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ENVIRONMENTAL SERVICES

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared For:
Drew McDonald Holdings Ltd.

Property Description:
*25 Wheatland Crescent, Provost,
AB Lot 4, Block 46, Plan 802 1020*

Project Number:
110-2032



Prepared By:

Rev.	Date	Description
0	26-May-20	Issued for Client Use
A	25-May-20	Issued for Internal Review



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1. EXECUTIVE SUMMARY

Bolson Engineering and Environmental Services was retained by Robert McDonald of Drew McDonald Holdings Ltd. to complete a Phase I Environmental Site Assessment (ESA) for the property located at 25 Wheatland Crescent (Lot 4, Block 46, Plan 802 1020) in Provost, AB. The total area of the subject property is approximately 0.75 Acres in size and the site currently has a 12,000 ft² shop/office building situated on.

Information from historical land titles, air photo reviews, on-site inspections, inspections of neighboring properties and hydrogeological conditions were supplemented with searches for Environmental Protection Orders, Water Well Searches, and a PTMAA Search to complete this Phase I Environmental Site Assessment.

Upon review of the available information and a site review, it was deemed that the property does not pose any significant environmental liability at this time. Bolson had access to the entire property and there were no indications that further environmental investigation is required.

The opinions outlined in this report are solely those of Bolson Engineering and Environmental Services and do not necessarily reflect the viewpoint of the Client (Drew McDonald Holdings Ltd.). This report is written for the benefit and use of the Client and his/her financial institution(s). All information is valid to the date of the report and limited by the information that was shared by the 3rd parties involved. While every effort is made to confirm that the data collected is factual, complete, and accurate; Bolson Engineering and Environmental Services make no guarantees or warranties whatsoever with respect to such data.

2. INTRODUCTION

Drew McDonald Holdings Ltd. has engaged Bolson Engineering and Environmental Services to perform a Phase I Environmental Site Assessment for the property located at 25 Wheatland Crescent (Lot 4, Block 46, Plan 802 1020) in Provost, AB, hereby known as “the subject property” in this report. A site reconnaissance took place on May 14th, 2020 and the findings of this assessment and reconnaissance are enclosed.

2.1 Purpose and Scope of Services

The purpose of this Phase I ESA is to reduce environmental risk/liability by identifying sources or potential sources of contamination within the subject site. The scope of work of this ESA was in general accordance with CSA Standard Z768-01: Phase I Environmental Site Assessments. The methodologies described in this standard outline a recognized practice for conducting an ESA of a subject property in order to identify and document potential and recognized environmental conditions.

2.2 Assumptions, Exceptions and Limitations

While this report provides a summary of both potential and recognized environmental conditions as described above, the assessment is limited by the availability of information in relation to the site at the time this report was compiled. The conclusions and recommendations derived in this report are based in part on information provided by third parties with specific knowledge of the property.

However, the possibility exists that information relevant to the environmental condition of the site was not available or was not provided during the creation of this report. Also, it may be possible that unreported environmentally harmful activities, such as undocumented disposal of waste, may have taken place and would not be identified in this report, as no pertinent documentation for such activities would exist. In the event of either of these scenarios, Bolson Engineering and Environmental must be informed if any new information is made available so it can be determined if modifications to the conclusions and recommendations provided in this document are required.

In the interests of completing this report in a timely fashion suitable to the client, certain limitations exist and are generally the result of inaccessible areas, visual impairments due to weather and/or timing of 3rd party requests for information. Where such limitations were encountered, they are discussed in greater detail within the relevant sections throughout the report.

2.3 User Reliance

This report has been created for the sole use of Drew McDonald Holdings Ltd. Unless given written permission by Bolson Engineering and Environmental Services, reliance and use of the information provided in this report by others is strictly prohibited.

3. SITE DESCRIPTION

The subject property currently has a 12,000 ft² shop/office building situated on it that was constructed in or around 1980. The property is zoned IND (Industrial) and has gravel parking available at the front of the building. Access to the site is from Wheatland Crescent at the front of the property.

The topography of the site and surrounding area is fairly flat due to the fact that the entire commercial/industrial area is developed. There are no major bodies of water in the immediate vicinity of the property), and it appears that the site drains to the perimeter ditches along Wheatland Crescent.

The geology of the overall area consists primarily of sand and clay till deposits overlying the bedrock of the Wapiti Formation (Alberta Geological Society, 1993). The soil itself falls into the Chernozemic Classification (Soil Classification of Canada, 2018) which is a black-colored soil containing a high percentage of humus, phosphorus and ammonia. This soil is typical of the Prairie Regions. See Appendix B: *Soil Classification of Canada* for further information.

The near surface geology of the Provost area is characterized by glacial deposits which include, but are not limited to, tills and lacustrine deposits that vary in thickness across the area. Intermixed with these glacial deposits are sands, silts, and gravels that may be of fluvial origin. Below the surficial deposits within the Provost area is the Horseshoe Canyon Formation. The Horseshoe Canyon Formation is the lower part of the Edmonton Group. The Horseshoe Canyon consists of sandstone, siltstone and shale with interbedded coal seams.

With regards to the hydrogeological information of the area the subject property seems to have a downward direction of groundwater flow towards the southwest and would produce estimated yields of 15-20 gpm for well water as per information found in the Hydrogeological Map of Provost and Surrounding Areas.

The average temperature for the area was found to be 14.8°C for the May-September period. The average total precipitation for this period is 341mm and the average annual total precipitation is 479mm (Citystats.ca, 2019).

A search was conducted using the Alberta Conservation Information Management System (Alberta Tourism, Parks and Recreation, 2020) to identify any sensitive or protected environmental areas. Nothing was found. See Appendix C: *ACIMS Search Data* for further information.

4. SITE ASSESSMENT

Information from historical land titles, air photo reviews, on-site inspections, and inspections of neighboring properties was supplemented with searches for Environmental Protection Orders, Water Well Searches, PTMAA Search and an ESAR Search to complete the Phase I Environmental Site Assessment.

4.1 Site Visit Findings

A site visit was completed on May 14th, 2020 to inspect the subject property. Select photographs of the site visit can be found in Appendix A: *Maps/Sketches/Figures*. The findings of the site reconnaissance are outlined below:

- Above Ground Storage Tanks (AST's)
An above ground waste oil tank was observed adjacent to the north end of the building. No evidence of leaks or contamination were noted and there was a secondary spill containment area around the tank.
- Underground Storage Tanks (UST's)
During the site visit no underground storage tanks were noted on the subject property. This was confirmed through research of the PTMAA database.
- On-site Buildings and Structures
There is currently a 12,000 ft² office/shop building situated on the site that was constructed in or around 1980. See Section 4.3 for further information on the on-site structures.
- Discolored Soils/Stressed Vegetation
During the site visit no discolored soils or stressed vegetation was noted.
- Stained Surfaces
No stained surfaces that would be considered a potential environmental concern were noted on the subject property during the site inspection.
- Drums and Other Containers
During the site visit a few storage containers and drums were observed on the property. All the containers were properly labeled and were mostly empty canisters.
- Dumping or Fill
No dumping or fill material was noted on the subject property.
- Odors
No strong, pungent or noxious odors were noted on the subject property. These observations are general in nature and do not reflect a formal odor assessment.

- PCB's
Polychlorinated Biphenyls (PCB's) were commonly used lubricants and coolants for electrical equipment, including transformers, from the 1930's until the 1970's. The use of PCB's was banned from use in electrical equipment installed after September 1, 1977 and in transformers installed after July 1, 1980. It is not necessary to remove any functioning PCB containing equipment from the site. If any electrical equipment is removed from the site, the manufacturing date should be determined prior to disposal. Any equipment determined to have been manufactured before 1977 should be assessed for the potential of containing PCB's. Equipment containing PCB's must be disposed of at a licensed facility.

There is no evidence of PCB's at the subject property.

- Pesticides
During the site visit, storage or use of pesticides was not observed at the subject property.
- Petroleum Products
Some portable fuel cans were noted on the subject property but were properly labeled and sealed.
- Pits, Ponds or Lagoons
No pits, ponds or lagoons were noted on the subject property.
- Solid Waste
Solid waste is collected in bins and disposed of as required.
- Waste Air Emissions
There are no potential sources of waste air emissions other than typical vehicle exhaust release.
- Waste Water
Drainage on the subject property is overland to the minor storm ditch system. There appears to be adequate drainage away from the building.
- Wells
Three Water Wells were noted in the vicinity of the property and are discussed in greater detail in Section 5.5: Water Well Survey.
- HVAC and Mechanical Equipment
All HVAC and Mechanical Equipment on the property appear to be in good working condition with no signs of leaks or contamination.

- Urea Formaldehyde Insulation

Urea Formaldehyde Foam Insulation (UFFI) was commonly used during the 1970's in both residential and commercial buildings as a means to fill wall cavities for energy conservation. This practice was banned in Canada in 1980 due to the potential for formaldehyde emissions.

As the original building was constructed around 1980, it is possible that there may be UFFI materials within the buildings. It is recommended that prior to any planned demolition a formal assessment for UFFI materials be conducted and the appropriate disposal measures be taken if required.

- Chlorofluorocarbons

Chlorofluorocarbons (CFC's) are one of the more widely used and common ozone depleting substances. Typical examples of CFC's include coolants in refrigerators, freezers, air conditioners, and propellers in aerosol sprays.

There is no evidence of CFC releases present on the subject property.

- Radon Gas

Radon Gas is a by-product of the natural decay of radium. A significant amount of naturally occurring radon gas can come from specific types of geological formations.

There is no evidence of Radon Gas on the site.

- Asbestos Containing Materials

Asbestos Containing Materials (ACM's) were commonly used in construction for insulation, sound/fire proofing and in various other construction materials. The use of (ACM's) generally ceased voluntarily in the mid 1970's due to health concerns associated with it, but was not banned through legislation until the mid 1980's.

As the original building was constructed in 1980, it is possible that there may be ACM's within the buildings. It is recommended that prior to any planned demolition a formal assessment for ACM's be conducted and the appropriate disposal measures be taken if required.

- Lead Based Materials

Lead in buildings is generally found in buildings in lead based paint or lead solders the plumbing. During the mid 1970's the government reduced the allowable amount of lead to 0.5% by weight for interior paint and the use of lead solders was generally phased out in the mid 1980's.

As the original building was constructed in 1980, it is possible that there may be lead based materials within the buildings. It is recommended that prior to any planned demolition a formal assessment for lead based materials be conducted and the appropriate disposal measures be taken if required.

4.2 Property

The subject site is located at 25 Wheatland Crescent (Lot 4, Block 46, Plan 802 1020) in Provost, AB. The total area of the subject property is approximately 0.75 Acres in size. It is zoned Industrial Use and the property is currently vacant.

4.3 On-Site Buildings and Structures

The existing 12,000 ft² building was constructed in or around 1980. The building is divided into a shop area and front office space with floor drain and sumps and 5 overhead doors. Overall, the building appears to be in excellent shape with no signs of potential environmental contamination.

4.4 Property Exterior

The exterior of the property is graded to drain to the minor storm ditch system and away from the building. Gravel parking is available along the front of the property with access to the site from Wheatland Crescent. There were no signs of stains or distressed vegetation around the property or surrounding areas that would pose an environmental concern at the time of the assessment.

4.5 Nearby Properties

The adjacent properties are all fully developed with commercial and industrial shops and offices. There is a fuel station located a couple hundred metres to the east and some of the neighbouring sites have above ground fuel tanks located on them. None of the adjacent properties had any indications of any leaks or spills and it does not appear that any potential contamination from other properties could or has migrated to the subject site.

5. RECORDS REVIEW

The following records were researched, and the findings noted below:

5.1 Development History and Land Title Search of the Property

A search of historical land titles was conducted for the subject property. A copy of the current Certificate of Title is included in Appendix I: *Land Title Survey*.

Drew McDonald Holdings Ltd. is the current landowner and they have been since 1988. Prior to that various individuals and holding companies have owned the property. From the land title review it does not appear that there are any environmental concerns from the previous ownership.

5.2 Air Photo Review

An air photograph analysis was completed for the subject property with air photos from 1969 – 2016 being observed. Some select recent photos are included in Appendix A: *Maps/Sketches/Figures*.

The review of the air photos shows that prior to 1980 the site was undeveloped. Some adjacent properties showed evidence of some minor development. After 1980 the property was developed, and the building constructed and currently the entire area is fully developed. No evidence of landfills or dump sites was noted in the air photo review. Based on the results of the air photograph analysis there does not appear to be any potential sources of environmental concern on the subject property or surrounding areas.

5.3 Environmental Protection Orders

The Environmental Law Center was contacted and states that there has been no enforcement action issued under the Alberta Environmental Protection and Enhancement Act (EPEA) and its predecessor legislation the “Hazardous Chemicals Act”, “Agricultural Chemicals Act”, “Clean Water Act”, and “Clean Air Act” to 1971 and/or pursuant to the “Water Act” from 1999 onwards for the current property owner. See Appendix E: *Environmental Protection Orders* for further information.

A request was made to the Alberta Environment and Water’s Freedom of Information and Protection of Privacy (FOIPP) Office both under the FOIPP Act and also for information routinely available under the Environmental Protection and Enhancement (EPEA) Legislation for any information related to any contamination within the subject property. A search of Alberta Environment and Sustainable Resource Development record holdings did not find any information pertinent to this request, although we were directed to follow up with the Environmental Site Assessment Repository which is discussed in greater detail in Section 5.5: ESAR Search.

5.4 PTMAA Search

A search of the Petroleum Tank Management Association of Alberta was conducted to check for the registration of any active or inactive tanks on the subject property. No records were found. See Appendix F: *PTMAA Search* for further information.

5.5 Well Survey

A review of the Water Well Drilling Report from the Government of Alberta listed three wells located in the vicinity of the subject property. All the wells were drilled for chemistry and industrial uses. No oil or gas sources were identified in the well logs. See Appendix D: *Well Survey* for further information on the summary of the well logs.

5.6 ESAR Search

A search was completed of Alberta Environment's Environmental Site Assessment Repository (ESAR) for scientific and technical information pertaining to the Property and/or assessed sites within the vicinity of the subject property. The following document was found:

- An ENV Spill Records Update from Gibson Petroleum Company Ltd. dated January 8, 1998 was found for a site located at SEC 17 39-2-W4M. The report indicated the site had been cleaned up and rehabilitated.

No further information regarding this property or the surrounding areas was found in the database. Visual inspections on site did not indicate any concerns with the property and based on the information available it appears unlikely that any potential contamination from this site could have migrated to the subject property.

See Appendix H: *ESAR* for additional information and refer to <http://www.esar.alberta.ca/esarmain.aspx> for a copy of all technical information and data that is available.

5.7 Abadata Search

AbaData (from Abacus Datagraphics Ltd.) is an oil and gas mapping software tool that provides datasets from AER and AENV which includes well sites, pipelines, facility information, spill data and other data which is routinely updated. The subject property and surrounding areas were searched on the database and 3 well sites were noted to the east of the subject site. The 2 Surge Energy Wells are still in operation while the Husky Oil Well Site ceased operations in 1986 and was abandoned in 1996. No records of any leaks or issues were noted with any of the well sites. The results of the AbaData Search are included in Appendix G: *AbaData Search Results*.

6. FINDINGS AND RECOMMENDATIONS

Based on the results of our assessment, the following conclusions and recommendations would appear to be warranted:

1. We observed no evidence of surface staining or contamination of the site area that would warrant further assessment and/or testing of the sub base soil at this property.
2. Based on the information made available at the time of this Phase 1 Environmental Site Assessment there is no evidence of environmental contamination in connection with the subject property and no further environmental investigation is required.
3. Due to the age of the building, prior to any planned demolition it is recommended that a formal assessment for ACM's, UFFI's, and Lead Based Materials be conducted and if any materials are discovered they be disposed of accordingly.
4. It is recommended that any miscellaneous storage containers be removed from site as part of any general clean-up that occurs.

Overall, there is no evidence of current environmental contamination in connection with the property based on the available information and the site reviews. Therefore, it is the opinion of Bolson Engineering and Environmental Services that no further environmental investigation is required for this parcel at this time.

7. STANDARD LIMITATIONS

This Phase I Environmental Site Assessment report has been prepared exclusively for Drew McDonald Holdings Ltd. The purpose of this report is to provide the Client with an assessment of the potential for the presence of contamination of the property located at 25 Wheatland Crescent (Lot 4, Block 46, Plan 802 1020) in Provost, AB. This report is neither an endorsement nor a condemnation of the Site.

The findings and conclusions documented in this report have been prepared in a manner consistent with that level of care and skill normally exercised by qualified professionals currently practicing in the area of environmental assessment and are in accordance with the terms and conditions set forth in our written proposal of May 8th, 2020. No other warranty, expressed or implied, is made.

The findings presented in this report are based upon the conditions of the Site during the site review by Bolson Engineering personnel. As we conducted no subsurface explorations or testing on this site, a potential remains for the presence of unknown, unidentified, or unforeseen surface or subsurface contamination. Further evidence of such potential site contamination would require appropriate exploration and testing.

If new information is developed in future work (which may include excavations, boreholes, or other studies), Bolson should be contacted to re-evaluate the conclusions of this report, and to provide amendments as required.

No warranty, expressed or implied, is given concerning contamination at this site. Any use which a third party makes of this report, or reliance on or decisions to be based on it, are the responsibility of such third parties. Bolson will accept no damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

8. SITE ASSESSOR QUALIFICATIONS

Company Background:

- Founded in 2007
- Provides Municipal, Industrial and Commercial Engineering and Environmental Services for the North/Central Alberta Region
- Completed several ESA's in Edmonton and North Central Alberta Region
- \$2,000,000 Commercial General Liability Insurance
- \$1,000,000 Certificate of Professional Liability Errors & Omissions
- Phase I ESA's as per CSA Standard Z768-01
- Phase II ESA's as per CSA Standard Z769-00

Principal Engineers:

Trent Thompson, P. Eng.

Education:

Bachelor of Science from Department of Civil and Environmental Engineering; School of Mining and Petroleum Engineering, University of Alberta, 2002

Relevant Continuing Education:

Environmental Assessment and Remediation presented by Dr. Nasrat Hijazi (EPIC-Education)
Understanding Environmental Regulations presented by Dr. Stephen Lamming and Ms. Teresa Meadows (EPIC-Education)

Contact Information:

E-mail: tthompson@bolson.ca

Phone: 780-668-8571

9. REFERENCES

Agriculture and Agri-Food Canada – Soil Order Map of Canada, Accessed May 15th, 2020.
www.agr.gc.ca, 2019

Alberta Geological Map, Accessed May 15th, 2020.
http://www.ag.s.gov.ab.ca/publications/MAP/PDF/MAP_143.PDF

Alberta Geological Survey – Geology of the Yellowhead Corridor, Accessed May 15th, 2020.
http://www.ag.s.gov.ab.ca/publications/MAP/PDF/MAP_234.PDF

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<http://tpr.alberta.ca/parks/heritageinfocentre/datarequests/default.aspx>

Citystats.ca – Provost - Detail City Profile – Temperature and Precipitation Information
Accessed May 15th, 2020.<http://www.citystats.ca>

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<http://maps.google.com/>

Spin II Database. Alberta Registries, Accessed May 15th, 2020.
<https://alta.registries.gov.ab.ca/spinii/logon.aspx>

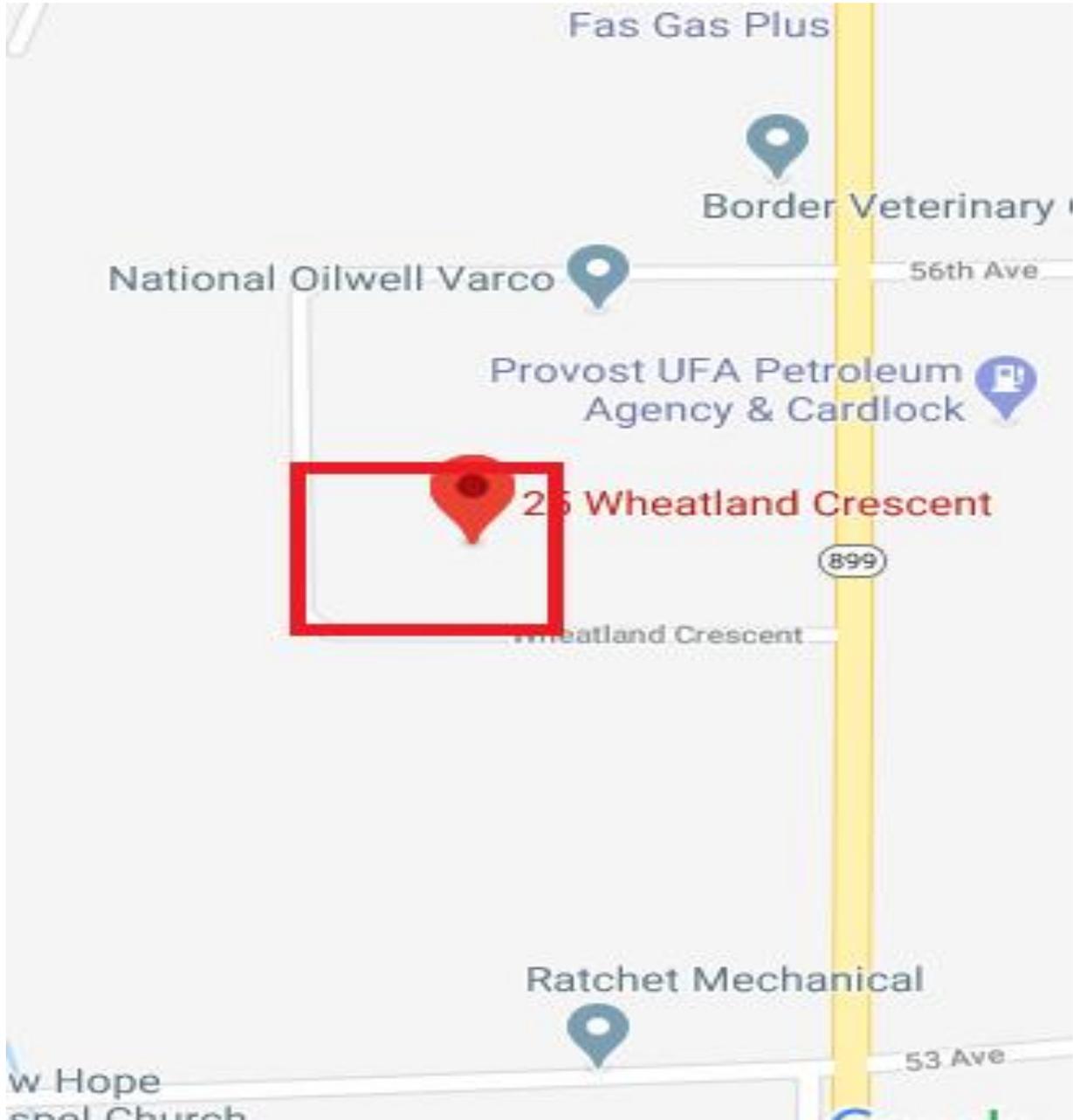
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APPENDIX A – *MAPS/SKETCHES/FIGURES*

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Client: Drew McDonald Holdings Ltd.		Project No. 110-2032
Date: 2020-05-14	Title: Phase I Environmental Site Assessment Lot 4, Block 46, Plan 802 1020 25 Wheatland Crescent Provost, AB (Location Map)	Figure: 1

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Client: Drew McDonald Holdings Ltd.		Project No. 110-2032
Date: 2020-05-14	Title: Phase I Environmental Site Assessment Lot 4, Block 46, Plan 802 1020 25 Wheatland Crescent Provost, AB (2019 Aerial Photograph)	Figure: 2

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Client: Drew McDonald Holdings Ltd.		Project No. 110-2032
Date: 2020-05-14	Title: Phase I Environmental Site Assessment Lot 4, Block 46, Plan 802 1020 25 Wheatland Crescent Provost, AB (2014 Aerial Photograph)	Figure: 3

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Client: Drew McDonald Holdings Ltd.		Project No. 110-2032
Date: 2020-05-14	Title: Phase I Environmental Site Assessment Lot 4, Block 46, Plan 802 1020 25 Wheatland Crescent Provost, AB (2002 Aerial Photograph)	Figure: 4

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FIGURE 5 – MAIN PARKING AREA



FIGURE 6 – MAIN ENTRANCE



FIGURE 7 – SOUTHWEST CORNER OF LOT



FIGURE 8 – BUILDING EXTERIOR



FIGURE 9 – SOUTH BUILDING EXTERIOR



FIGURE 10 – EAST PROPERTY LINE

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FIGURE 11 – WASTE OIL TANK



FIGURE 12 – SHOP EXTERIOR

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FIGURE 13 – OFFICE INTERIOR



FIGURE 14 – SHOP INTERIOR



FIGURE 15 – 2 STAGE SUMP COLLECTOR



FIGURE 16 – SHOP INTERIOR



FIGURE 17 – SHOP BAY WITH DRAINAGE SUMP



FIGURE 18 – SHOP BAY INTERIOR

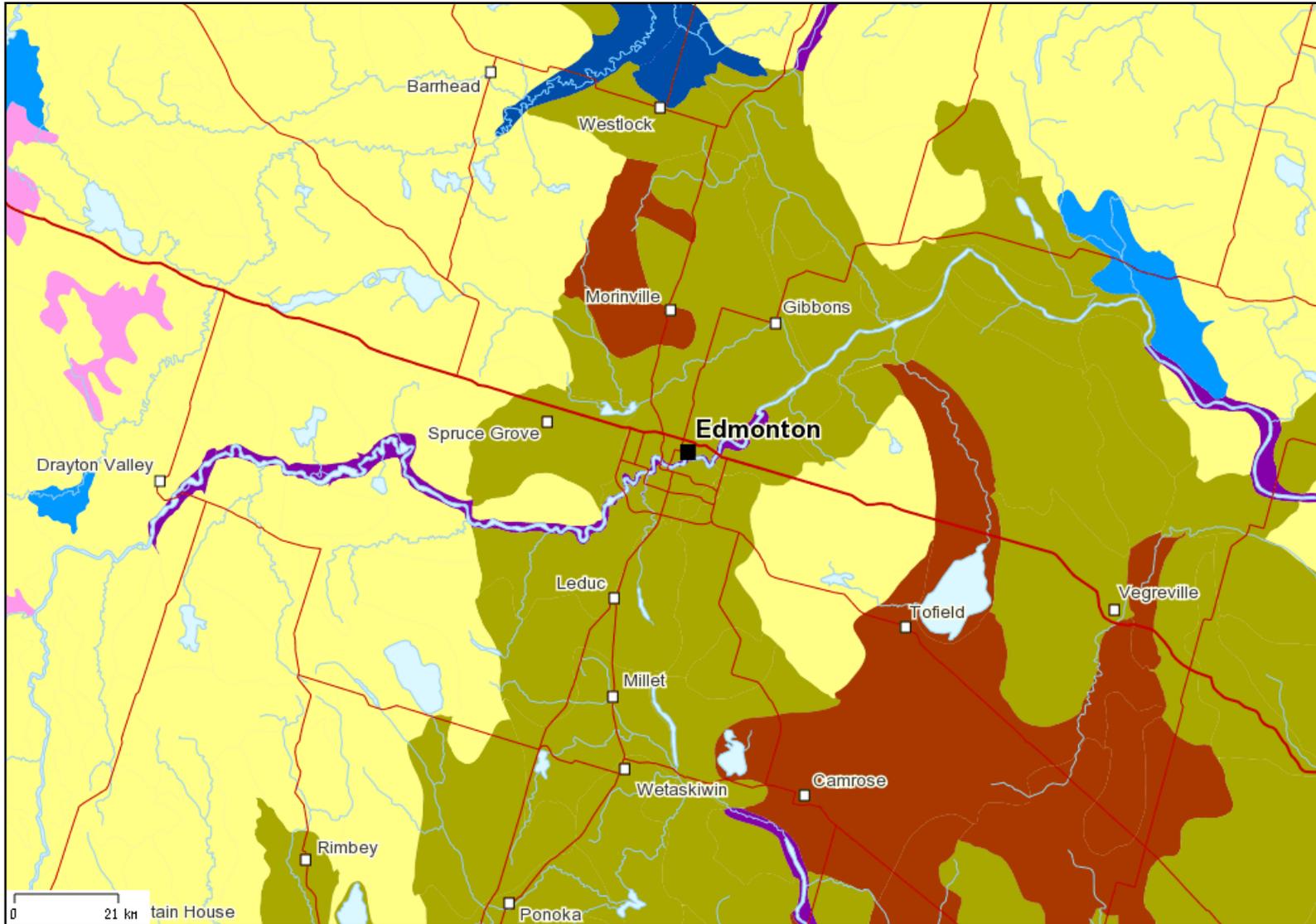
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APPENDIX B: *SOIL CLASSIFICATION OF CANADA*



Soil Order Map of Canada



Soil Order Map of Canada

- Brunisolic
- Chernozemic
- Cryosolic
- Gleysolic
- Luvisolic
- Organic
- Podzolic
- Regosolic
- Solonetzic
- Vertisolic
- Unclassified



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About

These national scale thematic maps display the distribution and areal extent of soil attributes such as drainage, texture of parent material, kind of material, and classification of soils in terms of Soil Order and Great Group. The relief and associated slopes of the Canadian landscape are depicted on the local surface form thematic map.

The majority of these maps were derived from Soil Landscapes of Canada information. For more information on the Soil Landscapes of Canada, please visit: <http://sis.agr.gc.ca/cansis/nsdb/slc/intro.html>.

Copyright

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Data Sources and Acknowledgements

- © 2010 Agriculture and Agri-Food Canada. All rights reserved.
 - Soils Landscapes of Canada v2.2
 - Soils Landscapes of Canada v3.1
 - Soil Landscapes of Canada – Agricultural Extent v3.0
- Ecological Stratification Working Group. 1995. A National Ecological Framework for Canada. Report and national map at 1:7,500,000 scale. Ottawa: Agriculture and Agri-Food Canada, Research Branch, Centre for Land and Biological Resources Research; and Hull: Environment Canada, State of the Environment Directorate, Ecozone Analysis Branch.
- © 2007 Department of Natural Resources Canada. All rights reserved.
 - Atlas of Canada 1:1,000,000 National Frameworks Data
 - Administrative Boundaries
 - Roads
 - Rivers
 - Lakes
 - Islands
 - Populated Places
 - North American Atlas - Political Boundaries
- Bathymetric Data Reproduced from the GEBCO Digital Atlas published by the British Oceanographic Data Centre on behalf of IOC and IHO, 2003.

Disclaimer

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APPENDIX C: *ACIMS SEARCH DATA*

Date: 11/5/2020

Requestor: Consultant

Reason for Request: Site Assessment

SEC: 17 TWP: 039 RGE: 02 MER: 4



■ Non-sensitive EOs (updated: October 2017)

M_RR_TTT_SS	EO_ID	ECODE	S_RANK	SNAME	SCOMNAME	LAST_OBS_D
-------------	-------	-------	--------	-------	----------	------------

No Non-sensitive EOs Found: Next Steps - See FAQ (<https://www.albertaparks.ca/albertaparksca/management-land-use/alberta-conservation-information-management-system-acims/faqs.aspx#2> - Process).

■ Sensitive EOs (updated: October 2017)

M-RR-TTT	EO_ID	ECODE	S_RANK	SNAME	SCOMNAME	LAST_OBS_D
----------	-------	-------	--------	-------	----------	------------

No Sensitive EOs Found: Next Steps - See FAQ (<https://www.albertaparks.ca/albertaparksca/management-land-use/alberta-conservation-information-management-system-acims/faqs.aspx#2> - Process).

■ Protected Areas (updated: October 2017)

M-RR-TTT-SS	PROTECTED_AREA_NAME	TYPE	IUCN
-------------	---------------------	------	------

No Protected Areas Found

■ Crown Reservations/Notations (updated: October 2017)

M-RR-TTT-SS	NAME	TYPE
-------------	------	------

No Crown Reservations/Notations Found

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APPENDIX D: WATER WELL SURVEY



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 182990
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1980/04/29

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial
Owner Name PROVOST, TOWN OF		Address PROVOST		Town		Province		Country		Postal Code
Location	<i>1/4 or LSD</i> NE	<i>SEC</i> 17	<i>TWP</i> 39	<i>RGE</i> 2	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>	
Measured from Boundary of _____ ft from _____ _____ ft from _____					GPS Coordinates in Decimal Degrees (NAD 83) Latitude <u>52.357545</u> Longitude <u>-110.250905</u> How Location Obtained Not Verified			Elevation _____ ft How Elevation Obtained Not Obtained		

Drilling Information	
Method of Drilling Drilled	Type of Work Chemistry
Proposed Well Use Municipal	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	

Yield Test Summary			Measurement in Imperial
<i>Recommended Pump Rate</i> <u>0.00 igpm</u>			
<i>Test Date</i>	<i>Water Removal Rate (igpm)</i>	<i>Static Water Level (ft)</i>	
1980/04/23		65.00	

Well Completion				Measurement in Imperial
<i>Total Depth Drilled</i>	<i>Finished Well Depth</i>	<i>Start Date</i>	<i>End Date</i>	
135.00 ft				
Borehole				
<i>Diameter (in)</i>	<i>From (ft)</i>	<i>To (ft)</i>		
0.00	0.00	135.00		
Surface Casing (if applicable)		Well Casing/Liner		
<i>Size OD :</i> <u>0.00 in</u>		<i>Size OD :</i> <u>0.00 in</u>		
<i>Wall Thickness :</i> <u>0.000 in</u>		<i>Wall Thickness :</i> <u>0.000 in</u>		
<i>Bottom at :</i> <u>0.00 ft</u>		<i>Top at :</i> <u>0.00 ft</u>		
		<i>Bottom at :</i> <u>0.00 ft</u>		
Perforations				
<i>From (ft)</i>	<i>To (ft)</i>	<i>Diameter or Slot Width(in)</i>	<i>Slot Length (in)</i>	<i>Hole or Slot Interval(in)</i>
<i>Perforated by</i>				
Annular Seal				
<i>Placed from</i> <u>0.00 ft</u> <i>to</i> <u>0.00 ft</u>				
<i>Amount</i> _____				
<i>Other Seals</i>				
<i>Type</i>		<i>At (ft)</i>		
Screen Type				
<i>Size OD :</i> <u>0.00 in</u>				
<i>From (ft)</i>	<i>To (ft)</i>	<i>Slot Size (in)</i>		
<i>Attachment</i> _____				
<i>Top Fittings</i> _____		<i>Bottom Fittings</i> _____		
Pack				
<i>Type</i> _____		<i>Grain Size</i> _____		
<i>Amount</i> <u>0.00</u>				

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> UNKNOWN DRILLER	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 182990
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1980/04/29

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name PROVOST, TOWN OF		Address PROVOST			Town		Province		Country		Postal Code
Location	<i>1/4 or LSD</i> NE	<i>SEC</i> 17	<i>TWP</i> 39	<i>RGE</i> 2	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
Measured from Boundary of _____ ft from _____ _____ ft from _____				GPS Coordinates in Decimal Degrees (NAD 83) Latitude <u>52.357545</u> Longitude <u>-110.250905</u> How Location Obtained Not Verified				Elevation _____ ft How Elevation Obtained Not Obtained			

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in					Is Artesian Flow _____						Is Flow Control Installed _____
Rate _____ igpm					Describe _____						
Recommended Pump Rate _____ 0.00 igpm					Pump Installed _____		Depth _____ ft				
Recommended Pump Intake Depth (From TOC) _____ 0.00 ft					Type _____		Make _____		H.P. _____		Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft		Well Disinfected Upon Completion _____				
Gas _____					Depth _____ ft		Geophysical Log Taken _____ Submitted to ESRD _____				
Additional Comments on Well _____					Sample Collected for Potability _____			Submitted to ESRD <u>Yes</u>			

Yield Test				Taken From Ground Level	Measurement in Imperial	
Test Date	Start Time	Static Water Level		Depth to water level		
1980/04/23	12:00 AM	65.00 ft				
				Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
Method of Water Removal						
Type _____						
Removal Rate _____ igpm						
Depth Withdrawn From _____ 0.00 ft						
If water removal period was < 2 hours, explain why _____						

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 183053
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name HUSKY OIL CAN LTD		Address SERVICE STATION, PROVOST			Town		Province AB		Country CA		Postal Code
Location	<i>1/4 or LSD</i> NE	<i>SEC</i> 17	<i>TWP</i> 39	<i>RGE</i> 2	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ ft from _____					Latitude <u>52.357545</u>		Longitude <u>-110.250905</u>		Elevation <u>2200.00</u> ft		
_____ ft from _____					How Location Obtained					How Elevation Obtained	
					Map					Estimated	

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Industrial	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	
2.00		Topsoil	
70.00		Brown Till	
138.00		Gray Till	
140.00		Gray Rocks	
169.00		Gray Shale	
172.00		Gray Rocks	
186.00		Gray Shale	
188.00		Gray Sandy Shale	
209.00		Gray Shale	
217.00		Gray Sand & Sandstone	

Yield Test Summary			Measurement in Imperial
<i>Recommended Pump Rate</i> <u>0.00</u> igpm			
<i>Test Date</i>	<i>Water Removal Rate (igpm)</i>	<i>Static Water Level (ft)</i>	
1966/06/07	9.00	93.00	

Well Completion				Measurement in Imperial
<i>Total Depth Drilled</i>	<i>Finished Well Depth</i>	<i>Start Date</i>	<i>End Date</i>	
217.00 ft			1966/06/07	
Borehole				
<i>Diameter (in)</i>	<i>From (ft)</i>	<i>To (ft)</i>		
0.00	0.00	217.00		
Surface Casing (if applicable)		Well Casing/Liner		
Steel		Unknown		
<i>Size OD :</i> <u>0.00</u> in		<i>Size OD :</i> <u>0.00</u> in		
<i>Wall Thickness :</i> <u>0.000</u> in		<i>Wall Thickness :</i> <u>0.000</u> in		
<i>Bottom at :</i> <u>210.00</u> ft		<i>Top at :</i> <u>0.00</u> ft		
<i>Bottom at :</i> <u>0.00</u> ft				
Perforations				
<i>From (ft)</i>	<i>To (ft)</i>	<i>Diameter or Slot Width (in)</i>	<i>Slot Length (in)</i>	<i>Hole or Slot Interval (in)</i>
<i>Perforated by</i> Unknown				
Annular Seal Unknown				
<i>Placed from</i> <u>0.00</u> ft to <u>0.00</u> ft				
<i>Amount</i> _____				
Other Seals				
<i>Type</i>		<i>At (ft)</i>		
Screen Type Stainless Steel				
<i>Size OD :</i> <u>0.00</u> in				
<i>From (ft)</i>	<i>To (ft)</i>	<i>Slot Size (in)</i>		
211.00	216.00	0.015		
<i>Attachment</i> <u>Attached To Casing</u>				
<i>Top Fittings</i> <u>Coupler</u>		<i>Bottom Fittings</i> <u>Washdown</u>		
Pack				
<i>Type</i> <u>Natural</u>		<i>Grain Size</i> _____		
<i>Amount</i> <u>0.00</u> Unknown				

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> MCALLISTER DRILLING LTD.	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 183053
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial
Owner Name HUSKY OIL CAN LTD		Address SERVICE STATION, PROVOST			Town		Province AB		Country CA	Postal Code
Location	1/4 or LSD NE	SEC 17	TWP 39	RGE 2	W of MER 4	Lot	Block	Plan	Additional Description	
Measured from Boundary of _____ ft from _____ _____ ft from _____					GPS Coordinates in Decimal Degrees (NAD 83) Latitude <u>52.357545</u> Longitude <u>-110.250905</u>			Elevation <u>2200.00</u> ft		How Elevation Obtained Estimated
					How Location Obtained Map					

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in					Is Flow Control Installed _____						
Is Artesian Flow _____					Describe _____						
Rate _____ igpm											
Recommended Pump Rate _____ 0.00 igpm					Pump Installed Yes _____		Depth _____ ft				
Recommended Pump Intake Depth (From TOC) _____ 150.00 ft					Type BARREL		Make 2" GAL.		H.P. _____		
					Model (Output Rating) _____						
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft		Well Disinfected Upon Completion _____				
Gas _____					Depth _____ ft		Geophysical Log Taken _____				
					Submitted to ESRD _____						
Additional Comments on Well DRILLER COMMENTS: SOFT, CLEAR WATER. RECLAIMED ON WELL REPORT # 1501028					Sample Collected for Potability _____					Submitted to ESRD _____	

Yield Test			Taken From Ground Level	Measurement in Imperial																		
			Depth to water level																			
Test Date 1966/06/07	Start Time 12:00 AM	Static Water Level 93.00 ft																				
Method of Water Removal																						
Type Bailer																						
Removal Rate 9.00 igpm																						
Depth Withdrawn From 0.00 ft																						
If water removal period was < 2 hours, explain why																						
			<table border="1"> <thead> <tr> <th>Pumping (ft)</th> <th>Elapsed Time Minutes:Sec</th> <th>Recovery (ft)</th> </tr> </thead> <tbody> <tr> <td>93.00</td> <td>0:00</td> <td></td> </tr> <tr> <td></td> <td>1:00</td> <td>173.00</td> </tr> <tr> <td></td> <td>2:00</td> <td>162.20</td> </tr> <tr> <td></td> <td>3:00</td> <td>153.00</td> </tr> <tr> <td></td> <td>4:00</td> <td>146.40</td> </tr> </tbody> </table>		Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)	93.00	0:00			1:00	173.00		2:00	162.20		3:00	153.00		4:00	146.40
Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)																				
93.00	0:00																					
	1:00	173.00																				
	2:00	162.20																				
	3:00	153.00																				
	4:00	146.40																				

Water Diverted for Drilling		
Water Source	Amount Taken ig	Diversion Date & Time

Contractor Certification	
Name of Journeymen responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name MCALLISTER DRILLING LTD.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1501028
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name HUSKY OIL CAN LTD		Address			Town PROVOST		Province AB	Country CA	Postal Code		
Location	1/4 or LSD NE	SEC 17	TWP 39	RGE 2	W of MER 4	Lot	Block	Plan	Additional Description SERVICE STATION		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ ft from _____					Latitude <u>52.357600</u>		Longitude <u>-110.251000</u>		Elevation _____ ft		
_____ ft from _____					How Location Obtained Not Verified					How Elevation Obtained Not Obtained	

Drilling Information			
Method of Drilling Unknown		Type of Work Existing Well-Decommissioned	
Proposed Well Use Unknown		Plugged	<u>2005/07/21</u>
		Plugged with	<u>Bentonite Product</u>
		Amount	_____

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate _____		igpm	
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
217.00 ft				
Borehole				
Diameter (in)	From (ft)	To (ft)		
Surface Casing (if applicable)		Well Casing/Liner		
Steel	Unknown			
Size OD : <u>4.50</u> in	Size OD : _____ in			
Wall Thickness : _____ in	Wall Thickness : _____ in			
Bottom at : <u>210.00</u> ft	Top at : _____ ft			
	Bottom at : _____ ft			
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Perforated by Unknown				
Annular Seal Bentonite Chips/Tablets				
Placed from <u>0.00</u> ft to <u>217.00</u> ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type				
Size OD : _____ in				
From (ft)	To (ft)	Slot Size (in)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type <u>Unknown</u>		Grain Size _____		
Amount _____		Unknown		

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well LESLIE MCALLISTER	Certification No 37433A
Company Name MCALLISTER DRILLING INC.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1501028
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name HUSKY OIL CAN LTD		Address			Town PROVOST		Province AB	Country CA	Postal Code		
Location	1/4 or LSD NE	SEC 17	TWP 39	RGE 2	W of MER 4	Lot	Block	Plan	Additional Description SERVICE STATION		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ ft from _____					Latitude <u>52.357600</u>		Longitude <u>-110.251000</u>		Elevation _____ ft		
_____ ft from _____					How Location Obtained Not Verified					How Elevation Obtained Not Obtained	

Additional Information										Measurement in Imperial
Distance From Top of Casing to Ground Level _____ in										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ igpm					Describe _____					
Recommended Pump Rate _____ igpm					Pump Installed _____		Depth _____ ft			
Recommended Pump Intake Depth (From TOC) _____ ft					Type _____	Make _____	H.P. _____		Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft		Well Disinfected Upon Completion _____			
Gas _____					Depth _____ ft		Geophysical Log Taken _____			
					Submitted to ESRD _____					
Additional Comments on Well					Sample Collected for Potability _____		Submitted to ESRD _____			
OLD WELL ID # 0183053 PUMP WAS PULLED AND WELL WAS CHLORINATED AND ABANDONED WITH CHIPS, SEALED TO SURFACE.										

Yield Test			Taken From Ground Level	Measurement in Imperial
Test Date	Start Time	Static Water Level		
		ft		
Method of Water Removal				
Type _____				
Removal Rate _____ igpm				
Depth Withdrawn From _____ ft				
If water removal period was < 2 hours, explain why				

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well LESLIE MCALLISTER	Certification No 37433A
Company Name MCALLISTER DRILLING INC.	Copy of Well report provided to owner Date approval holder signed

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APPENDIX E: *ENVIRONMENTAL PROTECTION ORDERS*

ENVIRONMENTAL LAW CENTRE

#410, 10115 - 100A Street, Edmonton, AB T5J 2W2

Phone: (780) 424-5099 Fax: (780) 424-5133

Internet: www.elc.ab.ca E-Mail: elc@elc.ab.ca

May 11, 2020

Our File: 130326

Mr. Trent Thompson
Bolson Engineering
21707-80 Avenue
Edmonton, AB T5T 4S2

Dear Mr. Thompson:

RE: Search Requested - Drew McDonald Holdings Ltd.

In response to your request of May 11, 2020, we have searched the Environmental Enforcement Historical Search Service database for an exact match with respect to the above request, and can advise that as of today's date, there have been NO enforcement actions issued by Alberta Environment and Parks (AEP) pursuant to the Alberta "Environmental Protection and Enhancement Act" ("EPEA") and its predecessor legislation, the "Hazardous Chemicals Act", "Agricultural Chemicals Act", "Clean Water Act" and "Clean Air Act" to 1971, and/or pursuant to the "Water Act" from 1999 onwards.

This search is limited to the following enforcement actions under EPEA and its predecessor legislation: Tickets, Prosecutions, Administrative Penalties, Warnings, Enforcement Orders, Enforcement Orders Concerning Waste, Environmental Protection Orders, Emergency Environmental Protection Orders, Emission Control Orders, Chemical Control Orders, Water Quality Control Orders and Stop Orders. This search is limited to the following enforcement actions under the Water Act: Prosecutions, Administrative Penalties, Water Management Orders, Warnings and Enforcement Orders. It does not include Clean Up Orders issued under the Litter Act or Environmental Protection Orders respecting unsightly property issued under EPEA; this information may be available from the local municipality.

Enforcement actions are entered in the database following: (1) the decision date, for prosecutions; (2) the date an administrative penalty was paid or due (30 days after issuance), whichever is sooner; and (3) the date the document was issued for all other enforcement actions.

These search results are based on information provided by AEP. AEP advises that they try to provide the best information possible. However, AEP advises that it cannot guarantee that the information provided is complete or accurate and that any person relying on these search results does so at their own risk. More information may be gained by referring to original enforcement documents. Alberta Energy Regulator (AER) enforcement actions are not included (see the AER Public Compliance dashboard database).

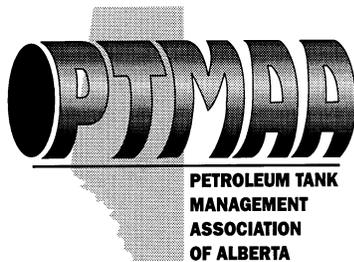
Copies of orders are available from the Environmental Law Centre. Any other enforcement information may be available directly from Alberta Environment.

Yours sincerely,



Cindy Dewing
Enforcement Search Service
Encl.

APPENDIX F: *PTMAA SEARCH*



Petroleum Tank Management
Association of Alberta

Suite 980, 10303 Jasper Avenue
Edmonton, Alberta T5J 3N6
PH: (780)425-8265 or 1-866-222-8265
FAX: (780)425-4722

May 12, 2020

Trent Thompson
Bolson Engineering
21707-80 Avenue
Edmonton, AB T5T 4S2

Dear Trent Thompson:

As per your request, the PTMAA has checked the registration of active tank sites and inventory of abandoned tank sites and there are no records for the property with the legal land description:

25-Wheatland Crescent, Provost
Plan 8021020, block 46, lot 4

Please note that both databases are not complete. The main limitation of these databases is that they only include information reported through registration or a survey of abandoned sites completed in 1992 and should not be considered as a comprehensive inventory of all past or present storage tank sites. The PTMAA **cannot** guarantee that tanks do not or have not existed at this location. Information in the databases is based on information supplied by the owner and the PTMAA cannot guarantee its accuracy. Information on storage tanks or on past or present contaminant investigations may be filed with the local Fire Department or Alberta Environment.

Yours truly,

Jess Bolwerk
Compliance Officer
Petroleum Tank Management Association of Alberta (PTMAA)

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APPENDIX G: ABADATA SEARCH

Save Map

Switch | Load Maps (3) ▼

Account | Feedback | Support | Logout

Find

Section Township Range Meridian Zoom Options

Timeout in

- Tools
- Select
- Pan
- Measure
- Zoom In
- Zoom Out
- Zoom To
- Find Nearest
- Get Directions
- Road Map
- Print Coords
- Location Select
- Risk Analysis
- Objects
- Custom Lists
- Buffer
- Drawing





Well Information

100 / 12-16-039-02 W4 / 0

SURGE ENERGY INC. | 100 / 12-16-039-02 W4 / 0

Government Well Data Current To April 1, 2020

License #:	0448681	License Date:	September 25, 2012
Well Name:	SURGE ENERGY HZ PROVOST 12-16-39-2		
License Status:	Amended	License Status Date:	June 12, 2013
Within:	03-21-039-02 W4M	H2S (%):	0.000
Spud Date:	October 12, 2012	Final Drill Date:	October 17, 2012
Status:	CR-OIL PUMP	Abandoned Date:	
Surface:		Downhole:	
Offsets:	N 166.7 E 465.9	Offsets:	S 751.2 E 69.2
Latitude:	52.362668	Latitude:	52.354415
Longitude:	-110.237869	Longitude:	-110.243684
Ground Elevation:	670.7 m 2200 '	Total Depth:	1699.00 m 5574 '
Operator:	SURGE ENERGY INC.		



Well Information

100 / 11-16-039-02 W4 / 0

HUSKY OIL OPERATIONS LIMITED | 100 / 11-16-039-02 W4 / 0

Government Well Data Current To April 1, 2020

License #:	0124703	License Date:	December 1, 1986
Well Name:	RENAISSANCE PROVOST 11C-16-39-2		
License Status:	RecCertified	License Status Date:	April 28, 2008
Within:	11-16-039-02 W4M	H2S (%):	0.000
Spud Date:	December 16, 1986	Final Drill Date:	December 19, 1986
Status:	CR-OIL ABD	Abandoned Date:	May 15, 1996
Surface:		Downhole:	
Offsets:	S 422 E 501	Offsets:	S 422 E 501
Latitude:	52.357382	Latitude:	52.357382
Longitude:	-110.237351	Longitude:	-110.237351
Ground Elevation:	664.5 m 2180 '	Total Depth:	845.00 m 2772 '
Operator:	n/a		



Well Information

100 / 01-17-039-02 W4 / 0

SURGE ENERGY INC. | 100 / 01-17-039-02 W4 / 0

Government Well Data Current To April 1, 2020

License #:	0462705	License Date:	December 19, 2013
Well Name:	SURGE ENERGY HZ PROVOST 1-17-39-2		
License Status:	Amended	License Status Date:	June 18, 2014
Within:	08-20-039-02 W4M	H2S (%):	0.000
Spud Date:	June 14, 2014	Final Drill Date:	June 21, 2014
Status:	CR-OIL PUMP	Abandoned Date:	
Surface:		Downhole:	
Offsets:	N 460 W 200	Offsets:	N 109.1 W 301.6
Latitude:	52.365301	Latitude:	52.347700
Longitude:	-110.247925	Longitude:	-110.249415
Ground Elevation:	675.3 m 2216 '	Total Depth:	2480.00 m 8136 '
Operator:	SURGE ENERGY INC.		

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APPENDIX H: *ESAR SEARCH*

GIBSON PETROLEUM COMPANY LIMITED

1900, 605 - 5th AVENUE S.W.

CALGARY, ALBERTA, CANADA T2P 3H5

TELEPHONE (403) 298-9300

FAX (403) 262-8038



January 8, 1998

Ms. Kathy Ronald
Alberta Energy and Utilities Board
801 - 2nd Avenue
Wainwright, Alberta
T9W 1C4

Dear Ms. Ronald:

Re: ENV Spill Records Update

To follow up our conversation in regards to the updating of the ENV database, I obtained a download of the database from your Calgary office. I subsequently sorted out all records, for Gibson Petroleum Company Limited (0195) that were not recorded as complete (clean up or rehab), and forwarded the list to our field personnel for clarification of the status of the incidents. The following is a list of the records and their current status:

Location	EUB Code	Cleanup Complete (Yes / No)	Rehab Complete (Yes / No)
14-10-014-18W4	19950013	Y	Y
12-33-018-21W4	19930614	Y	Y
04-17-020-20W4	19961186	Y	Y
03-15-024-22W4	19952795	Y	Y
13-16-038-01W4	19941384	Y	Y
08-23-038-16W4	19961255	Y	Y
13-17-039-02W4	19961055	Y	Y
10-14-039-03W4	19970687	Y	Y
01-08-039-08W4	19960051	Y	Y
14-30-040-01W4	19940017	Y	Y
08-12-040-13W4	19943167	Y	Y
04-29-042-09W4	19960692	Y	Y

15-35-042-10W4	19972356	Y	Y
01-09-046-09W4	19962543	Y	Y
16-08-020-02W5	19961477	Y	Y
03-07-057-07W5	19943321	Y	Y
01-36-014-18W4	19790636	Y	Y
14-16-012-23W4	19810543	Y	Y
08-17-039-02W4	19810829	Y	Y
10-09-015-19W4	19820082	Y	Y
07-02-089-11W4	19891113	Y	Y
05-34-039-04W4	19931172	Y	Y
01-36-039-05W4	19921614	Y	Y
02-02-041-07W4	19930502	Y	Y

Please give me a call at (403) 213-5461 should you have any questions, comments or concerns.

Yours truly,
GIBSON PETROLEUM COMPANY LIMITED

**BEST COPY
AVAILABLE**



**Graham Thomas, P. Ag.
Environmental Technician**

APPENDIX I: *LAND TITLE SURVEY*



LAND TITLE CERTIFICATE

S
LINC SHORT LEGAL TITLE NUMBER
0012 310 694 8021020;46;4 882 070 385

LEGAL DESCRIPTION
PLAN 8021020
BLOCK 46
LOT 4
EXCEPTING THEREOUT ALL MINES AND MINERALS

ESTATE: FEE SIMPLE
ATS REFERENCE: 4;2;39;17;NE

MUNICIPALITY: TOWN OF PROVOST

REGISTERED OWNER(S)					
REGISTRATION	DATE (DMY)	DOCUMENT	TYPE	VALUE	CONSIDERATION
882 070 385	07/04/1988				\$135,000

OWNERS

DREW MCDONALD HOLDINGS LTD.
OF PROVOST
ALBERTA T0B 3S0
(DATA UPDATED BY: CHANGE OF NAME 912132269)

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION	DATE (D/M/Y)	PARTICULARS
NUMBER		
102 121 856	15/04/2010	CAVEAT RE : LEASE INTEREST CAVEATOR - TRICAN WELL SERVICE LTD. 2900, 645-7 AVE SW CALGARY ALBERTA T2P4G8 AGENT - ANNETTE J M LAMBERT

TOTAL INSTRUMENTS: 001

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN
ACCURATE REPRODUCTION OF THE CERTIFICATE OF
TITLE REPRESENTED HEREIN THIS 23 DAY OF APRIL,
2018 AT 01:45 P.M.

ORDER NUMBER: 34957341

CUSTOMER FILE NUMBER:



END OF CERTIFICATE

THIS ELECTRONICALLY TRANSMITTED LAND TITLES PRODUCT IS INTENDED
FOR THE SOLE USE OF THE ORIGINAL PURCHASER, AND NONE OTHER,
SUBJECT TO WHAT IS SET OUT IN THE PARAGRAPH BELOW.

THE ABOVE PROVISIONS DO NOT PROHIBIT THE ORIGINAL PURCHASER FROM
INCLUDING THIS UNMODIFIED PRODUCT IN ANY REPORT, OPINION,
APPRAISAL OR OTHER ADVICE PREPARED BY THE ORIGINAL PURCHASER AS
PART OF THE ORIGINAL PURCHASER APPLYING PROFESSIONAL, CONSULTING
OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).