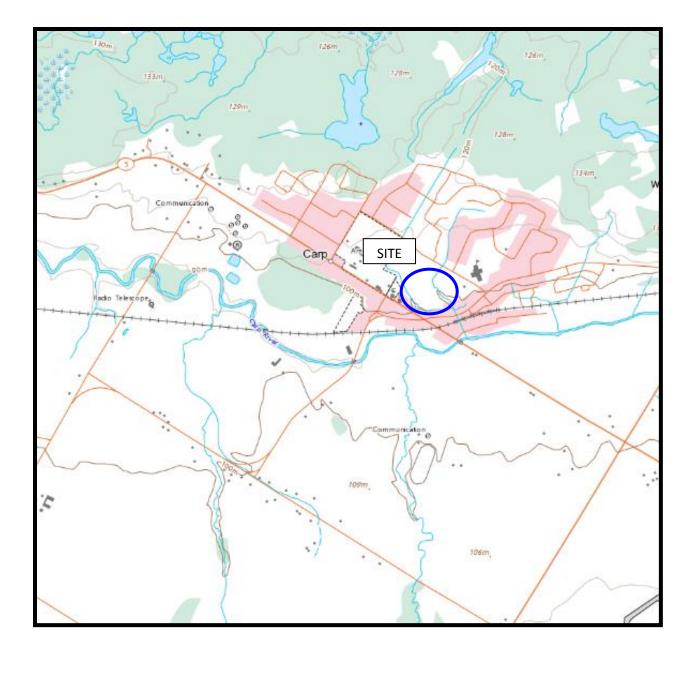
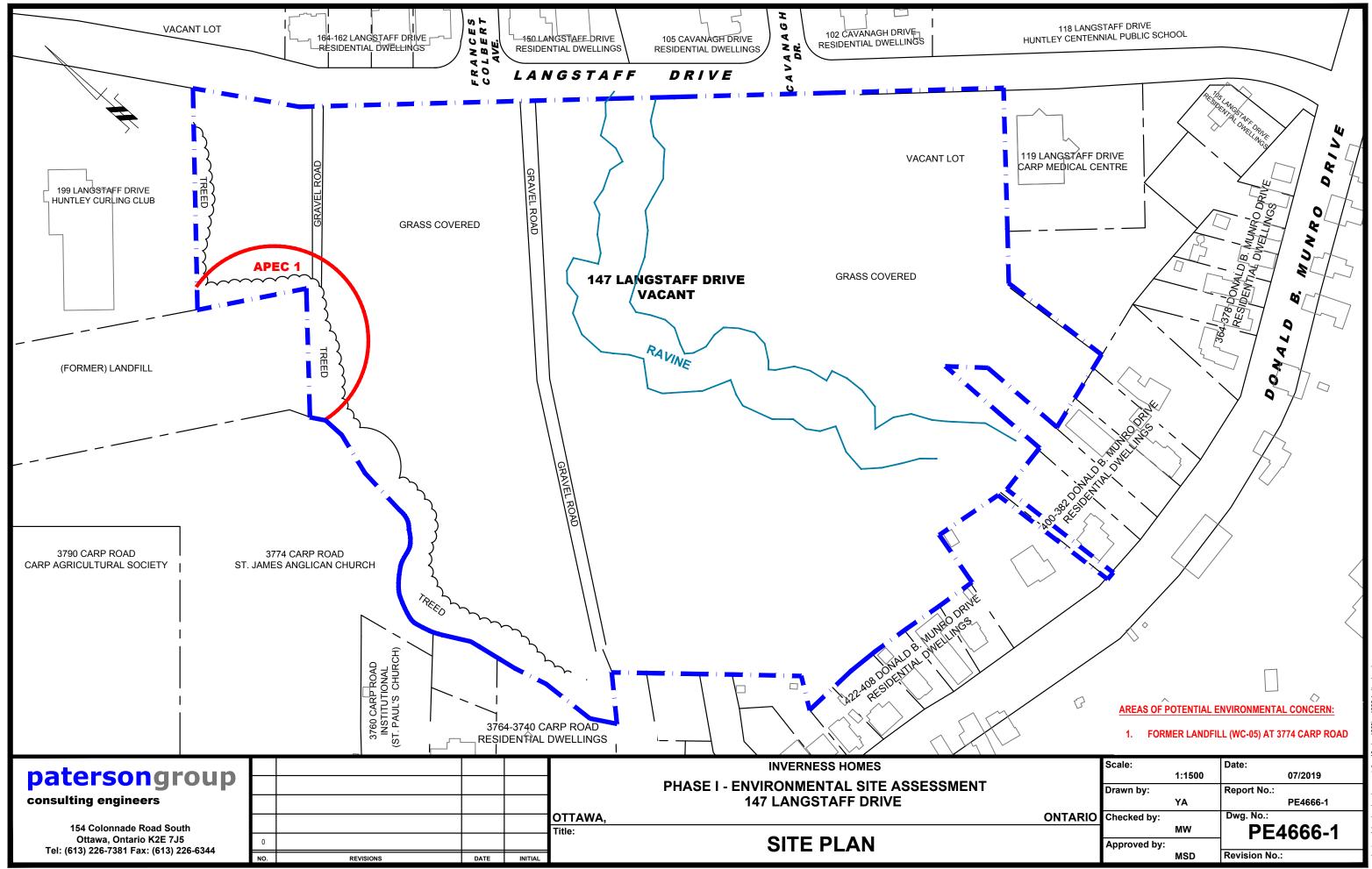
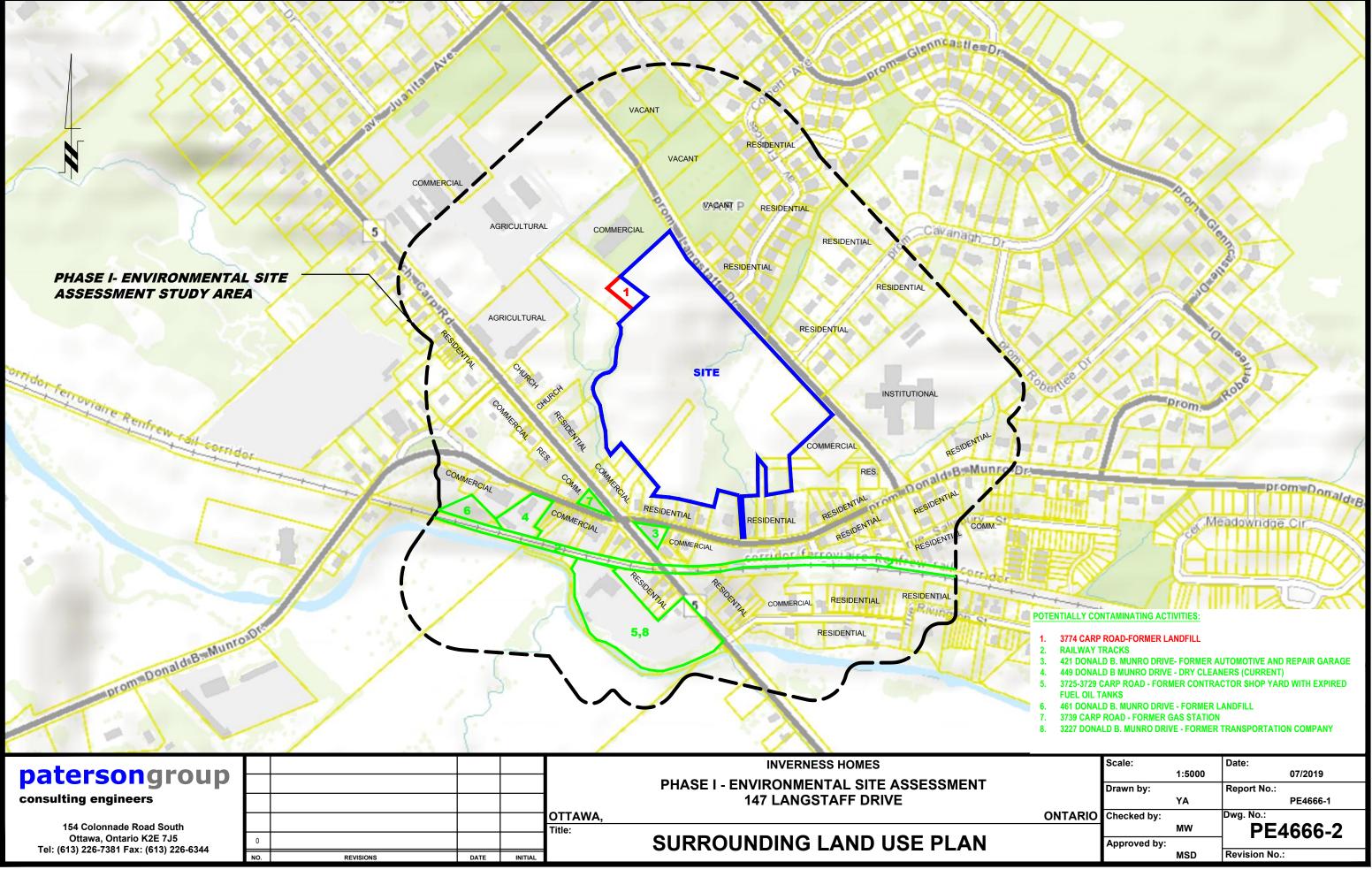


FIGURE 2 TOPOGRAPHIC MAP



ocad drawings\environmental\pe46xx\pe4666\pe4666-1 site plar



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		1:5000	07/2019
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		YA	PE4666-1
ONTARIO	Checked by:		Dwg. No.:
		MW	PE4666-2
	Approved by:		
		MSD	Revision No.:

# **APPENDIX 1**

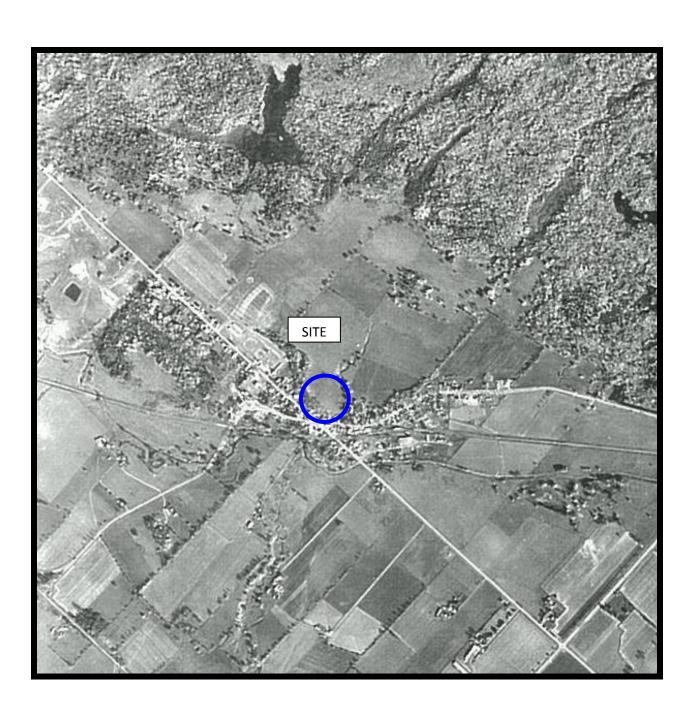
**AERIAL PHOTOGRAPHS** 

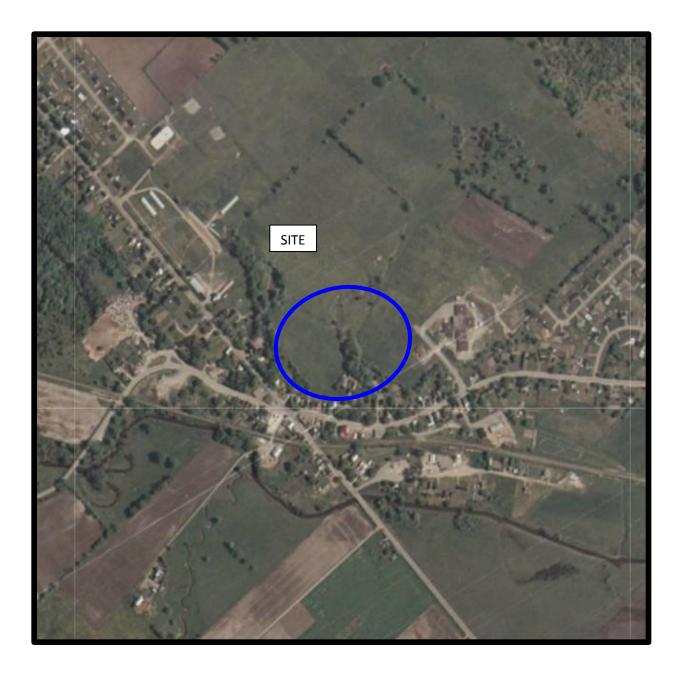
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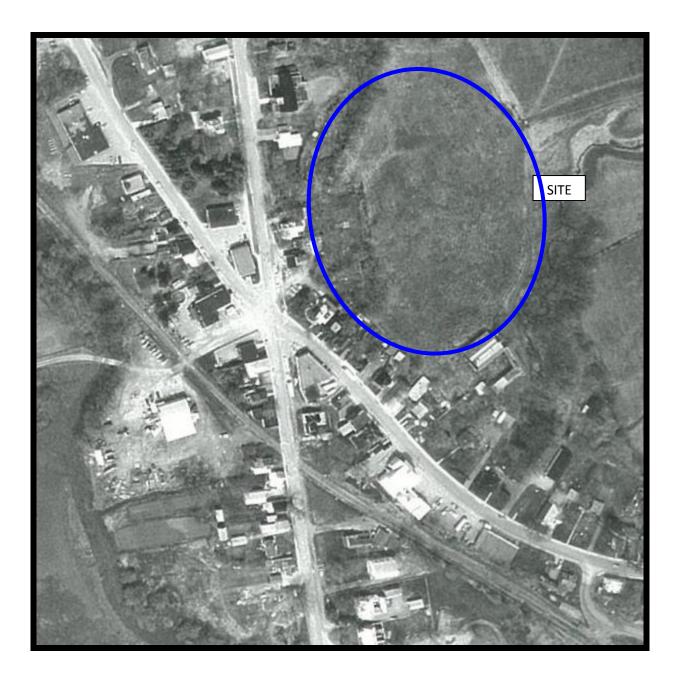


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AERIAL PHOTOGRAPH 1964

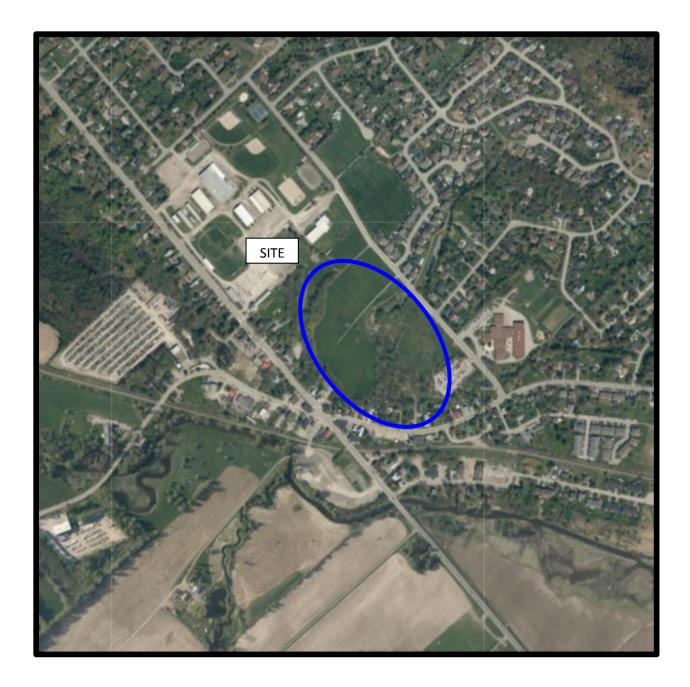












#### Site Photographs

PE4666

147 Langstaff Drive- Ottawa, ON

July 2, 2019



Photograph 1: South east view of the subject site, taken from Langstaff Drive.



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Photograph 2: Southcentral view of the subject site, taken from Langstaff Drive.

#### Site Photographs

PE4666

147 Langstaff Drive- Ottawa, ON

July 2, 2019



Photograph 3: Southern view of the subject site, looking south.



Photograph 4: Southern view of the subject site.

#### Site Photographs

PE4666

147 Langstaff Drive- Ottawa, ON

July 2, 2019



Photograph 5: Northwestern view of the subject site.



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Photograph 6: Northern view of the subject site, looking towards Langstaff Drive.

# **APPENDIX 2**

**MECP FREEDOM OF INFORMATION** 

**TSSA CORRESPONDENCE** 

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement, de la Protection de la nature et des Parcs

Bureau de l'accès à l'information et de la protection de la vie privée

12° étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél.: (416) 314-4075



July 5, 2019

Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5

Dear Mandy Witteman:

#### RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2019-04512, Your Reference PE4666

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 147 Langstaff Drive, Carp.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. We have applied the \$30.00 for this request from your initial payment. This file is now closed.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Dany Briollais at 416-314-4075 or dany.briollais@ontario.ca.

Yours truly,

Janet Dadufalza Manager, Access and Privacy

### **Mandy Witteman**

From:Public Information Services <publicinformationservices@tssa.org>Sent:July-02-19 1:47 PMTo:Mandy WittemanSubject:Re: Search Records Request (PE4666) (No Record)

Hello,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?\_mid\_=392 and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thank you and have a great day,

Roxana



Public Information Agent Facilities and Business Services 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: <u>publicinformationservices@tssa.org</u>

From: Mandy Witteman <MWitteman@Patersongroup.ca> Sent: July 2, 2019 12:24 PM To: Public Information Services <publicinformationservices@tssa.org> Subject: Search Records Request (PE4666)

Good Afternoon,

Could you please complete a search of your records for **underground/aboveground storage tanks**, **historical spills or other incidents/infractions** for the following addresses in Ottawa, ON:

Langstaff Drive: 147, 119, 118 Carp Rd: 3806, 3790, 3709 Cavanagh Dr: 105, 102 Donald B. Munro Dr: 405

Thank you.

Cheers,

Mandy Witteman

## patersongroup

#### solution oriented engineering over 60 years servicing our clients

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 339 Cell: (403) 921-1157

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

### patersongroup

#### **Consulting Engineers**

154 Colonnade Road South Ottawa, Ontario Canada, K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344

Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science Archaeological Services

www.patersongroup.ca

July 4, 2019 File: PE4666-HLUI

City of Ottawa 110 Laurier Avenue W Ottawa, Ontario K1P 1J1

Subject:

#### Authorization Letter, HLUI Search Phase I-Environmental Site Assessment 147 Langstaff Drive, Ottawa ON

Dear Sir or Madame,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner:

Name of Representative

Authorization of Representative

Date

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UTM 1/18 2 4118980 E SHOUND WATER BRAN 9 R 5021470N Elev.  $|9|_{R}$  03120 ONTARIC OCT 29 1957 The Water-well Drillers Act, 1954 Basin 25 **Department** of Mines Water-Well Record Carl Arounchip, Village, Town or City. Handley n Village, Town or City). Manual County or Territorial District. ades Carp 2nt (day) (month) (year) Pipe and Casing Record **Pumping Test** Casing diameter(s) Length(s) 75 Type of screen Homemade Well Log Water Record Depth(s) at which Kind of water From Overburden and Bedrock Record То No. of feet (fresh, salty, or sulphur) 3 ft. ft. water(s) water rises found Sand 75 0 75 35 resh For what purpose(s) is the water to be used? 12 2 office Location of Well In diagram below show distances of well from Is water clear or cloudy? \_\_\_\_\_\_ road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside?..... た upland p Drilling firm . W. M. E. Spilling firm Address 413 Edgeworth auce Name of Driller . M. 7M. E. Staard N. Y. M. Address 413 Edgeherth ave Licence Number 27 Amps I certify that the foregoing statements of fact are true. Date QCL22/5710 711 & banko Signature of Iscensee

Form 5

CSS.58

JEI/ UTM 18 2 4 18 8 8 0 E Nº. 020 23 954 5 R 5021540 N GEOLUGICAL BRANCH Elev. R 0320 The Water-well Drillers Act, 1954EPART ANT of INS Basin 25 **Department** of Mines Water-Well Record County or Territorial District. Culution Township, Village, Town or City. Village, Town or City)..... Lu/ (month) (year) 98 Pipe and Casing Record **Pumping Test** Casing diameter (s) ..... S inho Static level ..... Length(s) Pumping rate 300 Tex 19 67 files Type of screen ..... RT hn Length of screen ..... Duration of test ...... Well Log Water Record Depth (s) Kind of water From at which No. of feet То Overburden and Bedrock Record (fresh, salty, or sulphur) water(s) ft. ft. water rises found 156 18 Iriah mart For what purpose(s) is the water to be used? our Location of Well In diagram below show distances of well from Is water clear or cloudy?..... road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside?. Mullsich <u>8</u> Drilling firm ..... neme Address 1898 Careland 6-77. G. 1. 2 Name of Driller A Correction Address 663 Advance ..... I certify that the foregoing statements of fact are true. Date Dec 9/154 7. Consette

Form 5

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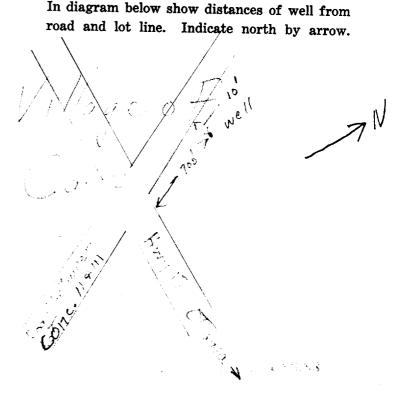
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County or Territorial District.	aletten		p, <del>Village, Town or Ci</del> Village, Town or Cit	I RAI	They
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(dational)	(month)	(year)			
Pipe and Casing			P	umping Test	
Casing diameter(s)	<b>D</b>	Pu Pu	atic level	to fto	Per hos
Well Log			W	ater Record	, <u> </u>
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
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For what purpose(s) is the water ( Is water clear or cloudy? Is well on upland, in valley, or on D Drilling firm Boot Address Address Address Name of Driller Canit Address Address Licence Number Canit I certify that the f statements of fact a Date Dec. 14/54 Sig	Clear hillside?, A.M fusne mg R MC oregoing are true.	side	Loca In diagram below sl road and lot line.		

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JTM		ontari		GROUND WATER OCT 28 1 ONTARIO WA	958
LOT 18		Department of	Mines Recor	RESUBRCES COM	MISSION
Date completed	[958 (month)	in	p, Village, Town or Village, Town or ( RR2, Ki Idress		
Pipe and Casing	Record	<b>(</b>	1979 - Tanan I. January and San	Pumping Test	
Casing diameter(s)       5"         Length(s)       75         Type of screen       nor         Length of screen	ft. Ne	Pu Pu	imping rate	0' 00 gph 0' hr.	
Well Log				Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of wate (fresh, salty or sulphur)
sand limestone	0 66	66 I43	143	83	fresh
			· · · · · · · · · · · · · · · · · · ·		
				······································	

Is water clear or cloudy?Clear
Is well on upland, in valley, or on hillside?
Drilling firm F.A. McLean & Son
Address Ottawa
Name of Driller
Licence Number
I certify that the foregoing statements of fact are true. DateJune 9,
Signature of Licensee



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ting JD UTM 1 8 Z 4 1 8 8 2 0 E **15** Nº 30 GROUND WATER BRANC 3074 5 R 5021560N Elev. 6 18 - 19 3 6 0 AUG - 5 1958 The Water-well Drillers Act, 1954 Basing 2+5 8 **Department** of Mines ONTARIO WATER RESOURCES COMMISSION Water-Well Record County or Territoria District light Township, Village, Town or City Huntley n Village, T<del>own or City</del>). Carp OAL Address Carp Ont (day) (month) (year) Pipe and Casing Record **Pumping Test** Length(s) 50•••• Type of screen Homemade Pumping level 25' Duration of test 12. Kr Well Log Water Record Depth(s) at which From Kind of water Overburden and Bedrock Record то No. of feet (fresh, salty, or sulphur) ater(s) found ft. ft. water rises San <u>55'</u> 0 551 resh WAM For what purpose(s) is the water to be used? Location of Well house In diagram below show distances of well from Is water clear or cloudy?....Clean oad and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside?..... = 50' ublant Address ..... Licence Number. 421 I certify that the foregoing statements of fact are true. Date May 21 W M & Sparks Signature of Licensee LNOWTE 'orm 5 CSS.58

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			n '	, Village, Town or Village, Town or C	ity)	
Date completed	(month)	(year)		dress		
Pipe and Casing	g Record				Pumping Test	
Casing diameter(s)		••••••••••••••••••	Pui Pui	mping rate	5. j	••••••
Well Log					Water Record	
Overburden and Bedrock Record	From ft.	To ft.		Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
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For what purpose(s) is the water t				Loc	ation of Well	44-7
Is water cleap or cloudy ?				In diagram below road and lot line.		
Is well on upland, in valley, or on ]				xouu unu iot init.	indicate north i	Jy arrow.
Drilling firm	uter and a st	Û		1		
Name of Driller	E has k				No of	
Licence Number 10.5-F					1.4	
I certify that the fo						CARP
statements of fact a	could	×			17 My	
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Basin <b>Z</b>			mission Act, 199				
County or District Carleton		Township,	, Village, Town o	r City Han	They		
Con	18	Date com	pleted 19	Cet.	59		
		ddress	Carp	month	year)		
Casing and Screen Record	đ		Pu	mping Test			
Inside diameter of casing		Static le	·····				
Total length of casing 108'		1	nping rate		G.P.M.		
Type of screen		1 1	z level $2$	5'	G.P.M.		
Length of screen		Duration	n of test pumping	3 hours	L		
Depth to top of screen		Water c	lear or cloudy at	end of test	lear		
Diameter of finished hole			ended pumping	rate S	G.P.M.		
		with	pumping level o	f			
Well Log	1		Wa	ter Record			
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)		
Joom	0	6'			-		
Rhu Plan		60'					
	(e						
Juch Sand	60'	102'					
Gravel	102	108	108'	91'	Lest		
					/		
For what purpose(s) is the water to be used?		1	1		14		
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Is well on upland, in valley, or on (hillside?)		roa	d and lot line	how distances of Indicate north			
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Drilling Firm D. O. moe Ha	4.	6	EET		W		
Address Kinber	0,			17)	12		
Audress		e te					
Licence Number 270	NL	11		Be H			
Name of Driller Douglas mae	1 Vil	Mage of	S. One	14			
Address Kinban			D Strain	in the second se			
Address Curburn Date Oct 29. 59			- St		-		
Douglas mar Hardy. (Signature of Licensed Drilling Conjunctor)			nt	-/			
			~ Nett?	/			
Form 5 15M-58-4149			C.N.A.		5 <u>8</u>		
		/ /			1		

Basin 23	rio Water Re ER W	ELL Township	npleted (day	15 1960 MATER MISSION D or City Month	
Casing and Sereen Descal					
Casing and Screen Record				mping Test	
Inside diameter of casing $3$ Total length of casing $82$			evel / 4		
			mping rate	150	
Type of screen		Pumpin	g level $\partial O$		
Length of screen	J	Duratio	n of test pumping	g Z	hes
Diameter of finished hole	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. Water c	lear or cloudy at	end of test	leac
	·····	.   Kecomn	nended pumping STTTIN pumpin <del>g level o</del>	rata _ 1.51	1
		with	pumpin <del>g level o</del>	r 20	[2] 
Well Log	1		Wa	ter Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
Sand	0	80			
- Francel Bolders	80	82	52	- 68	Clean.
			, e		FRESH
For what purpose(s) is the water to be used?	1	<u> </u>			117
1 of what purpose(s) is the water to be used?		1.20	Locatio	on of Well	
1. Dusenous	••••••••••••••••••••••••••••••••••••••		diagram below s		
Is well on upland, in valley, or on hillside?		roa	id and lot line.	Indicate north	by arrow.
traffey			N		
Drilling Firm A /3 Defresses	c 6 Stil	1			
Address 1011 mulland	Au				
ollawa				P	•
Licence Number			42	Ny 17	
Name of Driller B. Desfarges		-		100	
Address Address		and the second		V,	
a falle			Ç	N/L	
Date $O(39)$			~	Top 1	
(Signature of Licensed Drilling Contractor)		· ·		A RULLING	
Form 5 15M-58-4149				CS	5.53

UTM 41/181914:0E COUND FWATEN BRANCES 0 8 5021440N APR 6 1960 Elev 3110 The Ontario Water Resources Commission Act, 1957 ONTARIO WATER RECOURCES COMMISSION 215 Basin WELL RECORD WATER an County or District...... Ŕ 11a te completed.... dress **Casing and Screen Record** Pumping Test . C Inside diameter of casing..... 0 Static level... Test-pumping rate. Total length of casing G.P.M. Type of screen..... Pumping level..... Length of screen..... Duration of test pumping.... Depth to top of screen..... Water clear or cloudy at end of test..... 6 t i Diameter of finished hole..... Recommended pumping rate 2000 6 G.P.M. 80 with pumping level of.... Well Log Water Record Depth(s) at which Kind of water From ft. To ft. No. of feet water rises (fresh, salty, sulphur) Overburden and Bedrock Record water(s) found For what purpose(s) is the water to be used? Location of Well GORUL 0 In diagram below show distances of well from road and lot line. Indicate north by arrow. on hillside? Is well on upland, in valley, or Drilling Firm. *₹*∠; Address CARP Licence Number..... Name of Driller Address **⊰**₀, Date Contractor) CSS.58

UTM $                                     $	LL REC Fownship, Village, 7 Date completed	Act ORD Fown or City. 9 (day	Huntley 12 month	9 3089 1961 year)
	ldress Carp,	ontario	)	
Casing and Screen Record			ng Test	
Inside diameter of casing $6.3/16$	Static level	***************************************	51	
rotar length of casing	Test-pumping ra	ate 3	so & plt	GP
Type of screen Mil				·····
Length of screen Nil	Duration of test j	pumping	l Hr.	
Depth to top of screen Nil	Water clear or cl			
Diameter of finished hole $6 3/16$	Recommended p	oumping rate	500 FP	H GHE
	with pump settin	ng of <b>40</b>	/	w ground surface
Well Log			· · · · · · · · · · · · · · · · · · ·	r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
	0	30	641	Fresh
Clay & Sand Sand & Gravel	30	40		
Gravel	40	<u>    60                                </u>		
For what purpose(s) is the water to be used? House		Location		
	In diagram	1 below show lot line. Ind	distances of well icate north by a	from
Is well on upland, in valley, or on hillside? Hillside			• 1	
Drilling or Boring Firm J. B. Dufresne & Co. Ltd. 1014 Maitland Ave.			* 6/ /	74
			$\mathbf{Y}$	· / ·
Address Ottawa, Ont.			4	
Licence Number 194			1	
Name of Driller or Borer W. Roy	CAR	p 2	$\sim$	
Address Hull, Que.	CAP		1 Mg	
Date Dec. 9th. 1961				$\sim$
DR. Suela		1		
(Signature of Licensed Drilling or Boring Contractor)	ONI	ry STR	EET EAST	1
<i>i</i> Form 7 15 <b>M</b> Sets 60-5930	INV	ILL AGE		
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UTAD $ B ^{Z}$ $ 4  B B 5 0 ^{E}$ $ 5 ^{R}$ $ 5 0 2  5 2 0 ^{N}$ Ontario Water Res Elev. $ 4 ^{R}$ $ 6 3 6 0$ WATER WE Basin $ 2 5 $ County or District Certeton Con. 2 Lot $ 8 $	LL REC	ORD Fown or City 11 (day	15 N JUN 1 ONTARI RESOURCES	L 1962 O WATER COMMISSION DATE L962 year)
Casing and Screen Record		Pumpin	g Test	
Inside diameter of casing 6 3/16	Static level	13'		
Total length of casing. 64 t	Test-pumping ra	ate 500	gal P.H.	G.P.M.
Type of screen N				
Length of screen				
Depth to top of screen E	Water clear or cle			
Diameter of finished hole 6 3/16				G.P.M.
				ow ground surface
Well Log	1		· · · · ·	r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water
Clay	0	20	64	fresh
Yellow Sand Gravel	20 60	60		
		64		
Foundation ( ) to the to the House				
For what purpose(s) is the water to be used? House	<b>.</b>	Location o		
Is well on upland, in valley, or on hillside? Hillside Drilling or Boring Firm J.B. Dufresne & Co. Ltd. 1014 Maitland Ave. Address Ottawa, Ontario.	road and	lot line. Indi	distances of wel	ll from arrow.
Licence Number 194				
Name of Driller or Borer R. Laniel Address 18 Trudeau St. Hull, Que Date April 12, 1962 (Signature of Licensed Drilling or Boring Contractor) Form 7 1511 Sets 60-5930	CTURDIT		√ <sub>2</sub> 5 <sup>1</sup> → 3 <sup>0</sup>	
			<b>C</b> 85.5	8

GROUND WATER BRANCH 1 8 Z 4 19 1 8 0 E JUN 1 1962 No 5 R 5 0 2 1 5 2 9 N The Ontario Water Resources Commission ActRESOURCES COMMISSION 4 R 103 210 Eley. WELL RECORD Basin 25 County or District .Township, Village, Town or City. 7 Con. Lot Date completed. (day ar dress... **Casing and Screen Record Pumping Test** 24 Inside diameter of casing..... Static level ..... 10 Test-pumping rate G.P.M. Pumping level 24Type of screen Duration of test pumping 2 days Length of screen Depth to top of screen Water clear or cloudy at end of test r Recommended pumping rate 10 Diameter of finished hole 5 G.P.M. with pump setting of **70** feet below ground surface Well Log Water Record Depth(s) at which water(s) found Kind of water From То Overburden and Bedrock Record (fresh, salty, sulphur) ft. ft. 9 0 Ô ۵/ MEDIUM 69 Location of Well For what purpose(s) is the water to be used?... In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Address 1243Ollawa 482 Licence Number Name of Driller or Borer Address..... to Date (Signature of Licensed Drilling or Boring Form 7 5M-61-3852 805.33 OWRC COPY

GROUND WATER BRANCHY 5 R 5 0 2 1 3 6 0 N The Ontario Water Resources Commission Act EE 26 t Elev. 92 1103110 ONTARIO WAL FR WELL RECORD **RESOURCES COMM** Township, Village, Town or City The Blo Date completed Lot.... Con...... ..... ldress\_\_\_\_\_ Casing and Screen Record **Pumping Test** Inside diameter of casing 6 -Static level 7.6 Total length of casing 83 Test-pumping rate 19 G.P.M. Pumping level 10 ft. Type of screen # 12Duration of test pumping 2 kg. Length of screen 4 Depth to top of screen.... Water clear or cloudy at end of test Diameter of finished hole Recommended pumping rate / D G.P.M. with pump setting of 20 feet below ground surface Well Log Water Record Depth(s) at which water(s) Kind of water From To ft. Overburden and Bedrock Record (fresh, salty, sulphur) ft. found 20 sand 85 hear For what purpose(s) is the water to be used? **Location of Well** donestic In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? ralle Drilling or Boring Firm A. Stanton Address Pakenham Licence Number 6 43 Name of Driller or Borer H. Stanton Pakenham Address... 63\_\_\_\_ Date (Signature of Licensed Drilling or Boring Contractor) Form 7 15M Sets 60-5930 OWRC COPY

UTN $18^{2}4118820^{E}$ $5^{R}50211549^{N}$ Elev. $4^{R}6320$ WATER WELL Basin $25$ County or District Garleton T Con. 2 Lot 146 Mein Street D	ownship, Village, T ate completed	ORD Town or City 25 N (day	OV 6	IO MIER MISSION
Casing and Screen Record		Pumpin	a Test	
Inside diameter of casing 6 3/16"	Static level			
Total length of casing <b>XXX</b> 106				G.P.M.
Type of screen				G.P.M.
Length of screen	Duration of test			
Depth to top of screen -	-			
Diameter of finished hole 6 <sup>11</sup>				G.P.M.
	-	× ·3		w ground surface
Well Log	with pump setting			r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0	40	104	fresh
Sand	40	75		
Gravel	75	106		
For what purpose(s) is the water to be used?		Location	of Well	
House MAASE. Is well on upland, in valley, or on hillside? Drilling or Boring Firm J.B. Dufresne & Co. Ltd., Address 1014 Maitland Ave., Ottawa 5, Ont. Licence Number 1032 Name of Driller or Borer W. Roy Address 79 St. Jean Baptiste, Deschenes, Quebec. Date 28 November 1963 (Signature of Nicekeer Spring (Atractor) (Signature of Nicekeer Spring (Atractor) Form 7 15M-60-4138 OWRC COPY		of line. Inc	distances of well licate north by	

UTM V I R Z 4 I 9 I 0 0 E O S R 5 0 2 I 4 2 0 NThe Ontario Water Resources Commission Act WATER RESOURCES 3089 JUN 17 1965 0315 WELL RECORDONTARIO WATER WATER Township, Village, Town or City Basin 25 County or Distric Date completed 17 March Lot Con. 1 Gyear) Carp Pumping Test dress..... Casing and Screen Record Inside diameter of casing **C**: Static level 20 Total length of casing... Test-pumping rate 10 G.P.M. Pumping level 70 Type of screen .... Duration of test pumping 2 hro. Length of screen Depth to top of screen.... Water clear or cloudy at end of test Diameter of finished hole with pump setting of  $10^{\circ}$  feet below ground surface Well Log Water Record Depth(s) at Kind of water From To Overburden and Bedrock Record which water(s) (fresh, salty, sulphur) ft. ft. found 0 10 184 60 184 For what purpose(s) is the water to be used? Location of Well NEW house In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? ..... Drilling or Boring Firm A. Stanton Address Pykenhum CAIP Licence Number 1691 Name of Driller or Borer Laune -----Address Date.. ignature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138 10558 OWRC COPY

UTM 18 2 41186170 E AGER REQUIRCES 5021740 The Ontario Water Resources Commission Act DIVISION Elev. 4 R 0320 WATER WE RECORD Basin 2 5 County or District ...Township, Village, Town or Cit Lot Con. Date completed dress  $\mathcal{L}_{\mathbf{z}}$ **Casing and Screen Record Pumping Test** Static level 18 Inside diameter of casing 63 Total length of casing 69 Test-pumping rate 12. G.P.M. Pumping level 24 Type of screen Duration of test pumping 2 hrs. Length of screen... Water clear or cloudy at end of test -clean Depth to top of screen..... Diameter of finished hole  $\ell_{\pm}^{\prime \prime \prime}$ 10 G.P.M Recommended pumping rate.... with pump setting of 45 feet below ground surface Well Log Water Record Depth(s) at Kind of water To ft. From Overburden and Bedrock Record (fresh, salty, sulphur) which water(s) ft. found 0 69 For what purpose(s) is the water to be used?, Location of Well domestic HALL In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm A. Stanton Address Paken Kan Licence Number 169 Name of Driller or Borer A. Stanton Address Address Date.. (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138 eeg 53 OWRC COPY

$\begin{array}{c} (\mathcal{A}) \\ UTM \\ 1 \\ 5^{R} \\ 5 \\ 5^{R} \\ 5$	urces Commission	Act	un <b>15 - N</b> 197 g († 1935	[9 <b>30</b> 91
Elev. 4 R 0 3 10 WATER WEL Basin 2 5 County or District Carleton	ownship, Village, 7	ORD REG	CHTAED WATER DE DE GO LLOS HUNTIE . 1965 month	year)
	dressC	arp, Ont		/
Casing and Screen Record			<u>7 4/4 57</u> ng Test	
Inside diameter of casing 6-3/16"	Static level			
Total length of casing <b>66</b>	Test-pumping r	ate 600	hr.	G-P-M.
Type of screen	Pumping level	110		
Length of screen				
Depth to top of screen	Water clear or cl	•		
Diameter of finished hole 6-3/16*	Recommended	pumping rate	600 hr.	GPDF.
Well Log		-		er Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water
clay	0	20	66	fresh
sand	20	55		
gravel sand gravel	<u>55</u> 64	64 66		
For what purpose(s) is the water to be used? <b>house</b>	- II	Location		
Is well on upland, in valley, or on hillside? hillside Drilling or Boring Firm J.B. Dufresne & Co. Ltd 1014 Maifland Ave. Address Ottawa, Ont.		lot line. Ind	distances of we	
Licence Number 13C7 Name of Driller or Borer W. Roy Address	COUNT BR.		I -	
Date October 20th 1965 Signature of Licensee Drilling or Boring Contractor) Form 7 15M-60-4138 OWRCCOPY	C. A. Market	Xier	ARP.	the NY

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UTM 18 2 4191140 E		)		TER REALECES N	9 3092
5021440The Ontario W	ater Resource	s Commission	Act	nu gin 1925	
Elev. 4 R 0320 WATER	WFII	REC	<b>NR</b> D.		X
D . 2.6			E RESCH	121-S (D1112310)	
County or District Carleton Con. 2 Lot E /					1045
Con. Lot J	Date (	completed	(day	October month	1965 year)
	dre	ess Kidd S	t. Carp,	Ontario.	
Casing and Screen Record				ng Test	
Inside diameter of casing 6 and 3/16		atic level	30		
Total length of casing 95*		est-pumping ra	ate 2000	G.P.H.	-G.P.M:
Type of screen	1	• 0			
Length of screen		uration of test	pumping	2 hours	
Depth to top of screen	W	ater clear or cl	oudy at end o	of test. clear	
Diameter of finished hole 6 and 3/16	R	ecommended p	oumping rate	2000000	H. O.P.M.
	w	ith pump settir	ng of <b>21</b>	feet belo	w ground surface
Well Log				Water	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay		0	30	95	fresh
sand bolders		<u>30</u> 80	<u>80</u> 85		
gravel sand		85	95		
	1			of Well	
For what purpose(s) is the water to be used? <b>house</b>		In diagrar		of well distances of wel	l from
Is well on upland, in valley, or on hillside? <b>hillside</b>		•		dicate north by	
			<b>K/</b>		
Drilling or Boring Firm J.B. Dufresne & Co. <sup>L</sup> td.	.,		-1		-
Address 1014 Maitland Ave., Ottawa	. Ont.		1		
				`//	
Licence Number 1307		n DR	P		
Name of Driller or Borer W. Roy		<i>2 1 1</i>	4	to.	
Address 79 St-Jean Baptiste Deschenes,	Que.			WELL	
Date October 21st, 1965			CHINE AND	1	£
for A.B. Dufresne & Co. "td.		H	3M		/
(Signature of Licensed Drilling or Boring Contractor)		L_		Ro 17	
Form 7 15M-60-4138			COUNTY	· RD. 17	
OWRC COPY					2 (2 <del>1</del> ) 2
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UTM $187419160E$ 5R5021529P Ontario Water Resc Eleve $4R0330$ WATER WEI Basin 25 Con. $72$ Lot $7777$	LL REC	ORD Town or City (day Cary	montif	8 1966 WATER WATER WATER WATER SION
Casing and Screen Record Inside diameter of casing.		Pumpin		
Total length of casing 98				G.P.M.
Type of screen				
				eren
Depth to top of screen Diameter of finished hole $\begin{pmatrix} -4 & 4 \\ -4 & 4 \end{pmatrix}$				G.P.M.
			•	low ground surface
Well Log	r pp		1	er Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s found	Kind of water
fine sand	0	95	98	perk
Course sound	9.5	98		
For what purpose(s) is the water to be used?		Location		
Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm A! Stanton Address Jakenham	-	m below show lot line. Ind		
Licence Number 2/80 Name of Driller or Borer 59MC Address 11 Date Mus 29/46 Mustin Stanton (Signature of Licensed Drilling or Boring Contractor)				12
Form 7 10M-62-1152	r.			· • • • • • • • • • • • • • • • • • • •
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UTN 518 Z 4118940 E No 309 5 R SO21540 N The Ontario Water Resources Commission Act 4 R 0320 Elev. WATER WE RECORD Basin 25 County or Distri Township, Village, Town or City Public School area Date completed Con. 2 Address (print in block letters) **Casing and Screen Record Pumping Test** Inside diameter of casing 6443 Static levei .... Total length of casing 198 Test-pumping rate 15 GPM Pumping level 43'-9''Type of screen Duration of test pumping 8 hrs. Length of screen Water clear or cloudy at end of test Depth to top of screen .... ュー Diameter of finished hole Recommended pumping rate G.P.M. with pump setting of /00 feet below ground surface Water Record Well Log Kind of water Depth(s) at From To ft. which water(s) found Overburden and Bedrock Record (fresh, salty, ft. sulphur) 43 le o Ö 198 43 98 Location of Well For what purpose(s) is the water to be used? school In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? uplane Drilling or Boring Firm A. Stanton akenhan Licence Number 2180 Name of Driller or Borer 5 G M C Address Date fler 12/66 (Signature of Licensed Drilling or Boring Contractor) Form 7 10M-62-1152 OWRC COPY

UTM 1 1 8 Z 41 8 6 5 5 E Lot 18 TR 5 0 1 1 1 7 1 9 10 The Ontario Water Reso Elev R. 0 3 5 1 3 WATER WEI Basiant or Elevice Letter T Con. 2 II Lot 18 11 1	LL REC	ORD	15 N MAY ONTAK BESOURCE	RESOUNCES INSIDI 3 1968 NO WATER COMMISSION
Casing and Screen Record				
		Pumpin		<u></u>
Inside diameter of casing 5	Static levei			
	Test-pumping r			G.P.M.
Type of screen	Pumping level	•		
Length of screen	Duration of test			1
Depth to top of screen Diameter of finished hole Diameter of finished hole	Water clear or cl			
Diameter of finished hole 5	-		•	G.P.M.
	with pump settir	ng of 20	0 feet be	low ground surface
Well Log			Wat	er Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s found	
Loan	0	4	163	head
fine sand	0	75	234	
grey limstone	73	238		
For what purpose(s) is the water to be used?	T., dia	Location		11 (
gan groundes	•		distances of w icate north by	
Is well on upland, in valley, or on hillside? upland. Drilling or Boring Firm A. S. G. X. O. X.			<b>N</b>	
Drilling or Boring Firm A - 2/ GN[ OK		120	311 ,	
Address Pakentan		R	3 20.	<i>→</i>
Address 4/1CN/1979		Ŕ	e la	$\mathcal{N}$
2010		KA .	FII.	/
Licence Number 3060		182	U 1100	
Name of Driller or Borer 59140		$\sim$	Jh.	
Address.				
Date Agril 26/68		$\frown$ $\rho$	/ _¶;q	
(Signature of Licensed Drilling or Boring Contractor)		( Ar	'	$\mathbf{X}$
		$\smile$		$\setminus \setminus$
Form 7 15M-60-4138			41	$\backslash$
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UTM 1 8 8 4 1 8 8 3		K.	* Ve	mals 1	Nº 3142
5 50 7 146	I O N		<u>N</u>	GROUND W	ATER BRANCH
Elev. 4 R 0 3 40		ONTAR	10	MAD	1 6 <b>1959</b>
Basin 25 - 1/8			ers Act, 1954		
		artment of			10 WATER COMMISSION
	water-	Wel	l Recor	d	
		ı	ip, Village, Town or	City. Hum7	44
		a	Village, Town or C	ity)	
Date completed	<b>1958</b>	A	ddressCarp(	)nt	••••••
(day)	(month)	(year)			
Pipe and Casin	g Record			Pumping Test	
Casing diameter(s)	•	S	tatic level15	1	••••••••••••••••••••••••••••••••••••
Length (s)         97           Type of screen         no	ne	P	umping rate	Ugpn I	•••••
Length of screen		P D	umping level	hrs	••••••
		<b> </b>			
Well Log	<b>5</b>			Water Record	
Overburden and Bedrock Record	From	То	Depth (s) at which	No. of feet	Kind of water (fresh, salty,
	ft.	ft.	water(s) found	water rises	or sulphur)
clay	0	40			
limestone	40 97	97 I38	I38	I23	fresh
					110511
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
		······································			
			· · · · · · · · · · · · · · · · · · ·		
For what purpose(s) is the water	to be used?		Ioo	ation of Well	an
hous			In diagram below :		well from
Is water clear or cloudy? Is well on upland, in valley, or on			road and lot line.		
is wen on upland, in valley, or on	<b>ルポコ</b> コ <i>"</i> ポコ				/V M
Drilling firmF.A. McLean	& Son	••••		4	LL
Address	•				2
Name of Driller		、			CaR
Address		•••••			
Licence Number	•	1. 1. 1.		E Contraction of the second se	
I certify that the	foregoing				
statements of fact	are true.		12-0	Hu.	
Date Mar. IO	Lea			"	
Sig	gnature of Licensee				7
m 5				Cop.	and the second sec
				Loop Rel	
				17 1817	$\sim$

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UTM $18^{2}$ 418740 E $5^{R}$ 5021589 <sup>h</sup> Ontario Water Reso Elev. 4 R 0330 WATER WEL Basin 25 Lot 18 April 700 T	Ownship, Village, 7	ORD Cown or City (day	RESOURCES HOXT	NO WATER S CONTRECTION
Casing and Screen Record		Pumpin	ng Test	
Inside diameter of casing       43         Total length of casing       43         Type of screen       43         Length of screen       5         Depth to top of screen       5         Diameter of finished hole       5	Test-pumping r Pumping level Duration of test Water clear or cl Recommended	ate pumping loudy at end of pumping rate	3 60 f test f test	G.P.M. <i>G.P.M.</i> <i>G.P.M.</i> <i>G.P.M.</i> w ground surface
Well Log				r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
elipy	0	43		
L /mistor	43	92	95	
For what purpose (s) is the vater to be used? HULS É Is well on upland, in valley, or on hillside? Drilling or Boring Firm M H E H = H E R Address Licence Number Licence Number 6/S Name of Driller or Borer Address Date F E B S 6 3 (Signature of Licensed Drilling or Boring Contractor) Form 7 10M-62-1152 <b>OWRC COPY</b>	road and	am below show	of Well w distances of we adicate north by 5° NE CSS	arrow.

UIM 118 2 411817180 E SCUNDIS Sale 15 31/4 No 1 1 1 1967 5 R 5021450He Ontario Water Resources .Commission Act WATER WELL RECORD Elev. 4 R 03110 Basin 2 5 Lot Con. Carp ress Pumping Test Casing and Screen Record Static level 20 Inside diameter of casing 64 Test-pumping rate G.P.M. Total length of casing 74 Pumping level 28 0 Type of screen Duration of test pumping / M. Length of screen Water clear or cloudy at end of test ...... Depth to top of screen Recommended pumping rate \_\_\_\_\_\_G.P.M. Diameter of finished hole 64 with pump setting of  $\mathcal{U}$ feet below ground surface Water Record Well Log Depth(s) at Kind of water То From which water(s) (fresh, salty, Overburden and Bedrock Record ft. ft found sulphur) 24 0 Ò t purpose(s) is the water to be use. house I STadi Lilleide? valley. Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm A. Stanton Address Patenham Licence Number 2180 Name of Driller or Borer SqMP Address ... Date Oct 21/66 August Dicensed Drilling or Boring Contractor) Form 7 15M-60-4138 eve sa OWRC COPY

W	DIRE			
UTM 18 2 4119000 E	<b>)</b>			TER BRANCH
$\frac{19}{19} R = \frac{5021141612}{160} R$	FOI-		15 N SEP 2	4 1962
Elev: <u>9</u> R 0320 WATER WEI			ONTARIO	IVATER P
Basin 251 Couleton County or District Con. 2 Lot 18		UKU	hama	SIGN I
Con. Lot 18	Fownship Village, 1	lown or City. 3.1	Agot.	I HUNTLEY
		(au)	moeth	year)
	dress 🐱	p out	•	
Casing and Screen Record			ng Test	
Inside diameter of casing 6 1/4:	Static level	-		
Total length of casing 75''				G.P.M.
Type of screen	Pumping level	70	•	
Length of screen 44.	Duration of test I	oumping	30 min	
Depth to top of screen 76	Water clear or cle	oudy at end o	f test <b>claa</b>	ч.
Diameter of finished hole <b>6</b>				G.P.M.
×	with pump settin	g of <b>6</b> 3	feet belo	w ground surface
Well Log				r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0	40		Sulphul)
- guick sand.	40	65		
coulse sand + pables	65	80	60	fresk.
For what purpose(s) is the water to be used?	T I'	Location		
			distances of wel licate north by	
Is well on upland, in valley, or on hillside? Drilling or Boring Firm Mel M: Ferregler				,
Dritting of boring Firm Mex M. CLARE		-1.6	of agé	
Address askton Ont		WEE . (	ARPARE	
		:	11	
Licence Number 5'93	No.			
Name of Driller or Borer Melaille M. Lucken	$\langle \cdot \rangle$	4		
Name of Driller or Borer Melville M. Langhein Address Gashton brt.			`	
Date Sept 11/62	HM	Y #D		
Theluille M & Faughein		and the second		
(Signature of Licensed Drilling or Boring Contractor)	<i>N</i>		a training and the second	
Form 7 10M-62-1152	S S			
OWRC COPY	7			

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ater management in	Ontario 1. PRINT ONLY IN SF	ATER		15105	MU	NICIP. C	on j zigin i j	
UNTY OR DISTRICT			H, CITY, TOWN, VILLA	AGE 3		, TRACT, SURVEY, ETC		LOT 25-
rarler	e e e e e e e e e e e e e e e e e e e	Hundle	7			DATE	COMPLETED	48-53
		NG	Carp.	RC. ELEVATION	RÇ, BASIN	CODE II	22_MO/	YR.2
			21/15/810	4 0330	$\begin{bmatrix} RC \\ 5 \\ 30 \end{bmatrix} = \begin{bmatrix} BASIN \\ 2S \\ 31 \end{bmatrix}$			
	LO	G OF OVERBUR	DEN AND BE	DROCK MATERIA	LS (SEE INSTRU	JCTIONS)		
ENERAL COLOUR	MOST COMMON MATERIAL	OTHER	MATERIALS		GENERAL DES	CRIPTION	DEPTH FROM	- FEET
	Foam						0	2
ary	fine a	and		-			2	98
F 4	/							-
grey	limestor						98	18
;					- 			
		· · · · · · · · · · · · · · · · · · ·						
1) aaaa 21	$ a_2  $ $ aa_9 $	8208         a	1802/151					
					54 54 54	ENING 31-33	<u>                                      </u>	75 LENGTH 3
1 WATEI		51 CASING &	WALL		C (SLOT NO.)		JIAMETER 34-38	, I
AT - FEET	RESH 3 C SULPHUR	INCHES MATERIA	L THICKNESS INCHES	FROM TO		D TYPE	DEPTH TO TOP OF SCREEN	41-44
15-18 1 C	SALTY 4 I MINERAL		ZED , 188	0 98	[v]	·····		FEET
	SALTY 4 MINERAL	06 4 □ OPEN HO		00 98	61 PLUG	GING & SI		ECORD
1 🗆 F 2 🗋 S	RESH 3 U SULPHUR	2 GALVANIZ 3 CONCRET		0.01	FROM 10-13	TO MATERIAL		PACKER, ETC.
25-28 1 🗌 F 2 🗋 S	RESH <sup>3</sup> SULPHUR <sup>29</sup> SALTY <sup>4</sup> MINERAL	4 OPEN HO	26	0180	18-21	22-25		
30-33 1 🗌 F 2 🗆 S	RESH <sup>3</sup> SULPHUR <sup>34</sup> <sup>80</sup> SALTY <sup>4</sup> MINERAL	2 🗌 GALVANIZ 3 🗌 CONCRET	re		26-29	30-33 B0		
PUMPING TEST METHO		4 OPEN HO			L			
		9 дрм. 02	15-16 00 17- HOURS 00 MIN	15.		TION OF W		
LEVEL	PUMPING	LEVELS DURING	PUMPING	LOT	LINE. INDICATE NO	W DISTANCES OF WELL RTH BY ARROW.	FROM ROAD AND	
19-21	22-24 26-28	30 MINUTES 45 MII 29-31	32-34 35.		T 19			
IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SE		FEET 038 FE	ET 20	/ ' /		/ FT	
RECOMMENDED PUMP	GPM. TYPE RECOMMENDED	FEET			a an			
SHALLOW								
50-53 <i>00_0</i>	2.7 GPM./FT. SPECIFIC	CAPACITY			WE:			
FINAL	WATER SUPPLY	<ul> <li><sup>5</sup> abandoned,</li> <li><sup>6</sup> abandoned,</li> </ul>	INSUFFICIENT SUPPLY	· .	//z~			4
STATUS OF WELL	3  TEST HOLE 4 RECHARGE WELL	7 UNFINISHED			112	50'70		NI
55-56		5 COMMERCIAL		LOT	A// 5.1		I	/N
WATER USE	3 IRRIGATION	NUNICIPAL         7       PUBLIC SUPPLY         8       COOLING OR AIR	CONDITIONING	~ ~ ~ /	18 11	111	11	/
			NOT USED		//	13mi .		/
METHOD	7 1 CABLE TOOL 2 ROTARY (CONVENTIO	6 🗍 BORIN DNAL) 7 🗍 DIAMO			//		/	
OF	<sup>2</sup> C ROTARY (CONVENTIO <sup>3</sup> ROTARY (REVERSE) <sup>4</sup> ROTARY (AIR)	2002) 7 🛄 DIAMO 8 🛄 JETTIN 9 🛄 DRIVIN	NG					
DRILLING	5 AIR PERCUSSION			DRILLERS REMARK	5:		211 /	
DRILLING	ATRACTOR Ston	4	LICENCE NUMBER		58 CONTRACTO	r 59-62 date reci		63-68
NAME OF WELL CON	IN NCYN	LON	000/		<u> </u>	INSPECTOR	<u>1037</u>	·/
NAME OF WELL CON					110N		7 1 12	/
NAME OF WELL CON	me		LICENCE NUMBER	l w				2
NAME OF WELL CON AUST ADDRESS	me	SUBMISSION DAT	3389	SE			1/2	3

		ATEF		*		EC					
ONTARIO		IN SPACES PROVIDED DRRECT BOX WHERE APP			1205	1_	NUNICIP.	051	CON.	$\mathcal{N}$	.   10
UNTY OR DISTRICT		TOWNSHIP, BOR	OUGH, CITY. TOWN. VI	ELAGE			LOCK, TRACT.	SURVEY, ETC	15	777	22 23 LOT 25-
Carleto	n	Huntl	.ey	····		Ma	in St.		TE COMPL		48-24
			rp, Onta:					DA	<u>зо</u>	_ MQ 8	YR
		ļ.	-21533		EVATION .		BASIN CODE	,	" <u> </u>		1. 1.
		LOG OF OVERB				4 2		MAR	17,	1975	248
NERAL COLOUR	MOST COMMON MATERIAL	0	THERMATERIALS	*		GENERAL	DESCRIPTIO	ON		DEPTH	- FEET
	Clay	4.45		· · · · · · · · · · · · · · · · · · ·						0	16
	Send	(HHH)	K						i.	16	64
	Sand	Gravel	& Clay						-	64 *	90
Grey	Limestone									90	170
										70	1/0
p.											
аларан,						<u>, , -</u>					
			2 (mg)				-				
			P								
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	TER RECORD		32			54	, <u>, , , , _</u>		65	<u> </u>	25:125
ER FOUND		I 51 / CAS	ING & OPEN H		BD		OF OPENING	31-33	DIAMETER	R 34-38	ENGTH 39
r - Feet	KIND OF WATER	INSIDE	ING & OPEN H	DEPTH -	FEET		<b>)</b> .)	31-33		INCHES	F
-	FRESH <sup>3</sup> SULPHUR <sup>14</sup>	INSIDE DIAM. MAT INCHES	ERIAL WALL THICKNESS INCHES	TT				31-33			F 6 41-44
10-13 X 120 <sup>2</sup> 1 15-18 1 X	] FRESH 3 🗍 SULPHUR <sup>14</sup> ] SALTY 4 🗍 MINERAL ] FRESH 3 🗍 SULPHUR <sup>19</sup>	INSIDE DIAM. INCHES	ERIAL WALL THICKNESS INCHES EL 12 LVANIZED NCRETE	DEPTH - FROM	FEET TO 13-16		D.)  .L AND TYPE		D	INCHES DEPTH TO TOP F SCREEN	FE 41-44 FEET
10-13 <b>120</b> 15-18 <b>170</b> <b>1</b>	] FRESH 3 _ SULPHUR <sup>14</sup> SALTY 4 _ MINERAL FRESH 3 _ SULPHUR <sup>19</sup> SALTY 4 _ MINERAL	INSIDE DIAM. INCHES MAT INCHES	ERIAL HICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES	DEPTH - FROM	FEET TO	CCREEN SCORE	PLUG AT - FEET	GING & S	SEALI	INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 FEET RD
10-13 2 120 2 15-18 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         FRESH       3       SULPHUR       24         SALTY       4       MINERAL	INSIDE DIAM. INCHES 10-11 2 GAL 2 GAL 2 GAL 17-18 1 GY 2 GAL 3 CON	ERIAL HICKNESS INCHES NCRETE N HOLE VANIZED NCRETE IN HOLE VANIZED NCRETE	DEPTH - FROM	FEET то 13-16	CREEEN BEPTH SET FROM	PLUG AT - FEET TO	GING & S	SEALIF	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	FEET FEET RD NT GROUT. CKER. ETC.)
10-13 )120 15-18 )170 2 2 2 2 2 2 2 2 2 2 2 2 2	] FRESH 3 _ SULPHUR <sup>14</sup> SALTY 4 _ MINERAL FRESH 3 _ SULPHUR <sup>19</sup> SALTY 4 _ MINERAL ] FRESH 3 _ SULPHUR <sup>24</sup>	INSIDE DIAM.         MAT           DIAM.         MAT           INCHES         2           James         3           CO         3           CO         4           James         3           Tr-18         1           James         3           CO         4           James         2           AL         OPE           24-25         1	ERIAL THICKNESS INCHES VANIZED NCRETE EN HOLE EL 19 LVANIZED NCRETE NCRETE EN HOLE EL 19 EL 19 E	DEPTH - FROM	FEET то 13-16	CLUE CLUE CLUE CLUE CLUE CLUE CLUE CLUE	PLUG AT - FEET TO	GING & S	SEALIF	INCHES DEPTH TO TOP OF SCREEN	FEET FEET RD NT GROUT. CKER. ETC.)
10-13 120 15-18 170 2 2 2 2 2 2 2 2 2 2 2 2 2	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       SALTY     4     MINERAL       FRESH     3     SULPHUR       FRESH     3     SULPHUR	INSIDE DIAM INCHES MAT INCHES 10-11 2 GAL 3 CON 4 OPE 17-18 1 GAL 3 CON 4 OPE 2 GAL 3 CON 4 OPE 2 GAL 3 CON 4 OPE 2 GAL 3 CON 2 GAL 3 CON 2 GAL 3 CON	ERIAL THICKNESS INCHES IVANIZED NCRETE EN HOLE 19 UVANIZED NCRETE EN HOLE EN HOLE EN HOLE EN HOLE EL F6 VVANIZED NCRETE	DEPTH - FROM	FEET TO 13-16 20-23	G DEPTI SET FROM 10-13 10-13	PLUG AT - FEET TO 0020	GING & S	SEALIF	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER. ETC.)
10-13 120 15-16 170 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         SALTY       4       MINERAL         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         SALTY       4       MINERAL         SALTY       4       MINERAL	INSIDE DIAM.         MAT           DIAM.         MAT           INCHES         2           Jan.         3           CO         3           CO         4           Jan.         4           Jan.         4	ERIAL THICKNESS INCHES IVANIZED NCRETE EN HOLE IS INCRETE EN HOLE EL F6 VANIZED NCRETE EN HOLE EL F6 VANIZED NCRETE EL N HOLE	DEPTH - FROM	FEET TO 13-16 20-23	CISLOT NO MATERIA DEPTI SET FROM 10-13 18-21 26-29	2) AT - FEET TO 14-17 22-25 30-33	GING & S		INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER. ETC.)
10-13 120 15-16 170 2 2 2 2 2 2 2 2 2 2 2 2 2	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         SALTY       4       MINERAL	INSIDE DIAM.         MAT           DIAM.         MAT           INCHES         2           James         3           CO         3           CO         4           James         3           Tr-18         1           James         3           CO         4           James         4 <td>ERIAL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES ISL INCHES ISL INCHES ISL INCHES ISL ISL ISL ISL ISL ISL ISL ISL ISL IS</td> <td></td> <td>FEET TO 13-16 291 20-23</td> <td>CILOT NO MATERIA SS MATERIA S MATERIA S MATERIA S MATERIA S MATERIA S MATERIN</td> <td>PLUG AT - FEET TO 22-25 30-33 CATIOI</td> <td>GING &amp; S MATERI 80 80 N OF M</td> <td>SEALIF AL AND T</td> <td>INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA</td> <td>F 41-44 FEET RD NT GROUT. CKER. ETC. )</td>	ERIAL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES ISL INCHES ISL INCHES ISL INCHES ISL ISL ISL ISL ISL ISL ISL ISL ISL IS		FEET TO 13-16 291 20-23	CILOT NO MATERIA SS MATERIA S MATERIA S MATERIA S MATERIA S MATERIA S MATERIN	PLUG AT - FEET TO 22-25 30-33 CATIOI	GING & S MATERI 80 80 N OF M	SEALIF AL AND T	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER. ETC. )
10-13 120 15-18 170 2 2 2 2 2 2 2 2 2 2 2 2 2	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       34         SALTY       4       MINERAL         HOD       10       FUMPING RAT         20       BAILER       JUDIA       25	INSIDE DIAM. INCHES         MAT           0 AI. INCHES         10-11         STE           2         GAL         3           3         COM         4           4         OPE         17-18           17-18         1         STE           2         GAL         3           3         COM         4           4         OPE         2           24-25         I         STE           2         GAL         3           3         COM         4           4         OPE         COM           4         OPE         TE	ERIAL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES ISL INCHES ISL INCHES ISL INCHES ISL ISL ISL ISL ISL ISL ISL ISL ISL IS		FEET TO 13-16 291 20-23	CISLOT NO MATERIA DEPTI SET FROM 10-13 18-21 26-29	PLUG AT - FEET TO 22-25 30-33 CATIOI	GING & S MATERI 80 80 N OF M	SEALIF AL AND T	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER. ETC. )
10-13 120 15-18 170 2 2 2 2 2 2 2 2 2 2 2 2 2	Image: Second State Sta	INSIDE DIAM.         MAT           DIAM.         MAT           INCHES         2           JOIN         3           CO         2           JOIN         3           CO         2           JOIN         3           CO         2           JOIN         3           CON         4           JOPE         1           17-18         1           3         CON           4         OPE           24-25         1           3         CON           4         OPE           24-25         1           STE         1048           GPM         2           GPM         2           LEVELS DURING         30 MUNUTES	ERIAL THICKNESS INCHES VANIZED NCRETE EN HOLE EN HOLE EN HOLE EN HOLE EL F <sup>6</sup> VANIZED NCRETE EN HOLE EL F <sup>6</sup> VANIZED NCRETE N HOLE ATION OF PUMPING 10 PUMPING		FEET TO 13-16 20-23 27-30 27-30	CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA	PLUG AT - FEET TO 22-25 30-33 CATIOI	GING & S MATERI 80 80 N OF M	SEALIF AL AND T	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER, ETC. ,
10-13 120 15-18 170 2 2 2 2 2 2 2 2 2 2 2 2 2	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       34         SALTY       4       MINERAL         HOD       10       FUMPING RAT         WATER       EVEL       25         WATER       LEVEL       25         WATER       22-24       15 MINUTES	INSIDE       MAT         DIAM.       MAT         INCHES       A         INCHES       3         GO       2         STE       2         GO       4         JOTI       T         STE       2         GO       3         GO       4         JOTE       1         STE       2         GO       3         GO       3         GO       4         JOPE       1         STE       2         GAL       3         GO       3         GPM.       2         GPM.       3         LEVELS DURING       30         SO       MINUTES         -28       29-31         GP       30         GP       30         GP       29-31	ERIAL THICKNESS INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES IS INCHES IS INCHES IS INCHES IS INCHES IS IS IS IS IS IS IS IS IS IS IS IS IS		FEET TO 13-16 20-23 27-30 27-30	CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA	PLUG AT - FEET TO 22-25 30-33 CATIOI	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIF AL AND T OMON VELL	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	F 41-44 FEET RD NT GROUT. CKER, ETC. ,
10-13 120 15-18 170 20-23 1 20-23 1 2 25-28 1 2 2 30-33 1 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 2 30-33 1 2 2 30-33 1 2 30-33 1 2 30-33 1 2 30-33 1 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-33 1 2 2 30-23 1 2 2 30-33 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 2 30-23 1 2 30-23 1 2 30-23 2 30-23 2 30-23 2 30-23 2 30-23 2 30-23 2 30-23 2 30-23 3 2 30-23 2 30-23 2 2 3 2 3 2 2 3 2 3 2 3 2 3 2 3 2 2 3 2 3 2 2 3 2 3 2 2 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 2 3 2 2 2 3 2 2 2 3 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	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         SALTY       4       MINERAL         SALTY       4       MINERAL         HOD       10       FUMPING RAT         2       SALTY       4       MINERAL         WATER       LEVEL       25         END OF       WATER       VATER         PUMPING       22-24       15 WINUTES         24       56-7       110       FE         38-41       PUMPINTA       FE         38-41       PUMPINTAKE       GPM	INSIDE DIAM.       MAT         DIAM.       MAT         INCHES       2         JAM.       3         CO       2         JAM.       3         CO       2         JAM.       3         CO       2         JAM.       3         CO       3 <tr< td=""><td>ERIAL INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES ISL INCHES ISL INCHES INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL ISC ISL ISL ISL ISL ISL ISL ISL ISL</td><td></td><td>FEET TO 13-16 20-23 27-30 27-30</td><td>CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA</td><td>PLUG AT - FEET TO 22-25 30-33 CATIOI</td><td>GING &amp; S MATERI 80 80 N OF M</td><td>SEALIF AL AND T OMON VELL</td><td>INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA</td><td>е 41-44 FEET RD NT GROU?. СКЕЯ. ETC. /</td></tr<>	ERIAL INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES INCHES ISL INCHES ISL INCHES INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL INCHES ISL ISC ISL ISL ISL ISL ISL ISL ISL ISL		FEET TO 13-16 20-23 27-30 27-30	CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA	PLUG AT - FEET TO 22-25 30-33 CATIOI	GING & S MATERI 80 80 N OF M	SEALIF AL AND T OMON VELL	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	е 41-44 FEET RD NT GROU?. СКЕЯ. ETC. /
10-13 120 15-18 170 20-23 1 20-23 1 2 25-28 1 2 2 30-33 1 2 30-33 1 2 2 30-33 2 2 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 2 3 2 2 3 2 2 3 2 2 2 3 2 2 2 3 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	I       FRESH       3       SULPHUR       14         SALTY       4       MINERAL         I       FRESH       3       SULPHUR       19         SALTY       4       MINERAL       19         SALTY       4       MINERAL         I       FRESH       3       SULPHUR       24         SALTY       4       MINERAL       24         SALTY       4       MINERAL       29         SALTY       4       MINERAL       29         SALTY       4       MINERAL       34         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       34         HOD       10       FUMPING RAT       34         WATER       LEVEL       25       WATER         PUMPING       22-24       15       WATER         22-24       15       MINOF       26         36-41       PUMPINTAKE       GPM.       36-41         AP       TYPE       RECOMMENDE       24	INSIDE       MAT         DIAM.       MAT         INCHES       2         JAIL       STE         2       GAL         3       COM         4       OPE         17-18       I         3       COM         4       OPE         17-18       I         3       COM         4       OPE         17-18       I         3       COM         4       OPE         24-25       I         3       COM         2       GAL         3       COM         24-25       I         3       COM         24-25       I         3       COM         2       GAL         3       COM         4       OPE         24-25       I         3       COM         2       GAL         3       COM         4       OPE         24-25       I         4       OPE         24-25       I         3       COM         4<	ERIAL INCHES		FEET TO 13-16 20-23 27-30 27-30	CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA	PLUG AT - FEET TO 22-25 30-33 CATIOI	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIF AL AND T OMON VELL	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	FEET RD NT GROUT. CKER. ETC.)
10-13 120 15-18 170 2 20-23 1 2 25-28 1 2 2 30-33 1 2 2 30-31 2 2 30-31 2 2 30-31 2 2 30-32 3 7 2 2 3 2 2 2 3 2 2 2 3 2 3 2 3 2 2 2 3 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	I       FRESH       3       SULPHUR       14         SALTY       4       MINERAL         I       FRESH       3       SULPHUR       19         SALTY       4       MINERAL       19         SALTY       4       MINERAL         I       FRESH       3       SULPHUR       24         SALTY       4       MINERAL       24         SALTY       4       MINERAL       29         SALTY       4       MINERAL       29         SALTY       4       MINERAL       34         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       34         HOD       10       FUMPING RAT       34         WATER       LEVEL       25       WATER         PUMPING       22-24       15       WATER         22-24       15       MINOF       26         36-41       PUMPINTAKE       GPM.       36-41         AP       TYPE       RECOMMENDE       24	INSIDE DIAM.     MAT       DIAM.     MAT       INCHES     2       JOINT     STE       2     GAL       3     CON       4     OPE       17-18     1       3     CON       4     OPE       17-18     1       3     CON       4     OPE       24-25     1       3     CON       4     OPE       2     GAL       3     CON       4     OPE       28     29-31       29-31     E       29-31     E       20     BO FEET       20     43-45       FEET     1       29-31     FEET       20     55	ERIAL INCHES	DEPTH - FROM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEET TO 13-16 13-16 13-16 20-23 20-23 27-30 27-30 13-16	CSLOT NO BELOW CSLOT NO CSLOT	PLUG AT - FEET TO 22-25 30-33 CATIOI SHOW DIST ATE NORTH	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIN AL AND T OMEN VELL VELL VELL	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	FEET RD NT GROUT. CKER. ETC.)
10-13 120 15-18 170 2 2 2 2 2 2 2 2 2 2 2 2 2	1       FRESH       3       SULPHUR       14         SALTY       4       MINERAL       19         SALTY       4       MINERAL       19         SALTY       4       MINERAL       19         SALTY       4       MINERAL       19         SALTY       4       MINERAL       24         SALTY       4       MINERAL       24         SALTY       4       MINERAL       29         SALTY       4       MINERAL       34         FRESH       3       SULPHUR       29         SALTY       4       MINERAL       34         HOD       10       FUMPING RAT       26         YATER       222-24       15 <minutes< td="">       26         SALTY       1555T       110       FE         38-41       PUMP INTAKE       GPM       SETTING         GPM       GPM       GPM /FT. SPI       SETTING         DEEP       GPM /FT. SPI       SETTING       SETTING</minutes<>	INSIDE DIAM.       MAT         DIAM.       MAT         INCHES       2         A       3         O       2         3       COM         2       GAL         3       COM         4       OPE         17-18       1         3       COM         4       OPE         17-18       1         3       COM         4       OPE         24-25       1         3       COM         GPM       OPE         24-25       1         0       BO         6       OPE         2-28       29-31         25       FEET         243-45         155	ERIAL I WALL THICKNESS INCHE	DEPTH - FROM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEET TO 13-16 13-16 13-16 20-23 20-23 27-30 27-30 13-16	CSLOT NO BELOW CSLOT NO CSLOT	PLUG AT - FEET TO 22-25 30-33 CATIOI SHOW DIST ATE NORTH	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIF AL AND T OMEN VELL VELL VELL	INCHES DEPTH TO TOP F SCREEN NG RECO YPE (CEME LEAD PA	FEET RD NT GROUT CKER, ETC. I
10-13 120 15-16 170 2 2 2 2 2 2 2 2 2 2 2 2 2	Image: Second	INSIDE DIAM.       MAT         DIAM.       MAT         INCHES       2         A       3         O       2         3       COM         2       GAL         3       COM         4       OPE         17-18       1         3       COM         4       OPE         17-18       1         3       COM         4       OPE         24-25       1         3       COM         GPM       OPE         24-25       1         0       BO         6       OPE         2-28       29-31         25       FEET         243-45         155	ERIAL THICKNESS THICK	DEPTH - FROM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEET TO 13-16 13-16 13-16 20-23 20-23 27-30 27-30 13-16	CSLOT NO WATERIA DEPTI SET FROM 10-13 18-21 26-29 LO RAM BELOW IE. INDICA	PLUG AT - FEET TO 22-25 30-33 CATIOI SHOW DIST ATE NORTH	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIF AL AND T OMEN VELL VELL VELL	INCHES DEPTH TO TOP F SCREEN VPE LEAD PA CENE COM ROAD A	F 41-44 FEET RD NT GROUT CKER, ETC. )
10-13 120 120 15-18 170 2 20-23 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	1       FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       14         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       24         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       29         SALTY       4       MINERAL       34         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       34         PRESH       3       SULPHUR       34         MATER LEVEL       25       WATER         PUMPING       22-24       15 MINUTES       26         1555T       110       FE       38-41       PUMP INTAKE         GPM       GPM       GPM       SETTING       SETTING         DEEP       GPM       GPM./FT. SPI       SETVATION WE	INSIDE       DIAM.       MAT         DIAM.       STE       2         INCHES       3       COM         2       SAL       3       COM         3       COM       4       DPE         10-11       T       STE       2         3       COM       4       DPE         11-18       1       STE       2         2       GAL       3       COM         4       DPE       2       GAL         3       COM       4       DPE         24-25       1       STE       2         30       MINUTES       4       OPE         2-28       29-31       4       PEET         20       A3-45       FEECT       FUN         ESET AT       FEET       1       FAZ         155       FEET       FAZ       FAZ         155       FEET       FAZ       FAZ         10       S       ABANDON       AABANDON         11       S       ABANDON       AABANDON         12       S       ABANDON       S	ERIAL INURES INCHES I	DEPTH - FROM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEET TO 13-16 13-16 13-16 20-23 20-23 27-30 27-30 13-16	CSLOT NO BELOW CSLOT NO CSLOT	PLUG AT - FEET TO 22-25 30-33 CATIOI SHOW DIST ATE NORTH	BING & S MATERI 80 80 N OF M ANCES OF M BY ARROW.	SEALIF AL AND T OMEN VELL VELL VELL	INCHES DEPTH TO TOP F SCREEN VPE LEAD PA CENE COM ROAD A	F 41-44 FEET RD NT GROUT CKER, ETC. )
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15-18     1       20-23     1       20-23     2       20-23     1       2     2       25-28     1       2     2       30-33     1	SALTY <ul> <li>MINERAL</li> <li>FRESH</li> <li>SULPHUR</li> <li>MINERAL</li> </ul> FRESH <ul> <li>SULPHUR</li> <li>MINERAL</li> </ul> MOD <ul> <li>PUMPING RATE</li> </ul>	10-11       1561       STEEL       12       188         2       [ GALVANIZED       3       [ CONCRETE         4       [ OPEN HOLE       1000       1000         57-16       120       STEEL       1000         2       [ GALVANIZED       1000         3       [ CONCRETE       1000         4       [ OPEN HOLE       1000         24-25       1       STEEL       24         2       [ GALVANIZED       3       [ CONCRETE         3       [ CONCRETE       24       24         2       [ GALVANIZED       3       [ CONCRETE         3       [ CONCRETE       15-16       [ OPEN HOLE         11-14       [ DURATION OF PUMPING       [ PUMPING         CPM       [ O ]       15-16       [ OC         15       [ PUMPING       [ PUMPING       [ PUMPING         15       [ PUMPING       2       [ PUMPING         15       [ PUMPING       2       [ PUMPING	Image: Press         Image: Press<	OF SCREEN UGGING & SEALING RECC EET MATERIAL AND TYPE LEAD P 14-17 22-25 30-33 80	FEET
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15-18       1         20-23       1         20-23       1         21       2         25-28       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         9       PUMP         STATIC       19-21         0       37         FEET       IF FLOWING         GIVE RATE       RECOMMENDED PUM         StatLow       50-53         FINAL       STATUS         OF WELL       50	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 24 SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL C MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 FRESH 35 FRESH 3 SULPHUR 34 FRESH 35 FRESH 35	110-11       110-1       STEEL       12       188         2       1       GALVANIZED       3       1       CONCRETE         3       1       CONCRETE       1       768         2       1       GALVANIZED       3       768         3       1       CONCRETE       1       768         2       1       GALVANIZED       3       768         3       1       CONCRETE       1       768         2       1       GALVANIZED       3       1         3       1       CONCRETE       1       1         4       CONCRETE       1       1       1         3       1       CONCRETE       1       1000000000000000000000000000000000000	ID       ID       ID       ID         I       O       I       ID       ID         I       O       I       ID       ID         I       I       O       ID       ID         I       I       O       ID       ID         I       I       O       ID       ID         I       I       ID       ID       ID         I       I       ID       ID       ID         I       ID       ID       ID       ID       ID         ID       ID       ID       ID       ID       ID       ID         ID	DF SCREEN UGGING & SEALING RECC EET MATERIAL AND TYPE LEAD IGAN TON OF WELL MATERIAL FROM ROAD DRTH BY ARROW.	FEET
15-18       1         15-18       1         20-23       1         20-23       1         2       2         20-23       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         9       PUMPING TEST METHING         STATIC       19-21         9-37       FEET         RECOMMENDED PUM       19-21         0       ST         FINAL       ST         STATUS       OF         OF       WATEB	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 24 SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 FRESH 35 FRESH 3 SULPHUR 34 FRESH 35 FRESH	110-11       110-1       STEEL       12       188         2       1       GALVANIZED       3       1       CONCRETE         3       1       CONCRETE       1       768         2       1       GALVANIZED       3       768         3       1       CONCRETE       1       768         2       1       GALVANIZED       3       768         3       1       CONCRETE       1       768         2       1       STEEL       26       26         2       1       STEEL       26       26         2       1       STEEL       26       27         3       1       CONCRETE       1       1000-000000000000000000000000000000000	ID       ID       ID       ID         I       O       I       ID       ID         I       O       I       ID       ID         I       I       O       ID       ID         I       I       O       ID       ID         I       I       O       ID       ID         I       I       ID       ID       ID         I       I       ID       ID       ID         I       ID       ID       ID       ID       ID         ID       ID       ID       ID       ID       ID       ID         ID	OF SCREEN UGGING & SEALING RECC EET MATERIAL AND TYPE LEAD ATERIAL AND TYPE LEAD TION OF WELL O O OTION OF WELL FROM ROAD ORTH BY ARROW.	FEET
15-18       1         15-18       1         20-23       1         2       2         20-23       1         2       2         20-23       1         2       2         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         9       NPING TEST METH         1       PUMP         STATIC       LEVEL         19-21       0         0       37         FEET       IF FLOWING.         GIVE RATE       SHALLOW         SO-533       STATUS         OF WELL       SUSE         WATER       USE         USE       D	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 34 SALTY 4 MINERAL FRESH 3 SULPHUR 34 MINERAL FRESH 3 SULPHUR 34 MINERAL SALTY 4 MINERAL PUMPIG WATER LEVEL SALTY 4 MINERAL MINERAL PUMPIG WATER LEVEL SALTY 4 MINERAL 2 SOBALLER 0 0 30 FEET 0 50 FEET 0 50 FEET 0 SALTY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL S-56 1 DOMESTIC 2 STOCK 3 IRRIGATION WELL 57 1 M CABLE TOOL 2 ROTARY (COVENTION 3 ROTARY (REVERSE) 4 ROTARY (AIR)	110-11       110-1       STEEL       12         2       1       GALVANIZED       3       188         3       1       CONCRETE       1       188         4       1       OPEN HOLE       1       188         5       1       GALVANIZED       1       188         3       1       CONCRETE       1       188         4       1       GALVANIZED       1       188         3       1       CONCRETE       1       188         4       2       GALVANIZED       3       1       188         3       1       CONCRETE       1	ID       ID       ID       ID         I       O       I       ID       ID         I       TO       O       ID       ID         I       TO       TO       ID       ID       ID         I       TO       TO       TO       ID       ID       ID         I       TO       TO       TO       TO       ID	P Clagence of the series of t	FEET
15-18       1         15-18       1         20-23       1         2       2         20-23       1         2       2         20-23       1         2       2         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         9       PUMP         STATIC       19-21         0       37         FET       FEET         RECOMMENDED       PUM         10-37       SHALLOW         50-53       SHALLOW         SUSE       O         METHOD       OF         DRILLING       SUSE	SALTY 4 MINERAL FRESH 3 SULPHUR 19 SALTY 4 MINERAL FRESH 3 SULPHUR 24 SALTY 4 MINERAL FRESH 3 SULPHUR 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 TO PUMPING ATTE SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 MINERAL FRESH 3 SULPHUR 34 40 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 MINERAL FRESH 3 SULPHUR 34 40 FRESH 34 4	10-11       11-11       STEEL       12       188         2       1       GALVANIZED       3       188         3       1       CONCRETE       17.0       17.0         12       1       GALVANIZED       3       17.0         3       1       CONCRETE       17.0       17.0         12       1       GALVANIZED       3       17.0         3       1       CONCRETE       17.0       17.0         3       1       CONCRETE       18.0       17.0         3       1       CONCRETE       18.0       19.0         3       1       CONCRETE       19.0       19.0         11-14       DURATION OF PUMPING       19.0       19.0       10.0         12       GALVANIZED       32.34       19.0       10.0       10.0         30       MINUTES       45.0       19.0       10.0       10.0       10.0         310       FEET       11.0       CLEAR       2       10.0       10.0       10.0         310       FEET       1       CLEAR       2       10.0       5       10.0       10.0       10.0       10.0	ID       ID       ID       ID         Image: State of the state	P UGGING & SEALING RECC LUGGING & SEALING RECC ICEM MATERIAL AND TYPE LEAD P 14-17 222-25 30-33 80 TION OF WELL // OISTANCES OF WELL FROM ROAD DORTH BY ARROW. P 10 STANCES OF WELL FROM ROAD DORTH BY ARROW. P 10 STANCES OF WELL FROM ROAD DISTANCES OF WELL FROM FROM FROM FROM FROM FROM FROM FROM	PEET
15-18       1         15-18       1         20-23       1         2       2         20-23       1         2       2         20-23       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         9       PUMP         STATIC       19-21         0       ST         RECOMMENDED PUM       9-21         STATUS       OF WELL         STATUS       OF WELL         WATER       USE O         METHOD       OF         DRILLING       NAME OF WELL	SALTY 4 MINERAL FRESH 3 SULPHUR 19 SALTY 4 MINERAL FRESH 3 SULPHUR 24 SALTY 4 MINERAL FRESH 3 SULPHUR 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 FRESH 3 SULPHUR 34 40 TO PUMPING ATTE SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 TO PUMPING ATTE 2 CALL 25 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 MINERAL FRESH 3 SULPHUR 34 40 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 SALTY 4 MINERAL FRESH 3 SULPHUR 34 40 MINERAL FRESH 3 SULPHUR 34 40 FRESH 34 4	10-11       10-1       STEEL       12       188         2       I GALVANIZED       3       I CONCRETE       188         3       I CONCRETE       10-9EN HOLE       160       160         3       I CONCRETE       10-9EN-HOLE       160       160         3       I CONCRETE       10-9EN-HOLE       160       160         2       I GALVANIZED       3       I CONCRETE       10-9EN-HOLE         21-225       I STEEL       24       24       24         2       GALVANIZED       3       I CONCRETE       10-9EN-HOLE         30       MINUTES       00-000       I I-16       HOURS       00-000         30       MINUTES       45       MINUTES       50 MIN         30       MINUTES       45 MINUTES       50 MIN         310       FEET       TO FEET       0000 S         311       WATER AT END OF TEST       10-000 S         312       FEET       11-0000 S       10000 S         313       FEET       11-0000 S       10000 S         32       FEET       11-00000 S       100000 S         330       FEET       110-00000 S       100000 S <td< td=""><td>ID       ID       ID       ID         I       ID       ID       ID       ID       ID         I       ID       ID       ID       ID       ID       ID         I       ID       <td< td=""><td>CID N OF WELL Provide the service of the service o</td><td>PEET</td></td<></td></td<>	ID       ID       ID       ID         I       ID       ID       ID       ID       ID         I       ID       ID       ID       ID       ID       ID         I       ID       ID <td< td=""><td>CID N OF WELL Provide the service of the service o</td><td>PEET</td></td<>	CID N OF WELL Provide the service of the service o	PEET

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1	1 WATE	R RECORD	INSIDE	WALL	DEPTH	ORD			31-33 DIAMET	INCHES	FEET
	10-13 1 🗙	FRESH <sup>3</sup> 🗍 SULPHUR <sup>14</sup> Salty <sup>4</sup> 🗋 Mineral	INCHES	INCHES	<sup>5</sup> FROM	TQ 13-16		L AND TYPE		DEPTH TO TOP OF SCREEN	41-44 80 FEET
		FRESH <sup>3</sup> SULPHUR <sup>19</sup> SALTY <sup>4</sup> MINERAL	2 [] GALVANI 3 [] CONCRET 4 [] OPEN HO	E 198	80	0059	61 DEPTH SET		NG & SEAL		
-	2 🗆	FRESH <sup>3</sup> _ SULPHUR <sup>24</sup> SALTY <sup>4</sup> _ MINERAL	77-18 1 [] STEEL 2 [] GALVANI 3 [] CONCREI	rε		20-23	FROM 10-13	TO 14-17	MATERIAL AND		ENT GROUT. ACKER, ETC.)
	2 🗋	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	4 [] OPEN HC 24-25 1 [] STEEL 2 [] GALVANI	26		27-30	18-21	22-25			
		FRESH 3 🗌 SULPHUR <sup>34</sup> 80 Salty 4 🗌 Mineral	3 [] CONCRET 4 [] OPEN HO				26-29	30-33 80			
71	PUMPING TEST METHO	V had a	II-14 DURATION	OF PUNPING 15-16 00 HOURS	17-18			CATION			
51	STATIC LEVEL 19-21	WATER LEVEL 25 END OF WATER LI PUMPING 22-24 15 MINUTES		PUMPING RECOVERY	NUTES	IN DIAG LOT LIN		SHOW DISTAND ATE NORTH BY			
IG TEST	024 FEET	45 FEET 024 FEE 38-41 PUMP INTAKE S	T FEET	32-34 FEET 045	35-37 FEET 42	λ,				ANO	A'
PUMPING	GIVE RATE	GPM 59		LEAR 2 C	LOUDY	$\sim$		* * * * *		1	
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	FINAL 54	GPM./FT. SPE	S ABANDONED,	INSUFFICIENT SI	UPPLY	(		300	in dia amin'ny faritr'i Arao. Ny faritr'i Arao.		
	STATUS OF WELL	2 🗍 OBSERVATION WEL 3 🗍 TEST HOLE 4 🗍 RECHARGE WELL	L 6 🗍 ABANDONED. 7 🗍 UNFINISHED	POOR QUALITY		• •	2	· Ft			
	55-5	6 1 DOMESTIC 2 D STOCK	5 COMMERCIAL 6 COMMERCIAL					1	5		
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	NAME OF WELL CO		/	LICENCE NUMB		LLERS REMARKS	58 CON1	RACTOR 59-6	<sup>2</sup> DATE RECEIPED	2 7 7	63-68 80
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BR	OWN SAND	(TRAVEL)	HARD	0 76
31	_			
	WATER RECORD           Image: State	51 CASING & OPEN HOLI	E RECORD DEPTH - FEET FROM TO 13-16 13-16 13-16 13-17 13-16 13-17 13-18 13-13 13-33 10 13-33 13-33 13-33 13-33 14 13-33 15 15 15 15 15 15 15 15 15 15	METER 34-38 LENGTH 39-40 INCHES FEET DEPTH TO TOP 41-44 80 OF SCREEN FEET
	15-18         1         FRESH         3         SULPHUR         19           2         SALTY         4         MINERAL           20-23         1         FRESH         3         SULPHUR         24           2         SALTY         4         MINERAL         24           2         SALTY         4         MINERAL         25           2         SALTY         4         MINERAL         29           2         SALTY         4         MINERAL           30-33         1         FRESH         3         SULPHUR         34           2         SALTY         4         MINERAL         34         34	0 3 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE 17-18 1 □ STEEL 19 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE 24-25 1 □ STEEL 26 2 □ GALVANIZED 3 □ CONCRETE 3 □ CONCRETE	61         PLUGGING & SEA           20-23         DEPTH SET AT - FEET         MATERIAL A           FROM         TO         10-12         14-17           27-30         18-21         22-25         22-25           26-29         30-33         80         80	CENENT CROWT
	PUMPING TEXT METHOD         10         PUMPING RA           1         PUMP         2         BAILER         0         00           STATIC         WATER LEVEL         25         WATER         LEVEL         24         0         00           0         7         19-21         0         7         2-24         15         MINUTE	Image: Constraint of the second sec	IN DIAGRAM BELOW SHOW DISTANCES OF WEI LOT LINE. INDICATE NORTH BY ARROW.	
	FINAL STATUS OF WELL WATES UPA 2 OBSE AV 3 TEST OL 4 RECHAS 3 TEST OL 4 RECHAS 3 TEST OL 4 RECHAS 3 TEST OL 4 RECHAS 3 TEST 3 TEST 3 TEST 4 DOM THE 4 OTHER 4 OTHER	ELL 6 ANDONED, INSUFFICIENT SUPPLY ELL 6 ANDONED, POOR QUALITY, NFINISHED 5 C M FERCIAL 6 D M FERCIAL 7 D PUB IC SUPPLY 8 C COULING OR AIR CONDITIONING 9 NOT USED	NAUT HOUSE (CAR	ELL TARE-OUT
	METHOD 9 OF DRILLING 5   CABLE TOOL 2   CABLE TOOL 2   ROTARY (CONVE 3   ROTARY (REVER: 4   ROTARY (AIR) 5   AIR PERCUSSION	SE) <sup>B</sup> JETJING 9 Driving	DRILLERS REMARKS:	
CONTRACTOR			DATA SOURCE SOURACTOR 59-62 DATE ALCO SOURCE SOURCE	91076 THS P75 WI
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32	· · · · · · · · · · · · · · · · · · ·	- 14 <sup>105</sup> 21 <sup>1</sup>			54 65 SUTE (S) OF OPENING 31.33 (D)	AMETER 34-38 LENGTH
	1 WA	TER RECORD	51         CASING & OPEN HOLE R           INSIDE         MATERIAL           DIAM.         MATERIAL           INCEMES         FRC	EPTH - FEET	C (SLOT NO.) WILL WATERIAL AND TYPE	INCHES F++
	76	FRESH 3 □ SULPHUR 3 SALTY 4 □ MINERAL 3 FRESH 3 □ SULPHUR 10	10-11 11 SHEEL 12 2 3 GALVANIZED 3 1 CONCRETE		61 PLUGGING & SE	FEET
-	<sup>2</sup> C <sup>20-23</sup> <sup>1</sup> C	] SALTY <sup>4</sup> [] MINERAL ] FRESH <sup>3</sup> [] SULPHUR <sup>24</sup>	4 □ OPEN HOLE      17-18      1 □ STEEL      19      2 □ GALVANIZED	20 2 1	DEPTH SET AT - FEET FROM TO MATERIAL	CENTRE CROWT
	25-28 1	] SALTY <sup>4</sup> [] MINERAL ] FRESH 3 [] SULPHUR <sup>29</sup> ] SALTY 4 [] MINERAL	3 [] CONCRETE 4 [] OPEN HOLE 24 25 1 [] STEEL 26	27-30	10 1? 14-17 16-71 22-25	
	30-33 1 [ 2 [	] FRESH 3 [] SULPHUR <sup>34</sup> ] Salty 4 [] Mineral	AN 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE		26 29 30 33 80	
71	PUMPING TEST ME	2 D BAILER	GPMHUINSHUINS		LOCATION OF WE	
TEST	STATIC LEVEL	PUMPING	LEVELS DURING         1         ☐         PUMPING           2         ☐         RECOVERY           3         30 MINUTES         45 MINUTES         60 MINUTES           2         1         1         1         1           2         1         1         1         1         1	LOT LIN		
		38-41 PUMP INTAK	EET FEET FEET FEET FEET			/
PUMPING	RECOMMENDED PU	GPN	ED 3 43-45 RECOMMENDED 46-49 PUMPING	0.0 0.1		000
	50-53	GPM /FT SI	PECIFIC CAPACITY	OLD CAL ROAT		Ŧ
	FINAL STATUS OF WELL	A I WATER SUPPLY 2 [] OBSERVATION W 3 [] TEST HOLE 4 [] RECHARGE WELL	C 7 🗍 UNFINISHED 🛛 🖓 🎽 🕴		- Стик	CCH ST
-		55 56 1 DOMESTIC 2 STOCK	5 🗇 COMMERCIAL 4 🗇 MUNICIPAL	ant -	$\Box - \omega$	
	USE	3   IRRIGATION 4   INDUSTRIAL   OTHER	<ul> <li>PUBLIC SUPPLY</li> <li>COOLING OR AIR CONDITIONING</li> <li>NOT USED</li> </ul>	MAIN	HOUSE	
1	METHOD OF	CABLE TOOL CABLE TOOL CONVE C				
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15-18         1         2         SAL           2         _ </td <td>SH     3     SULPHUR     14       TY     4     MINERAL       SH     3     SULPHUR     19       TY     4     MINERAL       SH     3     SULPHUR     24</td> <td>Inches         Image: Constraint of the second second</td> <td>12 188</td> <td></td> <td><sup>10</sup> .00<sup>-16</sup></td> <td>61</td> <td>PLUGGING 8</td> <td>OF SCREEN</td> <td>FEE</td>	SH     3     SULPHUR     14       TY     4     MINERAL       SH     3     SULPHUR     19       TY     4     MINERAL       SH     3     SULPHUR     24	Inches         Image: Constraint of the second	12 188		<sup>10</sup> .00 <sup>-16</sup>	61	PLUGGING 8	OF SCREEN	FEE
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PUMPING TEST METHOD	10 PUMPING RATE	II-14 DURATION O	F PUMPING 15-16 HOURS 00 MINS			L	OCATION OF	WELL	
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STATUS	1     WATER SUPPLY       2     OBSERVATION WELL       3     TEST HOLE       4     RECHARGE WELL       1     M DOMESTIC	S ABANDONED, IN: G ABANDONED, PO 7 UNFINISHED S COMMERCIAL		-		T		8 3	
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OF ( DRILLING /	Image: CABLE TOOL         2       ROTARY (CONVENTIO         3       ROTARY (REVERSE)         4       ROTARY (AIR)         5       AIR PERCUSSION	6   BORING NAL) 7   DIAMON 6   JETTIN 9   DRIVING	1D 6	DRILLERS	REMARKS				
ADDRESS	Actor Water Supply Stittsville,		LICENCE NUMBER	JSE	OF INSPECTIO	1    20	18 INSPECTOR	<b>1005</b>	27 63-64
J. MOOT		L SUBMISSION DATE	D YR. 77	OFFICE L	Sare	Y F	FRONT WO E-RED TRIN	5D 1	P 🗸 🛛 WI

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	L	OG OF OVERBURDEN	AND BED	ROCK M	ATERIALS	SEE IN	STRUCTIONS)			AT
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MAT	TERIALS			GENERA	L DESCRIPTION		DEPTH FROM	· FEET
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15-18 1	FRESH 3 [  SULPHUR 19 SALE 5 [  MINERAL	64 3 CONCRETE	188	0 0	0 59	61	PLUGGING	6 & SEALI	NG RECO	
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	FRESH S [] SULPHUR <sup>29</sup> SALTY 4 [] MINERAL	4 (2000 HOLE 24-25 1 - STEEL 26	<u> </u>		27-30	10-13	14-17			
	FRESH 3 🗌 SULPHUR <sup>34</sup> 60 Salty 4 🗌 Mineral	2 🖸 GALVANIZED 3 🗍 CONCRETE 4 🗍 OPEN HOLE				26-29	30-33 80			
71 PUMPING TEST METHO		11-14 DURATION OF PUN		<u>,                                     </u>		1.0	CATION O	E WELL	······································	
1 DPUMP 2 STATIC LEVEL	WATER LEVEL 25		s 17-1. NIN: PUMPING		IN DIAGRAI	M BELOW	SHOW DISTANCES	OF WELL FR	OM ROAD AN	D .
19-21	PUMPING 22-24 15 MINUTES 26-28	2 R 30 MINUTES 45 MINUTES	ECOVERY		LOT LINE	INDIC	ATE NORTH BY ARE	₹ <b>0₩</b> .		
	140 FEET 140FEET 38-41 PUMP INTAKE S	140 EET 140 FEE	140.		58				•	XK
U FFLOWING, GIVE RATE	GPM TYPE RECOMMENDED	FEET 1 CLEAR	z 🕱 CLOUDY	\$	\$	•	13/ 15/		3	
G. SHALLOW	PUMP	175 EET RATE	0003 PM	$\ \mathcal{Z}$	I.				H	
FINAL 54	4 T WATER SUPPLY	s 🗍 ABANDONED, INSUFFI		]   		ŀ	-0+#4		Ą	
STATUS OF WELL	2 OBSERVATION WELL	6 ABANDONED, INSUFF 7 UNFINISHED	UALITY			•			no	
53-56		5 🗋 COMMERCIAL				2	1		H	
USE OI	2 🗍 STOCK 3 🗍 IRRIGATION 4 🗋 INDUSTRIAL	MUNICIPAL     PUBLIC SUPPLY     COOLING OR AIR CONDITIN	ONING	-	21	2n	ela rov	e Dr	- 1	
	0 OTHER	• □ NOT U								
METHOD OF ち	CABLE TOOL CABLE TOOL ROTARY (CONVENTION ROTARY (REVERSE)					(	)0#-	5		
DRILLING	4 ROTARY (AIR) 5 AIR PERCUSSION	B JETTING 9 DRIVING				<u>`</u>		2	k	
NAME OF WELL CON	ITRACTOR	LICEN	CE NUMBER			SB CONT		2.4.1	28	63-68 80
151	Mater Supply L		1558		OF INSPECTION		INSPECTOR		~ 0 .	
A Box 490,	Stittsville, DR BORER	Ontario KOA 3G	CE NUMBER		RKS:				•	
NAME OF DRILLER O	TRACTOR			OFFICE						
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	Min of th	istry he	\A//				Water Resourc		•	
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			:5					DATE COMPL	2 4	44-53 29 v. 80
			DX 161, Carp.		ELEVATION	RC.,	MASIN CODE	DAY	<u>о</u>	<u>9 <sub>YR</sub> 80</u>
<b>*</b> .	<u> </u>	12 12	OG OF OVERBURDEN AND BEI			30	26 1		<u></u>	
	GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS				AL DESCRIPTION			4 - FEET
	Gray	Clay	Sand		Pac	cked				10
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- 1	Brown	Sand			Har	d			112	116
	Gray	Limestone			Har	d			116	145
ł	Gray-Black	Granite					<u> </u>		145	182
L		21051281791 10018								
	32 41 WATER FOUND AT - FEET 10-13 1 □ 0130 1 2 □ 15-16 1 0X 0130 2 0 20-23 1 0 20-23 1 0 20-23 1 0 2 □ 20-23 1 0 2 □ 2 □ 20-23 1 0 2 □ 2 □ 2 □ 2 □ 2 □ 2 □ 2 □ 2 □	22,2,1       21         21       21         ER RECORD         KIND OF WATER         : FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         SALTY 4 [] MINERAL         FRESH 3 [] SULPHUR         GOD       10         PUMPING         Z2-24         SALTY         Z2-24         IS MINUTES         Z2-24         IS MINUTES         Z3-24         IS MINUTES         24-22         13 GEET         13 GEET         13 GEET         13 GEET         13 GPEE         38-41         PUMP INTAKE S         GPM	30       CONCRETE         4       XOPEN HOLE         24-25       1         2       GALVANIZED         3       CONCRETE         4       QOPEN HOLE         2       GALVANIZED         3       CONCRETE         4       QOPEN HOLE         10-14       OUBATION OF PUMPING         20       D         12       GPN         0       D         130       FECOVERY         30       MINUTES         29-31       32-34         30       FEET         130       FEET	L17	H - FEET TO 13-16 O 117 20-23 O 182 27-30 IN DIAGRAM LOT LINE.	61 10-13 10-13 10-13 10-13 10-13 10-13 10-24 10-13	PLUGGING 8           T AT - FEET           TO           14-17           22-25	SEALIN ERIAL AND TY WELL F WELL FRC	INCHES INCHES PTH TO TOP SCREEN IG RECO PE (CEME LEAD PA	25 40 ENGTH 39-40 FEET 41-44 10 FEET RD NT GROUT CKER ETC )
Γ	FINAL STATUS	1 SX WATER SUPPLY 2 OBSERVATION WELL	S ABANDONED, INSUFFICIENT SUPPLY	īΙ	#	- Ţ	$\supset$	•	inL	
	OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 D UNFINISHED		g	Xr			·	- 7
	WATER USE ()	2 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL OTHER	S COMMERCIAL MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIONING NOT USED		1	4	Juante	er, A	ve	
	METHOD OF DRILLING	I     DCCABLE TOOL       I     ROTARY (CONVENTI       I     ROTARY (REVERSE)       I     ROTARY (AIR)       I     AIR PERCUSSION	<ul> <li>● □ BORING</li> <li>ONAL)</li> <li>7 □ DIAMOND</li> <li>● □ JETTING</li> <li>9 □ DRIVING</li> </ul>	DRI	LLERS REMARKS		x			
l e	NAME OF WELL CON	NTRACTOR		<u> </u>	DATA SOURCE		RACTOR 59-62 DATE	240	2.8	3-60 80
CONTRACTOR	ADDRESS Box 49 NAME OF DRILLER O M. Kav SIGNATURE OF CON	D. Stittsville			DATE OF INSPECTION		1HSPECTOR			•
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	41 WATER FOUND AT - FEET		512 CASING & OPEN HOLE		Z ISLOT NO	OPENING 31-33	DIAMETER 34-38 LI	ENGTH 39-40 Feet
F	0135'	1 🔏 FRESH 3 🗌 SULPHUR 14	10-11 1 K STEEL 12	ROM TO 13-16		AND TYPE	DEPTH TO TOP OF SCREEN	41-44 80
	0146 '		2 GALVANIZED         3 GONCRETE         188           3 GONCRETE         1 GONCRETE         1 GONCRETE         1 GONCRETE	0 2021	61	PLUGGING &	SEALING RECO	FEET
	20-23	1 _ FRESH 3 _ SULPHUR 24 2 _ SALTY 4 _ MINERAL	17-18 1 □ STEEL 19 2 □ GALVANIZED 3 □ CONCRETE	20-23	DEPTH SET A			IT GROUT. KER, ETC.)
	25-28	1 [] FRESH 3 [] SULPHUR 29 2 [] SALTY 4 [] MINERAL	4 Ø OPEN HOLE 24-25 1 🖸 STEEL 26	21 0150	10-13	22-25		
1	30-33	1 _ FRESH 3 _ SULPHUR 3480 2 _ SALTY 4 _ MINERAL	2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		26-29	30-33 80		
Ā	PUMPING TES		1-14 DURATION OF PUMPING			ATION OF W	/F11	
Ľ	STATIC	MP 2 DBAILER 00 WATER LEVEL 25 END 25 WATER LEVE			AGRAM BELOW S	HOW DISTANCES OF		D
TSST	3	26-28	Z         RECOVERY           30 MINUTES         45 MINUTES         60 MINUTES           29-31         32-34         35-37		X	e NORTH BY ARROW.	<u>st</u>	
		FEET 085 FEET 085 FEET	CB5 FEET CB5 FEET CB5 FEET	Nia	St.	4 Km.	1 00	
	RECOMMENDE	RECOMMENDED	FEET         I I CLEAR         Z I CLOUDY           43-45         RECOMMENDED         46-49			· · · · · · · · · · · · · · · · · · ·		
		LOW DEEP SETTING	100 FEET PUMPING RATE 0005 GPM		むえ	•	941	
Γ	FINAL	54 1 XI WATER SUPPLY	S 🗌 ABANDONED, INSUFFICIENT SUPPLY		the		•	e.
	STATUS		6 🔲 ABANDONED, POOR QUALITY 7 🔲 UNFINISHED		M.			-
			COMMERCIAL		7	· · · · · · · · · · · · · · · · · · ·		
l	WATER USE		PUBLIC SUPPLY     COOLING OR AIR CONDITIONING					
┢		57 CABLE TOOL						
	METHO OF DRILLIN	5 3 C ROTARY (REVERSE)				XX		
		5 X AIR PERCUSSION	• LI DRIVING	DRILLERS REMARK	S:			
R R		LL CONTRACTOR	LICENCE NUMBER		58 CONTRA	CTOR 59-62 DATE RE	24028	<b>68</b> 80
ITRACTOR	ADDRESS	90, Stittsville, 8			CTION	INSPECTOR	- U IU U	
CONTE	NAME OF DR	1/1#r	COLICE NUMBER	D REMARKS:		t		
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GENERAL COLOUR	MOST	OG OF OVERBURDEN AND				DEP	H - FEET
Brown	COMMON MATERIAL	OTHER MATERIALS			IERAL DESCRIPTION	FROM	TO
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	62879 991	13051373 0030221	73 094	272180	0140221907	02602217	3
	ER RECORD	51 CASING & OPEN			54 EISLOF OPENING 31-3.	65 3 DIAMETER 34-38	75 80
WATER FOUND AT - FEET	KIND OF WATER	11 CASING & OPEN NSTDE WALL DIAM MATERIAL THICKNE	DEPTH - F			3 DIAMETER 34-38	LENGTH 39-40 FEET
10-13 1 <b>X</b> 2 □	FRESH 3 [] SULPHUR <sup>14</sup> SALTY 4 [] MINERAL	INCHES INCHE		10 US MA	TERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 80
15-18 1 🗶	FRESH 3 [] SULPHUR <sup>19</sup> SALTY 4 [] MINERAL	Concrete 188	00	21	BLUCCING 8		FEET
20-23 1	FRESH 3 [] SULPHUR 24	4 OPEN HOLE 17-18 1 STEEL 19 2 GALVANIZED		20-23 DEPTH	SET AT - FEET MATE		NT GROUT
	FRESH 3 T SULPHUR 29	3 CONCRETE	21(01	.80 FROM	10	LEAD PA	CKER, ETC 1
2 🗌	SALTY 4 [] MINERAL	0624-25 1 - STEEL 26 5-5 2 - GALVANIZED	180 ) 02		18-21 22-25		
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	22-24 15 MINUTES 26-28	2 C RECOVERY 30 MINUTES 45 MINUTES 50 MI 29-31 32-34	NUTES 35-37	LOT LINE IN	DICATE NORTH BY ARROW	1):10	ge
	140 FEET 140 FEET 38-41 PUMP INTAKE SE	140 FEET 140 FEET 140				A	0
C IF FLOWING.	GPM.	FEET I CLEAR 2 C			K Get	Č¢	8.
	TYPE RECOMMENDED PUMP DEEP SETTING	43-45 RECOMMENDED 200 FEET RATE	46-49 GPM	۶»» ך	B P		
50-53	— — GPM./FT. SPECI			\$\$ } 1	Funce and	3	
FINAL	4 IXI WATER SUPPLY 2 OBSERVATION WELL	5 🗌 ABANDONED. INSUFFICIENT SI 6 🔲 ABANDONED. POOR QUALITY	UPPLY	XX			
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED		10*10	F 13	K K	
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USE WATER	3 IREIGATION 4 INDUSTRIAL	PUBLIC SUPPLY     COOLING OR AIR CONDITIONING				6 Km	
57	C OTHER	9 🗌 NOT USED			V	6	, , <b> </b>
METHOD OF	1     X     CABLE TOOL       2     I     RO"ARY (CONVENTIO       3     I     RO"ARY (REVERSE)			Z L	×	K.	side
DRILLING	3     ROTARY (REVERSE)       4     ROTARY (AIR)       5     AIR PERCUSSION	8 🗋 JETTING 9 🔲 DRIVING		-			Road.
NAME OF WELL CON		LICENCE NUMBE			ONTRA 610 -		
5 Capital W.	ater Supply Lt			CE	ONTRACTOR 59-62	2.098	<b>1</b> <sup>63-68</sup> 80
- T I		ntario KOA 360		OF INSPECTION	INSPECTOR		
MAME OF DRILLER O		LICENCE NUMBE		aks		Р	
SIGNATURE OFICON	RACTOR	SUBMISSION DATE	OFFICE				
	THE ENVIRONME		<u>R</u> O 0		<	SS. EOWI	
						FORM 7 N	IOE 07-091

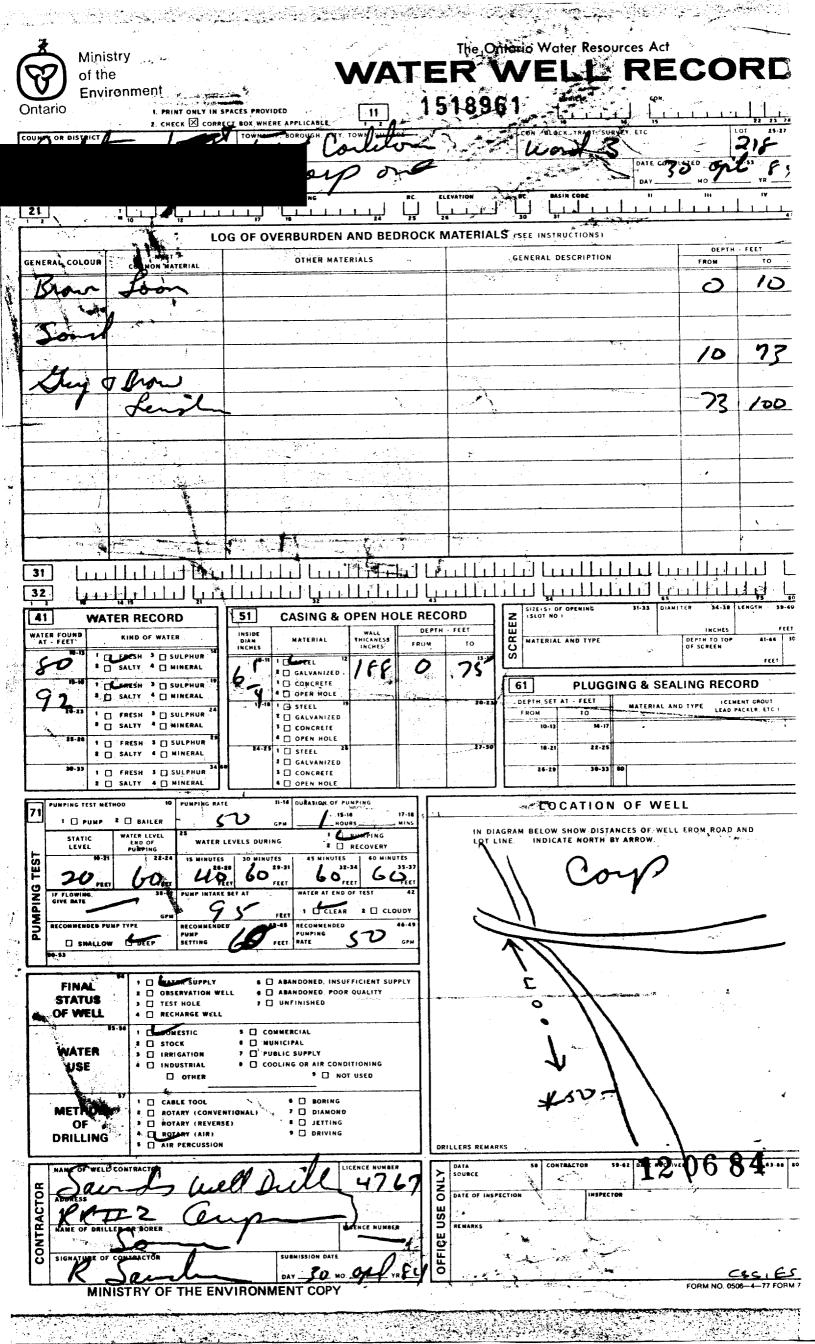
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	inistry the				n - T-			Water Resourc		3/1	
	nvironment			VV <i>I</i>		1		ELLI	TE		RU
Ontario		PRINT ONLY IN CHECK 🗵 CORR		IDED ERE APPLICABLE	<b>}</b> '	151802	20		<u> </u>		
COUNTY OR DISTRI	a-Carlet	'An		IP. BOROUGH CITY, TOWN VI Iest Carletor		Huntley	CON	BLOCK TRACT SURVEY			<b>OA</b> <sup>25-27</sup>
OWNER (SURNAME	FIRST)	28-47		ADDRESS					DATE COMPLET		48-53 yr 82
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2	M 10	12	17				30	31		<u>ll</u>	4
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Brown	Sand					Pack	-			10	95
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AT - FEET 10-13	KIND OF WAT	SULPHUR 14	DIAM INCHES	MATERIAL THICKNESS INCHES	+ H V	M TO 13-16		RIAL AND TYPE	DE	SCREEN	41-44 3
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	2 SALTY 4 [] 9 [] FRESH 3 []		(7-18	4 () OPEN HOLE 1 (.) STEEL 19	+	20-23	<b></b>	SET AT FEET	TERIAL AND TY	PF (CEM	ENT GROUT
2	2 SALTY 4 2 FRESH 3	MINERAL	<b>P</b> 6	2 [] GALVANIZED 3 [] CONCRETE 4 👥 OPEN HOLE	150	0 (0255		0-13 14-17			
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2	7 [] FRESH 3 [] 7 [] SALTY 4 []	SULPHUR MINERAL		3 CONCRETE 4 COPEN HOLE			26	30-33 80		, <u></u>	
71 PUNPING TEST	METHOD IC	PUMPING RATE	00 7	11-14 DURATION OF PUMPING	17-1B		L	OCATION OF	WELL		
STATIC	WATER LEVEL END OF PUMPING	25	EVELS DURIN	APN 02 HOURS 00 G 1 X PUMPING C 2 RECOVERY	_ MINS	IN DIAGI LOT LIN		OW SHOW DISTANCES DICATE NORTH BY ARR		M ROAD	N D
free land	9-21 22-24	26-2		S 45 MINUTES 60 MIN 9-31 32-34	35-37			G			
	FEET 130 FEET			EET 125 FEET 125 WATER AT END OF TEST	FEET 42	-71		$\mathcal{D}$			
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RECOMMENDED		PUMP	150 -	PUMPING	1	I //*					
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50-53	\$4 [						þ	ine 191	Ave.		
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TINAL SIO-33 FINAL STATUS OF WELL WATER USE METHOU OF DRILLING ADDRESS BOX- NAME OF DRI	54 1 2 WA 2 0 08 3 1 TES 4 RE4 55-36 1 M DO 2 3 TCS 0 1 4 1 HC 0 1 4 1 HC 7 1 1 CAI 0 1 4 1 HC 1 RO 3 RO	ter supply servation well tharge well mestic dock igation dustrial i other bustrial i other ble tool tary (convent tary (air) percussion er Sup ittsvi	s s	ABANDONED. INSUFFICIENT SU ABANDONED POOR QUALITY UNFINISHED MERCIAL ICIPAL LIC SUPPLY LING OR AIR CONDITIONING 9 NOT USED • BORING 7 DIAMOND • JETTING • DRIVING LICENCE NUMBE td. 1558 Ont. KOA 3GO LICENCE NUMBE	IPPLY	DATA SOURCE DATE OF INSPECTI		2101 X 4 Way CONTRACTOR 59-52 0/	200 - 1- 1- C		<b>8 2</b> . <sup>10</sup>

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COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAG	ie CC	TO 14 DN . BLOCK, TRACT, SURVEY, E	15 22 23 24 TC LOT 25-27
	Huntley		<u> </u>	ATE COMPLETED 49:53
	NINGSIDE	SUBDIVISION CA	ARP. ONT.	DAY_06 NO_05_ YR 83
	021599	<u>4</u> 0310 4		
LOG	OF OVERBURDEN AND BED	ROCK MATERIALS (SEE	E INSTRUCTIONS)	q
GENERAL COLOUR MOST COMMON MATERIAL	OTHER MATERIALS	GEN	ERAL DESCRIPTION	DEPTH - FEET FROM TO
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AT - FEET D	ISIDE WALL IAM MATERIAL THICKNESS ICHES INCHES	DEPTH - FEET	ERIAL AND TYPE	INCHES FEET DEPTH TO TOP 41-44 30
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15-18 1 _ FRESH 3 _ SULPHUR 19 2 _ SALTY 4 _ MINERAL	CONCRETE	61	PLUGGING &	SEALING RECORD
20-23 1 [] FRESH 3 [] SULPHUR 24 2 [] SALTY 4 [] MINERAL	17-18 I 🗋 STEEL 19 2 🗍 GALVANIZED	20-23 DEPTH FROM	TO MATER	IAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
25-28 1 _ FRESH 3 _ SULPHUR <sup>29</sup>	3 CONCRETE 4 OPEN HOLE 24-25 1 STEEL 26		10-13 14-17	
30-33 1 FRESH 3 SULPHUR 34 80	2 GALVANIZED 3 CONCRETE		18-21 22-25 6-29 30-33 80	
2 SALTY 4 MINERAL	4 🗋 OPEN HOLE			
1 LAUR 2 D BAILER	11-14 DURATION OF PUMPING GPN		OCATION OF N	WELL
STATIC WATER LEVEL 25 LEVEL END OF WATER LEVELS	1	IN DIAGRAM BEL LOT LINE IN	OW SHOW DISTANCES OF DICATE NORTH BY ARROW	WELL FROM ROAD AND
19-21 22-24 15 MINUTES 30	D MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 35-33			
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C D SHALLOW D DEEP SETTING	73 FEET RATE 00/3 GPM			
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WATER 2 STOCK 6 C	COMMERCIAL MUNICIPAL		\ \$	
S LI INRIGATION 7	PUBLIC SUPPLY COOLING OR AIR CONDITIONING ON DI USED			) 17
57 1 CABLE TOOL	• BORING			
OF / CONVENTIONAL				
DRILLING 5 BAIR PERCUSSION	9 DRIVING	DRILLERS REMARKS:		
NAME OF TELL CONTRACTOR		DATA Sa c	ONTRACTOR 59-62 DATE R	
HUGALabogie On	n/td 3323	DATE OF INSPECTION	INSPECTOR	<b>1</b> 03 84 ····
A lealabogie On	tario	SE	INSPECTOR	-
alfred Daw	LICENCE NUMBER			
SIGNATURE OF CONTRACTOR	SUBNISSION DATE DAY 10 MO. 9 YR 8	OFFICE		
MINISTRY OF THE ENVIRONME			·	FORM NO. 0506-4-77 FORM 7

Ministry	n an	The	Onto ater Resou	rces Act
	ACES PROVIDED	15188	<b>WELL</b> 327 NUNICIP	RECORL
COUNTY OR DISTRICT	T BOX WHERE APPLICABLE	Э.Е. , ?	CON. BLOCK, TRACT. SURV	EY ETC LOT 23-21
	Huntley	SURDIVISIO	V CARP. ONT.	DATE COMPLETED 49.33 DAY 06 NO 05 YR 83
LOG	OF OVERBURDEN AND BED	ROCK MATERI	ALS (SEE INSTRUCTIONS)	
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DO THIS I FRESH 3 [] SULPHUR 14	INCHES INCHES	FROM TO	C MATERIAL AND TYPE	DEPTH TO TOP 41-44 3 OF SCREEN
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20-28 9 _ FRESH 3 [] SULPHUR 24 2 _ SALTY 4 _ MINERAL	17-18 1 [] STEEL 19 8 [] GALVANIZED 3 [] CONCRETE	20-2	FROM TO	ATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC )
25-26 1 _ FRESH 3 _ SULPHUR 29 2 _ SALTY 4 _ MINERAL	4 OPEN HOLE 24-25 1 STEEL 26	27-30	10-13 14-17	
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PUMPING	2 PRECOVERY 30 MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 33-			nkow.
	FEET FEET FE	- Are	prior	
U     FEET     FEET     FEET     FEET       IF FLOWING, GIVE RATE     38-81     PUMP INTAKE SET       G     GPM       BECOMMENDED PUMP TYPE     RECOMMENDED       PUMP	43-45 RECOMMENDED 48-4			
SHALLOW DEEP SETTING	93 FEET RATE 13 GP	2 <b>M</b>	Es bia	• · · ·
FINAL I WATER SUPPLY	S . ABANDONED, INSUFFICIENT SUPPLY		$  \forall  $	well
STATUS 2 OBSERVATION WELL STATUS 1 TEST HOLE OF WELL 0 RECHARGE WELL	6 🗖 ANANDONED, POOR QUALITY 7 🗍 UNFINISHED	1		orl
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		-  · <b>`</b>	<b>\</b>	
METHOD 2 D ROTARY (CONVENTION OF 2 ROTARY (REVERSE)	IAL) 7 🗋 DIAMOND 6 🗋 JETTING			
DRILLING	• DRIVING	DRILLERS REMAR	IKS	
MANE FELL CONTRACTOR	mittel 3323		58 CONTRACTOR 59-62	010384
ADDRESS Jack Aawy &	taile	D DATE OF INSP	ECTION INSPECTOR	
NAME OF DRILLER OR BORT	LICENCE NUMBER	D REMARKS	 	
SIGNATURE & CONTRACTOR	SUGMISSION DATE	OFFICE		CCC RC
MINISTRY OF THE ENVIRONM	DATNO			FORM NO. 0506-4-77 FORM 7

Ministry			т	he Ontario	Water Resou	31F8a	8314
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		N AND BEDI	ROCK MAT		INSTRUCTIONS)	· · · · · · · · · · · · · · · · · · ·	47
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32 1 2 WATER RECORD	(51) CASING &	OPEN HOLE			54 OF OPENING	31-33 DIAMETER 34.	38 LENGTH 39-40
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OF WELL 1 A C RECHARGE WELL	L B ABANDONED. POOR 7 UNFINISHED	QUALITY		$\mathbf{N}$			
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57     1     CABLE TOOL       2     ROTARY (CONVENT       OF     3     ROTARY (REVERSE)							
DRILLING C ROLARY (AIR)	9 🗋 DRIVING		DRILLERS RE	MARKS			
a have a well contraction	Am Ita	ENCE NUMBER	DATA SOURCE	58 CO	NTRACTOR 59-62 0 3323	0103	84""
ADDRESS ADDRES	Ontario		SE	NSPECTION	INSPECTOR		×
BIGNATURE OF CONTRACTOR	SUBMISSION DATE	ENCE NUMBER				·····	
MINISTRY OF THE ENVIRON	DAY 12 NO	<u>9_vr.</u>	Ō				6-4-77 FORM 7

Ministry of the Environmen	en e	a a shi nashi na sa sa sa	WA		ER	W	Water Resou ELL	RE		8314 RE
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	ABLE TOOL DTARY (CONVENTIONAL) DTARY (REVERSE)	<ul> <li>BORING</li> <li>DIAMOND</li> <li>JETTING</li> </ul>				•				
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NAME OF WELL CONTRACTOR	L. 1.	. 4×1"	33.2.7	15	DATA SOURCE	50 C	ONTRACTOR 59-62	<b>``T</b> '	03 0	<b>A</b> ""
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NAME OF	WELL CONTRACT		11 1		BER	DRILLERS REMAR	58	CONTRACTOR 59-6	Z DAL ROZIVER	06	84
	und	lue	l Di	47	67	DATE OF INSP	ECTION	4767		<u>r</u> -	<b>~</b> ``
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2. CHECK CORRE	TOWNSHIP, BOROUGH. CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	Lot 27	2 <u>1 24</u> 5 2 <sup>3</sup>
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1 : // 10 /2	NING 90	ELEVATION 2C NASIN CODE 1: 5 26 30 31 31		1
LOU GENERAL COLOUR COMMON MATERIAL	G OF OVERBURDEN AND BEDRO	OCK MATERIALS (SEE INSTRUCTIONS) GENERAL DESCRIPTION	DEPTH - FEET	
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Sondo Shaul.			40 22	6
Shey Liniestone			126 22	^ر.
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41 WATER RECORD	DIAM MATERIAL THICKNESS	RECORD     SIZE(S) OF OPENING     31-33     DIAME       DEPTH · FEET     U     SIZE(S) OF OPENING     31-33     DIAME       ROM     TO     TO     SIZE(S) OF OPENING     SIZE(S) OF OPENING <td></td> <td>FEET</td>		FEET
10-13 1 C PRESH 3 SULPHUR 14 2 SALTY 4 MINERAL 15-18 1 FRESH 3 SULPHUR <sup>19</sup>	17-11 1 CSTEEL 12 2 1 GALVANIZED 14C	0 126	OF SCREEN	
2 SALTY 4 MINERAL 20-23 1 FRESH 3 SULPHUR <sup>24</sup> 2 SALTY 4 MINERAL	4 □ OPEN HOLE 17-18 1 □ STEEL 19 2 □ GALVANIZED	61         PLUGGING & SEAL           20-23         DEPTH SET AT - FEET           FROM         TO		,
25-28 1 G FRESH 3 G SULPHUR <sup>29</sup> 2 G SALTY 4 G MINERAL	3 ☐ CONCRETE 4 ☐ OPEN HOLE 24-25 1 ☐ STEEL 26 2 ☐ GALVANIZED	10-13         14-17           27-30         18-21         22-25		
30-33 1 _ FRESH 3 _ SULPHUR 34 80 2 _ SALTY 4 _ MINERAL	3 CONCRETE 4 OPEN HOLE	26-29 30-33 80		
PUMPING TEST METHOD         IO         PUMPING RATE           1         PUMP         2         BAILER           STATIC         WATER LEVEL         25	11-14 DURATION OF PUMPING 15-16 17-18 GPM HOURS MINS	LOCATION OF WEL		
STATIC     WATER LEVEL     Law       LEVEL     END OF       PUMPING       19-21       22-24       IS MINUTES       26-28	I         PUMPING           ELS DURING         Z         RECOVERY           30 MINUTES         45 MINUTES         60 MINUTES           29-31         32-34         35-37	LOT LINE INDICATE NORTH BY ARROW.		
FEET         FEET         FEET           IF FLOWING.         3B-41         PUNP INTAKE SET           GIVE RATE         GPN         GPN           RECOMMENDED PUMP TYPE         RECOMMENDED PUMP TYPE         PUNP		/	<b>/</b>	
RECOMMENDED PUMP TYPE RECOMMENDED PUMP TYPE PUMP PUMP SETTING	FEET         1         CLEAR         2         CLOUDY           43-45         RECOMMENDED         46-49			
FINAL 54 + Grater SUPPLY	S ABANDONED, INSUFFICIENT SUPPLY	1000 1		
STATUS     2     OESERVATION WELL       3     1     TEST HOLE       OF WELL     4     0	ABANDONED POOR QUALITY     UNFINISHED	EntyPD	$\sum_{i}$	
WATER 2 STOCK 3 IRRIGATION	COMMERCIAL COMMERCIAL DUBLIC SUPPLY COOLING OR AIR CONDITIONING ONOT USED			
57     I     CABLE TOOL       METHOD     2     ROTARY (CONVENTIO       OF     3     ROJARY (REVERSE)	6 🗋 BORING	DRILLERS REMARKS: DRILLERS REMARKS: DATA SOURCE SS CONTRACTOR SS-62 DATE RECEIVED DATE RECEIVED	mures	
DRILLING 4 CHROTARY (AIR) 5 CHAIR PERCUSSION	9 🗍 DRIVING	DRILLERS REMARKS:		
ADDRESS	LICENCE NUMBER 4767	DATA 58 CONTRACTOR 59-62 DATE RECEIVED	986	80
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SIGNATURE OF CONTRACTOR		OFFICE		
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COUNTY OR DISTRICT	C.	TOWNSHIP, BOROUGH, CI			CON	BLOCK TRACT. SURVEY	. ETC	
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	L		N AND BEDRO	OCK MATERIA	ALS (SEE )	NSTRUCTIONS)		DEPTH - FEET
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		51 CASING 8				54 54 51 OF OPENING 5	65 65 01-33 DIAMETER	34-38 LENGTH 39-40
WATER FOUND	KIND OF WATER	INSIDE		DEPTH - FEET	1181			INCHES FEET
AC-FEEL DIAM MALERIAL INCRES FRUM TO DEFIN TO TOP 41-44								H TO TOP 41-44 30 Creen Feet
15-18 1 (	6 □ GAS FRESH 3 □ SULPHUR 4 □ MINERALS SALTY 6 □ GAS	3 170	61	PLUGGING	& SEALING	RECORD		
20-23 1	20-23	DEPTH : FROM	SET AT FEET M	ATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)			
	2         SALTY         4         MINERALS         3         GONCETE           25-28         1         FRESH         3         GSULPHUR         29         5         PLASTIC				0	-13 20 4-17 (	EMEN	T GROW
	4    MINERALS 5 ALTY 6    GAS 1 FRESH 3    SULPHUR 34 80 4    MINERALS	1 DSTEEL 2 DGALVANIZED 3 DCONCRETE	26	27-30	18			
<b>2</b> [	J SALIT B LIGAS	4 OPEN HOLE 5 DPLASTIC						
	THOD 10 PUMPING RATI	2	PUMPING <b>5-16</b> 17-18 HOURS MINS		L	OCATION O	FWELL	
STATIC LEVEL	WATER LEVEL 25 END OF WATER L PUMPING		PUMPING RECOVERY			OW SHOW DISTANCES DICATE NORTH BY AR		I ROAD AND
TEST 20	22-24 IS MINUTES				CAVAN	AGH D	>	
IF FLOWING. GIVE RATE	T OSFEET OFE		FEET FEET					· · · · · · · · · · · · · · · · · · ·
U IF FLOWING GIVE RATE RECOMMENDED PU		D 43-45 RECOMMENDE			40	JUE Y		
G SHALLOV	W DEEP SETTING	65 FEET RATE	10 gpm		Lx	Drughy		
	*				35			<u> </u>
FINAL STATUS	1 1 WATER SUPPLY 2 DOBSERVATION WEI 3 TEST HOLE		SUFFICIENT SUPPLY OR QUALITY	20	<b>•</b>	6 AROQe	House	
OF WELL	4 C RECHARGE WELL	D DEWATERING		ANG STAFF				
WATER	2 STOCK 3 IRRIGATION	<ul> <li>MUNICIPAL</li> <li>PUBLIC SUPPLY</li> </ul>		10.51				
USE	4 INDUSTRIAL	COOLING OR AIR COM	NDITIONING IOT USED	ve X				111
METHOD	57   _ CABLE TOOL 2 _ ROTARY (CONVEN)	6 BORING TIONAL) 7 DIAMON	- 1					/N.
OF	3 C ROTARY (REVERSE		5					55299
	S AIR PERCUSSION		G OTHER	DRILLERS REMA				
NAME OF WELL			CONTRACTOR'S		58 C	5222	OCT 1	2 1989
	Rubr	- A	P) -		ECTION	INSPECTOR	•	
NAME OF THE	LARX MS	1 CARD	ELL TECHNICIAN'S CENCE NUMBER					
	TECHNICIAN COMPACTOR	SUBMISSION DATE	-0190	OFFICE				
	- ypur	DAY N	0 YR,	0		<u>,, , , , , , , , , , , , , , , , ,</u>	FORM N	C. 0506 (11/86) FORM 9
MINISTRY	OF THE ENVIRON	MENT COPY						

<b>(</b>		Ministry of the Environment	Well Tag Number (Pla	wine sticker and print	t number below)	Regulation 903	Ontar			ecord
Instructi	ons for Completir	a Form	Decom	-7	and the second			pa	ige/	of
<ul> <li>For u</li> <li>All Se</li> <li>Ques</li> <li>All m</li> </ul>	se in the <b>Province</b> ctions <b>must</b> be cor tions regarding com	of Ontario only. The npleted in full to average opleting this applicates the shall be reported	is document is a pern bid delays in processin tion can be directed to d to 1/10 <sup>th</sup> of a metre	nanent <b>legal</b> ng. Further ir o the Water \	nstructions and	explanations are ava	116-23	on the bac 35-6203.		niś form.
	ner's Information		Nell Information		co	N		L	OT	
RR#/Stree	t Number/Name	· · · · · ·		City/Town/Vil	lage	Site/Compa	rtment	/Block/Tra	ct etc.	
GPS Read	ng NAD ZOI	19 Storeat	Northing	Unit Make/Mo	CG VP odel Mode	of Operation: 🗍 Undi	fferentia	ited	Averag	jed
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Log of O General Co	our Most common	····	Other Materials	- 	General	Description		Dept		Metres To
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H	ole Diameter		Construction Rec	ord		Tes	t of W	eli Yield		
Depth	Metres Diameter	Inside	Wall	Depth	Metres	Pumping test method		w Down		covery
From	To Centimetres	diam Mat	erial thickness centimetres	From	То		nin min	Nater Level Metres	min	Water Level Metres
2			Casing			Pump intake set at - (metres)	Static Level			
-		Steel	Fibreglass			Pumping rate - (litres/min)	1		1	
		4 1	Concrete			Duration of pumping	2		2	
Water found atMetr	ater Record	Galvaniz	Fibreglass		<u></u>	hrs + min				
	Fresh Sulphur					Final water level end of pumping	3		3	<u> </u>
Gas Other:	Salty Minerals					Recommended pump	4		4	
	Fresh Sulphur		Fibreglass			type. Shallow Deep Recommended pump			-	
Gas Other:	Salty Minerals	Galvani	Zed			depthmetres	5		5	
	Fresh Suiphur		Screen			Recommended pump rate.	10		10	
Gas Other:	Salty Minerals	Outside diam	Fibreglass Slot No.			(litres/min)	15 20		15 20	
	f well yield, water was		, Concrete	-		(litres/min)	25		25	
	nd sediment free	Galvani				If pumping discontin- ued, give reason.	30 40		30 40	
	specify		No Casing or Sc	reen		1.	40 50		40 50	
Chlorinate	🕻 🔍 Yes 🗌 No	Open h	) 9				60		60	
	Plugging and S	ealing Record	· · · · · ·	Abandonment		Location			and bui	Idina
Depth set a	at - Metres Material and ty	ype (bentonite slurry, neat		bic metres)	In diagram below Indicate north by	v show distances of well f v arrow.	X N	u, iotinie, a		ung.
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		Method of Construc	tion			المراجع المراجع . المراجع : المراجع : المراجع : المراجع :				
	ool Rotary conventional) Air pe		] Diamond	Digging						
	reverse)		] Driving -							
Domest	ic []Indusi	Water Use	Public Supply	Other		Rullington	- CA			
Stock	Comn	nercial	Not used –				to Wall	Completed		
Irrigatio	n Munic	Final Status of W	Cooling & air conditioning		Audit No. Z	33661	ate vveil	Completed	84 I	08 09
U Water S		well	] Unfinished 🛛 🔄 Aban	doned, (Other)		wner's information Da	ate Deliv			MM DD
Observa		d, insufficient supply [ d, poor quality 📃	] Dewatering ] Replacement well		package delivere					
	Well Co	ontractor/Technician		e Licence No	Data Source	Ministry Us	se Onl	vr		
Name of W	ell Contractor	a sella	Well Contractors		•			61	_	)4
Business A	ddress (street name, nur	nber, city etc.)	- Predencia Iri	TOIL	Date Received		ate of In	spection <sub>Y</sub>	(YYY I	MM DD
Name of V	ell Technician (last name	<u>entuo DHaax</u> a, first name)	Well Technician'	s Licence No.	Remarks	W	ell Reco	ord Number		<b>I</b>
	of Technician/Contractor	Iright,	Date Submitted w	YY MM DD						
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0506E (09/	<b>03)</b> aya da aya ang ang atao	Contractor's	Copy Ministry's Cop	oy 🗋 🛛 Well Ow	/ner's Copy 🗌	Cette	iormul	9 est aispo	UDIO 1	en français

Ontario Ministry of the Environment

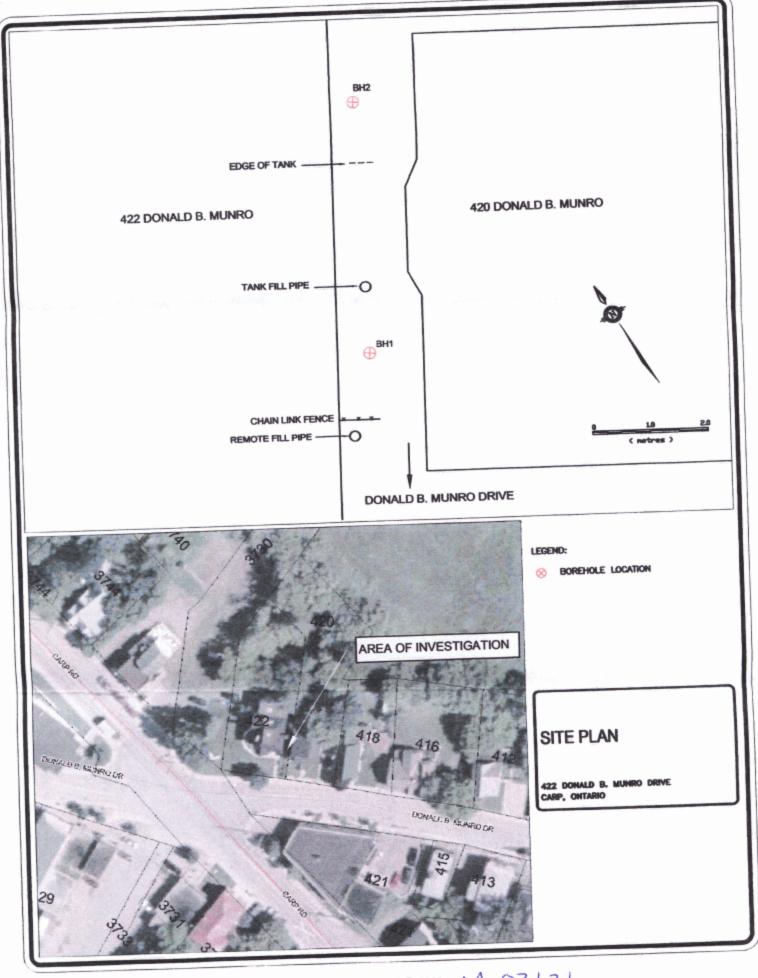
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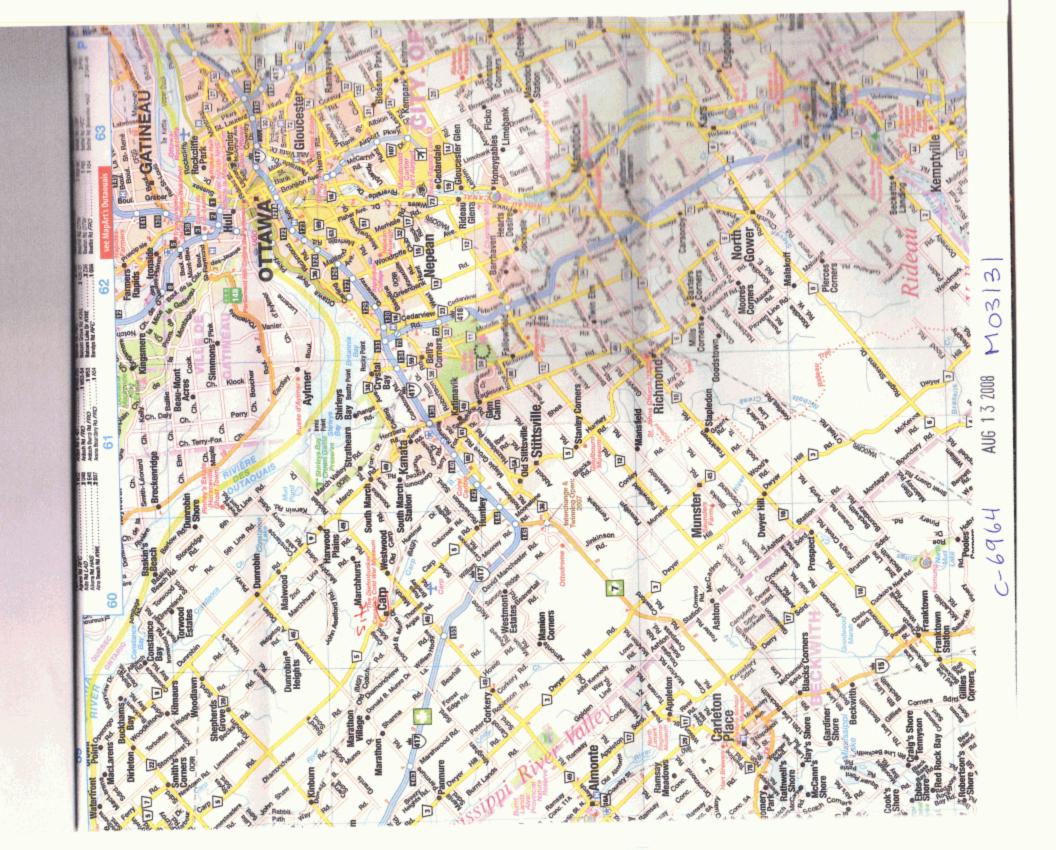
Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act
Page \_\_\_\_\_ of \_\_\_\_\_

Address of	Well Location (Street	t Number/Name, RR)		Township	р	_			Lot	Concessio	no		
		Aunro Drive		City/Tow	St C	arle	ton-n	arch	zaspe	Province	Postal Code		
County/District/Municipality					nu villag	le				Ontario	NOIAULO		
UTM Coordinates Zone Easting Northing G			SPS Unit N	Make	Model	1				Averaged			
		8 90 9 50 2		nlagel		explo	rist	Differen	tiated, specif				
Overb General	Most Common	Materials (see instr Other	Genera	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(Metres)	Depth	(Metres)	HC	le Details Diamet	er		
Colour	Material	Materials	Descript		From	То	From	То		(Centime			
	topsoil	General	Jack	1	0	0.6	0	6.0		5.0			
	topson	gravel	1 10000	1		1.1.1.1.1.1.1							
Drown	Sand	~	Adium Sa	T. 12. 20	0.6	15			and a state of the				
gray	prown sand mediumsand 0.6 1.5 gray clay 1.5 6.0												
	/							and the second					
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	1311 2-	no instal	a Tion	Stor - 11			Irrigati	on 🔄 i		Cooling & Air Con	anoning		
							Cable Tool Air Percussion Digging						
						-	Rotary	(Conventio	nal) 🗌 Dia	mond Bo	oring		
							Rotary	(Reverse) (Air)	Jett		her, specify		
			L	-		Line internet			Sta	tus of Well			
							Test H	lole	Abandoned, Insufficient Supply				
								cement Well		indoned, Poor Water	Quality		
							Dewatering Well Other, specify Alteration (Construction) Abandoned, other, specify						
							No Cas	ing and S	creen Used	Static Wa	ter Level Test		
-	and the second second	Section and the section of the secti	and have been				Open Hole	e	1. A LAND C. MARGARINA	and some local sectors in the last of	etres		
		Construction De	tails		Death	(Adatasa)		Yes		Screen			
Inside Dia (Centime		Material fibreglass, concrete, g	alvanized) Th	Wall	From	(Metres) To	Galvar	nized	Steel F	breglass	rete Plastic		
3.5	- ala	the mican	0	.3	0	3.0	Outside D	iameter (C	entimetres)	Slot No.	\		
in the second					3.0	6.0		4.1	Matan				
3.5 plastic screen 0.3						6.0	Water fo	und at Dep		Details d of Water	Statement of the statement of		
							( 1	Metres	Gas Gas	Fresh Salty	Sulphur Minerals		
						12.50	Water fo	und at Dep		d of Water Fresh Salty 🗌	Sulphur Minerals		
Depth Set	Annular at (Metres)	Type of Sealant		cord	Volum	e Used	Water fo	Metres und at Dep	000	d of Water			
From	То	(Material and Ty)				Metres)		Metres	Gas Gas	Fresh Salty	Sulphur 🗌 Minerals		
O	2.3 6	entonite pelle	ts				Disinfecte	d 🗌 Yes	No If no, p	to the to the to the the	Master Well Completed		
2.3		ilter sand			46	an					11/50/800		
		in the series				لتر				so fill out the addit			
							and the second second	tion for We			I of land and cluster.) Number of Cluster Well		
										Information Log	Sheets Submitted		
							Total We	ells on this l	Property				
							CARACTER CO.	the state of the same	Locatio	n of Well Cluster	Construction of the second second		
									be provided a es are not all		larger than legal size		
							11 · · ·				per Section 11.1 (3)		
								to release		nformation concer	ning the cluster to		
								UDAD I	and the second sec				
Constanting of	Well Cont	tractor and Well Tec	hnician Infor	mation		a ser							
	ame of Well Contract		1	Well Contra									
Business	Address (Street No./Na	ame, number RR)	Mupic	cipality	) 6	9							
				+Im o	ala				MIRIS	try use only			
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Onta	Ontanio No ALAO Ogs incobell net.ca Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)						Date Per	xeived (yyyy)		Date of Inspectio	n (www.mm/nh-th		
6 132567666 Ohlmann Will						Date Rec	AUG 13		Date of mspecilo	(J)))minou)			
Well Techni	ician's Licence No. Sigr	nature of echnician		Date Subr			Remarks						
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## **APPENDIX 3**

QUALIFICATIONS OF ASSESSORS

## Mandy Witteman, B.Eng., M.A.Sc.

## patersongroup

## POSITION

Intermediate Environmental Engineer

## EDUCATION

Carleton University M.A.Sc., Environmental Engineering, 2013 B.Eng., Environmental Engineering, 2008

## **MEMBERSHIPS & AWARDS**

Ontario Professional Engineers Association (EIT) NSERC Industry R&D Scholarship

### **EXPERIENCE**

2018 – Present **Paterson Group Inc.** Consulting Engineers Geotechnical and Environmental Division Environmental Engineer

2014 – 2015 **Thurber Engineering Limited** Oil Sand Tailings Group Tailings Engineer

2009 – 2014 Carleton University Department of Civil & Environmental Engineering Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009 SLR Consulting Limited Contaminated Sites Junior Environmental Engineer

## SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston Remediation – National Capital Region, Saskatchewan Multi-lift and dry-stacking pilot programs – Northern Alberta Polymer amended oil sand tailings – Northern Alberta Hydraulic cut-off wall – Allen, Saskatchewan Cemented paste backfill systems – Northern Ontario

## Mark S. D'Arcy, P. Eng.

# patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

**Materials Testing** 

**Building Science** 

Archaeological Services

#### POSITION

Associate and Supervisor of the Environmental Division Senior Environmental/Geotechnical Engineer

#### EDUCATION

Queen's University, B.A.Sc.Eng, 1991 Geotechnical / Geological Engineering

### **MEMBERSHIPS**

Ottawa Geotechnical Group Professional Engineers of Ontario

## **EXPERIENCE**

1991 to Present **Paterson Group Inc.** Associate and Senior Environmental/Geotechnical Engineer Environmental and Geotechnical Division Supervisor of the Environmental Division

## SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island Agricultural Supply Facilities - Eastern Ontario Laboratory Facility - Edmonton (Alberta) Ottawa International Airport - Contaminant Migration Study - Ottawa **Richmond Road Reconstruction - Ottawa** Billings Hurdman Interconnect - Ottawa Bank Street Reconstruction - Ottawa Environmental Review - Various Laboratories across Canada - CFIA Dwyer Hill Training Centre - Ottawa Nortel Networks Environmental Monitoring - Carling Campus - Ottawa Remediation Program - Block D Lands - Kingston Investigation of former landfill sites - City of Ottawa Record of Site Condition for Railway Lands - North Bay Commercial Properties - Guelph and Brampton Brownfields Remediation - Alcan Site - Kingston Montreal Road Reconstruction - Ottawa Appleford Street Residential Development - Ottawa Remediation Program - Ottawa Train Yards Remediation Program - Bayshore and Heron Gate Gladstone Avenue Reconstruction - Ottawa Somerset Avenue West Reconstruction - Ottawa