

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared For:
K&C Oilfield Hauling Ltd.

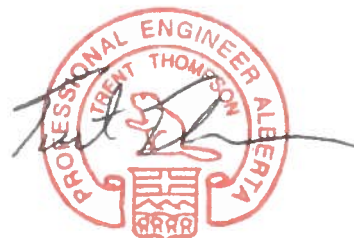
Property Description:
Lot 9, Block 1, Plan 082 6486
Lot 6, Block 1, Plan 852 1590
Vermilion River, AB

Project Number:
110-1820



Prepared By:

Rev.	Date	Description
0	23-July-18	Issued for Client Use
B	21-July-18	Issued for Client Review
A	21-July-18	Issued for Internal Review



LETTER OF TRANSMITTAL

July 23rd, 2018

K&C Oilfield Hauling Ltd.
608-19th Avenue
Nisku, AB
T9E 7W1

Attn: Carrie Hames (hampay@telus.net)

**RE: Phase I Environmental Site Assessment
Lot 9, Block 1, Plan 082 6484 and
Lot 6, Block 1, Plan 852 1590, Vermilion River, AB**

Please find attached the Phase I Environmental Site Assessment for the above-mentioned property. The Phase I ESA report was completed using a visual non-intrusive inspection of the subject parcel and neighboring properties, historical title searches, and air photo reviews. The findings of this report were supplemented with various searches, including but not limited to: Environmental Protection Order Searches, Water Well Searches, ESAR Searches, and ACIMS Search Data.

The report itself conforms to the Canadian Standards Association (CSA) Phase I Environmental Site Assessment Criteria as outlined in the CSA document Z768-01.

The opinions outlined in this report are solely those of Bolson Engineering and Environmental Services Ltd. and do not necessarily reflect the viewpoint of the Client (K&C Oilfield Hauling Ltd). This report is written for the benefit and use of the Client and his/her financial institutions only and 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 makes no guarantees or warranties whatsoever with respect to such data.

If you have any questions or concerns, please contact the undersigned.

Sincerely,



Trent Thompson, P.Eng.

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Table of Contents

1. EXECUTIVE SUMMARY	2
2. INTRODUCTION	3
2.1 Purpose and Scope of Services	3
2.2 Assumptions, Exceptions and Limitations	3
2.3 User Reliance	3
3. SITE DESCRIPTION	4
4. SITE ASSESSMENT	5
4.1 Site Visit Findings	5
4.2 Property	8
4.3 On-Site Buildings and Structures	8
4.4 Past Uses of the Site	8
5. RECORDS REVIEW	9
5.1 Development History and Land Title Search of the Property	9
5.2 Air Photo Review	10
5.3 Environmental Protection Orders	10
5.4 PTMAA Search	10
5.5 Water Well Survey	10
5.6 ESAR Search	10
5.7 Abadata Search	11
6. NEARBY PROPERTIES AND LAND USE	11
7. FINDINGS AND RECOMMENDATIONS	12
8. SITE ASSESSOR QUALIFICATIONS	13
9. REFERENCES	14

APPENDIX A – MAPS/SKETCHES/FIGURES

APPENDIX B – SOIL CLASSIFICATION OF CANADA

APPENDIX C – ACIMS SEARCH DATA

APPENDIX D – WATER WELL SURVEY

APPENDIX E – ENVIRONMENTAL PROTECTION ORDERS

APPENDIX F – PTMAA SEARCH

APPENDIX G – ESAR SEARCH

APPENDIX H – ABADATA SEARCH

APPENDIX I – LAND TITLE SURVEY

1. EXECUTIVE SUMMARY

Bolson Engineering and Environmental Services was retained by Carrie Hames of K&C Oilfield Hauling Ltd. to complete a Phase I Environmental Site Assessment (ESA) of the properties located at Lot 9, Block 1, Plan 082 6486 and Lot 6, Block 1, Plan 852 1590 in Vermilion River, AB. The total area of the site is approximately 3.18 Ha (7.85 Acres) in size and there is a two storey 11,00 ft² commercial building situated on it that consists of a front office area and rear shop and mezzanine. There is asphalt parking at the front and gravel storage yard with a firewater pond on the rest of the site.

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 liabilities 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 (K&C Oilfield Hauling 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

K&C Oilfield Hauling Ltd. has engaged Bolson Engineering and Environmental Services to perform a Phase I Environmental Site Assessment of the properties located at Lot 9, Block 1, Plan 082 6486 and Lot 6, Block 1, Plan 852 1590 in Vermilion River, AB, hereby known as “the subject property” in this report. A site reconnaissance took place on July 17th, 2018 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 property. 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 K&C Oilfield Hauling 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 properties are located directly west of Lloydminster along Production Avenue. During the site assessment, a two storey commercial building was located on the site with a large gravel fenced storage yard that was accessed from Production Avenue. K&C Oilfield Hauling Ltd. currently operates out of the subject property.

The topography of the site and surrounding area is fairly flat due to the fact that the entire area is developed. Drainage is overland to the Production Avenue or to the firewater pond at the rear (north) side of the site. There are no major water bodies in the vicinity of the subject property.

The geology of the overall area consists primarily of sand and clay till deposits overlying the bedrock of the Wapiti Formation (Edmonton Geological Society, 1993). The soil itself falls into the Chernozemic Classification (Soil Classification of Canada, 2016) which is a black-colored soil containing a high percentage of humus (7-15%), 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 Lloydminster 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 Lloydminster 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 southeast and would produce estimated yields of 20-25 gpm for well water as per information found in the Hydrogeological Map of the Lloydminster Area.

The average temperature for the area was found to be 14.0°C for the May-September period. The average total precipitation for this period is 353mm and the average annual total precipitation is 479mm (Citystats.ca, 2017).

A search was conducted using the Alberta Conservation Information Management System (Alberta Tourism, Parks and Recreation, 2018) to identify any sensitive or protected environmental areas. The search resulted in no findings of sensitive or protected environmental areas for this location or neighboring areas. 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 this Phase I Environmental Site Assessment.

4.1 Site Visit Findings

A site visit was completed on July 17th, 2018 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 noted on the subject property. It was currently not in use and appeared to be in good working condition with no signs of leaks or contamination.
- 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 an existing tow storey 11,000 ft² commercial building on the site. This building is discussed in greater detail in Section 4.3.
- Discolored Soils/Stressed Vegetation
During the site visit no discolored soils or stressed vegetation was noted.
- Stained Surfaces
Some minor stained surfaces on the concrete aprons and a small section along the northwest corner of the building were observed. These stained areas appeared to be surficial in nature and are recommended to be cleaned up as required. Penetration of the contamination into the subsurface was not observed.
- Drums and Other Containers
Several empty drums and containers were noted on the subject property. They were all clearly labeled with no signs of leaks or contamination.
- Dumping or Fill
No dumping or fill material was noted on the subject property other than the gravel that had been brought to site for the storage yard.
- Floor Drains
2 floor drains/sumps were observed in the shop warehouse area. These drains collected material from inside the building and are drained to an outside tank that is emptied and disposed of as required.

- Odors
No strong, pungent or noxious odors were noted during the site visit. 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
No petroleum products being stored on site were observed at the subject property.
- Pits, Ponds or Lagoons
A large firewater pond was observed along the north edge of the property.
- Potable Water Supply
Water is supplied from an onsite well system.
- Sewage Disposal System
Sewer service is supplied from an onsite septic tank system.
- 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 the typical vehicle exhaust release.
- Waste Water
Drainage on the subject property is overland to Production Avenue or to the onsite firewater pond. There appears to be sufficient drainage on the property, although around the building a newly installed drainage system was implemented to capture water from draining against the foundation as the gravel storage yard has been installed at a higher elevation than the foundation in some locations.

- Wells
Numerous water wells were noted in the vicinity of the property and are discussed in greater detail in Section 5.5.
- 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 in the late 1970's, it is possible that there may be UFFI materials within the building. 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. During the site review no indications of UFFI materials was noted.

- 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 the late 1970's, it is possible that there may be ACM's within the building. 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. During the site review no indications of ACM's was noted.

- 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 the late 1970's, it is possible that there may be lead based materials within the building. 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. During the site review no indications of Lead Based Material's was noted.

4.2 Property

The subject sites are Lot 9, Block 1, Plan 082 6486 and Lot 6, Block 1, Plan 852 1590 in Vermilion River, AB. The total area of the site is approximately 3.18 Ha (7.85 Acres) in size. The front of the property faces south to Production Avenue with a front paved parking area and large gravel storage yard. The entire parcel is fenced with a gate access to the yard from Production Avenue. Services to the site are provided by a water well, septic tank, and the local utility (gas/power) companies.

4.3 On-Site Buildings and Structures

The existing two storey commercial building consists of approximately 11,000 ft² of main floor space that is divided into a front office area and rear shop/mezzanine. The free standing structure was constructed in or around the late 1970's and appears to be in very good condition. The concrete floor slabs are in good shape and do not exhibit any significant cracking that could lead to leaks or penetration to the subsurface below. No other permanent structures are present on the property. From the review of the building and its exposed components, there does not appear to be any concerns of environmental contamination.

4.4 Past Uses of the Site

It appears that since the development of the building in or around the late 1970's the site has remained relatively unchanged. Prior to this, the property was used for agricultural purposes.

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. Historical ownership of the sites to 1961 are summarized in Table 5.1.1 and 5.1.2: Land Title Summary.

**TABLE 5.1.1: LAND TITLE SURVEY SUMMARY
(LOT 6/BLOCK 1/PLAN 852 1590)**

FROM	TO	OWNER
2013	PRESENT	INFINI FAMIGLIA INC
2002	2013	K&C OILFIELD HAULING LTD.
1999	2002	BERETTA ENTERPRISES (1994) LTD.
1985	1999	R.F.W. MANAGEMENT AND INVESTMENTS LTD.
1961	1985	INDIVIDUALS

**TABLE 5.1.2: LAND TITLE SURVEY SUMMARY
(LOT 9/BLOCK 1/PLAN 082 6486)**

FROM	TO	OWNER
2013	PRESENT	INFINI FAMIGLIA INC
2011	2013	K&C OILFIELD HAULING LTD.
2006	2011	AR HOLDINGS LTD.
1985	2006	THE COUNTY OF VERMILION RIVER NO. 24
1961	1985	INDIVIDUALS

The subject properties are currently owned by Infini Famiglia Inc. A copy of the current titles are appended for reference in Appendix I: *Land Title Survey*. The historical ownership of the property indicates that various individuals, contractors, investment firms and the County of Vermilion River have owned the properties over the years. No previous owners that may pose an environmental concern were noted during the historical title certificate review.

5.2 Air Photo Review

An air photograph analysis was completed for the subject property with air photos from 1968 – 2017 being observed. Select air photos are included in Appendix A: *Maps/Sketches/Figures*.

Prior to 1972 the site was empty and undeveloped. In 1980 the building is observed on the property. Between 1980-2017 the surrounding areas were all developed. Lot 9 does not appear to have been gravel surfaced until after 2008. From the aerial photograph review, no potential environmental concerns were identified.

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 (McRad Real Estate Investments Ltd.). 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 5.7: 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 Water Well Survey

A review of the Water Well Drilling Report from the Government of Alberta listed numerous wells located in the vicinity of the subject property. The wells were all mainly drilled for domestic use and no oil or gas sources were found or identified in the well logs. See Appendix D: *Water Well Survey* for a summary of the search results and select water 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. A reclamation certificate for the property located at SW ¼ Sec., 4 50-1-W4M was found. No other information was discovered during the ESAR Search. Please refer to Appendix G: *ESAR Search* for a copy of the reclamation certificate.

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. 3 Well Sites were observed in the vicinity of the subject properties. One was abandoned in 2012, another has been suspended since 2009, and the final well site operated by Petrocapita GP I Ltd. is located a few hundred metres north of the subject property. There were no records of any spills or leaks regarding these well sites and field observations did not indicate any potential environmental contamination. The results of the AbaData Search are included in Appendix H: *AbaData Search*.

6. NEARBY PROPERTIES AND LAND USE

The subject property is located in a developed commercial area and is surrounded on all sides by the following:

South: Production Avenue

East: Truck Storage/Commercial Property

North: Agricultural Land

West: Coatings 2000 Ltd.

All of the neighbouring properties and streets appear to be well maintained and functioning as intended. At this time, it does not appear that there is any risk of contamination from neighbouring sites to the subject property.

7. FINDINGS AND RECOMMENDATIONS

After completion of a thorough review of the subject property, the following conclusions and recommendations would appear to be warranted:

1. We observed no evidence of significant surface staining or contamination of the site area that would warrant further assessment and/or testing of the sub base soils at this property. It is recommended that the noted stained area at the northwest exterior corner of the building be cleaned up and disposed of accordingly.
2. It is recommended that any empty drums, tanks, and waste materials that are currently situated on the property be removed and disposed of if possible to ensure no future environmental concerns arise.
3. 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.
4. 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.

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

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 July 16th, 2018.
www.agr.gc.ca, 2016

Alberta Geological Map, Accessed July 16th, 2018.
http://www.ags.gov.ab.ca/publications/MAP/PDF/MAP_143.PDF

Alberta Geological Survey – Geology of the Yellowhead Corridor, Accessed July 16th, 2018.
http://www.ags.gov.ab.ca/publications/MAP/PDF/MAP_234.PDF

Alberta TPR – ACIMS Data Search, Accessed July 16th, 2018.
<http://tpr.alberta.ca/parks/heritageinfocentre/datarequests/default.aspx>

Citystats.ca – Edmonton - Detail City Profile – Temperature and Precipitation Information
Accessed July 16th, 2018. <http://www.citystats.ca>

Google Maps – Edmonton, Accessed July 16th, 2018.
<http://maps.google.com/>

Spin II Database. Alberta Registries, Accessed July 16th, 2018.
<https://alta.registries.gov.ab.ca/spinii/logon.aspx>

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX A – MAPS/SKETCHES/FIGURES

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Client: K&C Oilfield Hauling Ltd.		Project No. 110-1820
Date: 2018-07-18	Title: Phase I Environmental Site Assessment Lot 9, Block 1, Plan 082 6486 Lot 6, Block 1, Plan 852 1590 Vermilion River, AB (Location Map)	Figure: 1

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Client:
K&C Oilfield Hauling Ltd.

Project No.
110-1820

Date:
2018-07-18

Title:
Phase I Environmental Site Assessment
Lot 9, Block 1, Plan 082 6486
Lot 6, Block 1, Plan 852 1590
Vermilion River, AB
(2016 Aerial Photo)

Figure:
2

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Client:
K&C Oilfield Hauling Ltd.

Project No.
110-1820

Date:
2018-07-18

Title:
Phase I Environmental Site Assessment
Lot 9, Block 1, Plan 082 6486
Lot 6, Block 1, Plan 852 1590
Vermilion River, AB
(2011 Aerial Photo)

Figure:
3

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Client:
K&C Oilfield Hauling Ltd.

Project No.
110-1820

Date:
2018-07-18

Title:
Phase I Environmental Site Assessment
Lot 9, Block 1, Plan 082 6486
Lot 6, Block 1, Plan 852 1590
Vermillion River, AB
(2008 Aerial Photo)

Figure:
4

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

Client:
K&C Oilfield Hauling Ltd.

Project No.
110-1820

Date:
2018-07-18

Title:
Phase I Environmental Site Assessment
Lot 9, Block 1, Plan 082 6486
Lot 6, Block 1, Plan 852 1590
Vermilion River, AB
(2004 Aerial Photo)

Figure:
5

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 6: LOOKING EAST FROM ENTRANCE



FIGURE 7: LOOKING NORTH ALONG WEST PROPERTY LINE

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 8: EXTERIOR AC UNIT



FIGURE 9: EAST BUILDING EXTERIOR

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 10: INTERIOR OFFICE

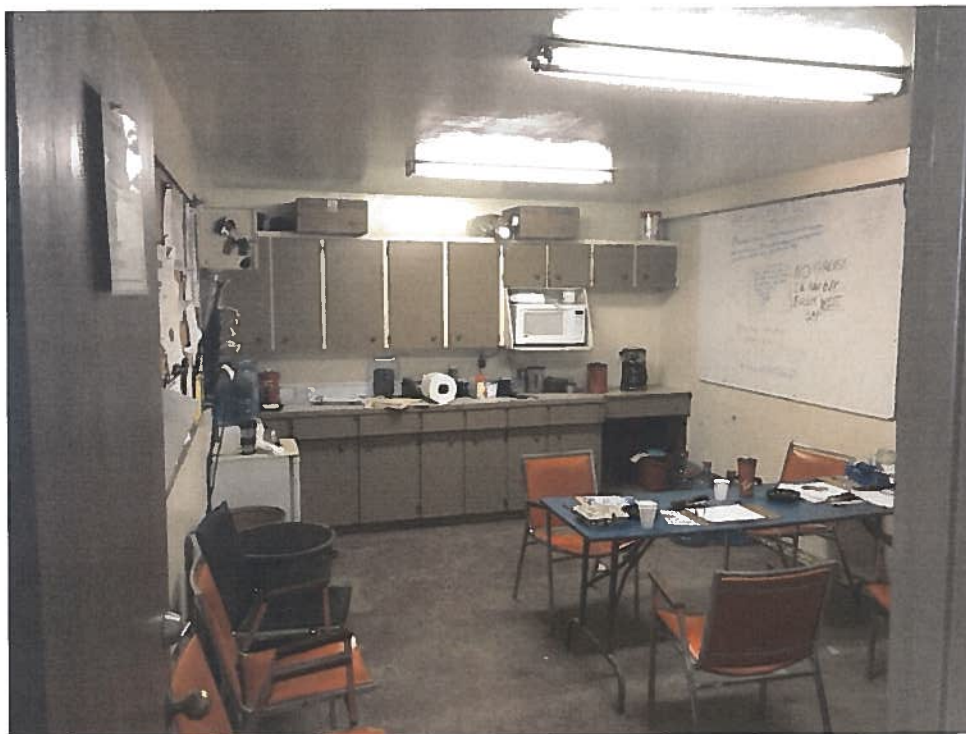


FIGURE 11: LUNCH ROOM

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 12: SUMP IN SHOP AREA



FIGURE 13: SHOP HEATING UNITS

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 14: SHOP MEZZANINE



FIGURE 15: SUMP IN SHOP AREA

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 16: MEZZANINE STORAGE



FIGURE 17: GRAVEL STORAGE YARD



FIGURE 18: SOLID WASTE DISPOSAL



FIGURE 19: SURFICIAL STAINING ALONG WEST BUILDING EXTERIOR

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES



FIGURE 20: EMPTY WASTE OIL TANK



FIGURE 21: MISCELLANEOUS STORAGE MATERIAL



FIGURE 22: BURN BARREL



FIGURE 23: MISCELLANEOUS STORAGE MATERIAL



FIGURE 24: GRAVEL STORAGE YARD



FIGURE 25: SECOND ACCESS TO GRAVEL YARD

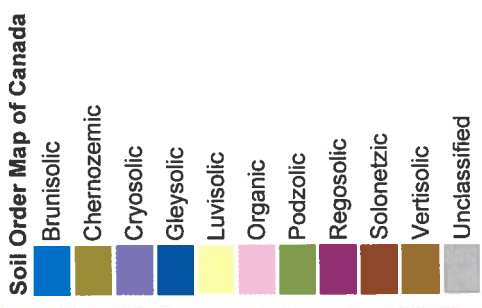
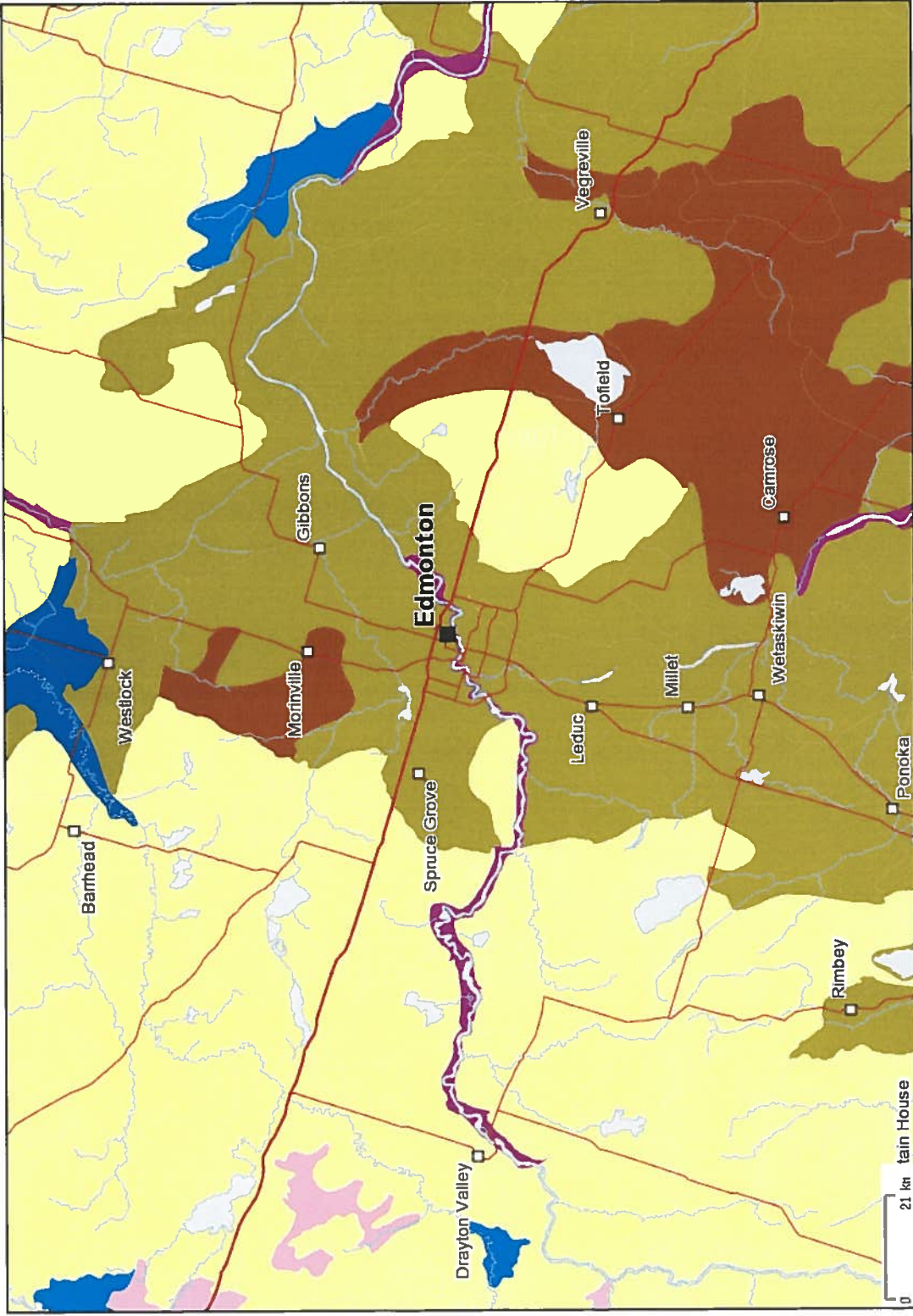
BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX B: SOIL CLASSIFICATION OF CANADA



Soil Order Map of Canada



0 21 km



© Her Majesty the Queen in Right of Canada 2014, Agriculture and Agri-Food Canada.

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

© Government of Canada (2010)

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

Users are advised that the Minister and Department of Agriculture and Agri-Food Canada (AAFC) make no assurance or warranty of any kind concerning the accuracy, completeness, reliability, or suitability or fitness for purpose of the information. Responsibility for any and all risks associated with the interpretation and any use or application of the data rests solely with the user. Users using this data do so upon the express understanding and agreement that AAFC and its Minister, officers, servants, employees, and agents shall not be liable for any damages or losses whatsoever, whether direct or indirect, consequential, incidental, special or general, economic or otherwise, that may arise out of such use. While AAFC endeavours to provide useful and reasonably accurate data, users accept that this disclaimer means that NO LIABILITY shall attach for any use or application of this data.

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX C: ACIMS SEARCH DATA

Search ACIMS Data



Date: 2/7/2018

Requestor: Consultant

Reason for Request: Site Assessment

SEC: 04 TWP: 050 RGE: 01 MER: 4

Non-sensitive EOs: 0 (Data 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](#)

Sensitive EOs: 0 (Data Updated: October 2017)

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

No Sensitive EOs Found: Next Steps - [See FAQ](#)

Protected Areas: 0 (Data Updated: October 2017)

M-RR-TTT-SS	PROTECTED AREA NAME	TYPE	IUCN
-------------	---------------------	------	------

No Protected Areas Found

Crown Reservations/Notations: 0 (Data Updated: October 2017)

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

No Crown Reservations/Notations Found

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX D: *WATER WELL SURVEY*

Groundwater Wells

Please click the water Well ID to generate the Water Well Drilling Report.

Well ID	LSD	SEC	TWP	RGE	M	DRILLING COMPANY	DATE COMPLETED	DEPTH (ft)	TYPE OF WORK	USE	CHM	LT	PT	WELL OWNER	STATIC LEVEL (ft)	TEST RATE (igpm)	SC. DIAM (in)
139565	SW	4	50	1	4	MCALLISTER DRILLING LTD.	1962-08-14	177.00	New Well	Domestic		7		RIERSON, R.	144.00	4.00	0.00
139566	SW	4	50	1	4	BYRT, STAN & SONS LTD.	1985-08-12	217.00	New Well	Domestic		14	36	BERETTA ENT	116.60	11.50	5.00
139567	SW	4	50	1	4	BYRT, STAN & SONS LTD.	1985-10-21	237.00	New Well	Domestic		14	40	LEYEN OILWELL SVC	117.00	11.00	5.00
139568	5	4	50	1	4	MORTON'S WATER WELL DRILLING LTD.	1985-11-15	205.00	New Well	Industrial		3		PETARIG OIL SVC	120.00	15.00	5.00
139569	6	4	50	1	4	MCALLISTER HOLDINGS LTD.	1986-08-21	240.00	New Well	Domestic	1	13		CHRISTIE CORROSION CONTROL LTD	11.80	9.80	5.00
218192	SW	4	50	1	4	BYRT, STAN & SONS LTD.	1993-06-15	277.00	New Well	Domestic		13	23	UNRAU, ABE	126.10	13.00	5.00
238523	SW	4	50	1	4	MCALLISTER WATERWELLS LTD.	1993-11-29	236.00	New Well	Domestic		12		VIC-AIR DRIG	118.00	12.00	5.00
287651	SW	4	50	1	4	MCALLISTER WATERWELLS LTD.	1997-08-26	265.00	New Well	Domestic		17	5	GAS, CAL	132.00	8.00	5.00
287652	SW	4	50	1	4	MCALLISTER WATERWELLS LTD.	1997-05-08	260.00	New Well	Domestic		18	16	CORLAC INDUSTRIES	120.00	10.00	5.00
287653	SW	4	50	1	4	MCALLISTER WATERWELLS LTD.	1997-07-09	256.00	New Well	Domestic		19	14	CARTAGE, CARLS	120.00	9.00	5.00
287654	SW	4	50	1	4	MCALLISTER WATERWELLS LTD.	1996-11-26	260.00	New Well	Domestic		13	20	NORTH WEST PIPE	121.00	7.00	5.50
299578	SW	4	50	1	4	MCALLISTER HOLDINGS LTD.	2001-06-28	247.00	New Well	Domestic		13	20	CARE INDUSTRIES LTD	127.90	9.00	5.00
1500102	4	4	50	1	4	MCALLISTER DRILLING INC.	2003-08-28	253.00	New Well	Domestic		11	21	BEXSON CONSTRUCTION (TNT)	132.00	7.00	5.00
1500161	SW	4	50	1	4	MCALLISTER DRILLING INC.	2002-11-27	200.00	New Well	Domestic		9	5	BEXSON CONSTRUCTION	123.00	18.00	5.00
1500174	SW	4	50	1	4	MCALLISTER DRILLING INC.	2002-09-04	229.00	New Well	Domestic		8	23	MURLAND PROJECTS INC	124.00	15.00	5.00
1500931	SW	4	50	1	4	MCALLISTER DRILLING INC.	2002-11-25	198.00	New Well	Domestic		8	9	REYNOLDS PLUMBING LTD.	120.00	20.00	4.00
1501100	SW	4	50	1	4	MCALLISTER DRILLING INC.	2006-10-28	238.00	New Well	Other		10	13	WELCLEAN	122.01	10.00	5.00
1502266	5	4	50	1	4	MCALLISTER DRILLING INC.	2014-08-28	245.00	New Well	Domestic		16	16	GERORD LEIGH INVESTMENTS	117.31	10.00	
1924707	SW	4	50	1	4	MORTON'S WATER WELL DRILLING LTD.	2012-09-07	220.00	New Well	Domestic		4		STRAND CONSTRUCTION & DEV			



Water Well Drilling Report

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

GIC Well ID 139569
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1986/10/21

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

UNKNOWN ID

Well Identification and Location										Measurement in Imperial		
Owner Name CHRISTIE CORROSION CONTROL LTD		Address P.O. BOX 1458 LLOYDMINSTER			Town		Province		Country		Postal Code	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	6	4	50	1	4							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)							
ft from _____					Latitude <u>53.283566</u> Longitude <u>-110.093932</u>					Elevation _____ ft		
ft from _____					How Location Obtained					How Elevation Obtained		
					Not Verified					Not Obtained		

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

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
22.00		Brown Till
41.00		Gray Till
68.00		Brown Sand
98.00		Gray Till
108.00		Gray Shale
112.00		Gray Sandstone
142.00		Gray Shale
210.00		Gray Sandstone
213.00		White Siltstone
224.00		Gray Sandstone
226.00		Gray Shale
236.00		Gray Sandstone
240.00		Gray Shale

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate <u>0.00</u> igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
1986/08/21	9.80	11.80	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
240.00 ft		1986/08/21	1986/08/21	
Borehole				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	240.00		
Surface Casing (if applicable)			Well Casing/Liner	
Plastic				
Size OD :	<u>5.00</u> in	Size OD :	<u>0.00</u> in	
Wall Thickness :	<u>0.260</u> in	Wall Thickness :	<u>0.000</u> in	
Bottom at :	<u>228.00</u> ft	Top at :	<u>0.00</u> ft	
		Bottom at :	<u>0.00</u> ft	
Perforations				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
Perforated by				
Annular Seal Sand Pack				
Placed from <u>0.00</u> ft to <u>226.00</u> ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type Stainless Steel				
Size OD : <u>3.00</u> in				
From (ft)	To (ft)	Slot Size (in)		
228.00	232.00	0.015		
Attachment <u>Attached To Casing</u>				
Top Fittings <u>Coupler</u>		Bottom Fittings <u>Plug</u>		
Pack				
Type <u>Artificial</u>		Grain Size <u>12-20</u>		
Amount <u>600.00</u> Pounds				

Contractor Certification		Certification No	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER		1	
Company Name MCALLISTER HOLDINGS 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 139569
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1986/10/21

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

UNKNOWN ID

Well Identification and Location							Measurement in Imperial		
<i>Owner Name</i>	<i>Address</i>		<i>Town</i>		<i>Province</i>	<i>Country</i>	<i>Postal Code</i>		
CHRISTIE CORROSION CONTROL LTD	P.O. BOX 1458 LLOYDMINSTER								
<i>Location</i>	<i>1/4 or LSD</i>	<i>SEC</i>	<i>TWP</i>	<i>RGE</i>	<i>W of MER</i>	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>
6	4	50	1	4					
<i>Measured from Boundary of</i>				<i>GPS Coordinates in Decimal Degrees (NAD 83)</i>			<i>Elevation</i>		
ft from _____				Latitude <u>53.283566</u> Longitude <u>-110.093932</u>			ft _____		
ft from _____				How Location Obtained			How Elevation Obtained		
				Not Verified			Not Obtained		
Additional Information							Measurement in Imperial		
<i>Distance From Top of Casing to Ground Level</i> _____ in							<i>Is Flow Control Installed</i> _____		
<i>Is Artesian Flow</i> _____							<i>Describe</i> _____		
<i>Rate</i> _____ igpm									
<i>Recommended Pump Rate</i>					<i>Pump Installed</i> <u>Yes</u>		<i>Depth</i> _____ ft		
<i>Recommended Pump Intake Depth (From TOC)</i> _____ 212.00 ft					<i>Type</i> <u>SUB</u>		<i>Make</i> <u>BERKLEY</u>		<i>H.P.</i> <u>.75</u>
					<i>Model (Output Rating)</i> _____				
<i>Did you Encounter Saline Water (>4000 ppm TDS)</i> _____				<i>Depth</i> _____ ft		<i>Well Disinfected Upon Completion</i> _____			
<i>Gas</i> _____				<i>Depth</i> _____ ft		<i>Geophysical Log Taken</i> <u>Electric</u>			
				<i>Submitted to ESRD</i> _____					
<i>Additional Comments on Well</i>				<i>Sample Collected for Potability</i> _____			<i>Submitted to ESRD</i> <u>Yes</u>		
DRILLER REPORTS SOFT WATER									

Yield Test			Taken From Ground Level		Measurement in Imperial	
<i>Test Date</i>	<i>Start Time</i>	<i>Static Water Level</i>	<i>Depth to water level</i>		<i>Drawdown (ft)</i>	<i>Recovery (ft)</i>
1986/08/21	12:00 AM	11.80 ft				
<i>Method of Water Removal</i>						
<i>Type</i> <u>Air</u>						
<i>Removal Rate</i> _____ 9.80 igpm						
<i>Depth Withdrawn From</i> _____ 208.00 ft						
<i>If water removal period was < 2 hours, explain why</i>						

Water Diverted for Drilling		
<i>Water Source</i>	<i>Amount Taken</i>	<i>Diversion Date & Time</i>
	ig	

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

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

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

July 3, 2018

Our File: 120736

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

Dear Mr. Thompson:

RE: Search Requested - Infini Famiglia Inc.

In response to your request of July 2, 2018, 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.

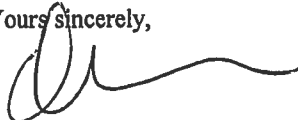
This search is limited to the following enforcement actions under EPEA and its predecessor legislation: Tickets, Prosecutions, Administrative Penalties, Warnings, Enforcement Orders, Enforcement Orders Concerning Waste, Environmental Protection Orders, Emergency Environmental Protection Orders, Emission 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.

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

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

July 3, 2018

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 properties with the legal land description:

Plan 0826486, Block 1, Lot 9, Vermilion River
Plan 8521590, Block 1, Lot 6, Vermilion River

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,

Gonnie Jacobsen
PTMAA

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX G: *ESAR SEARCH*

SURFACE RECLAMATION COUNCIL

WORK SHEET

Date April 21, 1969

Well Name HRB - P No. 1

Abandoned 19/11/51

Location Ls. 4 Sec. 4 Tp. 50 Rge. 1 W. 4 th Meridian

Company Messrs Hale Rinehart, Bunber & Parker
Unknown

Anniversary Date _____

Surface Owner CANADA PERMANENT TRUST COMPANY

Executor of the Estate of ELROY PHILLIPS (DECEASED)
Occupant and George LORNE COOKE → (17/1/67)

Area County No. 24 Local Member Ilkay... - House and life

Misc. Taken from well map

57-0-222

17/1/67

90-R-183

CANADA PERMANENT TRUST COMPANY

10038 JASPER AVENUE, EDMONTON ALBERTA

EXECUTOR OF THE ESTATE OF ELROY HARRY PHILLIPS (DECEASED) AND

GEORGE LORNE COOKE OF LLOYDMINISTER ALBERTA

SW1/4 OF SECTION 4-50-1-4 IN THE SAID PROVINCE CONTAINING 160 ACRES

MORE OR LESS.

RESERVING UNTO HER MAJESTY ALL MINES AND MINERALS.

CAVEAT 6872 TX ABOVE LAND BY MINISTER OF HIGHWAYS RE PUBLIC WORK 20/9/66.

2./4/69

SLK

SRC

537 NALRD

HRB-P No. 1

SW $\frac{1}{4}$ of 4-50-1-W. 4th Mer.

May 16th Inspection made this date. area
found in satisfactory condition.
located in cultivated field: no contact -
(immediate) Paper Road.

owner:

Canada Permanent Trust Co -
occupant:

George Lorne Cooke

Haydonville Sask.

1b

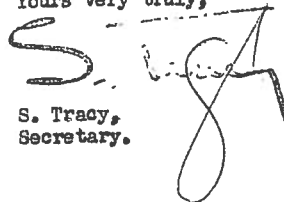
May 23, 1969.

Dear Mr. Cooke:

Re: SW $\frac{1}{4}$ of 4050-1-W. 4th Meridian

In accordance with section 15 of The Surface Reclamation Act, I enclose a copy of Reclamation Certificate No. 7813 relating to the above.

Yours very truly,

A handwritten signature in dark ink, appearing to be 'S. Tracy', written over a horizontal line. The signature is stylized and somewhat cursive.

S. Tracy,
Secretary.

Encl.

Canada Permanent Trust Company
Executor of the Estate of
Elroy Harry Phillips (Deceased)
and George Lorne Cooke,
c/o George Lorne Cooke,
LLOYDMINSTER, Saskatchewan.

REGISTERED MAIL



GOVERNMENT OF THE PROVINCE OF ALBERTA
THE SURFACE RECLAMATION ACT

(Section 15)

AGRICULTURE BUILDING
9718 - 107 STREET
~~EDMONTON, ALBERTA~~
EDMONTON 6, ALBERTA

County No. 24

Reclamation Certificate No. 7813

This is to certify that the surface of the
land held by Messrs. Hale, Rinehart, Bunker & Parker

within SW $\frac{1}{4}$ Sec. 4 Tp. 50 Rge. 1 W. 4th Mer.
in connection with or incidental to HRB-P No. 1 well,

was found to be in a satisfactory condition.

Dated at *Hayden*, Alberta
this 16th day of *May*, 1969

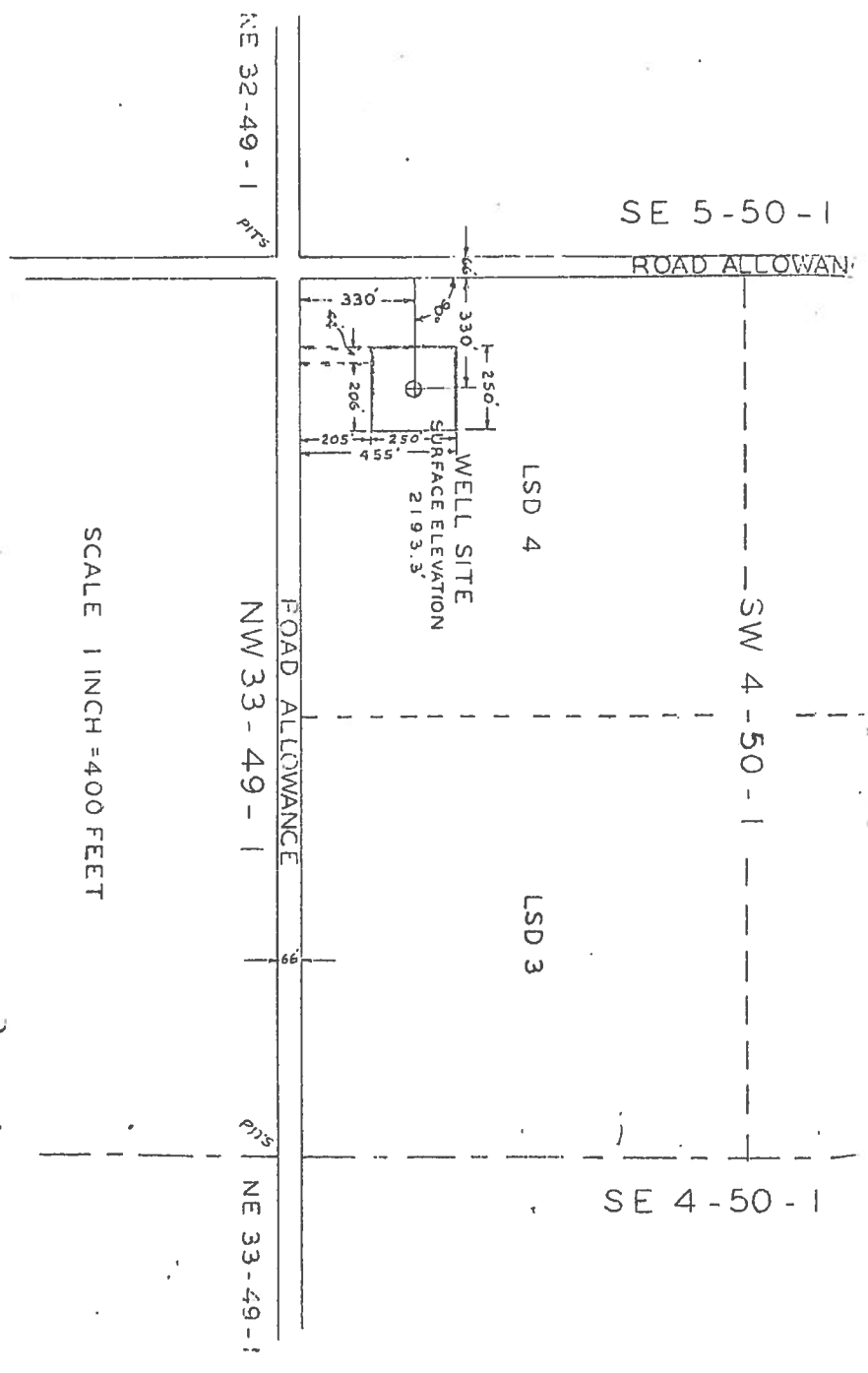
Surface Reclamation Council

Roger Bant

Member

Horace Lundoff

Member



SCALE 1 INCH = 400 FEET

H.P.B.P. #1

SURVEYED AUG. 11 1947

F.H. EDMUNDS R.M. COONS

SURVEYED BY G.D.G.

SASKATCHEWAN REGISTERED PROFESSIONAL ENGINEER

ALBERTA LICENSED PROFESSIONAL ENGINEER

Edmunds

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX H: *ABADATA SEARCH*



Licensed to STANTEC CONSULTING L...
MICHAEL BOLSTER

Map Display (3) Filter By Company Reports

Feedback | Support | Logout

Save Map

Switch | Load Maps (3)

Timeout in
00:30

Section Township Range Meridian Zoom Options

4 50 1 4 Default

Find DLS | NTS | Coordinates

Tools

Select

Pan

Measure

Zoom In

Zoom Out

Zoom To

Find

Nearest

Get

Directions

Road Map

Print Coords

Location

Select

Objects

Custom

Lists

Riffar



 AbaData AER Well Report

WELL ID	LICENSE #	LICENSE DATE	WELL NAME	LICENSEE	SURFACE LOCATION	LICENSE STATUS	SPUD DATE	FINAL DRILL DATE	WELL STATUS	ABANDON DATE
100 / 04-04-050-01 W4 / 0	0412356	SEP 16 2009	MNK LLOYD 4-4-50-1	MANITOK ENERGY INC.	12-04-050-01W4M	Abandoned	SEP 22 2009	SEP 24 2009	ABD	FEB 11 2012
100 / 06-04-050-01 W4 / 0	0420282	MAY 6 2010	PETROCAPITA LLOYD 6-4-50-1	PETROCAPITA GP I LTD.	12-04-050-01W4M	Issued	MAY 12 2010	MAY 16 2010	CR-OIL PUMP	
102 / 12-04-050-01 W4 / 0	0414100	NOV 17 2009	PETROCAPITA LLOYD 12-4-50-1	PETROCAPITA GP I LTD.	12-04-050-01W4M	Suspension	DEC 8 2009	DEC 11 2009	CR-OIL SUSP	