Hamilton & D'Ambra Consulting Inc.

2636 Templeton Drive, Vancouver, BC
Phone: (604) 816-3854; Email: garyhamilton49@gmail.com

26 October 2022

DELIVERED VIA E-MAIL:

Brendan Algeo, M.Sc., Urban Systems Ltd.
balgeo@urbansystems.ca

RE: TECHNICAL REVIEW OF URBAN SYSTEMS LTD. REPORT ENTITLED "*PHASE I ENVIRONMENTAL SITE ASSESSMENT SADDLE LAKE CREE NATION FOR: FEE SIMPLE LANDS AREA STRUCTURE PLAN PROPERTY COUNTY OF ST. PAUL, ALBERTA*" DATED OCTOBER 2022

Dear Brendan:

Further to your request, Hamilton & D'Ambra Consulting Inc. has completed a technical review of the report prepared by Urban Systems Ltd. entitled "*Phase I Environmental Site Assessment Saddle Lake Cree Nation for: Fee Simple Lands Area Structure Plan Property County of St. Paul, Alberta*" dated October 2022 (Phase I ESA). It is our understanding that the report was completed at the request of Saddle Lake Cree First Nation for due diligence purposes.

It is our opinion that this report has been completed in general accordance with Canadian Standards Association document Z768-01 (R2016) for Phase I ESAs. It is also our opinion that this document generally follows Section 58 of the BC Contaminated Sites Regulation for the first Stage of a Preliminary Site Investigations and the format of BC Ministry of Environment and Climate Change Strategy Technical Guidance (TG) 10 (Guidance for Stage 1 Preliminary Site Investigation). Based on our technical review of the Phase I ESA we concur with the conclusions and recommendations presented in the document.

Hamilton & D'Ambra Consulting Inc. has prepared this letter for the sole benefit of the Urban Systems Ltd. Any use that a third party makes of this letter, or any reliance on decisions made based on it, is the responsibility of such third parties. Hamilton & D'Ambra Consulting Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken based on this letter. The information and conclusions contained in this letter are based upon work undertaken by trained professional staff in accordance with generally accepted scientific practices current at the time the work was performed. Conclusions presented in this letter should not be construed as legal advice.

Yours truly,

Gary Hamilton

Gary Hamilton, P. Geo., CSAP
Contaminated Site Approved Professional

Saddle Lake Cree Nation

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Saddle Lake Cree Nation for:

Fee Simple Lands Area Structure Plan Property

County of St. Paul, Alberta

October 21, 2022

URBAN systems

Prepared For: Saddle Lake Cree Nation
Box 100
Saddle Lake, AB T0A 3T0
Attn: Ken Large, Director of Public Works

Prepared By: Urban Systems Ltd.
103545 105 Street NW
Edmonton, Alberta

Prepared By:

Brendan Algeo, M.Sc.
Environmental Consultant

Reviewed by:

Jason Frederickson, A.I.T.
Environmental Consultant

File No.: 3518.0029.02

Contact: Terri Duret, P.Biol

T: 403.291.1193

tduret@urbansystems.ca

urbansystems.ca

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APPENDICES

EXECUTIVE SUMMARY

Urban Systems Ltd. (USL) was retained by Saddle Lake Cree Nation (SLCN) to conduct a Phase I Environmental Site Assessment (ESA) to fulfill the environmental reporting requirements for an area structure plan (ASP). The land requiring assessment is located within the County of St. Paul and is currently fee simple lands owned by SLCN. The Project Area is a quarter section located at the northwest corner of the intersection of Highways 36 and 652 in the County of St. Paul, Alberta (SE ¼ Sec 3 Twp 58 Rge 11 W4M). SLCN requires an assessment of the lands to identify potential areas of environmental concern (APEC). An environmental review for the Project Area was completed using the standards of a Phase I ESA as defined in the Canadian Standards Association document Z768-01 for due diligence.

This report is based on a visual inspection of the Project Area on June 8th 2022, a review of available public records and interviews/questionnaires. The site visit was conducted to inspect infrastructure, land, and adjacent properties for indicators of potential contamination. The available information collected for this report, although accurate at the time of collection in June of 2022, may change as site conditions change over time.

Based on a review of historical information sources and the site visit no APECs were identified within or surrounding the Project Area; therefore, based on the results of the Phase I ESA, a Phase II ESA is not recommended at this time. The use of this report is subject to the Statement of Limitations (Section 9.0). It is essential that the reader considers Statement of Limitations when interpreting the findings and conclusions of this report.

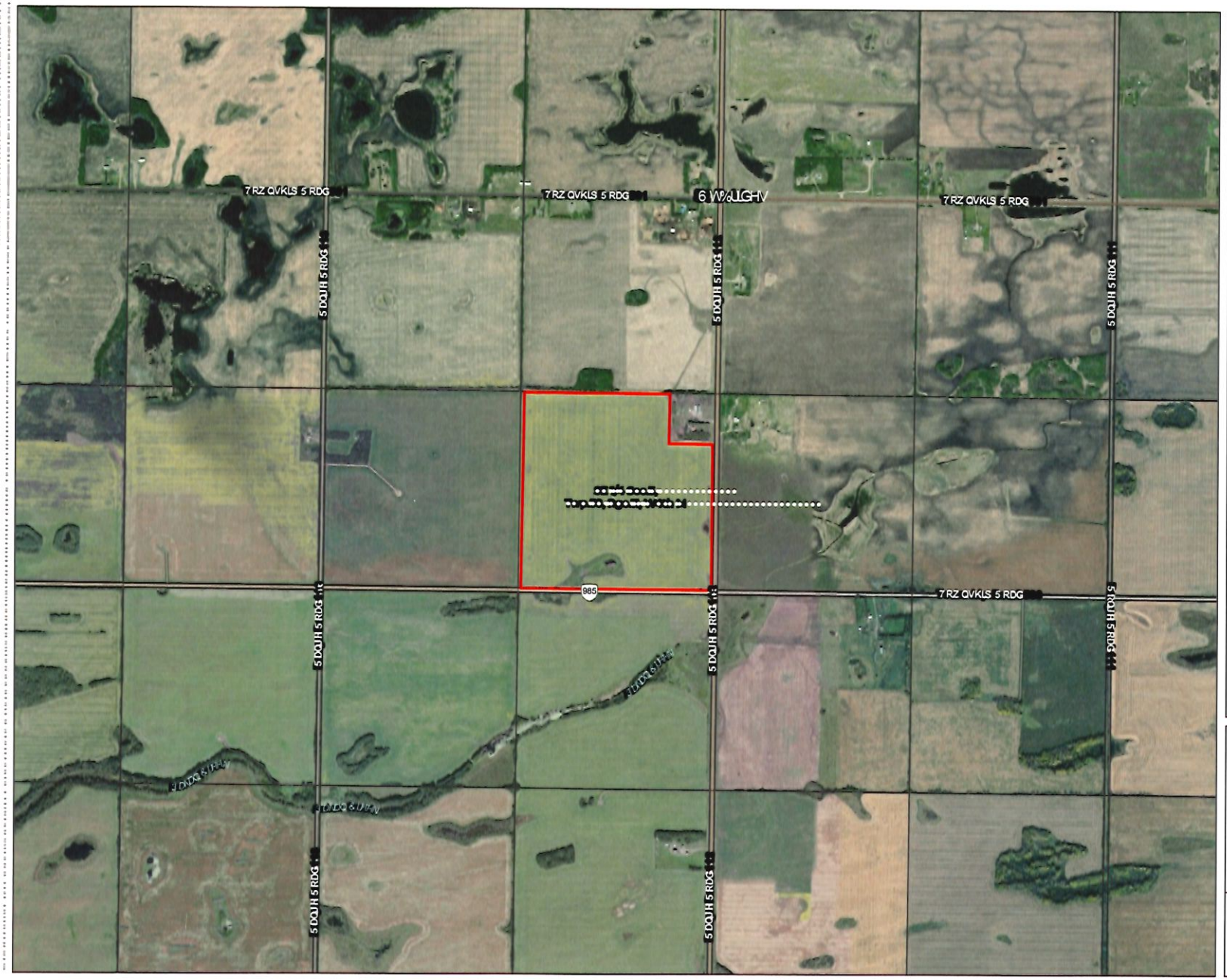
1.0 INTRODUCTION

Urban Systems Ltd. (USL) was retained by Saddle Lake Cree Nation (SLCN) to conduct a Phase I Environmental Site Assessment (ESA) to fulfill the environmental reporting requirements for an area structure plan (ASP). The land requiring assessment is located within the County of St. Paul and is currently fee simple lands owned by SLCN. Back in 2020 SLCN conducted a market assessment for a grocery store (no larger than 4,500 ft²) with a gas station, the Nation is now prepared to move forward with an ASP and rezoning process for these lands with the County of St. Paul. SLCN requires an assessment of the lands to identify potential areas of environmental concern (APEC). An environmental review for the Fee Simple ASP Lands was completed using the standards of a Phase I ESA as defined in the Canadian Standards Association (CSA) document Z768-01 for due diligence. This report has been prepared specifically for the area outlined in **Figure 1.1**, herein referred to as the "Project Area".

There is potential for contamination on the property as a result of past or current land use. This report will help to understand any risks associated with the future development of this land.

1.1 Limiting Factors

This report is based on a visual inspection of the Project Area on June 8th 2022 and a review of available public records. The available information collected for this report, although accurate at the time of collection in June of 2022, may change as site conditions change over time.



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2.0 SCOPE OF WORK

This Phase 1 ESA was carried out in accordance with the guidelines and principles established by the CSA Standards Association Document Z768-01, reaffirmed in 2016. The scope of work for the Phase 1 ESA consisted of the following:

- A records review including, but not limited to, historical title searches, water well databases, the AbaData database of oil and gas infrastructure and the federal contaminated sites inventory;
- A review of historical aerial and on-site photographs;
- A site visit to inspect the Project Area, equipment, land, surface water, and adjacent properties for indicators of contamination;
- A personal interview with the current land owner to corroborate and augment the information from the records review;
- Review available historical information for the site and immediate surrounding areas;
- Topographic mapping, groundwater mapping, fire insurance plans (FIPs), property use directories, land use by-laws, zoning, and readily available environmental reports for the Project Area;
- Environmental Site Assessment Repository (ESAR); and
- Alberta Safety Codes Authority (ASCA).

3.0 SITE DESCRIPTION

3.1 General

The Project Area is a quarter section located at the northwest corner of the intersection of Highways 36 and 652 in the County of St. Paul, Alberta. The Project Area is located approximately 15 km from the Town of St. Paul, 1.6 km from the nearest boundary of SLCN Reserve and approximately 12 km from the townsite area of SLCN. The Project Area is currently cultivated with wetlands being the dominant natural biophysical features. Elevations within the Project Area range from approximately 646 m to 631 m above sea level. The lowest elevation is in the southeast corner, and the highest elevation is located along the northwest edge. The northeast corner of the Project Area borders a homestead, and the rest of the surrounding land use is primarily agricultural (cultivated). To the east of the site is highway 29 and the south is range road 652.

3.2 Legal Description

The Project Area is comprised of fee simple land legally described as:

SE ¼ Sec 3 Twp 58 Rge 11 W4M.

3.3 Site Visit

A site visit was completed on June 8, 2022, by Jason Frederickson and Brendan Algeo of Urban Systems Ltd. In general, the site visit was conducted to inspect the infrastructure, land, and adjacent properties for indicators of potential contamination. A summary of the information is provided below and photographs from the site visit have been included in **Appendix A**.

3.3.1 Site Appearance

The site is mostly undeveloped cropland with an existing subdivision of approximately 3 hectares out of the northeast corner of the quarter section.

3.3.2 Structures on the Property

There were no structures within the Project Area.

3.3.3 Fuel Storage Vessels

No fuel storage vessels are recorded within the Project Area.

3.3.4 Solid Waste / Landfills / Dumping

No visible signs of land filling or dumping on the Project Area was observed.

3.3.5 Air and Water Emissions

There were no indicators of air emissions and surface water runoff noted on the Project Area. Surface water runoff would likely drain from north to south based on elevation decreasing as you move south and is likely to collect in the wetland near the south of the Project Area.

3.3.6 Nuisance Odours and Noise

No issues with respect to nuisance odours or noise from the Project Area were apparent during the site visit.

3.4 Special Attention Items

CSA requires these items to be addressed even if no findings on Project Area.

3.4.1 Asbestos Containing Materials

A material is an asbestos containing material (ACM) when it contains more than 1% asbestos. ACMs are divided into friable and non-friable materials. An ACM is considered friable if it can be crumbled, pulverized, or reduced to powder by hand pressure. A non-friable ACM is not easily broken/crumbled and requires mechanical grinding or breaking to release the harmful fibres into the air. Non-friable ACMs can become friable from weathering or wear and tear, during demolition of a building, or when a glued ACM is removed.

Friable ACMs pose the highest risk to human health as they have an airborne nature. Non-friable ACMs pose less of a risk to health as they are resistant to damage and abrasion. Non-friable ACMs continues to be used today. Prior to 1990, asbestos was used for insulating buildings and homes against cold and noise, and for fireproofing, including products such vinyl sheets, spray on fire retardant, and thermal lagging pipe insulation. Today, non-friable ACMs include products such as vinyl floor tiles, textured paint, acoustic ceiling tiles, and asbestos cement products. No structures are present within the Project Area therefore ACM is not likely to be present.

3.4.2 Lead

Lead based paints are common in older buildings. No structures are present within the Project Area therefore Lead is not likely to be present.

3.4.3 Urea Formaldehyde Foam Insulation

Urea formaldehyde foam insulation (UFFI) was widely used in the 1970's for insulating and retrofitting industrial, commercial, and older residential buildings. Advertising, sale or importation of UFFI into Canada was prohibited in December 1980. No structures are present within the Project Area therefore UFFI is not likely to be present.

3.4.4 Polychlorinated Biphenyls

Polychlorinated biphenyls (PCBs) are generally associated with electrical equipment including transformers and capacitors. PCBs are frequently found in older fluorescent light ballasts. Manufacturers in Canada discontinued the use of PCBs between 1977 and 1981. No electrical transformers were observed on the Project Area; therefore, it is unlikely that PCBs are present.

3.4.5 Ozone Depleting Substances

R22 refrigerant is a hydrochlorofluorocarbon (HCFC) that is a Class II Ozone Depleting Substance (ODS) under the Ozone-Depleting Substances and Halocarbons Regulation. R22 is found in older air conditioning and refrigeration equipment. Phase-out of R22 began in 2010 with a ban on manufacturing in Canada, with

a prohibition of sale in 2020. No structures are present within the Project Area therefore ODS is not likely to be present.

3.5 Adjacent Land Use

3.5.1 Area to the North

To the north of the Project Area is a mix of commercial and residential land use, in the northeast corner the area is currently developed as a homestead with a retail business operated out of an outbuilding, the St. Brides Trading Post. Directly north, another residential property with cultivated land is present.

3.5.2 Area to the South

Range road 652 borders the south of the Project Area, south of the road is a cultivated field with a homestead in the southeast section of the property.

3.5.3 Area to the East

To the east of the Project Area highway 29 runs parallel north and south, a property on the east side of the highway contains a U-Haul dealership and storage lot.

3.5.4 Area to the West

To the west of the Project Area is a residential property with cultivated land.

4.0 NATURAL CHARACTERISTICS OF THE SITE

4.1 Regional Geology

The surficial geology of the Project Area consists primarily of undulating to steeply sloped glacial till deposits, some glacio-fluvial sand and gravel deposits, and mixed and/or gravel deposits associated with the Saskatchewan River. The bedrock geology located beneath the Project Area is from the Cretaceous period and is known as the Belly River Formation. It consists of siltstones, interbedded sandstones, mudstones, coal seams and ironstone beds (Macdonald, 1981).

4.2 Regional and Local Soils

The Natural Regions ecological unit classification system is used by natural resource practitioners throughout Alberta as a management tool to describe ecosystem characteristics including climate, soil, and vegetation. According to the Natural Regions Committee (2006) the Project Area is in the Dry Mixedwood Natural Subregion within the Boreal Forest Natural Region.

The Dry Mixedwood Natural Subregion has the warmest summers and highest growing degree-days of any of the boreal Natural Subregions. Approximately 70% of the annual precipitation falls during the April-August period, with peak precipitation in June and July. The subregion is characterized by aspen forests and cultivated landscapes, with fens commonly occurring in low-lying areas.

Northern and slender wheat grasses are abundant on loss pronounced slopes, while porcupine grass, june grass, sedges and pasture sagewort occur on steeper slopes. The reference type for the area is aspen trees with understories of beaked hazelnut, prickly rose, wild sarsaparilla, cream coloured vetchling, purple

peavine and bluejoint. According to the Natural Regions Committee (Natural Regions Comittee, 2006), regional soil characteristics vary depending on the ecosystem characteristics including climate, soil, and vegetation. Orthic Gray Luvisols are the dominant soils under aspen forests that are moderately well drained. Dark Gray Luvisols are more dominant in cultivated areas. Under wetlands, organic soils (usually Terric Mesisols, while Fibric Mesisols) occur frequently. Some wetlands are dominated by Peaty and Orthic Gleysols soils, especially on gently undulating to level landforms.

The Alberta Soil Information Viewer (Government of Alberta Agriculture and Forestry, 2019) describes the local soils within the Project Area as Eluviated Black Chernozem over medium textured till.

The report *Geotechnical Investigation Proposed Fee Simple Lands Industrial ASP* describes soil conditions on the Project Area as "surficial organic topsoil followed by native clay or glacial clay till with interbedded layers of sand" (Hoggan Engineering & Testing, 2022).

4.3 Surface and Groundwater Resources

A search of the Alberta Merged Wetland Inventory (ABMWI) Database (accessed via GeoDiscover Alberta Map Viewer application) was completed on February 11, 2022 (Government of Alberta, 2022). Several potential wetland areas are visible within and around the Project Area. The ABMWI data was utilized to guide a field survey conducted on June 8, 2022. The field assessment confirmed the presence of several wetland areas within the Project Area.

A Wetland Assessment and Impact Report was prepared by USL to outline detailed characteristics of the wetlands within the Project Area. In general, wetlands are a mix of marsh - graminoid from temporary to semi-permanent or permanent. Refer to *Wetland Assessment and Impact Report for Fee Simple Lands ASP* (2022) for a more in-depth description.

The report *Geotechnical Investigation Proposed Fee Simple Lands Industrial ASP* recorded groundwater table elevations between 2.71 m and 5.47 m below the surface (Hoggan Engineering & Testing, 2022).

A search of the Alberta Water Well Information Database was conducted on July 6, 2022 (Government of Alberta, 2022). The purpose of this search was to determine the location of water wells in relation to the Project Area. Details of all identified water wells within 250 m of the Project Area are provided in Error! Reference source not found. **4.1 & Table 4.2.** A total of six (6) groundwater wells were identified, four (4) within the Project Area and two (2) within 250 m. However, the precise location of the water wells within the Project Area is unknown. During the site visit, no indication of groundwater wells was observed within the Project Area, and it is likely these wells are in association with the subdivided homestead. The well logs from the Alberta Water Well Information Database indicated that groundwater was recorded at depths between 10.67 m to 10.97 m below ground surface within the Project Area and 5.49 m within 250 m of the Project Area (consult well logs in **Appendix B** for further details).

Locations of surface water elements are provided in **Figure 3.1.**

Table 4.1. Groundwater wells within the Project Area.

Well Tag Number	Depth to water (m)	Well Depth (m)	Diameter (mm)	Well Use	Reported Yield (L/s)
157140	Unknown	3.66	Unknown	Domestic	Unknown
193984	10.97	32.3	127	Domestic	0.61
207188	Unknown	14.02	762	Domestic	Unknown
242614	10.67	61.26	127	Domestic	1.21

Table 4.2. Groundwater wells within 250 m of the Project Area.

Well Tag Number	Depth to water (m)	Well Depth (m)	Diameter (mm)	Well Use	Reported Yield (L/s)
207171	5.49	54.89	114.3	Domestic & Stock	0.76
207214	Unknown	Unknown	Unknown	Unknown	Unknown

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5.0 RECORDS REVIEW

5.1 Aerial Photographs

Historical air photos of the Project Area were obtained from the Aerial Photographic Record System (APRS) at Alberta Environment and Parks (AEP) and Google Earth. Where possible, one photo from each decade was requested dating back to the earliest available image. Historical air photos from 1950, 1965, 1970, 1982, 1991, 2000. **Table 5.1** summarizes the visual interpretation of the historical air photos starting from the oldest photo. Copies of the historical air photos are included in **Appendix C**. Where possible, the approximate location of the Project Area is indicated by a red boundary line.

Table 5.1: Summary of Historic Air Photos

Photo Year	Description
1950	On Site: There are 4 patches of tree stands, which appear to be associated with wetlands. The road network to the south and east is present but does not appear to be paved. Land use is agriculture. Surrounding: NE of Project Area there are two locations in which several buildings are present or homesteads, one is adjacent to the site and the other is on the east side of HWY 29. To the north south, and west of the site agriculture appears to be the primary land use
1965	On Site: All tree patches are gone, apart from 1 on the west half of the site. A large wetland in the south is clearly visible, 3 other locations express indicators of wetlands, but appear dry. The Project Area has been cultivated; land use is consistent with previous imagery. Surrounding: The homestead in NE corner and road network is the same as previous imagery No new structures evident and land use is consistent with previous imagery
1970	On Site: Noticeable wetland in the south. It appears that agriculture is the primary land use (imagery is blurry). Surrounding: The homestead in NE corner and road network is the same as previous imagery. No new structures are evident, land use is consistent with the previous imagery.
1982	On Site: Two visible wetlands are present, the large one in the south appears to have surface water, the other appears dry. The Project Area has been recently cultivated. Surrounding: The homestead in the NE corner has expanded southwards with a new building developed. The homestead to the NE across HWY 29 appears to be expanding. Multiple vehicles appear to be stored onsite. Agriculture is the primary land use surrounding the site.
1991	On Site: Land use is consistent with previous imagery Surrounding: The imagery is consistent with the 1982 image. Homestead to the NE across HWY 29 continues to expand with an increase in building development and roadways. Multiple vehicles appear to be stored onsite.

Photo Year	Description
2000	On Site: Land use appears consistent with previous imagery. Surrounding: Distinct landscapes are distinguishable in adjacent homestead to the NE with a pond developing on the west edge of the property.
2021*	On Site: Consistent with previous imagery. Surrounding: Consistent with previous imagery.

*Google Earth

5.2 Historical Title Search

A historical title search of the Project Area property was conducted through the Alberta SPIN 2 (Alberta Land Titles Spatial Information System) database. The Land Titles Office at the *Registry Services Division of Service Alberta* (Government of Alberta, 2022) was requested to provide the associated historical land titles for the subject property selectively identified through analysis of historical imagery and other records. The search results are outlined in **Table 5.2**. Adjacent land titles were also searched, there was nothing worth noting and therefore are not included in **Table 5.2**. Details of the historical title searches is included in **Appendix D**.

Registered Owner	Title Number	Date Title Registered	Date Title Cancelled	Current Legal or Short Legal
The Solider Settlement Board of Canada	161M152	January 31, 1954	-	SE; 3; 58; 11; 4
O'Neill Bros. Investments Ltd.	832 015 053	January 21, 1983	November 08, 1993	SE; 3; 58; 11; 4
Hutterian Brethren Church of Stony Creek	182 001 290	January 3, 2018	-	NW; 3; 58; 11; 4
Ernest Edward & Kerry Wynne Chrapko	942 380 488	December 9, 1994	-	SE; 3; 58; 11; 4
Robert & Aline Looy	012 314 985 +1	October 3, 2001	-	NE; 3; 58; 11; 4
Ida Brodziak	192 137 814 +3	June 20, 2019	-	SW; 3; 58; 11; 4
544526 Alberta Ltd.	932 346 813 +2	November 8, 1993	Current	SE; 3; 58; 11; 4

5.3 Alberta Environment and Parks – Routine Disclosure, Authorization Viewer

A search of the Alberta Environment Authorization Viewer was requested on September 1, 2022 for records regarding the Project Area, available under the *Environmental Protection and Enhancement Act* (EPEA). This information request was for a historical to present-day timeframe. The results of the search indicated that there have been one (1) enforcement actions under the EPEA or its predecessor legislation with

regards to the Project Area. Document 00122935-00-00 Kissenger et al Saddle Lake 11-3-58-11 Well and access road is held by Kissinger Petroleums Ltd., under the provisions of EPEA This Reclamation Certificate is currently issued as of March 29, 1979 and does not expire. Details of document 00122935-00-00 are outlined in **section 5.9**.

5.4 Storage Tanks

A search request for information regarding active or abandoned petroleum storage tanks associated with the Project Area was submitted to the *Alberta Safety Codes Council* (ASCA) (Saftey Codes Council, 2020). This database includes only information reported through registration or a survey of abandoned sites completed in 1992 and should not be considered as comprehensive. According to the ASCA records, there were no underground or aboveground storage tanks registered at the Project Area. Details of the Alberta Safety Codes Storage Tank search are outlined in **Appendix E**.

5.5 Fire Insurance Plans and Inspection Reports

Fire Insurance Plans (FIP's) are generated to assist emergency workers when responding to fires or other emergency situations. These plans are designed to highlight areas where extra caution is required during emergencies as the property may have storage facilities for flammable and/or potentially toxic chemicals.

Opta Information Intelligence were contacted on April 4, 2022 regarding historical FIP's and insurance reports related to the Project Area. An Enviroscan report was completed, and no records were found for the Project Area (Opta Information Intelligence, 2022). Details of the Opta Enviroscan are in **Appendix H.**

5.6 AbaData Record Search

Abacus Datagraphics Ltd. provides a web-accessible, geographical information system known as AbaData, for oilfield infrastructure, pipelines, oil and gas wells, and gas facilities (AbaData, 2022). The data sources for the information include Alberta Energy Regulator (AER), Alberta Environment, AltaLIS, and additional data layers from the Canada Land Inventory, Alberta Culture, and the Alberta Geological Survey. Searches in AbaData were conducted on February 11, 2022.

The search results indicated that there are four pipelines within the Project Area, 3 of which low pressure and 1 high pressure. Additionally, there are 2 wells and 2 pipelines on adjacent property with 1 km of the Project Area. The information provided in AbaData is summarized in **Table 5.3** and **Table 5.4**.

Table 5.3: Pipelines within the Project Area

License #	Company or License	Status	Substance(s) and Infrastructure Description
Unknown	Apex Utilities Inc	Abandoned	Unknown
Unknown	Apex Utilities Inc	Active	Unknown
Unknown	Apex Utilities Inc	Active	Unknown
10315-24	Canadian Natural Resources Limited	Operational	Natural Gas

Table 5.4: Pipelines and Wells Surrounding (within 1 km) Project Area

License #	Company or License	Status	Type	Substance(s) and Infrastructure Description
0073352	Canadian Natural Resources Limited	Suspended	Well	Gas
0060645	Canadian Natural Resources Limited	Operating	Well	Gas
12249-8	Canadian Natural Resources Limited	Operating	Pipeline	Natural Gas
16739-2	Canadian Natural Resources Limited	Abandoned	Pipeline	Natural Gas

There was one spill 800 m east of the Project Area. Information regarding the spill is provided in **Table 5.5**.

Table 5.5: Spills/Complaints on Surrounding Properties

Type	Date	Licensee	Source	Cause
Spill	November 21, 2003	0067281	Suspended Well	Equipment Failure - Malfunction

Copies of the search results are included in **Appendix F**.

5.7 Alberta Environmental Site Assessment Repository (ESAR)

The Alberta Environmental Site Assessment Repository (ESAR) was searched on August 30, 2022, for scientific and technical information about the province's assessed and reclaimed sites (Government of Alberta, 2017). The results of the search indicated that there are no known contaminated sites within the Project Area. The results of the search indicated two known contaminated sites in proximity to the Project Area, a former ESSO service station (St. Paul No. 19, County of St. Bridges- HWY 36) approximately 809 m northwest and a former gas wellsite (NW-03-58-11 W4M) approximately 371 m northeast. Both of which were measured from the northern boundary of the Project Area. The well was reclaimed back in 1979 and a reclamation certificate was issued on June 29, 1979 by the Government of Alberta. Refer to **Appendix G** for reclamation certificate.

Details of the Phase II Environmental Site Assessment conducted in 2007 for the ESSO service station by Shelby Engineering Ltd. are outlined in **section 5.9.**

5.8 Federal Contaminated Sites Inventory

A search of the Treasury Board of Canada's Federal Contaminated Sites Inventory website was conducted on August 30, 2022 (Government of Canada, 2022). The results of the search indicated that there are no known contaminated sites within and/or surrounding (1km) the Project Area.

5.9 Summary of Shelby Engineering Ltd Phase II ESA

A Limited Scope Phase II Environmental Site Assessment was conducted by Shelby Engineering Ltd. (Shelby Engineering Ltd., 2007) in 2007 for the ESSO service station (St. Paul No. 19, County of St. Bridges- HWY 36). The purpose of the assessment was to determine whether the operational gas bar located onsite has adversely impacted the environmental nature of the site. A total of seven test holes were drilled, three near the pump island to a depth of 2.3 m below grade and four around the underground tank to a depth of 8.3 m below grade. All four 8.3 m test holes were finished as groundwater monitoring wells.

Soil samples collected from the boreholes were screened for hydrocarbon vapour concentrations. The resulting vapour concentrations were all considers negligible to low. A site sensitivity assessment was completed to be understand the current use of the land and the environmental sensitivity of the site. The results of a site sensitivity assessment determined that the site should be compared to *Alberta Environmental Risk Management Guidelines for Fine Grained Residential Soil*.

Soil samples were also submitted for analysis of petroleum hydrocarbons (BTEX[1] and hydrocarbon fractions 1 through 4) and lead. All soil samples compiled with the applicable standards stated in the *Alberta Environmental Risk Management Guidelines*. Additionally, two well water samples were tested for hydrocarbon concentrations. Both complied with the applicable standards. Shelby Engineering Ltd recommended that the *Limited Scope Phase II ESA* has not identified any evidence to suggest that the onsite gas bar has adversely impacted the site and that no further environmental actions including testing or remediation is required at this time.

A copy of the Phase II ESA is included in **Appendix G**.

5.10 Previous Environmental Investigations

No existing environmental reports were found for the Project Area.

[1] Benzene, toluene, ethylbenzene, and xylenes

6.0 INTERVIEW & QUESTIONNAIRE

6.1 Interview with St. Bridges Trading Post, Ernie Chrapko

A brief interview was conducted with Ernie Chrapko on June 08, 2022. Mr. Chrapko is the owner of St. Brides Trading Post and owns the residential property in the northeast corner of the quarter section. Relevant comments/information pertaining to the property and adjacent lands are discussed below.

- Mr. Chrapko has owned the residential property and trading post for 28 years.
- Mr. Chrapko knew little about the previous owner; however, he did mention that they use to operate on heavy duty vehicles out of the garage (now turned trading post).
- Mr. Chrapko mentioned that there are no underground or above ground storage tanks and was unaware of any chemical storage areas and/or spills.

6.2 Questionnaire Sent to Mr. Finlay Moses

Interview questionnaires consisted of written questions sent to Mr. Finlay Moses lands director for SLCN on July 6, 2022. Only relevant comments/information pertaining to the Project Area and adjoining lands are discussed below. The interview questionnaires are available upon request.

Land-use

- Canola crops

Buildings and Structures

- There are no building or structures and there haven't been any for the last 10 years

Operations, Handling of Chemicals, Storage of Chemicals

- There are probably crop inputs like weed and pest control and fertilizer.

Chemical Spills

- No. He would have received a copy of this report if there had been.

Water Handling, Storage and Disposal

- On the south side there is a body of water, water drains north to south.
- If there is water mixed with liquid fertilizer it would be in a holding tank on a truck.
- There is potentially a water well serving the home and trading post.

Fuel Storage and Handling

- There are no current underground or above ground storage tanks and no reported leaks

Landfills and Dumpsites

- No landfills/dumpsites on site.

Groundwater

- No groundwater wells

Miscellaneous

- Mr. Moses mentioned there are no fluid filled transformers or other electrical equipment on or within the Project Area. Mr. Moses was not aware of any radio-active materials that may have been on the Project Area. Mr. Moses was not aware of any occupational health and safety inspections by regulatory agencies relating to the Project Area. No hazardous wastes have been generated on site. Mr. Moses was unaware of any fires that have occurred on site. There are no known geotechnical or environmental investigations for the site.

7.0 AREAS OF ENVIRONMENTAL CONCERN

Based on the findings of the desktop assessment, interview and the site visit, no areas of potential environmental concern (APEC) were identified.

8.0 SUMMARY AND RECOMMENDATIONS

A Phase I Environmental Site assessment (ESA) was completed on behalf of Saddle Lake Cree Nation for the proposed area structure plan located at the northwest corner of the intersection of Highways 36 and 652 in the County of St. Paul, Alberta (SE ¼ Sec 3 Twp 58 Rge 11 W4M). This Phase 1 ESA was undertaken to determine if current and historical land uses have resulted in areas of potential environmental concern (APEC) on the property.

8.1 Recommendations

Based on the results of the Phase I ESA a Phase II ESA is not recommended. The use of this report is subject to the Statement of Limitations (**Section 9.0**). It is essential that the reader considers Statement of Limitations when interpreting the findings and conclusions of this report.

9.0 STATEMENT OF LIMITATIONS

This report has been prepared, and the work referred to in this report has been undertaken by Urban Systems Ltd., for Saddle Lake Cree Nation (SLCN). It is intended for the sole and exclusive use of SLCN and its authorized agents for the purpose(s) set out in this report. Any use of, reliance on, or decision made based on this report by any person other than SLCN for any purpose, or by SLCN for a purpose other than the purpose(s) set out in this report, is the sole responsibility of such other person or SLCN.

SLCN and Urban Systems Ltd. make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties, or other harm that may be suffered or incurred by any other person as a result of the use of, reliance upon, any decision made or any action taken based on this report or the work referred to in this report.

Any conclusions or recommendations made in this report reflect Urban Systems Ltd.'s judgement based on the following limited investigations: visual site inspection on the date set out in this report and examination of available public records. While efforts have been made to substantiate information provided by third parties, Urban Systems Ltd. make no representation or warranty as to its completeness or accuracy.

This report has been prepared for specific application to this site. Unless otherwise stated, the findings cannot be extended to previous or future site conditions; portions of the site which were unavailable for direct investigation; subsurface locations which were not investigated directly; or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site and substances addressed by the investigation may exist in areas of the site not investigated or in quantities not ascertained.

As the evaluation and conclusions reported herein do not preclude the existence of chemical compounds and/or variations of conditions within the site that may be possible, this report should be used for informational purposes only and should absolutely not be construed as a comprehensive hydrogeological or chemical characterization of the site. If site conditions change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Nothing in this report is intended to constitute or provide a legal opinion. Urban Systems Ltd. makes no representation as to the requirements of or compliance with environmental laws, rules, regulations or policies established by federal, provincial or local government bodies. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by SLCN as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Urban Systems Ltd.

10.0 QUALIFICATIONS OF ASSESSORS

Urban Systems has a strong team with extensive past experience in the environmental field and community development.

Terri Duret, BA, Sc., P.Biol. - Urban Systems Ltd., - Environmental Consultant

Terri Duret is a Professional Biologist and a Qualified Wetland Science Practitioner with 9 years of experience in environmental practice. Terri has helped many clients through both federal and provincial environmental regulatory processes. She has completed courses for conducting Phase 1 and 2 Environmental Site Assessments in Canada based on the Canadian Standards Association Z678-01 and Z769-00 and has completed several Phase 1 Environmental Site Assessments and Stage 1 Preliminary Site Investigations.

Jason Frederickson – A.I.T., Urban Systems Ltd., - Environmental Consultant

Based in our Calgary office, Jason has experience in environmental site assessment, water quality monitoring, environmental monitoring for construction projects, stream and fish habitat assessment, fish salvages, and the environmental permitting process. While working for Urban Systems, he has contributed to several projects across Alberta. Jason has completed numerous reports outlining environmental considerations and constraints including Phase I/II Environmental Site Assessments, Environmental Impact Assessments, Environmental Management Plans, and Biophysical studies. Jason conduced the research for this Phase 1 Environmental Site Assessment.

Brendan Algeo – M.Sc., Urban Systems Ltd., - Environmental Consultant

Brendan has a graduate degree in Environmental Science with experience in environmental site analysis, water quality monitoring, environmental monitoring for construction projects, mining, and groundwater sampling. While working for Urban Systems Ltd., he has worked on several environmental projects across SK and AB. Brendan has completed numerous reports outlining environmental considerations and constraints including Phase I Environmental Site Assessments, Environmental Assessments, Biophysical Impact Assessments, and Stage I Preliminary Site Investigations.

Gary Hamilton – P.Geo.(BC), Contaminated Sites Approved Professional (CSAP)

Gary will provide senior technical review for the Phase I ESA. Gary has expertise in hydrogeological assessments for the investigation, design, and implementation of remediation measures for soil vapour, soil and groundwater contamination, including risk assessment approaches; assessment of physical and contaminant hydrogeology at solid waste disposal, mine, industrial, and/or commercial sites; and remedial action programs. He has prepared Remediation Plans from concept through detailed design, and remediation cost estimates to meet both generic criteria and those established through the Risk Assessment process under Yukon and British Columbia Contaminated Sites Regulations and Guidelines. In 2001, Gary was appointed by the BC ENV to the Roster of Approved Professionals. His responsibilities

have included making recommendations to the Ministry regarding the issuance of instruments such as Determinations and Certificates of Compliance for oil and gas, mining, industrial and commercial sites.

11.0 REFERENCES

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APPENDIX A

Site Photographs

Photo 1: Agriculture field facing south towards the wetland

Photo 2: Agriculture field facing west

Photo 3: Vegetation bordering the Project Area to the north

Photo 4: ST. Bridges Trading Post located adjacent to the Project Area (NE corner)

APPENDIX B

Surface and Groundwater Resources

URBAN systems

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 157140
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1982/10/14

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOLMSON, SUSAN	P.O. BOX 1597				T0A 3A0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
How Location Obtained
Not Verified

Elevation ft
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Not Applicable

Proposed Well Use
Domestic

Type of Work
Chemistry

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
12.00 ft			

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	12.00

Surface Casing (if applicable)

Size OD : 0.00 in
Wall Thickness : 0.000 in
Bottom at : 0.00 ft

Well Casing/Liner

Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal

Placed from 0.00 ft to 0.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type

Size OD : 0.00 in

From (ft)	To (ft)	Slot Size (in)

Attachment
Top Fittings Bottom Fittings

Pack

Type Grain Size
Amount 0.00

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

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.

GIC Well ID 157140
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1982/10/14

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOLMSON, SUSAN	P.O. BOX 1597				T0A 3A0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
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
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate igpm
Recommended Pump Intake Depth (From TOC) ft
Pump Installed
Depth ft
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Remedial Action Taker
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well

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
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

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.

GIC Well ID 193984
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1993/06/21

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOLMSON, NOEL	P.O. BOX 3153 ST. PAUL				T0A 3A0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
How Location Obtained
Not Verified

Elevation ft
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Domestic

Type of Work
New Well

Formation Log

Measurement in Imperial

Depth from ground level (ft)	Water Bearing	Lithology Description
23.00		Brown Till
24.00		Clean Sand
86.00		Blue Till
88.00		Dirty Sand
100.00		Blue Till
106.00	Yes	Water Bearing Gravel

Yield Test Summary

Measurement in Imperial

Recommended Pump Rate 5.00 igpm

Test Date	Water Removal Rate (igpm)	Static Water Level (ft)
1992/11/02	8.00	36.00

Well Completion

Measurement in Imperial

Total Depth Drilled	Finished Well Depth	Start Date	End Date
106.00 ft		1992/11/02	1992/11/02

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	106.00

Surface Casing (if applicable)
Plastic
Size OD : 5.00 in
Wall Thickness : 0.500 in
Bottom at : 101.00 ft

Well Casing/Liner
Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal Bentonite Chips/Tablets
Placed from 0.00 ft to 100.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type Stainless Steel
Size OD : 4.00 in

From (ft)	To (ft)	Slot Size (in)
101.00	106.00	0.047

Attachment Attached To Casing
Top Fittings Coupler
Bottom Fittings Plug

Pack
Type Artificial
Grain Size 20-40
Amount 250.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
RUSSELL'S WATERWELL DRILLING

Certification No
1

Copy of Well report provided to owner

Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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GIC Well ID 193984
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1993/06/21

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOLMSON, NOEL	P.O. BOX 3153 ST. PAUL				T0A 3A0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
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
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate 5.00 igpm
Recommended Pump Intake Depth (From TOC) 100.00 ft
Pump Installed
Depth ft
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Well Disinfected Upon Completion
Geophysical Log Taken Electric
Remedial Action Taker
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well

Yield Test

Taken From Ground Level
Depth to water level

Measurement in Imperial

Test Date	Start Time	Static Water Level
1992/11/02	12:00 AM	36.00 ft

Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)

Method of Water Removal

Type Air
Removal Rate 8.00 igpm
Depth Withdrawn From 106.00 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
RUSSELL'S WATERWELL DRILLING

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207188
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1960/06/30

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
KOZICKI, WM	ST. PAUL				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
How Location Obtained
Map

Elevation ft
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Hand Dug

Proposed Well Use
Domestic

Type of Work
Chemistry

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
46.00 ft			

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	46.00

Surface Casing (if applicable)
Wood
Size OD : 30.00 in
Wall Thickness : 0.000 in
Bottom at : 0.00 ft

Well Casing/Liner
Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal
Placed from 0.00 ft to 0.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type
Size OD : 0.00 in

From (ft)	To (ft)	Slot Size (in)

Attachment
Top Fittings
Bottom Fittings

Pack
Type
Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
UNKNOWN DRILLER

Certification No
1

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207188
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1960/06/30

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
KOZICKI, WM	ST. PAUL				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
How Location Obtained
Map

Elevation ft
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Imperial

Distance From Top of Casing to Ground Level in
Is Artesian Flow
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate igpm
Recommended Pump Intake Depth (From TOC) ft
Pump Installed
Depth ft
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Remedial Action Taker
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD Yes

Additional Comments on Well

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
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

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.

GIC Well ID 242614
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1994/10/03

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOMSON, NOEL	ST BRIDES				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
How Location Obtained
Not Verified

Elevation ft
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Domestic

Type of Work
New Well

Formation Log

Measurement in Imperial

Depth from ground level (ft)	Water Bearing	Lithology Description
13.00		Brown Till
141.00		Blue Till
143.00		Dirty Sand
180.00		Gray Till
201.00		Gray Clean Sand

Yield Test Summary

Measurement in Imperial

Recommended Pump Rate 10.00 igpm

Test Date	Water Removal Rate (igpm)	Static Water Level (ft)
1994/06/21	16.00	35.00

Well Completion

Measurement in Imperial

Total Depth Drilled	Finished Well Depth	Start Date	End Date
201.00 ft		1994/06/20	1994/06/21

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	201.00

Surface Casing (if applicable)
Plastic
Size OD : 5.00 in
Wall Thickness : 0.500 in
Bottom at : 191.00 ft

Well Casing/Liner
Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal Bentonite Chips/Tablets
Placed from 0.00 ft to 180.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type Stainless Steel
Size OD : 4.00 in

From (ft)	To (ft)	Slot Size (in)
191.00	196.00	0.039
196.00	201.00	0.000

Attachment Attached To Casing
Top Fittings Coupler
Bottom Fittings Plug

Pack
Type Artificial
Grain Size 16-30
Amount 200.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
RUSSELL'S WATERWELL DRILLING

Certification No
1

Copy of Well report provided to owner

Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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GIC Well ID 242614
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1994/10/03

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
MALCOMSON, NOEL	ST BRIDES				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	SE	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.980575 Longitude -111.545684
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
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate 10.00 igpm
Recommended Pump Intake Depth (From TOC) 180.00 ft
Pump Installed Yes
Type SUB
Depth ft
Make GOULD
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taker
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well

Yield Test

Taken From Ground Level
Depth to water level

Measurement in Imperial

Test Date 1994/06/21
Start Time 12:00 AM
Static Water Level 35.00 ft

Method of Water Removal
Type Air
Removal Rate 16.00 igpm
Depth Withdrawn From 201.00 ft

If water removal period was < 2 hours, explain why

Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
35.00	0:00	100.00
	1:00	95.00
	2:00	90.00
	3:00	85.00
	4:00	80.00
	5:00	75.00
	6:00	70.00
	7:00	68.00
	8:00	68.00
	10:00	63.00
	30:00	35.00

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
RUSSELL'S WATERWELL DRILLING

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207171
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1979/06/25

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
SYDORA, ED	P.O. BOX 1737 ST. PAUL				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	5	2	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.982358 Longitude -111.536233
How Location Obtained
Map

Elevation 2115.00 ft
How Elevation Obtained
Estimated

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Domestic & Stock

Type of Work
New Well

Formation Log

Measurement in Imperial

Depth from ground level (ft)	Water Bearing	Lithology Description
1.00		Topsoil
14.00		Brown Till
44.00		Gray Till
60.00		Fine Grained Sand & Gravel
68.00		Gray Till
80.00		Fine Grained Sand & Gravel
180.00		Gray Till

Yield Test Summary

Measurement in Imperial

Recommended Pump Rate 0.00 igpm

Test Date	Water Removal Rate (igpm)	Static Water Level (ft)
1974/03/06	10.00	18.00

Well Completion

Measurement in Imperial

Total Depth Drilled	Finished Well Depth	Start Date	End Date
180.00 ft		1974/03/06	1974/03/06

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	180.00

Surface Casing (if applicable)
Steel
Size OD : 4.50 in
Wall Thickness : 0.156 in
Bottom at : 76.00 ft

Well Casing/Liner
Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal Unknown
Placed from 0.00 ft to 76.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type Stainless Steel
Size OD : 4.00 in

From (ft)	To (ft)	Slot Size (in)
76.00	80.00	0.015

Attachment Attached To Casing
Top Fittings Coupler
Bottom Fittings Plug

Pack
Type Artificial
Grain Size 10-20
Amount 1000.00 Unknown

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
MCALLISTER WATERWELLS LTD.

Certification No
1

Copy of Well report provided to owner

Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207171
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1979/06/25

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
SYDORA, ED	P.O. BOX 1737 ST. PAUL				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	5	2	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.982358 Longitude -111.536233
How Location Obtained
Map

Elevation 2115.00 ft
How Elevation Obtained
Estimated

Additional Information

Measurement in Imperial

Distance From Top of Casing to Ground Level in
Is Artesian Flow
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate 0.00 igpm
Recommended Pump Intake Depth (From TOC) 47.00 ft
Pump Installed Yes Depth ft
Type SUB Make BERKLY H.P. .33
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth ft
Gas Depth ft
Remedial Action Taken
Well Disinfected Upon Completion
Geophysical Log Taken Electric
Submitted to ESRD Electric

Sample Collected for Potability
Submitted to ESRD Yes

Additional Comments on Well
DRILLER REPORTS MEDIUM HARD WATER

Yield Test

Taken From Ground Level
Measurement in Imperial

Test Date	Start Time	Static Water Level
1974/03/06	12:00 AM	18.00 ft

Depth to water level

Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)

Method of Water Removal

Type Pump
Removal Rate 10.00 igpm
Depth Withdrawn From 26.00 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
MCALLISTER WATERWELLS LTD.

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207214
GoA Well Tag No.
Drilling Company Well ID
Date Report Received
GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	10	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.985999 Longitude -111.548753
How Location Obtained
Field

Elevation 2077.00 ft
How Elevation Obtained
Estimated

Drilling Information

Method of Drilling
Unknown

Proposed Well Use
Unknown

Type of Work
Chemistry

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
0.00 ft			

Borehole

Diameter (in)	From (ft)	To (ft)
0.00	0.00	0.00

Surface Casing (if applicable)

Size OD : 0.00 in
Wall Thickness : 0.000 in
Bottom at : 0.00 ft

Well Casing/Liner

Size OD : 0.00 in
Wall Thickness : 0.000 in
Top at : 0.00 ft
Bottom at : 0.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by

Annular Seal

Placed from 0.00 ft to 0.00 ft
Amount

Other Seals

Type	At (ft)

Screen Type

Size OD : 0.00 in

From (ft)	To (ft)	Slot Size (in)

Attachment
Top Fittings
Bottom Fittings

Pack

Type
Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
UNKNOWN DRILLER

Certification No
1

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Metric | Export to Excel

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.

GIC Well ID 207214
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

GOWN ID

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	10	3	58	11	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 53.985999 Longitude -111.548753
How Location Obtained
Field

Elevation 2077.00 ft
How Elevation Obtained
Estimated

Additional Information

Measurement in Imperial

Distance From Top of Casing to Ground Level in
Is Artesian Flow
Rate igpm
Is Flow Control Installed
Describe

Recommended Pump Rate igpm
Recommended Pump Intake Depth (From TOC) ft
Pump Installed
Depth ft
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD
Remedial Action Taken

Sample Collected for Potability
Submitted to ESRD
Additional Comments on Well

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
UNKNOWN NA DRILLER

Certification No
1

Company Name
UNKNOWN DRILLER

Copy of Well report provided to owner
Date approval holder signed

APPENDIX C

Historical Air Photos

Figure 1: 1950.8.26

Figure 2: 1965.9.28

Figure 3:1970.8.7

Figure 4:1982.10.10

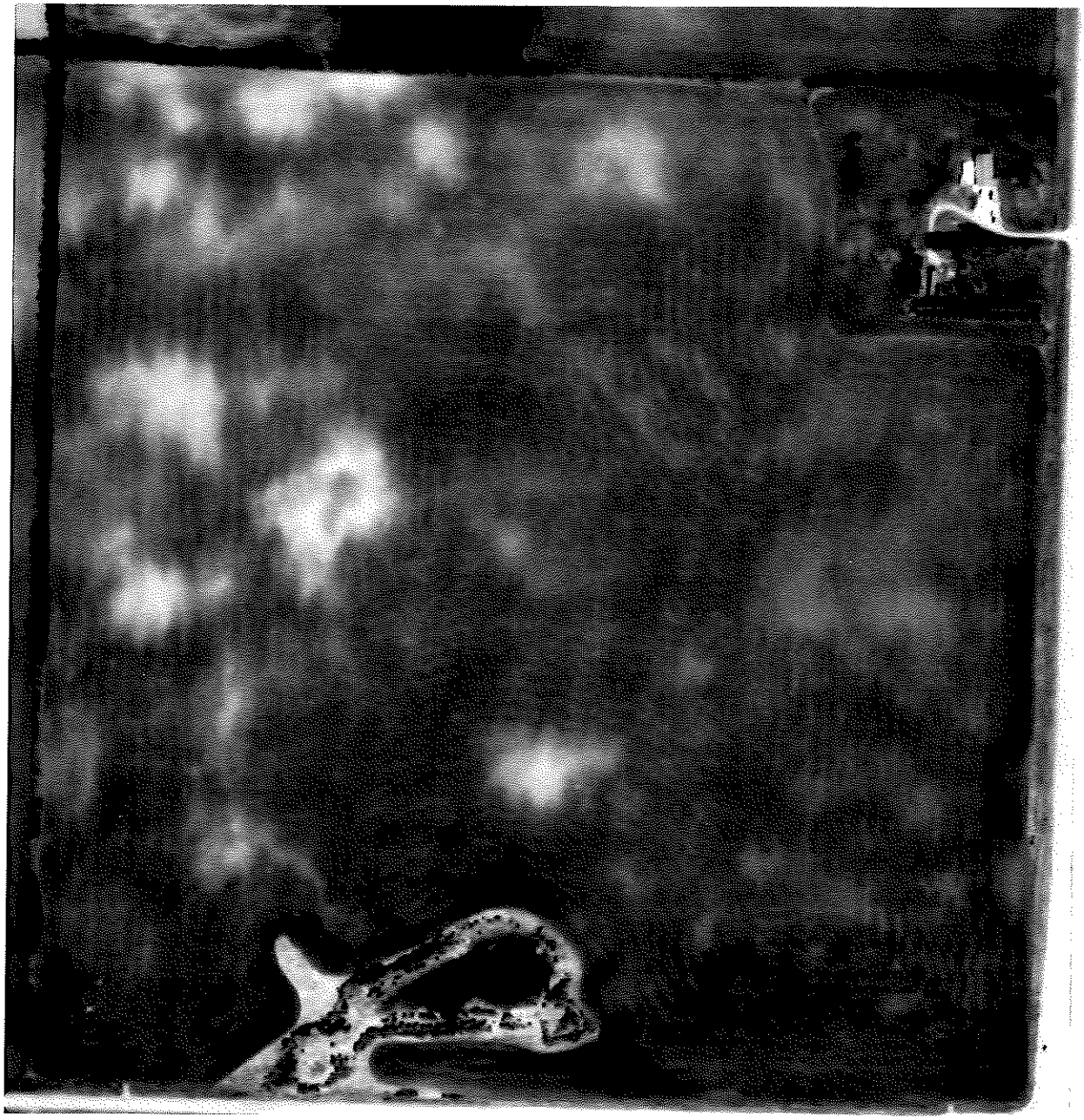


Figure 5:1991.06.06

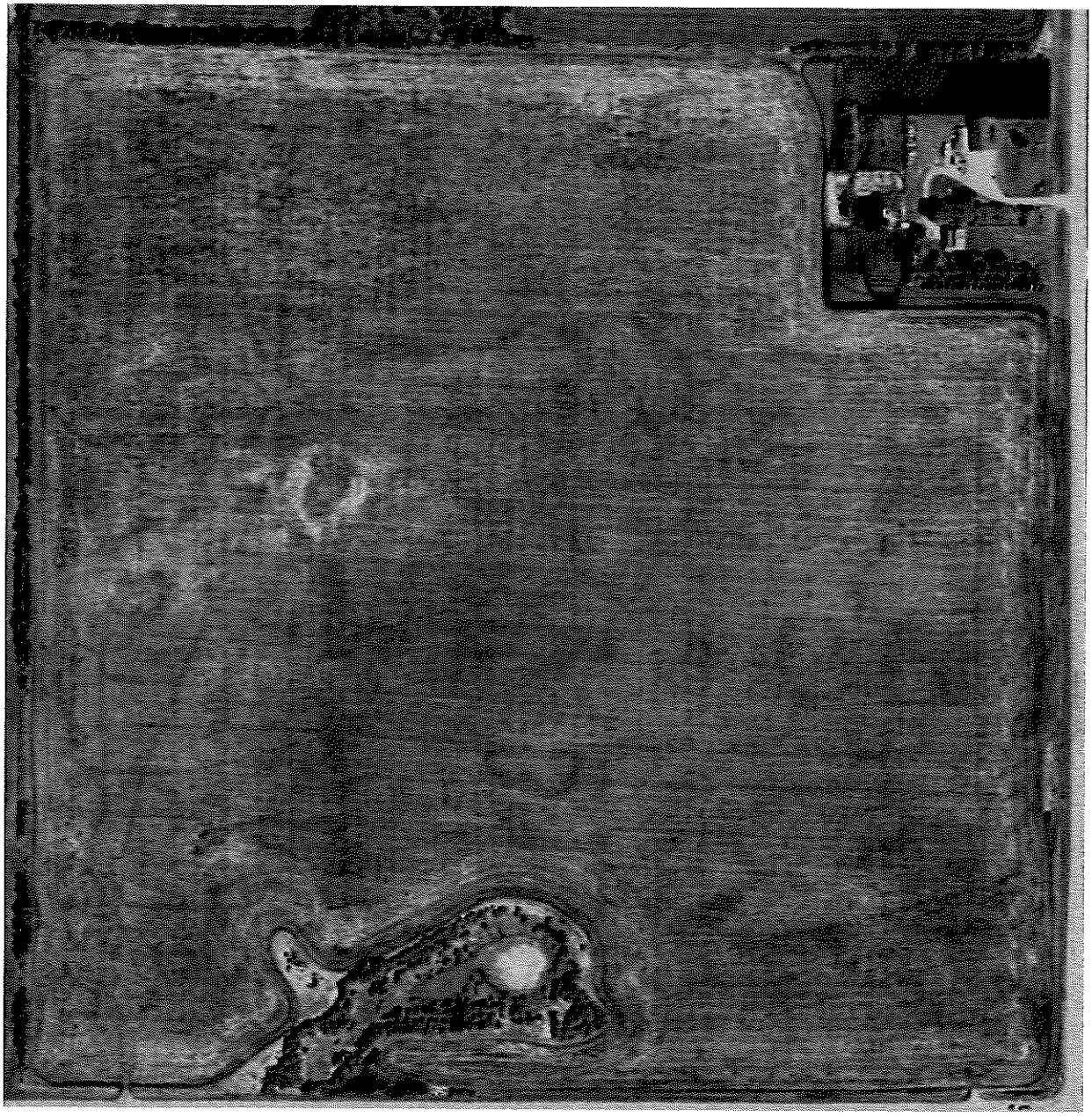


Figure 6:2000.06.17

Figure 7:2007.07.01

APPENDIX D

Historical Land Titles

LAND TITLE CERTIFICATE

M

LINC	SHORT LEGAL	TITLE NUMBER
0023 816 663	4;11;58;3;SE	161M152

LEGAL DESCRIPTION

ALL MINES AND MINERALS WHETHER SOLID, LIQUID OR GASEOUS
WITHIN, UPON OR UNDER:

MERIDIAN 4 RANGE 11 TOWNSHIP 58
SECTION 3
QUARTER SOUTH EAST
IN THE PROVINCE OF ALBERTA, BEING IN THE SURRENDERED
PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125
AND THE RIGHT TO WORK THE SAME

ESTATE: FEE SIMPLE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
161M152	31/12/1954		$1	REF. 207Y67

OWNERS

THE SOLDIER SETTLEMENT BOARD OF CANADA.
OF -

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
762 026 804	17/02/1976	CAVEAT CAVEATOR - ROYAL BANK OF CANADA.
762 026 805	17/02/1976	CAVEAT CAVEATOR - CANADIAN NATURAL RESOURCES LIMITED. BOX 6926, STN D CALGARY ALBERTA T2P2G1

(CONTINUED)

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
		(DATA UPDATED BY: CHANGE OF NAME 982365847)
		(DATA UPDATED BY: CHANGE OF NAME 042215585)
762 026 807	17/02/1976	CAVEAT
		CAVEATOR - AMERICAN EAGLE PETROLEUMS LTD.
762 026 809	17/02/1976	CAVEAT
		CAVEATOR - AL PATTERSON
762 026 810	17/02/1976	CAVEAT
		CAVEATOR - ROYAL BANK OF CANADA.
762 143 789	13/08/1976	CAVEAT
		CAVEATOR - CANADIAN NATURAL RESOURCES LIMITED.
		CALGARY PLACE POSTAL OUTLET
		P.O.BOX 20004
		CALGARY
		ALBERTA T2P4J2
		(DATA UPDATED BY: TRANSFER OF CAVEAT 982039825)
		(DATA UPDATED BY: CHANGE OF ADDRESS 992003151)

TOTAL INSTRUMENTS: 006

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 11 DAY OF FEBRUARY, 2022 AT 01:13 P.M.

ORDER NUMBER: 43678734

CUSTOMER FILE NUMBER: 3518.0029.02

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).

LAND TITLE CERTIFICATE

S

LINC	SHORT LEGAL	TITLE NUMBER
0012 752 812	7921639;1	942 380 488

LEGAL DESCRIPTION
PLAN 7921639
BLOCK 1
EXCEPTING THEREOUT ALL MINES AND MINERALS
AREA: 2.88 HECTARES (7.12 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE
ATS REFERENCE: 4;11;58;3;SE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REFERENCE NUMBER: 822 052 100

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
942 380 488	09/12/1994	TRANSFER OF LAND	$57,000	$57,000

OWNERS

ERNEST EDWARD CHRAPKO

AND
KERRY WYNNE CHRAPKO
BOTH OF:
BOX 73
ST. PAUL
ALBERTA T0A 3A0
AS JOINT TENANTS

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
5154VE	03/12/1974	UTILITY RIGHT OF WAY GRANTEE - ST PAUL LAKELAND NATURAL GAS CO-OP LTD.

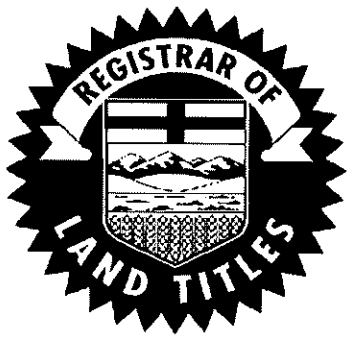
TOTAL INSTRUMENTS: 001

(CONTINUED)

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 11 DAY OF FEBRUARY, 2022 AT 01:13 P.M.

ORDER NUMBER: 43678734

CUSTOMER FILE NUMBER: 3518.0029.02



END OF CERTIFICATE

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LAND TITLE CERTIFICATE

S

LINC	SHORT LEGAL	TITLE NUMBER
0015 365 027	4;11;58;3;SW	192 137 814 +3

LEGAL DESCRIPTION

THE SOUTH WEST QUARTER OF SECTION THREE (3)
TOWNSHIP FIFTY EIGHT (58)
RANGE ELEVEN (11)
WEST OF THE FOURTH MERIDIAN
IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125,
CONTAINING 64.7 HECTARES (160 ACRES), MORE OR LESS.
EXCEPTING THEREOUT:
0.809 HECTARES (2 ACRES) MORE OR LESS AS SHOWN ON ROAD PLAN 5289TR.
EXCEPTING THEREOUT ALL MINES AND MINERALS
AND THE RIGHT TO WORK THE SAME

ESTATE: FEE SIMPLE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REFERENCE NUMBER: 102 150 352

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
192 137 814	20/06/2019	AFFIDAVIT OF SURVIVING JOINT TENANT		

OWNERS

IDA M BRODZIAK
OF BOX 992
ST PAUL
ALBERTA T0A 3A0

AND
DWAYNE DON BRODZIAK
OF 5013-44 AVENUE
ST. PAUL
ALBERTA T0A 3A4
AS JOINT TENANTS

(CONTINUED)

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
6478UU	19/09/1974	UTILITY RIGHT OF WAY GRANTEE - ICG UTILITIES (PLAINS-WESTERN) LTD. "DATA UPDATED BY TRANSFER OF UTILITY RIGHT OF WAY #822122817."
752 101 729	11/08/1975	UTILITY RIGHT OF WAY GRANTEE - ALBERTA POWER LIMITED.
782 018 920	27/01/1978	UTILITY RIGHT OF WAY GRANTEE - CANADIAN NATURAL RESOURCES LIMITED. CALGARY PLACE POSTAL OUTLET P.O.BOX 20004 CALGARY ALBERTA T2P4J2 AS TO PORTION OR PLAN:7722582 "TAKES PRIORITY DATE OF CAVEAT #772043673." (DATA UPDATED BY: TRANSFER OF UTILITY RIGHT OF WAY 942096623) (DATA UPDATED BY: CHANGE OF ADDRESS 982395140)
782 298 285	28/12/1978	CAVEAT CAVEATOR - CANADIAN NATURAL RESOURCES LIMITED. CALGARY PLACE POSTAL OUTLET P.O.BOX 20004 CALGARY ALBERTA T2P4J2 (DATA UPDATED BY: TRANSFER OF CAVEAT 902342647) (DATA UPDATED BY: TRANSFER OF CAVEAT 952028681) (DATA UPDATED BY: TRANSFER OF CAVEAT 962100491) (DATA UPDATED BY: CHANGE OF ADDRESS 992008538)

TOTAL INSTRUMENTS: 004

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 11 DAY OF FEBRUARY, 2022 AT 01:13 P.M.

ORDER NUMBER: 43678734

CUSTOMER FILE NUMBER: 3518.0029.02

REGISTRAR OF LAND TITLES

END OF CERTIFICATE

(CONTINUED)

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).

LAND TITLE CERTIFICATE

S

LINC	SHORT LEGAL	TITLE NUMBER
0014 528 989	4;11;58;3;SE	932 346 813 +2

LEGAL DESCRIPTION

THE SOUTH EAST QUARTER OF SECTION THREE (3)
TOWNSHIP FIFTY EIGHT (58)
RANGE ELEVEN (11)
WEST OF THE FOURTH MERLDIAN, BEING IN THE SURRENDERED
PORT10N OF THE SADDLE LAKE INDIAN RESERVE NO. 125.
EXCEPTING THEREOUT:
(A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 3522JY
(B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PALN 5289TR
(C) 3.35 HECTARES (8.29 ACRES) MORE OR LESS, SUBDIVIDED UNDER
PLAN 7921639
(D) 0.003 HECTARES (0.01 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 8122065.
EXCEPTING THEREOUT ALL MINES AND MINERALS
AND THE RIGHT TO WORK THE SAME

ESTATE: FEE SIMPLE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REFERENCE NUMBER: 832 015 053

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
932 346 813	08/11/1993	TRANSFER OF LAND		SEE INSTRUMENT

OWNERS

544526 ALBERTA LTD.
OF BOX 100, SADDLE LAKE
ALBERTA

(CONTINUED)

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
5154VE	03/12/1974	UTILITY RIGHT OF WAY GRANTEE - ICG UTILITIES (PLAINS-WESTERN) LTD. "DATA UPDATED BY: TRANSFER OF UTRW NO. 822122817"
752 092 943	25/07/1975	UTILITY RIGHT OF WAY GRANTEE - CANADIAN NATURAL RESOURCES LIMITED. CALGARY PLACE POSTAL OUTLET P.O.BOX 20004 CALGARY ALBERTA T2P4J2 AS TO PORTION OR PLAN:7620813 (DATA UPDATED BY: TRANSFER OF UTILITY RIGHT OF WAY 942096623) (DATA UPDATED BY: CHANGE OF ADDRESS 982395065)

TOTAL INSTRUMENTS: 002

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 11 DAY OF FEBRUARY, 2022 AT 01:13 P.M.

ORDER NUMBER: 43678734

CUSTOMER FILE NUMBER: 3518.0029.02

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).

Service Request

Alberta

Land Titles

Box 7575 Calgary
Alberta T2P 2R4
Telephone 403-297-6511

Box 2380 Edmonton
Alberta T5J 2T3
Telephone 780-427-2742

Name

Account or Party Code No. A137278

Cheque Cash

Amount Enclosed

Address Urban Systems
101-134 11th Ave SE
Calgary, AB

Postal Code T2G 0X5

Customer's File No.

Signature of Requester

Return By Fax Call Box No. Mail Courier

Select One

Date year month day

Fax No.

Telephone No. 4037178778

Print Name Cathy Wilson

Description

Fees

Quantity Code

SE 3-58-11-W4

SPR 20
MIR 110

RECEIVED
NOV 1 2013

TOTAL FEES 130

Code
Type of Service Requested
ANAM..... ALTA Name Search
HIST..... Copy of Historical Title
CPLA..... Certified Copy of Plan
BULK..... Bulk Data Service
CODO..... Copy of Document

CCOD..... Certified Copy of Document
PLAO..... Copy of Plan - Ozalid
PLAM..... Copy of Plan - Mylar
MISC..... Miscellaneous Services

L.T.O. Staff Initials W

This information is being collected for the purposes of land titles records in accordance with the *Land Titles Act*. Questions about the collection of this information can be directed to the Freedom of Information and Protection of Privacy Coordinator for the Alberta Government, Box 3140, Edmonton, Alberta T5J 2G7 780-427-2742.

7696961

REG3053 Rev. 2014-09

Land Titles Office

Viana Vecchio

From: Eva Gawrzyjal
Sent: Monday, February 28, 2022 7:53 AM
To: Viana Vecchio
Subject: FW: Historical Land Titles Search SE 3-58-11-4

Hello my friend, this one is for you.
Have a great day.

Classification: Protected A

From: Cathy Wilson <cwilson@urbansystems.ca>
Sent: February 24, 2022 11:49 AM
To: Eva Gawrzyjal <eva.gawrzyjal@gov.ab.ca>
Subject: Historical Land Titles Search SE 3-58-11-4

CAUTION: This email has been sent from an external source. Treat hyperlinks and attachments in this email with care.

Hi Eva,

Can you please pull all of the historical titles for the SE 3-58-11-4.

Our ALTA account number is A137278, and you can provide the title to me by email. Please let me know if you need further information to fulfil this request. Thanks

CATHY WILSON, ALS, CLS **Project Manager**

URBAN SYSTEMS

101 – 134 11th Avenue SE | Calgary, AB T2G 0X5
t 403-717-8718 | **c** 587-581-5222
w urbansystems.ca

Respectfully acknowledging Treaty 7 Territory and the Metis Nation Regional Zone 3.

HISTORICAL LAND TITLE CERTIFICATE

CURRENT TITLE WITH HISTORICAL DATA

S LINC	SHORT LEGAL	TITLE NUMBER
0014 528 989	4;11;58;3;SE	932 346 813 +2

LEGAL DESCRIPTION

THE SOUTH EAST QUARTER OF SECTION THREE (3)
TOWNSHIP FIFTY EIGHT (58)
RANGE ELEVEN (11)
WEST OF THE FOURTH MERLDIAN, BEING IN THE SURRENDERED
PORT1ON OF THE SADDLE LAKE INDIAN RESERVE NO. 125.
EXCEPTING THEREOUT:
(A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 3522JY
(B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PALN 5289TR
(C) 3.35 HECTARES (8.29 ACRES) MORE OR LESS, SUBDIVIDED UNDER
PLAN 7921639
(D) 0.003 HECTARES (0.01 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 8122065.
EXCEPTING THEREOUT ALL MINES AND MINERALS
AND THE RIGHT TO WORK THE SAME

ESTATE: FEE SIMPLE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REFERENCE NUMBER: 832 015 053

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
932 346 813	08/11/1993	TRANSFER OF LAND		SEE INSTRUMENT

OWNERS

544526 ALBERTA LTD.
OF BOX 100, SADDLE LAKE
ALBERTA

(CONTINUED)

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
5154VE	03/12/1974	UTILITY RIGHT OF WAY GRANTEE - ICG UTILITIES (PLAINS-WESTERN) LTD. "DATA UPDATED BY: TRANSFER OF UTRW NO. 822122817"
752 092 943	25/07/1975	UTILITY RIGHT OF WAY GRANTEE - CANADIAN NATURAL RESOURCES LIMITED. CALGARY PLACE POSTAL OUTLET P.O.BOX 20004 CALGARY ALBERTA T2P4J2 AS TO PORTION OR PLAN:7620813 (DATA UPDATED BY: TRANSFER OF UTILITY RIGHT OF WAY 942096623) (DATA UPDATED BY: CHANGE OF ADDRESS 982395065)
802 195 513	27/08/1980	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. ORIGINAL PRINCIPAL AMOUNT: $270,000
872 067 357	31/03/1987	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. BOX 1960, ST. PAUL ALBERTA T0A3A0 ORIGINAL PRINCIPAL AMOUNT: $400,000
882 085 162	25/04/1988	AMENDING AGREEMENT AFFECTS INSTRUMENT: 872067357
902 227 386	01/08/1990	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. BOX 1960, ST. PAUL ALBERTA T0A3A0 ORIGINAL PRINCIPAL AMOUNT: $100,000
932 346 817	08/11/1993	MORTGAGE MORTGAGEE - THE TORONTO DOMINION BANK. 4901 - 50 AVENUE ST. PAUL ALBERTA T0A3A0 ORIGINAL PRINCIPAL AMOUNT: $552,000
932 354 012	15/11/1993	DISCHARGE OF MORTGAGE 872067357 AND AMENDING AGREEMENT 882085162
932 354 013	15/11/1993	DISCHARGE OF MORTGAGE 902227386
932 354 014	15/11/1993	DISCHARGE OF MORTGAGE 802195513
942 096 623	06/04/1994	TRANSFER OF UTILITY RIGHT OF WAY 752092943 TRANSFEREE - CANADIAN NATURAL RESOURCES LIMITED.

(CONTINUED)

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
982 395 065	22/12/1998	CHANGE OF ADDRESS FOR SERVICE RE: CANADIAN NATURAL RESOURCES LIMITED. CALGARY PLACE POSTAL OUTLET P.O.BOX 20004 CALGARY ALBERTA T2P4J2 AFFECTS INSTRUMENT: 752092943
132 110 592	19/04/2013	DISCHARGE OF MORTGAGE 932346817

TOTAL INSTRUMENTS: 013

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 1 DAY OF MARCH, 2022 AT 11:27 A.M.

ORDER NUMBER: 43803244

CUSTOMER FILE NUMBER: 7696961

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).

HISTORICAL LAND TITLE CERTIFICATE

TITLE CANCELLED ON NOVEMBER 08,1993

S LINC	SHORT LEGAL	TITLE NUMBER
0014 528 989	4;11;58;3;SE	832 015 053

LEGAL DESCRIPTION

THE SOUTH EAST QUARTER OF SECTION THREE (3)
TOWNSHIP FIFTY EIGHT (58)
RANGE ELEVEN (11)
WEST OF THE FOURTH MERLDIAN, BEING IN THE SURRENDERED
PORT10N OF THE SADDLE LAKE INDIAN RESERVE NO. 125.
EXCEPTING THEREOUT:
(A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 3522JY
(B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PALN 5289TR
(C) 3.35 HECTARES (8.29 ACRES) MORE OR LESS, SUBDIVIDED UNDER
PLAN 7921639
(D) 0.003 HECTARES (0.01 ACRES) MORE OR LESS, AS SHOWN ON ROAD
PLAN 8122065.
EXCEPTING THEREOUT ALL MINES AND MINERALS
AND THE RIGHT TO WORK THE SAME

ESTATE: FEE SIMPLE

MUNICIPALITY: COUNTY OF ST. PAUL NO. 19

REGISTERED OWNER(S)

REGISTRATION	DATE(DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
832 015 053	21/01/1983		$100,000	

OWNERS

O'NEILL BROS. INVESTMENTS LTD.
OF BOX 972, ST. PAUL
ALBERTA

(CONTINUED)

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
5154VE	03/12/1974	UTILITY RIGHT OF WAY GRANTEE - ICG UTILITIES (PLAINS-WESTERN) LTD. "DATA UPDATED BY: TRANSFER OF UTRW NO. 822122817"
752 092 943	25/07/1975	UTILITY RIGHT OF WAY GRANTEE - ASHLAND OIL CANADA LIMITED. AS TO PORTION OR PLAN:7620813
802 195 513	27/08/1980	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. ORIGINAL PRINCIPAL AMOUNT: $270,000
872 067 357	31/03/1987	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. BOX 1960, ST. PAUL ALBERTA T0A3A0 ORIGINAL PRINCIPAL AMOUNT: $400,000
882 085 162	25/04/1988	AMENDING AGREEMENT AFFECTS INSTRUMENT: 872067357
902 227 386	01/08/1990	MORTGAGE MORTGAGEE - ROYAL BANK OF CANADA. BOX 1960, ST. PAUL ALBERTA T0A3A0 ORIGINAL PRINCIPAL AMOUNT: $100,000
922 196 882	09/07/1992	CERTIFICATE OF LIS PENDENS AFFECTS INSTRUMENT: 872067357
932 226 231	30/07/1993	DISCHARGE OF CERTIFICATE OF LIS PENDENS 922196882
932 346 813	08/11/1993	TRANSFER OF LAND OWNERS - 544526 ALBERTA LTD. BOX 100, SADDLE LAKE ALBERTA NEW TITLE ISSUED

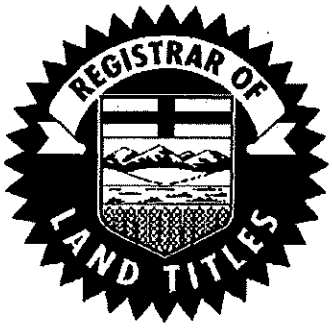
TOTAL INSTRUMENTS: 009

(CONTINUED)

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 1 DAY OF MARCH, 2022 AT 11:27 A.M.

ORDER NUMBER: 43803244

CUSTOMER FILE NUMBER: 7696961



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).

Certificate of Title

NO.	8	3	2	0	1	5	0	5	3
PCF	7	9	2	2	3	3	5	3	2
VALUE $		1	0	0	0	0	0	0	0

W	RG.	TWP	SEC.	Q.	PT.
4	1	1	5	8	3	5	E		-

PLAN	BLK	LOT	PT.

Canada

GOVERNMENT OF THE PROVINCE OF ALBERTA

North Alberta Land Registration District

THIS IS TO CERTIFY that O'NEILL BROS. INVESTMENTS LTD.

IS now the owner of an estate in fee simple

of and in

THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN, BEING IN THE SURRENDERED

PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125.

EXCEPTING THEREOUT:

(A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 J.Y.

(B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN

5289 T.R.

(C) 3.35 HECTARES (8.29 ACRES) MORE OR LESS, SUBDIVIDED UNDER PLAN 792 1639.

(D) 0.003 HECTARES (0.01 ACRES) MORE OR LESS, AS SHOWN ON ROAD

PLAN 812 2065.

EXCEPTING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO

WORK THE SAME.

CANCELLED AND CONVERTED
JUL 27 1990
By...

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM UNDERWRITTEN OR ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seal

this 21 day of JANUARY A.D. 19 83

Post Office Address BOX 972,

ST. PAUL, ALBERTA.

AD Registrar

RF

North Alberta Land Registration District

A.G. 1025 (DEC 80)

ABBREVIATIONS

E – Easement
C – Caveat
Tr – Transmission
Tfr – Transfer
Mtge – Mortgage
URW – Utility Right of Way
BL – Builders Lien
TN – Tax Notification
WE – Writ of Execution
C.C. – Covenants and Conditions
ENCUM – Encumbrance

Certificate of Title

Show Other Abbreviations Here

NAME O'NEILL BROS. INVESTMENTS LTD.

LAND W.4TH - 11 - 58 - 3 - S.E.-

TITLE NO. 83201505 3

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DY	MO	YR	Amount $	PARTICULARS	Signature of Registrar	Discharges and Withdrawals: Registration Number	Date of Registration DY	MO	YR	Signature of Registrar
E.	5154 VE	3	12	74		IN FAVOR OF ST. PAUL LAKELAND NATURAL GAS CO-OP LTD.						
E.	752092943	25	7	75		PLAN 762 0813 IN FAVOR OF ASHLAND OIL CANADA LTD.						
MTGE.	802195513	27	8	80	270,000.00	TO THE ROYAL BANK OF CANADA						
TFR. OF E.	822122817	2	6	82		E. 5154 V.E. TO ICG UTILITIES (PLAINS-WESTERN) LTD.						
MTGE.	872067357	31	3	87	$400,000.00	TO THE ROYAL BANK OF CANADA BOX 1960, ST. PAUL, AB T0A 3A0						
AMENDING AGREEMENT	882085162	25	4	88		AMENDING AGREEMENT RE MORTGAGE 872067357						

CANCELLED AND CONVERTED
JUL 27 1990
By .....

Certificate of Title

CANCELLED

Canada

RENEWAL

812216511

NO.	7	9	2	2	3	3	5	3	2
REG.	7	9	2	2	3	3	5	3	1
VALUE $			6	8	0	0	0	0	0

M.	RG.	TWP.	SEC.	Q.	PT.
4	1	1	5	8	3	S	E

PLAN	BLK.	LOT	PT.

North Alberta Land Registration District

THIS IS TO CERTIFY that PATRICK M. O'NEILL AND BERNARD O'NEILL,

BOTH OF ST. PAUL, IN THE PROVINCE OF ALBERTA

ARE now the owner S of an estate in fee simple AS TO EACH AN UNDIVIDED ONE HALF (½) INTEREST

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN, BEING IN THE SURRENDERED

PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125.

EXCEPTING THEREOUT: A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 J.Y.
B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 5289 T.R.
C) 3.35 HECTARES (8.29 ACRES) MORE ORLESS, SUBDIVIDED UNDER PLAN 792 1639.
D) 0.003 HECTARES (0.01 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 812 2065.

EXCEPTING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME.

TITLE CANCELLED No 832015053
on this 21 day of Jan 1983
A.D. Registrar

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM UNDERWRITTEN OR ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seal

this 25TH day of SEPTEMBER A.D. 19 79

Post Office Address ST. PAUL, ALBERTA

JO

AD Registrar

North Alberta Land Registration District

AG 699
Rev 7/77

ABBREVIATIONS

E – Easement
C – Caveat
Tr – Transmission
Tfr – Transfer
Mtge – Mortgage
URW – Utility Right of Way
BL – Builders Lien
TN – Tax Notification
WE – Writ of Execution
C.C. – Covenants and Conditions
ENCUM – Encumbrance

Certificate of Title

CANCELLED

NAME PATRICK M. O'NEILL ET AL

LAND 4 - 11 - 58 - 3 - S.E. -

Show Other Abbreviations Here

TITLE NO. 7 9 2 2 3 3 5 3 2

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DY	MO	YR	Amount $	PARTICULARS	Signature of Registrar	Discharges and Withdrawals: Registration Number	Date of Registration DY	MO	YR	Signature of Registrar
E	5154 V.E.	3	12	74		IN FAVOR OF ST. PAUL LAKELAND NATURAL GAS CO-OP LTD.						
E	752092943	25	7	75		PLAN 762 0813 IN FAVOR OF ASHLAND OIL CANADA LTD.						
MTGE	802195513	27	8	80	270,000.00	TO THE ROYAL BANK OF CANADA						
TFR OF ENCUM	822122817	2	6	82		#5154 VE TO ICG UTILITIES (PLAINS-WESTERN) LTD.						

CANCELLED

Certificate of Title

NO.	7	9	2	2	3	3	5	3	2
REF	7	9	2	2	3	3	5	3	1
VALUE $			6	8	0	0	0	0	0

Canada
EXT. REF.
145-L-264

	M	RG	TWP.	SEC	Q.	PT.
1	4	1	5	3	S E	-

	PLAN	BLK.	LOT	PT.
2				

North Alberta Land Registration District

THIS IS TO CERTIFY that PATRICK M. O'NEILL AND BERNARD O'NEILL, BOTH OF ST. PAUL, IN THE PROVINCE OF ALBERTA.

ARE now the owners of an estate in fee simple AS TO EACH AN UNDIVIDED ONE-HALF (½) INTEREST.

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY-EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN.

BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125.

EXCEPTING THEREOUT:

(A) 1.04 HECTARES (2.57 ACRES), MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 J.Y.

(B) 0.793 HECTARES (1.96 ACRES), MORE OR LESS, AS SHOWN ON ROAD PLAN 5289 T.R.

(C) 3.35 HECTARES (8.29 ACRES), MORE OR LESS, AS SHOWN ON SUBDIVISION PLAN 792 1639.

EXCEPTING THEREOUT ALL MINES AND MINERALS

TOGETHER WITH FULL POWER TO WORK THE SAME.

TITLE CANCELLED 812216511 AS TO 0.003 HA. (0.01 ACS.) UNDER ROAD PLAN 812 2065 on this 10TH day of SEPT. 1981

JO A. D. Registrar

TITLE CANCELLED UNDER RENEWAL AS TO REMAINDER & IN FULL on this 10TH day of SEPT. 1981

JO A. D. Registrar

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM UNDERWRITTEN OR ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seal

this 25TH day of SEPTEMBER, A.D. 1979

Post Office Address ST. PAUL, ALTA.

Registrar

NORTH ALBERTA LAND REGISTRATION DISTRICT LAND TITLES OFFICE

AG 699
Rev 7/77

North Alberta Land Registration District
MT

ABBREVIATIONS

E – Easement
C – Caveat
Tr – Transmission
Trf – Transfer
Mtge – Mortgage
URW – Utility Right of Way
BL – Builders Lien
TN – Tax Notification
WE – Writ of Execution
C.C. – Covenants and Conditions
ENCUM – Encumbrance

Certificate of Title

Show Other Abbreviations Here

NAME PATRICK M. O'NEILL ET AL

LAND 4 - 11 - 58 - 3 - S.E.

TITLE NO 7 9 2 2 3 3 5 3 2

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DY	MO	YR	Amount $	PARTICULARS	Signature of Registrar	Discharges and Withdrawals: Registration Number	Date of Registration DY	MO	YR	Signature of Registrar
E.	5154 V.E.	3	12	74		IN FAVOUR OF ST. PAUL LAKELAND NATURAL GAS CO-OP LTD.						
E.	752092943	25	7	75		(PT. AS TO PLAN 762 0813) IN FAVOUR OF ASHLAND OIL CANADA LTD.						
C.	792133121	12	6	79		BY HER MAJESTY THE QUEEN, AS REPRESENTED BY THE MINISTER OF TRANSPORTATION.		812216510	10	9	81	
MTGE.	792233533	25	9	79	160,000.00	TO THE ROYAL BANK OF CANADA.		802223799	25	9	80	
C	792305407	10	12	79		BY THE ROYAL BANK OF CANADA		802223798	25	9	80	
MTGE	802195513	27	8	80	270,000.00	TO THE ROYAL BANK OF CANADA						
						CANCELLED						

CANCELLED

Certificate of Title

REINSTAT

792 332 072

North Alberta Land Registration District

THIS IS TO CERTIFY that ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION

IS now the owner of an estate in fee simple

of and in

TITLE CANCELLED No. 792 333 531 In full on this 25 day of Sept 1979 A.D. Registrar

THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN

BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE. NO. 125.

EXCEPTING THEREOUT:
(A) 1.04 HECTARES (2.57 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 J.Y.
(B) 0.793 HECTARES (1.96 ACRES) MORE OR LESS, AS SHOWN ON ROAD PLAN 5289 T.R.
(C) 3.35 HECTARES (8.29 ACRES) MORE OR LESS, AS SHOWN ON SUBDIVISION PLAN 792 1639.

EXCEPTING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME.

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM UNDERWRITTEN OR ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seal

this 25TH day of MAY A.D. 19 73

Post Office Address 4910 - 52 STREET,

CAMROSE, ALBERTA T4V 2V4

BP

AD Registrar

North Alberta Land Registration District

NORTH ALBERTA LAND REGISTRATION DISTRICT LAND TITLES OFFICE

ABBREVIATIONS

E Easement	ORW Utility Right of Way
C Caveat	BL Builders Lien
Tr Transmission	TN Tax Notification
Tfr Transfer	WE Writ of Execution
Mtg Mortgage	CC Covenants and Conditions
	ENCUM Encumbrance

Certificate of Title CA

Show Other Abbreviations Here

NAME ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION

LAND W.4TH - 11 - 58 - 3 - SE (-)

TITLE NO 1 4 5 - - 2 6 4

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DD	MM	YR	Amount $	Particulars	Discharges and Withdrawals
E	5154 V.E.	5	12	74		IN FAVOR OF ST. PAUL LAKELAND NATURAL GAS CO-OP LTD.	
C	752040489	17	4	75		BY ALBERTA AGRICULTURAL DEV. CORP.	792211720 31 8 79
E	752092943	25	7	75		(PT. AS TO PLAN 762 0813) IN FAVOR OF ASHLAND OIL CANADA LTD.	
C	772151495	10	8	77		BY ALBERTA AGRICULTURAL DEV. CORP.	792211721 31 8 79
C	792133121	12	6	79		BY HER MAJESTY THE QUEEN, AS REPRESENTED BY THE MINISTER OF TRANSPORTATION	

CANCELLED

Certificate of Title

NO. 145 L. 264
REF. 144 L. 264
VALUE $ 24500 00

Canada

RENEWAL:
782083811
78-4-24

1 M 4 RG. 11 TWP. 58 SEC. 3 Q. SE PT. L

2 M PLAN BLK. LOT PT.

North Alberta Land Registration District

THIS IS TO CERTIFY that ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION

IS now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN, BEING IN THE SURRENDERED

PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125

EXCEPTING THEREOUT: (A) TWO AND FIFTY SEVEN HUNDREDTHS (2.57) ACRES MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 J.Y.
(B) ONE AND NINETY-SIX HUNDREDTHS (1.96) ACRES, MORE OR LESS, AS SHOWN ON ROAD PLAN 5289 T.R.

EXCEPTING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME AS SET FORTH IN TRANSFER 4458 L.T.

TITLE CANCELLED No 792152077
5.35 HA(8.29 AC) UNDER PLAN 792 1639
on this 3RD day of JULY 19 79
A.D. Registrar BP

TITLE CANCELLED No UNDER RENEWAL
AS TO REMAINDER AND IN FULL
on this 3RD day of JULY 19 79
A.D. Registrar BP

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM UNDERWRITTEN OR ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seal

this 25 day of MAY A.D. 19 73

Post Office Address 4910 - 52 STREET,
CAMROSE, ALTA. T4V 2V4

LW

AD Registrar

North Alberta Land Registration District

AS 609
Rev. 7-72

ABBREVIATIONS

E Easement	URW Utility Right of Way
C Caveat	BL Builders Lien
Tr Transmission	TN Tax Notification
Tr Transfer	WE Writ of Execution
Mtge Mortgage	C&C Covenants and Conditions
	ENCUM Encumbrance

Certificate of Title CANCELLED

Show Other Abbreviations Here

NAME ALBERTA AGRICULTURAL DEV. CORP.

LAND 4-11-58-3-S.E. -

TITLE NO. 145L264

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DY	MO	YR	Amount $	PARTICULARS	Signature of Registrar	Discharges and Withdrawals: Registration Number	Date of Registration DY	MO	YR	Signature of Registrar
RE LIEN	2178 GZ	12	7	37		IN FAVOUR OF M.D. OF CHAMPLAIN		792036303	16	2	79	
C.	7654 KW	16	4	58		BY WILLIAM KOZICKI & MARY KOZICKI		792036304	16	2	79	
RE LIEN	7428 NZ	23	10	61		IN FAVOUR OF THE ST. BRIDES R.E. ASSOC. LTD.		792100701	7	5	79	
E.	5154 VE	3	12	74		IN FAVOUR OF ST. PAUL LAKELAND NAT. GAS CO-OP LTD.						
C.	752040489	17	4	75		BY ALBERTA AGRICULTURAL DEV. CORP.						
E.	752092943	25	7	75		PT. AS TO PLAN 762 0813 IN FAVOUR OF ASHLAND OIL CANADA LTD.						
WE	762212918	12	7	75	3,522.50 & COSTS	DON DANARD LIVESTOCK CO. LTD. VS MARY KOZICKI (MEMO: 975877)						
C.	772151495	10	8	77		BY ALBERTA AGRICULTURAL DEV. CORP.						
C	792133121	12	6	79		DISC AS TO PT. ON PLAN 792 1639 — 792152075 — 3-JULY-1979 BY HER MAJESTY THE QUEEN, AS REPRESENTED BY THE MINISTER OF TRANSPORTATION						

CANCELLED

CANCELLED
Certificate of Title

NO. 14 5 - 1 - 2 6 A
REF. 14 5 - 1 - 2 6 A
VALUE $ 2 4 5 0 0 0 0

	M	RG.	TWP.	SEC.	Q.	PT.
1	4	1	5	3	F	-

	PLAN	BLK.	LOT	PT.
2				

Canada
PROVINCE
OF ALBERTA

GOVERNMENT OF THE PROVINCE OF ALBERTA

North Alberta Land Registration District

THIS IS TO CERTIFY that ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION

IS now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58)

RANGE ELEVEN (11)

WEST OF THE FOURTH MERIDIAN, BEING THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125

EXCEPTING THEREOUT:

(A) TWO AND FIFTY SEVEN HUNDREDTHS (2.57) ACRES, MORE OR LESS, AS SHOWN ON ROAD PLAN 3522 A.Y.

(B) ONE AND NINETY-SIX HUNDREDTHS (1.96) ACRES, MORE OR LESS, AS SHOWN ON ROAD PLAN 5229 T.R.

RESERVING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME AS SET FORTH IN TRANSFER 3652 L.T.

TITLE CANCELLED No Under
Renewal in Full
on this 24 day of April 1978
A.D. Registrar

SUBJECT TO THE ENCUMBRANCES, LIENS, ESTATES OR INTERESTS NOTIFIED BY MEMORANDUM ENDORSED HEREON, OR WHICH MAY HEREAFTER BE MADE IN THE REGISTER.

IN WITNESS WHEREOF I have hereunto subscribed my name and affixed my official seat

this TWENTY-FIFTH day of MAY, A.D. 1977.

Post Office Address 6010 - 52ND STREET,
CAMROSE, ALTA. T4V 2V6

ALBERTA LAND REGISTRATION DISTRICT NORTH LAND TITLES OFFICE

R R Rubrow AD. Registrar

North Alberta Land Registration District

MT

A.G. 699 V 1233
REV. 7-75

ABBREVIATIONS

E – Easement
C – Caveat
Tr – Transmission
Tfr – Transfer
Mtge – Mortgage
URW – Utility Right of Way
BL – Builders Lien
TN – Tax Notification
WE – Writ of Execution
C.C. – Covenants and Conditions
ENCUM – Encumbrance

Certificate of Title

NAME ALBERTA AGRICULTURAL DEV. CORP.

LAND 6 - 11 - 58 - 5 - S.E.

Show Other Abbreviations Here

TITLE NO. 1[illegible]5-4-2[illegible]4

CHARGES, LIENS AND INTERESTS.

Nature of Instrument	Registration Number	Date of Registration DY	MO	YR	Amount $	PARTICULARS	Signature of Registrar	Discharges and Withdrawals: Registration Number	Date of Registration DY	MO	YR	Signature of Registrar
RE LIEN	7[illegible] W.T.	19	7	77		IN FAVOUR OF M.D. OF CHAMPLAIN						
C.	7[illegible] W.W.	26	6	59		BY WILLIAM KOZICKI & MARY KOZICKI						
RE LIEN	7[illegible] W.T.	23	10	61		IN FAVOUR OF THE ST. BRIDES P.F. ASSOC. LTD.						
C.	5151 W.T.	7	12	70		IN FAVOUR OF ST. PAUL LAKELAND NAT. GAS CO-OP. LTD.						
C.	7[illegible]	17	6	75		BY ALBERTA AGRICULTURAL DEV. CORP.						
E.	7[illegible]	25	7	75		IN FAVOUR OF ASPLAND OIL CANADA LTD.		782051265	13	3	78	
WE.	7[illegible]	1	12	77	3,522.50 & COSTS	DON DAVARD LIVESTOCK CO. LTD. VS MARY KOSICKI (MEMO 8/6/77)						
C.	7[illegible]	19	9	77		BY ALBERTA AGRICULTURAL DEV. CORP.						

CANCELLED

LAND TITLES ACT, Sec. 64 -- The land mentioned in any certificate of title granted under this Act shall be subject to such of the following matters as may be notified by memorandum underwritten or endorsed thereon, but shall be free from all other encumbrances, liens and interests whatsoever, except the interest of the person named in the certificate:
(a) Any subsisting reservations or exceptions including royalties contained in the original grant of the land from the Crown;
(b) All unpaid taxes, including irrigation and drainage district rates;
(c) Any public highway or right-of-way or other public easement, howsoever created upon, over or in respect of the land;
(d) Any subsisting lease or agreement for a lease for a period not exceeding three years, where there is actual occupation of the land under the same;
(e) Any decrees, orders or executions against or affecting the interest of the owner of the land which have been registered and maintained in force against the owner;
(f) Any right of expropriation which may by statute be vested in any person, body corporate, or Her Majesty;
(g) Any right-of-way or other easement granted or acquired under the provisions of any Act or law in force in the Province.

145-L-264

CANCELLED

GOVERNMENT OF THE PROVINCE OF ALBERTA

Issued on instrument registered at 2.58 o'clock P m. on the 25 day of MAY A.D. 19 73 Number 2466 Book U.A. Folio 77

E.F. GAMACHE
Registrar, N.A.L.R.D.

145

M

'M

Certificate of Title

Assce. Fund Value $24,500.00

Refer Cert. No. 144-L-264

JUN 1 1973

North Alberta Land Registration District

This is to Certify that ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION

IMPORTANT NOTICE
It will be to the interest of every Owner and Mortgagee to furnish the Land Titles Office, Edmonton, with his full address (Post Office and Street number) or any change in address where Notices of dealings with this Title may be sent

is now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3) TOWNSHIP FIFTY EIGHT (58) RANGE ELEVEN (11) WEST OF THE FOURTH MERIDIAN IN THE PROVINCE OF ALBERTA, CANADA, BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125, EXCEPTING THEREOUT... TWO AND FIFTY SEVEN HUNDREDTHS (2.57) ACRES MORE OR LESS AS SHOWN ON ROAD PLAN 3522 J.Y.

RESERVING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME AS SET FORTH IN TRANSFER 4458 L.T.

TITLE CANCELLED No.
IN FULL UNDER RENEWAL
on this 10TH day of AUGUST 1977
R R Gibson
A.D. Registrar

subject to the encumbrances, liens and interests notified by memorandum underwritten or endorsed hereon, or which may hereafter be made in the register

In Witness Whereof I have hereunto subscribed my name and affixed my official seal this TWENTY-FIFTH day of MAY A.D. 19 73

CORRECTED this 14 day of Nov 19 75
by [illegible] AD REG.

LY

A.D. Registrar

P.O. Address [illegible] 4910-52ND STREET CAMROSE, ALBERTA T4V 2V4

North Alberta Land Registration District

2178 G.Z. AGR. RE. LIEN REG. 12-JUL-37 BY M.D. OF CHAMPLAIN.
7654 K.W. CAVEAT DATED 13-FEB-58 REG. 2.39 PM 16-APR-58 WITHIN LAND BY WILLIAM KOZICKI AND MARY KOZICKI C/O JOHN L. LAGASSE, ST. PAUL, ALTA.
7428 N.Z. LIEN DATED 10-OCT-61 REG. 10.16 AM 23-OCT-61 WITHIN & OTHER LAND IS SUBJ. TO A LIEN UNDER THE R.E.R. FUND ACT IN FAVOUR OF THE ST. BRIDES R.E. ASSOC. LTD.

OVER

The title of Within land
is subject to an easement in favour of
St. Paul Lakeland Nat. Gas Co-op Ltd
dated the 11 day of Nov 1974
Registered at 2:17 P.M., the 3 day of
Dec 1974 D. S. No. 5154VE
Registrar

THIS CERTIFICATE OF TITLE
As to 1.96 Ac.
under Plan
IN ACCORDANCE WITH THE PROVISIONS OF THE SUBJECT TO ANY ENCUMBRANCES, LIENS AND INTERESTS NOTED ON THE ORIGINAL CERTIFICATE OF TITLE NO.
ISSUED THIS 10 DAY OF Jan 1975
TO Mc Craw
DB. 5288TK
90 10 Registrar

CAVEAT Reg. No. 752044468
on this 17 day of April 1975
by Alberta Agricultural Development Corporation
A.D. Registrar

M

EASEMENT REG. NO. 752092943
25-7-75 TO ASHLAND OIL CANADA LTD.
J. Wendo ADR/MD

WRIT OF EXECUTION- REG.NO. 762212918
1 DEC. 76 DON DANARD LIVESTOCK CO. LTD.
VS. MARY KOZICKI FOR $3,622.50 & COSTS
(MEMO 9/6/77)
ADR/KK
M

144-L-264

CANCELLED

144

LAND TITLES ACT, Sec. 84 — The land mentioned in any certificate of title granted under this Act shall be held subject to—
(a) Any subsisting reservations or exceptions including royalties contained in the original grant of the land from the Crown;
(b) All unpaid taxes, including irrigation and drainage district rates;
(c) Any public highway or right-of-way or other public easement, howsoever created upon, over or in respect of the land;
(d) Any subsisting lease or agreement for a lease for a period not exceeding three years, where there is actual occupation of the land under the same;
(e) Any charge, order or execution against or affecting the interest of the owner of the land which have been registered and maintained in force against the owner;
(f) Any right of expropriation which may by statute be vested in any person, body corporate, or the Crown;
(g) Any right-of-way or other easement granted or acquired under the provisions of any Act or law in force in the Province.

GOVERNMENT OF THE PROVINCE OF ALBERTA

Issued on instrument registered at 2.55 12 o'clock P m. on the 25 day of MAY A.D. 19 73 Number 2465 Book U.A. Folio 77

E.P. GAMACHE
Registrar, N.A.L.R.D.

Certificate of Title

Assoc. Fund Value $5,500.00

Refer Cert. No. 185-R-179

North Alberta Land Registration District JUN 1 1973

This is to Certify that MARY KOZICKI

IMPORTANT NOTICE
It will be to the interest of every Owner and Mortgagee to locate the Land Titles Office, Edmonton, with the full address (Post Office and Street number) of any change in address whose Notice of dealings with this Title may be sent.

(WIDOW) OF ST.PAUL, IN THE PROVINCE OF ALBERTA, CANADA

is now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3) TOWNSHIP FIFTY EIGHT (58) RANGE ELEVEN (11) WEST OF THE FOURTH MERIDIAN IN THE SAID PROVINCE, BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125, EXCEPTING THEREOUT...

TWO AND FIFTY SEVEN HUNDREDTHS (2.57) ACRES MORE OR LESS AS SHOWN ON ROAD PLAN 3522 J.Y.

RESERVING THEREOUT ALL MINES AND MINERALS TOGETHER WITH FULL POWER TO WORK THE SAME AS SET FORTH IN TRANSFER 4458 L.T.

CANCELLED

THIS CERTIFICATE OF TITLE IS CANCELLED IN FULL IN ACCORDANCE WITH THE TRANSFER SUBJECT TO ANY EXCEPTIONS AND/OR RESERVATIONS THEREIN AND A NEW CERTIFICATE OF TITLE NO. 145-L-264 ISSUED THIS 25 DAY OF MAY 1973 TO ALBERTA AGRICULTURAL DEVELOPMENT CORPORATION 2466 U.A. J.IRVINE
AD REGISTRAR

subject to the encumbrances, liens and interests notified by memorandum underwritten or endorsed hereon, or which may hereafter be made in the register.

In Witness Whereof I have hereunto subscribed my name and affixed my official seal this TWENTY-FIFTH day of MAY A.D. 19 73

LY

A.D. Registrar
North Alberta Land Registration District

R.O. Address ST. PAUL, ALBERTA.

...ED BY H.D. DE CHAMPLAIN.

185-R-179

LAND TITLES ACT, Sec. 91 — The land mentioned in any certificate of title granted under this Act shall be subject to such of the exceptions and reservations mentioned in section 91 as may be applicable thereto, and to such other exceptions and reservations as may be set forth in such certificate, viz:

a) Any existing reservations or exceptions including royalties contained in the original grant of the land from the Crown;
b) All roads or trails established by authority;
c) Any public highway or right-of-way or other public easement, howsoever arising, over or in respect of the land;
d) Any subsisting lease or agreement for lease for a period not exceeding three years, where there is actual occupation of the land under the same;
e) Any charge, order or restriction existing at the time of the issue of the certificate of title in the records of the land which have been registered and maintained in connection with the survey;
f) Any right of expropriation which may by statute be vested in any person, body corporate, or the Minister;
g) Any right of way or other easement granted or acquired under the provisions of any Act or by laws in force in the Province.

Issued on instrument registered at 1:11 o'clock P.M. on the 17 day of MAY A.D. 19 60 Number 4458 Book LITO folio 139

J.M. THOM
Registrar, N.A.L.R.D.

Certificate of Title

Assess Fund Value $5,500:00

Refer Cert. No. 161-H-152

North Alberta Land Registration District

This is to Certify that PATRICK MC MILLAN

OF EDMONTON IN THE PROVINCE OF ALBERTA, CANADA (FARMER)

is now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3)

TOWNSHIP FIFTY EIGHT (58) RANGE ELEVEN (11) WEST OF THE FOURTH MERIDIAN IN THE SAID PROVINCE, BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125; EXCEPTING THEREOUT,—

TWO AND FIFTY SEVEN HUNDREDTHS (2.57) ACRES MORE OR LESS AS SHOWN ON ROAD PLAN 3522 J.Y.

RESERVING THEREOUT ALL MINES AND MINERALS AS SET FORTH IN TRANSFER 4458 L.T.

TOGETHER WITH FULL POWER TO WORK THE SAME AS

THIS CERTIFICATE OF TITLE IS CANCELLED
in full

IN ACCORDANCE WITH THE TRANSFER SUBJECT TO ANY EXCEPTIONS AND/OR RESERVATIONS THEREIN AND A NEW CERTIFICATE OF TITLE NO. 144 L 264
ISSUED THIS 25 DAY OF May 1973
TO: Mary Rozicki
DB 2465 L.A.
ADMINISTRAR

subject to the encumbrances, liens and interests notified by memorandum underwritten or endorsed hereon, or which may hereafter be made in the register

In Witness Whereof I have hereunto subscribed my name and affixed my official seal this SEVENTEENTH day of MAY A.D. 19 60

RJB

Registrar

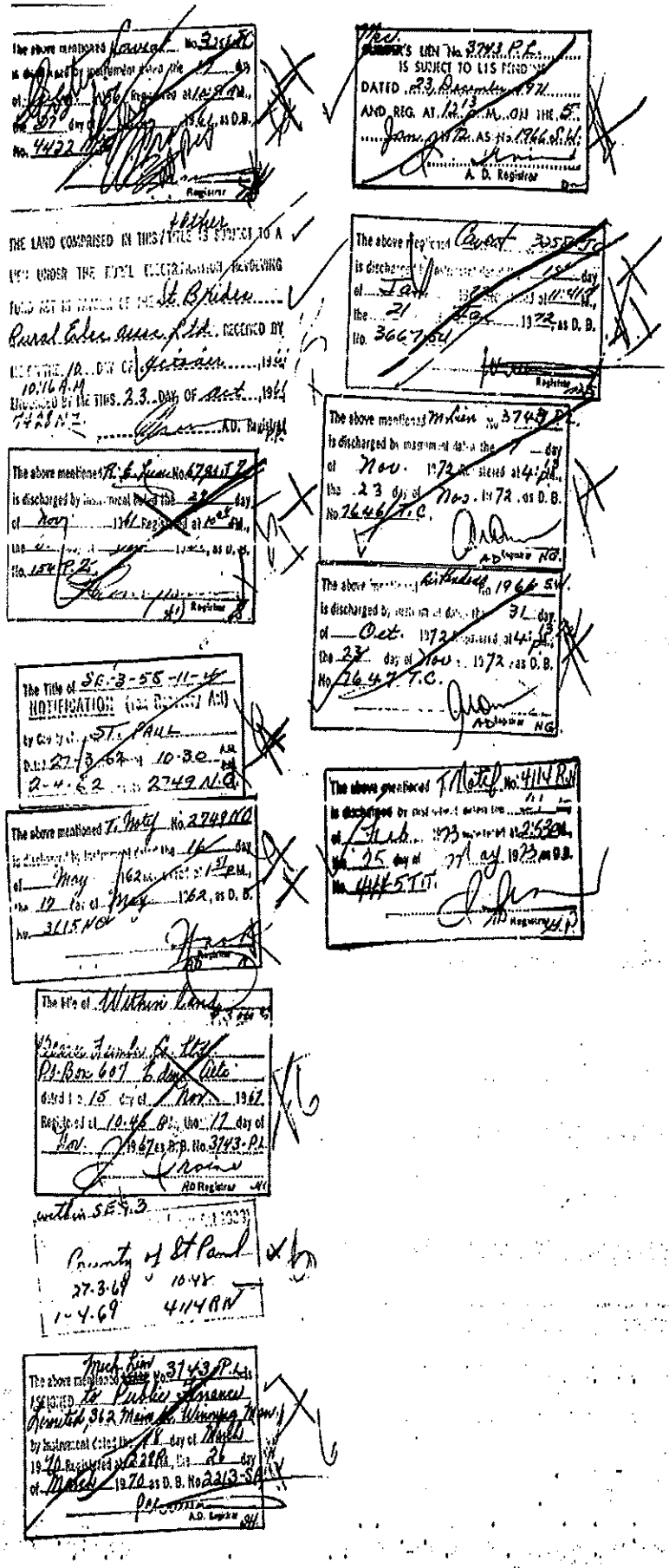
OVER

P.O. Address 6806-132 AVE; EDMONTON, ALTA.

North Alberta Land Registration District

2178 OZ. AGR.REL.LIEN REG.12-JUL-57 BY H.D. OF CHAMPLAIN
[illegible] BY IMPERIAL OIL LTD. 360-9TH AVE. N. CALGARY, ALTA. A.D.REG.
[illegible] DATED 28-NOV-58 REG.1.23 PM 11-DEC-58 ABOVE LAND SUB TO A LIEN UNDER THE RURAL ELEC. REV. FUND ACT IN FAVOUR OF ST. BRIDES RURAL EL CO. A.D.REG.
7654 KW: CAVEAT DATED 13-FEB-58 REG:2.39 PM 16-APR-58 ABOVE LAND BY WILLIAM KOZICKI AND MARY KOZICKI C/O JOHN L LAGACE OF DAVID, ALTA. A.D.REG.

OVER



LAND TITLES ACT, Sec. 6[illegible]—The land mentioned in any certificate of title granted under this Act shall by implication and without any special mention therein, be subject to—
(a) Any subsisting reservations or exceptions including royalties contained in the original grant of the land from the Crown;
(b) All unpaid taxes, including irrigation and drainage district rates;
(c) Any public highway or right-of-way or other public easement, howsoever created upon, over or in respect of the land;
(d) Any subsisting lease or agreement for a lease for a period not exceeding three years, where there is actual occupation of the land under the same;
(e) Any decrees, orders or executions against or affecting the interest of the owner of the land which have been registered and maintained in force against the owner;
(f) Any right of expropriation which may by statute be vested in any person, body corporate, or His Majesty;
(g) Any right-of-way or other easement granted or acquired under the provisions of any Act or law in force in the Province.

M

161-M-152

GOVERNMENT OF THE PROVINCE OF ALBERTA

CANCELLED

161

Issued on instrument registered at 11.02 o'clock
on the 31 day of DEC.
A.D. 19 54
Number 6209 Book JU Folio 161
J.M. THOM
Registrar N.A.L.R.D.

Certificate of Title

Assce. Fund Value ______ *Unearned Inc. Value* ______ *Refer Cert. No.* 207-Y-67

North Alberta Land Registration District.

This is to Certify *that* THE SOLDIER SETTLEMENT BOARD OF CANADA

is now the owner of an estate in fee simple

of and in THE SOUTH EAST QUARTER OF SECTION THREE (3) TOWNSHIP FIFTY EIGHT (58) RANGE ELEVEN (11) WEST OF THE FOURTH MERIDIAN IN THE PROVINCE OF ALBERTA, DOMINION OF CANADA, BEING IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO. 125.

THIS CERTIFICATE OF TITLE IS CANCELLED
as to surf. of above
land exc. M. & M.
IN ACCORDA[illegible] SUB-
JECT TO ANY [illegible]
VATIONS THEREIN [illegible] CATE
OF TITLE NO. 185-R-179
ISSUED THIS 17 [illegible] May 1960
TO Patrick McMullan
DS 44581 L.T.
N.A.D. REGISTRAR

M

THIS C[illegible]
In full under [illegible]
on this 29 [illegible] March 1979

subject to the encumbrances, liens and interests notified by memorandum underwritten or endorsed hereon, or which may hereafter be made in the register.

In Witness Whereof *I have hereunto subscribed my name and affixed my official seal this* THIRTY FIRST *day of* DECEMBER *A.D. 19*54

GGG

Registrar,

P.O. Address ______ *North Alberta Land Registration District*

717 G.Z. AGR. REL. LIEN REG. 12-MAR-37 BY M.D. CHAMPLAIN.
2178 G.Z. AGR. REL. LIEN REG. 12-JULY-37 BY M.D. CHAMPLAIN.
3258 J.C. CAVEAT DATED 9-MAY-52 REG. 11.16 AM 15-MAY-52 AS TO ABOVE SURFACE AND ABOVE AND OTHER PET. AND NAT. GAS BY IMPERIAL OIL LTD. 300-9TH AVE. WEST, CALGARY, ALTA. D.REG.
4905 J.Z. CAVEAT DATED 16-SEPT-54 REG. 2.07 PM 21-SEPT-54 ABOVE LAND BY MIN. OF HIGHWAYS, C/O DEPT. OF HIGHWAYS, EDM. ALTA. D.REG.
6793 J.Z. LIEN DATED 26-NOV-54 REG. 1.23 PM 1?-DEC-54 ABOVE LAND SUBJECT TO A LIEN UNDER THE RURAL ELECT. REVOLVING FUND ACT IN FAVOUR OF ST. BRIDES RURAL ELECT. ASSOC. LTD. D.REG.

MERGED

OVER

Road Plan 12 15451

THIS CERTIFICATE OF TITLE IS CANCELLED
As to 2 Ac. taken for Road

IN ACCORDANCE WITH THE TRANSFER SUBJECT TO ANY EXCEPTIONS AND/OR RESERVATIONS THEREIN AND A NEW CERTIFICATE OF TITLE NO. ____

ISSUED THIS 5 DAY OF March 1957
TO The Crown
DUPL 25.32.IV
AD REGISTRAR

NOTIFICATION (Tax Recovery Act 1938)
by M.T. Lt. Land
Dated 22-3-57 at 10:19 A.M.
1-4-57 as No. 4644 K.D.

The title of Within Land
is subject to a CAVEAT filed by William Kinicki
Mary Kinicki & John L. Lagasse
St. Paul Alberta
dated the 13 day of Feb. 1958
Registered at 2.39 P.M. the 14 day of
April 1958 as D.B. No. 765 KW
AD Registrar

The above mentioned Ag. Lease No. 117 G.I.
is discharged by instrument dated the 9 day
of April 1958 Registered at 11.35 A.M.
the 28 day of April 1958 as D.B.
No. 232 M.Z.
AD Registrar

The above mentioned T.M.T. No. 4644 K.D.
is discharged by instrument dated the 18 day
of March 1960 Registered at 9 A.M.
the 22 day of March 1960 as D.B.
No. 632 M.D.
AD Registrar

The above mentioned Caveat No. 3258 JC
is discharged by instrument dated the 19 day
of Jan. 1972 Registered at 11.31 A.M.
the 21 day of Jan. 1972 as D.B.
No. 4422 M.D.
Registrar

The above mentioned Caveat No. 3258 JC
is discharged by instrument dated the 17 day
of January 1972 Registered at 11.41 A.M.
the 21 day of Jan. 1972 as D.B.
No. 3667-50
Registrar 1113

CAVEAT REG.NO. 762026803
17-FEB-76 BY APL OIL & GAS LTD.
On Certs ADR/GEK

CAVEAT REG.NO. 762026804
17-FEB-76 BY THE ROYAL BANK OF CANADA
On Certs ADR/GEK

CAVEAT REG.NO. 762026805
17-FEB-76 BY OAKWOOD PETROLEUMS LTD.
On Certs ADR/GEK

CAVEAT REG.NO. 762026806
17-FEB-76 BY THE ROYAL BANK OF CANADA
On Certs ADR/GEK

CAVEAT REG.NO. 762026807
17-FEB-76 BY AMERICAN EAGLE PETROLEUMS LTD.
On Certs ADR/GEK

CAVEAT REG.NO. 762026808
17-FEB-76 BY THE ROYAL BANK OF CANADA
On Certs ADR/GEK

CAVEAT REG.NO. 762026809
17-FEB-76 BY AL PATTERSON
On Certs ADR/GEK

CAVEAT REG.NO. 762026810
17-FEB-76 BY THE ROYAL BANK OF CANADA
On Certs ADR/GEK

CAVEAT REG.NO. 762026811
17-FEB-76 BY INCA O&L LTD.
On Certs ADR/GEK

CAVEAT REG.NO. 762026812
17-FEB-76 BY THE ROYAL BANK OF CANADA
On Certs ADR/GEK

CAVEAT REG. NO. 762111095
24-JUNE-76 BY TRIARCH RESOURCE CAPTIAL CORPORATION LIMITED
YMP ADR/JO

CAVEAT NO. 762143789
REG'D 13-AUGUST-1976
BY CORVAIR OILS LTD.
ADR/DD

DISCHARGE REG.NO. 782135324
20-JUNE-78 OF CAVEAT NO. 762026812
ADR/GEK

DISCHARGE REG.NO. 782225336
ON 3RD OCTOBER- 78
OF C. 762026811
(H. & M. AS DESC.)
ADR/IY

DISCHARGE REG.NO. 782225337
ON 3RD OCTOBER 78
OF C. 762027188
(H. & M. AS DESC.)
ADR/IY

DISCHARGE REG. NO. 791040663,
22/FEB/79, OF CAVEAT 762111095.
ADR/EK

Certificate of Title

North Alberta Land Registration District

This is to Certify that the SOLDIER SETTLEMENT BOARD OF CANADA

is now the owner of an estate in fee simple

THE WHOLE OF SECTION THREE (3) TOWNSHIP FIFTY-EIGHT (58) RANGE ELEVEN (11) WEST OF THE FOURTH MERIDIAN IN THE SURRENDERED PORTION OF THE SADDLE LAKE INDIAN RESERVE NO 125 PROVINCE OF ALBERTA DOMINION OF CANADA

subject to the encumbrances, liens and interests notified by memorandum underwritten or endorsed hereon, or which may hereafter be made in the register

THE LAND COMPRISED IN THIS TITLE IS SUBJECT TO

LIEN UNDER THE

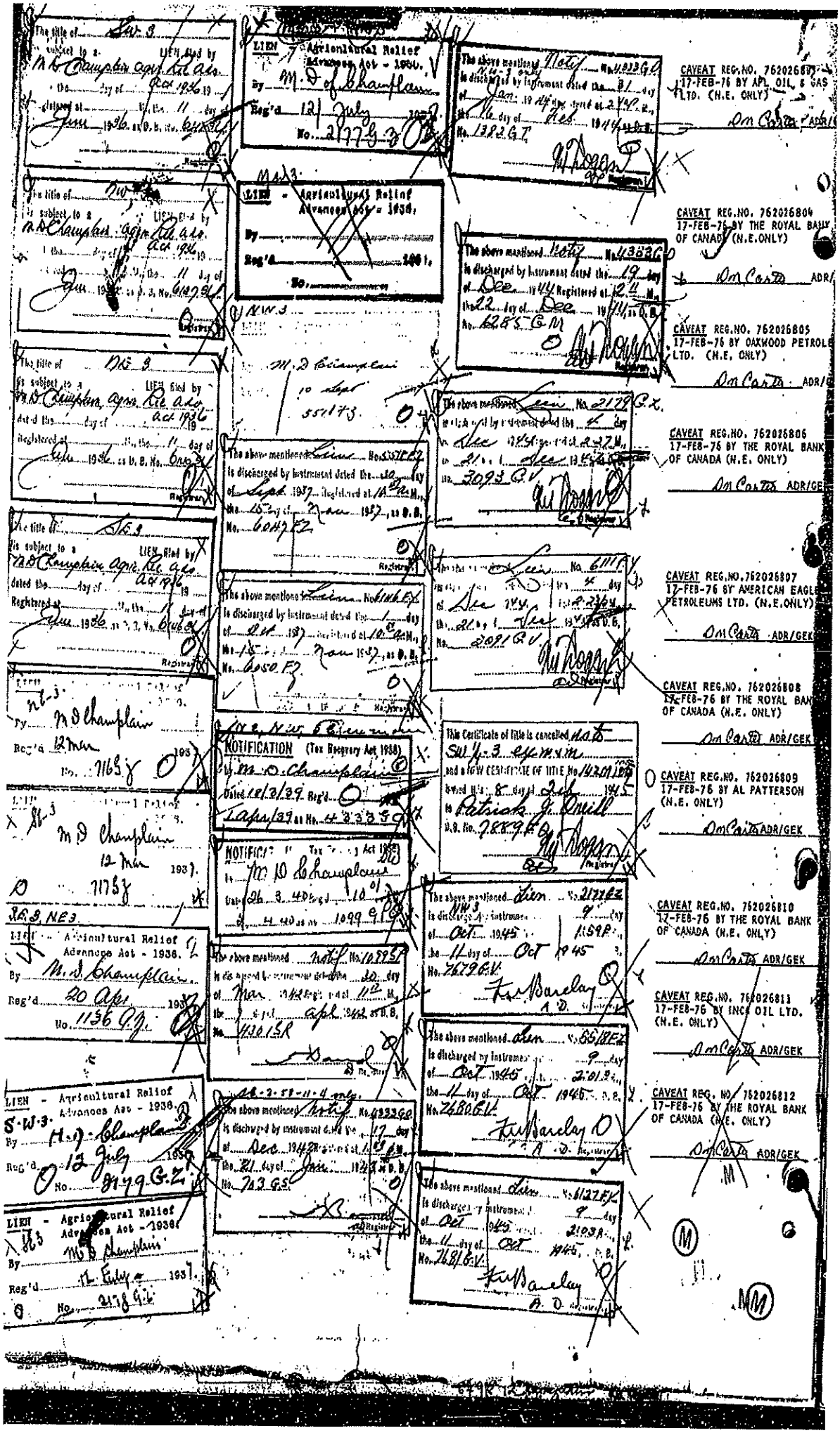
FUND ACT IN FAVOUR OF

RECEIVED BY ME ON THE 24 DAY OF

ENDORSED BY ME THIS 14 DAY OF

LOVER

over



CAVEAT REG.NO. 762026807
17-FEB-76 BY AMERICAN EAGLE PETROLEUMS LTD. (N.E.ONLY)
Dm Carter ADR/GEK

CAVEAT REG.NO. 762026808
17-FEB-76 BY THE ROYAL BANK OF CANADA (N.E. ONLY)
Dm Carter ADR/GEK

CAVEAT REG.NO. 762026809
17-FEB-76 BY AL PATTERSON (N.E. ONLY)
Dm Carter ADR/GEK

CAVEAT REG.NO. 762026810
17-FEB-76 BY THE ROYAL BANK OF CANADA (N.E. ONLY)
Dm Carter ADR/GEK

CAVEAT REG.NO. 762026811
17-FEB-76 BY INCA OIL LTD. (N.E. ONLY)
Dm Carter ADR/GEK

CAVEAT REG. NO. 762026812
17-FEB-76 BY THE ROYAL BANK OF CANADA (N.E. ONLY)
Dm Carter ADR/GEK

APPENDIX E

Alberta Safety Codes Authority

URBAN systems

Alberta Safety Codes Authority

A Division of the Safety Codes Council

September 20, 2022

Mr. Brendan Algeo
Urban Systems Ltd.
101 134 11 Ave SE
Calgary AB T2G 0X5

EMAIL: balgeo@urbansystems.ca

Re: ASCA Storage Tank Search

Dear Mr. Algeo,

As per your search request received September 15, 2022, Alberta Safety Codes Authority (ASCA) has searched the storage tank database for existing and former installations of storage tank systems, as defined by the Fire Code, including those known to be inside structures at the following address:

1. SE-3-58-11-4, AB

The search of the storage tank database determined no records were available for the requested location.

The Freedom of Information and Protection of Privacy Act governs the information provided. Please note that the database is ***not*** complete. The main limitation of the database is that it only includes information reported through registration and permitting or a survey of abandoned sites completed in 1992 and should not be considered a comprehensive inventory of all past or present storage tank sites. ASCA, a division of the Safety Codes Council, *does not* guarantee that tanks do not or have not existed at the (above) indicated location(s). Information in the database is supplied by the owner/operator and ASCA *does not* guarantee its accuracy. Further information on storage tanks or investigations involving spills/release or contamination may be filed with the local fire service or Alberta Environment.

Regards,

Gerry Letendre
ASCA Tanks
Alberta Safety Codes Authority
Safety Codes Council | safetycodes.ab.ca
Tel. 780.413.0099 | Toll-Free 1-888-413-0099

APPENDIX F

AbaData Search

URBAN systems

AbaData

Pipeline Information

CANADIAN NATURAL RESOURCES LIMITED | AB00010315 - 24

Government Pipeline Data Current to January 7, 2022

Permit Date:	August 18, 2015	**License Date:**	September 21, 1978
From Location:	10-25-57-11 W4M PL	**To Location:**	9-9-58-11 W4M CS
Length:	7.5 kms | 4.69 mi	**Status:**	O
Substance:	NG	**H_2S:**	0 mol/kmol | 0 ppm
Outside Diameter:	219.1 mm | 8.63 "	**Wall Thickness:**	3.18 mm | 0.13 "
Material:	S	**Type:**	5LX
Grade:	X42	**Max Operating Pressure:**	3450 kPa | 500 psi
Joints:	W	**Internal Coating:**	U
Stress Level:	41 %	**Environment:**	
Original Permit Date:		**Construction Date:**	
Original License/Line No:	10315 - 24	**NEB Registration:**	
Last Occurrence Year:	1978	**Abacus No:**	N/A

AbaData

Pipeline Information

CANADIAN NATURAL RESOURCES LIMITED | AB00016739 - 2

Government Pipeline Data Current to January 7, 2022

Permit Date:	June 20, 2013	**License Date:**	March 12, 1980
From Location:	4-3-58-11 W4M BE	**To Location:**	9-9-58-11 W4M BE
Length:	2.53 kms | 1.58 mi	**Status:**	A
Substance:	NG	**H_2S:**	0 mol/kmol | 0 ppm
Outside Diameter:	114.3 mm | 4.5 "	**Wall Thickness:**	2.11 mm | 0.08 "
Material:	S	**Type:**	5LX
Grade:	X42	**Max Operating Pressure:**	0 kPa | 0 psi
Joints:	W	**Internal Coating:**	U
Stress Level:	0 %	**Environment:**	
Original Permit Date:		**Construction Date:**	
Original License/Line No:	16739 - 2	**NEB Registration:**	
Last Occurrence Year:	1980	**Abacus No:**	N/A

AbaData

Pipeline Information

CANADIAN NATURAL RESOURCES LIMITED | AB00012249 - 8

Government Pipeline Data Current to January 7, 2022

Permit Date:	August 18, 2015	**License Date:**	September 9, 1977
From Location:	7-34-57-11 W4M WE	**To Location:**	2-4-58-11 W4M PL
Length:	2.48 kms | 1.55 mi	**Status:**	O
Substance:	NG	**H_2S:**	0 mol/kmol | 0 ppm
Outside Diameter:	114.3 mm | 4.5 "	**Wall Thickness:**	2.11 mm | 0.08 "
Material:	S	**Type:**	5LX
Grade:	X42	**Max Operating Pressure:**	3450 kPa | 500 psi
Joints:	W	**Internal Coating:**	U
Stress Level:	32 %	**Environment:**	CC
Original Permit Date:		**Construction Date:**	
Original License/Line No:	12249 - 8	**NEB Registration:**	
Last Occurrence Year:	1977	**Abacus No:**	N/A

AbaData

Low Pressure Pipeline Information

NATURAL GAS CO-OPERATIVE CONTACT INFORMATION

Data Current To January 1, 2020

Name: Apex Utilities Inc.

Address: 5509 - 45 Street Leduc, T9E 6T6

Phone #: 1-866-222-2067 **Alternate Phone #:**

Website: https://www.altagasutilities.com/

AbaData

Low Pressure Pipeline Information

NATURAL GAS CO-OPERATIVE CONTACT INFORMATION

Data Current To January 1, 2020

Name:	Apex Utilities Inc.		
Address:	5509 - 45 Street Leduc, T9E 6T6		
Phone #:	1-866-222-2067	**Alternate Phone #:**	
Website:	https://www.altagasutilities.com/		

AbaData

Well Information

100 / 04-03-058-11 W4 / 2

CANADIAN NATURAL RESOURCES LIMITED | 100 / 04-03-058-11 W4 / 2

Government Well Data Current To December 22, 2021

License #:	0073352	**License Date:**	December 6, 1978
Well Name:	CNRL OAK ET AL CACHE 4-3-58-11		
License Status:	Suspension	**License Status Date:**	September 14, 2013
Within:	04-03-058-11 W4M	**H2S (%):**	
Spud Date:	December 7, 1978	**Final Drill Date:**	December 9, 1978
Status:	GAS SUSP	**Abandoned Date:**	
Surface:		**Downhole:**	
Offsets:	N 381.9 E 304.8	Offsets:	N 381.9 E 304.8
Latitude:	53.980415	Latitude:	53.980415
Longitude:	-111.559394	Longitude:	-111.559394
Ground Elevation:	643.4 m | 2111 '	Total Depth:	670.00 m | 2198 '
Operator:	CANADIAN NATURAL RESOURCES LIMITED		

AbaData

Spill/Complaint Information

SPILL | 07-02-058-11 W4

NOVEMBER 18, 2003 - INCIDENT #: 20032817

Incident Notified:	November 21, 2003	**Incident Complete:**	November 21, 2003
License #:	0067281 (Well Licence)		
Licensee (at time of Incident):	CANADIAN NATURAL RESOURCES LIMITED		
Current Licensee:	CANADIAN NATURAL RESOURCES LIMITED		
Source:	Suspended Well		
Cause:	Equipment Failure - Malfunction		
Failure Type:	Valve Failure		
Jurisdiction:	Freehold Private Lan		
Strike Area:	CACHE	**Field Centre:**	BONNYVILLE
# of Injuries:	0	**# of Deaths:**	0
Spill Offsite?	NO	**Sensitive Area?**	NO
Public Affected:	No affect/Normal Notification		
Wildlife Affected:	No affect		
Area Affected:	100 square meters or less		
Environment Affected:	Air/Land		
# Evacuated:	0	**Cleanup Date:**	November 21, 2003
Substances Spilled:	3.0 m^3 Salt/Produced Water (3.0 m^3 recovered) 0.0 (0.0 recovered) 0.0 (0.0 recovered) 0.0 (0.0 recovered)		

APPENDIX G

Environmental Site Assessment Repository

URBAN systems

RECEIVED
AUG 15 2007
TANK PROGRAM

LIMITED SCOPEPHASE II ENVIRONMENTAL SITE ASSESSMENT

ST. BRIDES ESSO

PLAN 812 2065

ST. BRIDES, ALBERTA

Prepared For:

623375 ALBERTA LIMITED

Prepared By:

SHELBY ENGINEERING LTD.
9632 - 54 Avenue
Edmonton, Alberta
T6E 5V1

Phone: (780) 438-2540
Fax: (780) 434-3089
email: shelbyen@telusplanet.net

File No. 3-12.328

Available for Public Distribution

JULY 2007

TABLE OF CONTENTS

1.0 INTRODUCTION

Shelby Engineering Ltd. has completed a Limited Scope Phase II Environmental Site Assessment for a piece of land within Plan 812 2065 in St. Brides, Alberta.

This study was initiated April 11, 2007, after authorization by Stanley Chudyk of 623375 Alberta Limited. This study is subject to the Standard Terms and Conditions for the Provision of Services by Shelby Engineering Ltd. and these terms and conditions are attached hereto.

2.0 SUBJECT PROPERTY

The subject property also referred to herein as the site or subject is legally known under Plan 812 2065. The site is presently located on the southwest corner of Highway 36 and Range Road 581 in St. Brides, Alberta.

The subject consists a store in the northeast portion of the property with the pump island north of the store along the northern property line. The underground PST's are located west of the store. Southwest of the store is a small garage followed to the south by a mobile home. Most of the yard is gravel with grass extending south of the store. The surrounding properties are residential.

3.0 FIELD INVESTIGATION & SAMPLING PROGRAM

The field investigation & sampling program, supervised Mr. Duc Co of Shelby, was completed on June 1, 2007 using a truck mounted drill rig equipped with solid stem augers.

To determine whether the operational gas bar located onsite has adversely impacted the environmental nature of the site, seven test holes were drilled, three in the area of the pump island to a depth of 2.3 metres below grade and four around the tank nest to a depth of 8.3 metres below grade. All four of the test holes advanced to 8.3 metres were finished as ground water monitoring wells. The locations of the test holes were restricted due to development including overhead power lines and underground utilities etc.

Soil samples recovered from the auger flights at 300 mm below grade and then at 750-mm intervals. Samples were also collected at major soil change interfaces and wherever visual and/or olfactory indicators suggested the presence of contamination. All soil samples were removed from the auger flights, were carefully trimmed, placed in double plastic sample bags and sealed with approximately 50% free headspace. Duplicate samples were placed in glass jars with screw tight lids and Teflon cap liners. These samples were jarred with minimum headspace and stored in coolers.

A continuous field log was maintained and all samples were returned to our laboratory for confirmation of our field logs and for pertinent laboratory testing. Laboratory testing consisted of visual classifications, vapour testing, and chemical analysis. The results of our field and laboratory testing were used to formulate the opinions contained herein.

Test holes logs and a site plan detailing the location of the test holes is included in Appendix I.

3.1 GENERAL SUBSURFACE CONDITIONS

The generalized subsoil stratigraphy at this site is based on the findings from seven test holes drilled for this investigation. Detailed borehole logs are included in Appendix I.

Generalized stratigraphy of the site is comprised of fill overlying medium plastic clay till.

The fill layer identified ranged in thickness between 1 m and 2.5 m depth and consisted of sand in most areas and gravel with sand or topsoil with clay in other areas. The areas consisting of sand and gravel fill were between 1m and 1.5m in depth and the areas with topsoil as fill were 2m to 2.5m in depth.

In all test holes beneath the fill was brown, medium plastic clay till with some silt, sand and a trace of gravel that extended the depth of drilling (2.3 or 8.3 metres).

No visual or olfactory indications of contamination were noted in any of the advanced test holes.

4.0 SITE SENSITIVITY ASSESSMENT

We have completed a site sensitivity assessment that considered such things as subsurface conditions, groundwater use, surface water, surrounding land use, nearby underground structures, receptor sensitivity and likelihood of impact upon various receptors.

We have found, based on this site sensitivity assessment that the following guidelines are applicable to the site.

- Alberta Environment Risk Management Guidelines fine grained soils with residential land use

The subject property contains a residence and as well is surrounded by residential property and thus the residential guidelines must be applied to the entire site for comparison purposes.

5.0 HYDROCARBON VAPOUR ANALYSIS

After completion of field drilling, hydrocarbon vapor testing was completed on all samples recovered from TH-1 through TH-7. The samples were analyzed using a Gastech Model 1238ME combustible gas detector with a detection limit of 5ppm. The concentrations of hydrocarbon vapor in the tested samples are included in Appendix I and are summarized in Table 1A and 1B below.

TABLE 1A.
HYDROCARBON VAPOR CONCENTRATIONS

Depth (m)	Hydrocarbon vapour concentration (ppm)		
	TH-1	TH-2	TH-3
0.30	25	35	50
0.75	30	40	60
1.50	40	30	30
2.25	25	30	20

TABLE 1B.
HYDROCARBON VAPOR CONCENTRATIONS

Depth (m)	Hydrocarbon vapour concentration (ppm)			
	TH-4	TH-5	TH-6	TH-7
0.30	30	20	10	60
0.75	25	20	10	45
1.50	30	30	10	45
2.25	35	15	15	40
3.0	30	20	15	20
3.75	15	15	10	115
4.5	15	15	10	25
5.25	20	20	15	30
6.0	35	20	15	30
6.8	25	15	20	10
7.5	30	20	20	25
8.3	30	25	20	35

Measurable hydrocarbon vapor concentrations were noted in all samples however these concentrations are considered to be low to negligible and are generally not indicative of substantial hydrocarbon contamination.

6.0 CHEMICAL ANLAYSES

To better quantify hydrocarbon concentrations within the soil, seven soil samples were selected for further analysis based upon their hydrocarbon vapour concentrations as well as soil characteristics. Duplicates of these samples were submitted to ALS Laboratories Group for the analysis of concentrations of BTEX, hydrocarbon fractions 1 through 4 inclusively and lead. The resulting analytical results and the applicable standards are outlined below. Chemical Analysis reports provided by ALS Laboratories Group are included in Appendix II.

TABLE 2A.
HYDROCARBON AND LEAD CHEMICAL ANALYSIS RESULTS
FOR SOIL SAMPLES FROM TEST HOLES 1-3

Laboratory ID	L514345-1	L514345-2	L514345-3	AB Env Guidelines-Residential (Fine- grained soil)
Shelby ID	12328-TH1-5.0	12328-TH2-2.5	12328-TH3-2.5	
Location	TH-1	TH-2	TH-3	
Depth (m)	1.5	0.75	0.75	
F1 (C6-C10)(mg/kg)	<5	<5	<5	260
F2 (C10-C16)(mg/kg)	<5	5	<5	900
F3 (C16-C34)(mg/kg)	24	73	17	800
F4 (C34-C50)(mg/kg)	16	38	10	5600
Benzene (mg/kg)	<0.005	<0.005	<0.005	1.9
Toluene (mg/kg)	<0.01	<0.01	<0.01	300
Ethylbenzene (mg/kg)	<0.01	<0.01	<0.01	450
Xylenes (mg/kg)	<0.02	<0.02	<0.02	500
Lead (mg/kg)	<5	9	6	140

TABLE 2B.
HYDROCARBON AND LEAD CHEMICAL ANALYSIS RESULTS
FOR SOIL SAMPLES FROM TEST HOLES 4-7

Laboratory ID	L514345-4	L514345-5	L514345-6	L514345-7	AB Env Guidelines-Residential (Fine-grained soil)
Shelby ID	12328-TH4-20	12328-TH5-10	12328-TH6-22.5	12328-TH7-6	
Location	TH-4	TH-5	TH-6	TH-7	
Depth (m)	6.0	3.0	6.8	15	
F1 (C6-C10)(mg/kg)	<5	<5	<5	31	260
F2 (C10-C16)(mg/kg)	<5	<5	<5	<5	900
F3 (C16-C34)(mg/kg)	16	9	25	11	800
F4 (C34-C50)(mg/kg)	9	<5	16	<5	5600
Benzene (mg/kg)	<0.005	<0.005	<0.005	0.069	1.9
Toluene (mg/kg)	<0.01	<0.01	<0.01	0.13	300
Ethylbenzene (mg/kg)	<0.01	<0.01	<0.01	1.2	450
Xylenes (mg/kg)	<0.02	<0.02	<0.02	2.7	500
Lead (mg/kg)	6	7	6	5	140

The results of the chemical analysis showed that all seven samples complied with the applicable guidelines.

On June 6, 2007, the groundwater monitoring wells installed in four test holes were revisited and samples were collected using procedures in accordance with CCME and Alberta Environment standards and preserved as required by ALS Laboratories Group. Two samples were then analyzed by ALS Laboratories for the presence of BTEX, F1 and F2. The results are presented below.

TABLE 3.
HYDROCARBON CHEMICAL RESULTS FOR GROUNDWATER SAMPLE

Laboratory ID	L514491-1	L514491-2	Alberta Environment Standard – Fine grained Residential soil
Shelby ID	12328-TH4	12328-TH5	
Matrix	Water	Water	
Location	TH-4	TH-5	
F1-BETX (C6-C10) (mg/kg)	<0.1	<0.1	9
F2 (C10-C16) (mg/kg)	<0.05	<0.05	11
Benzene (mg/kg)	<0.00050	<0.00050	3.5
Toluene (mg/kg)	<0.00050	<0.00050	228
Xylenes (mg/kg)	<0.00050	<0.00050	163

The results of the analyses show that the hydrocarbon content within the identified groundwater sample was below the method detection limits for the analytical procedures used. All resultant hydrocarbon values also complied entirely with the identified objectives.

7.0 SUMMARY

To determine whether the presence of the gas bar located onsite had adversely impacted the site, a limited Phase II ESA was initiated.

Seven test holes were advanced to a depth of 2.3 metres below existing grade in the area of the pump island and 8.3 metres in the area of the tank nest.

Soil samples collected from the boreholes were screened for hydrocarbon vapour concentrations. The resulting vapor concentrations were all considered negligible to low.

A site sensitivity assessment was performed. Based upon this assessment it was determined that the site should be compared to Alberta Environment Risk Management Guidelines for fine grained residential soil.

After the field investigation, selected soil samples were submitted for analysis of petroleum hydrocarbons (BTEX and hydrocarbon fractions 1 through 4) and lead. The results were compared to Alberta Environment Risk Management Guidelines to determine compliance.

Seven soil samples were tested for hydrocarbon concentrations and lead. All samples complied with the applicable standards.

Two well water samples were also tested for hydrocarbon concentrations. Both samples complied with the applicable standards.

8.0 RECOMMENDATIONS

This Limited Scope Phase II ESA has not identified any evidence to suggest that the onsite gas bar has adversely impacted by the subject. Based upon the results of this investigation no further environmental actions including testing or remediation of the subject is required or recommended at this time.

9.0 CLOSURE

This submission makes no representations as to the presence of, or, the absence of substances other than those detailed in this submission. The Standard Terms and Conditions for the Provision of Services by Shelby Engineering Ltd. are enclosed herewith as Appendix III and form a facet of this investigation.

Respectfully submitted,
SHELBY ENGINEERING LTD

Valerie McKellar, B.Sc

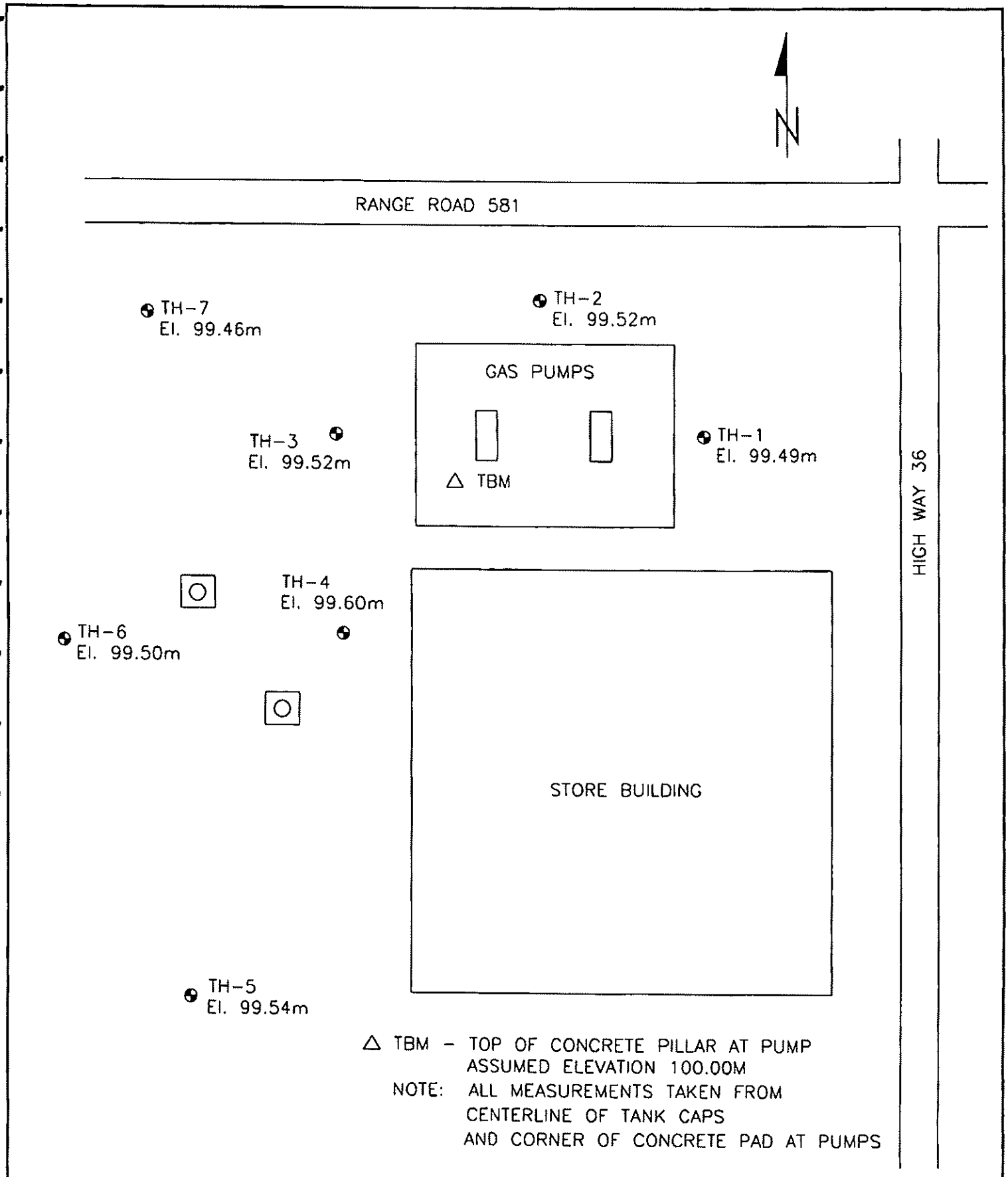
Melody Crozier-Smith, B.Sc, EPI, CESA

Gordon G Hunter, M.Sc., P.Eng.

PERMIT TO PRACTICE
SHELBY ENGINEERING LTD.
Signature
Date JUL 6 2007
Association of Professional Engineers, Geologists and Geophysicists of Alberta

GGH:MCS:VMM:ab/Encl.
File No. 3-12.328
July 2007

APPENDIX I



△ TBM – TOP OF CONCRETE PILLAR AT PUMP
ASSUMED ELEVATION 100.00M

NOTE: ALL MEASUREMENTS TAKEN FROM CENTERLINE OF TANK CAPS AND CORNER OF CONCRETE PAD AT PUMPS

SHELBY ENGINEERING LTD.

JOB NO.: 3-12328	DATE: JUNE 2007	
SCALE: 1:200	DWN BY: DC	DWG NO: 08

ST. BRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-1
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID STEM AUGERS & SPTS	ELEVATION: 99.49 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

▲ STANDARD PENETRATION (N) ▲ 20 40 60 80

PLASTIC M.C. LIQUID 20 40 60 80

Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL OBSERVATIONS	INSTRUMENTATION DATA	ELEVATION(m)
0.0								99.0
		1	FILL: Sand, brown, compact, fine grained, some silt. -trace cobbles.	FI		H.C.= 25 PPM		
1.0		2				H.C.= 30 PPM		98.0
		3	CLAY TILL: Brown, medium plastic, stiff, and sand, some silt, trace gravel.	TILL		H.C.= 40 PPM		
2.0		4				H.C.= 25 PPM		97.0
			DEPTH OF TESTHOLE 2.30 METRES. DRY ON COMPLETION. NO SLOUGH. TESTHOLE BACKFILLED.			H.C. denotes Hydrocarbon Vapour readings PPM denotes Parts Per Million.		96.0
3.0								95.0
4.0								94.0
5.0								93.0
6.0								92.0
7.0								91.0
8.0								90.0
9.0								
10.0								

SHELBY ENGINEERING LTD
Edmonton, Alberta

LOGGED BY: DC/MM	COMPLETION DEPTH: 2.3 m
REVIEWED BY: MCS	COMPLETE: 01/06/07
Fig. No: 1	Page 1 of 1

07/06/25 07:25:28 (10.0 WELL)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-2
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.52 m

SAMPLE TYPE ■ GRAB ⊘ SHELBY TUBE ⊠ SPT ☰ NO RECOVERY ▯ HOLLOW STEM ▮ SOLID STEM

▲ STANDARD PENETRATION (N) ▲ 20 40 60 80

PLASTIC M.C. LIQUID 20 40 60 80

Depth(m)	SAMPLE TYPE	RUN NO	SPT(N)	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL TESTING	ELEVATION(m)
0.0	■	1		FILL: Asphalt, black to 200mm depth.	FI		H.C.= 50 PPM.	99.52
	■	2		SAND: Dark brown, some gravel, compact.	SM		H.C.= 60 PPM	99.0
1.0				CLAY TILL: Brown, medium plastic, stiff, some sand, silt, trace gravel, oxides.				
	■	3			TILL		H.C.= 40 PPM	98.0
2.0	■	4					H.C.= 25 PPM	
				DEPTH OF TESTHOLE 2.30 METERS. DRY ON COMPLETION. NO SLOUGH. 50MM MONITORING WELL INSTALLED.			H.C. denotes Hydrocarbon Vapour readings PPM denotes Parts Per Million	97.0
3.0								
								96.0
4.0								
								95.0
5.0								
								94.0
6.0								
								93.0
7.0								
								92.0
8.0								
								91.0
9.0								
								90.0
10.0								

SHELBY ENGINEERING LTD.
Edmonton, Alberta

LOGGED BY: DC/MM	COMPLETION DEPTH: 2.3 m
REVIEWED BY: MCS	COMPLETE: 01/06/07
Fig. No: 1	Page 1 of 1

07/07/05 0:25:PM (10M)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-3
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.52 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

Depth(m)	▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 / PLASTIC N.C. LIQUID 20 40 60 80	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL OBSERVATIONS	INSTRUMENTATION DATA	ELEVATION(m)
0.0			1	FILL: Sand, brown, some gravel, compact.			H.C.= 35 PPM.		99.0
				-trace fibre.					
			2	-Clay, brown, low plastic, and silt.	FI		H.C.= 40 PPM		
1.0									
				CLAY TILL: Brown, medium plastic, some					
			3	sand, silt, trace gravel, oxides.			H.C.= 30 PPM		98.0
2.0					TILL				
			4				H.C.= 30 PPM		
				DEPTH OF TESTHOLE 2.30 METERS.					97.0
				DRY ON COMPLETION. NO SLOUGH.					
3.0				50MM MONITORING WELL INSTALLED.					
									96.0
4.0									
									95.0
5.0									
									94.0
6.0									
									93.0
7.0									
									92.0
8.0									
									91.0
9.0									
									90.0
10.0									

H.C. denotes Hydrocarbon

SHELBY ENGINEERING LTD.
Edmonton, Alberta

LOGGED BY: DC/MV	COMPLETION DEPTH: 2.3 m
REVIEWED BY: MCS	COMPLETE: 07/06/07
Fig. No: 3	Page 1 of 1

07/06/25 07:26AM (10.0WELL)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-4
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.6 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

▲ STANDARD PENETRATION (N) ▲ 20 40 60 80

PLASTIC M.C. LIQUID 20 40 60 80

Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL OBSERVATIONS	INSTRUMENTATION DATA	ELEVATION(m)
0.0		1	FILL: Topsoil, and grass to 100mm depth. –Organic Clay, black, high plastic, trace rootlets.			H.C.= 30 PPM.		99.6
1.0		2	–some sand, silt lenses. –and silt.	FI		H.C.= 25 PPM		99.0
2.0		3	CLAY TILL: Brown, medium plastic, stiff, some silt, sand, trace gravel, white deposits.			H.C.= 30 PPM		98.0
		4	–some sand lenses.			H.C.= 35 PPM		97.0
3.0		5				H.C.= 30 PPM		
4.0		6				H.C.= 15 PPM		96.0
		7				H.C.= 15 PPM		95.0
5.0		8		TILL		H.C.= 20 PPM		
6.0		9				H.C.= 35 PPM		94.0
		10				H.C.= 25 PPM		93.0
7.0		11				H.C.= 30 PPM		
8.0		12				H.C.= 30 PPM		92.0
9.0			DEPTH OF TESTHOLE 8.40 METERS. DRY ON COMPLETION. NO SLOUGH. 50MM MONITORING WELL INSTALLED.			H.C. denotes Hydrocarbon Vapour readings PPM denotes Parts Per Million		91.0
10.0								90.0

SHELBY ENGINEERING LTD.
Edmonton, Alberta

LOGGED BY: DC/MV	COMPLETION DEPTH: 2.3 m
REVIEWED BY: MCS	COMPLETE: 01/06/07
Fig. No: 4	Page 1 of 1

07/05/25 07:GEAR (10.GPJ LL)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-5
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.54 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

Depth(m)	▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 / PLASTIC M.C. LIQUID 20 40 60 80	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL OBSERVATIONS	INSTRUMENTATION DATA	ELEVATION(m)
0.0			1	FILL: Topsoil, black, and grass, clayey to 910mm depth.			H.C.= 20 PPM.		99.0
1.0			2	-Clay, brown, high plastic, stiff, some sand, silt.			H.C.= 20 PPM		
			3	-clay till, brown, medium plastic, stiff, some silt, sand, trace gravel, oxides.	FI		H.C.= 30 PPM		98.0
2.0			4	-trace fibre.			H.C.= 15 PPM		
				CLAY TILL: Brown, medium plastic, some silt, sand, trace gravel.					97.0
3.0			5				H.C.= 20 PPM		
			6				H.C.= 15 PPM		96.0
4.0			7				H.C.= 15 PPM		
5.0			8		TILL		H.C.= 20 PPM		95.0
6.0			9				H.C.= 20 PPM		94.0
7.0			10				H.C.= 15 PPM		93.0
			11				H.C.= 20 PPM		92.0
8.0			12				H.C.= 25 PPM		
				DEPTH OF TESTHOLE 8.40 METERS. DRY ON COMPLETION. NO SLOUGH. 50MM MONITORING WELL INSTALLED.			H.C. denotes Hydrocarbon Vapour readings PPM denotes Parts Per Million		91.0
9.0									90.0
10.0									

SHELBY ENGINEERING LTD.
Edmonton, Alberta

LOGGED BY: DC/MV	COMPLETION DEPTH: 8.4 m
REVIEWED BY: MCS	COMPLETE: 01/06/07
Fig. No: 5	Page 1 of 1

07/06/25 8:26AM (10.0WELL)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-6
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.5 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

Depth(m)	▲ STANDARD PENETRATION (N) ▲ 20 40 60 80 / PLASTIC W.C. LIQUID 20 40 60 80	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	USC	SOIL SYMBOL	ADDITIONAL OBSERVATIONS	INSTRUMENTATION DATA	ELEVATION(m)
0.0			1	FILL: Sand, brown, some gravel.	FI		H.C.= 10 PPM.		
			2	CLAY: Brown, medium plastic, and silt, trace sand.	CI		H.C.= 10 PPM		99.0
1.0				CLAY TILL: Brown, medium plastic, stiff, some sand, silt, trace gravel, oxides.					
			3				H.C.= 10 PPM		98.0
2.0			4				H.C.= 15 PPM		97.0
3.0			5				H.C.= 15 PPM		
			6	-trace crystals.			H.C.= 10 PPM		96.0
4.0			7		TILL		H.C.= 10 PPM		95.0
5.0			8				H.C.= 15 PPM		94.0
6.0			9				H.C.= 15 PPM		93.0
7.0			10				H.C.= 20 PPM		
			11				H.C.= 20 PPM		92.0
8.0			12				H.C.= 20 PPM		91.0
9.0				DEPTH OF TESTHOLE 8.40 METERS. DRY ON COMPLETION. NO SLOUGH. 50MM MONITORING WELL INSTALLED.			H.C. denotes Hydrocarbon Vapour readings PPM denotes Parts Per Million		90.0
10.0									

SHELBY ENGINEERING LTD.
Edmonton, Alberta

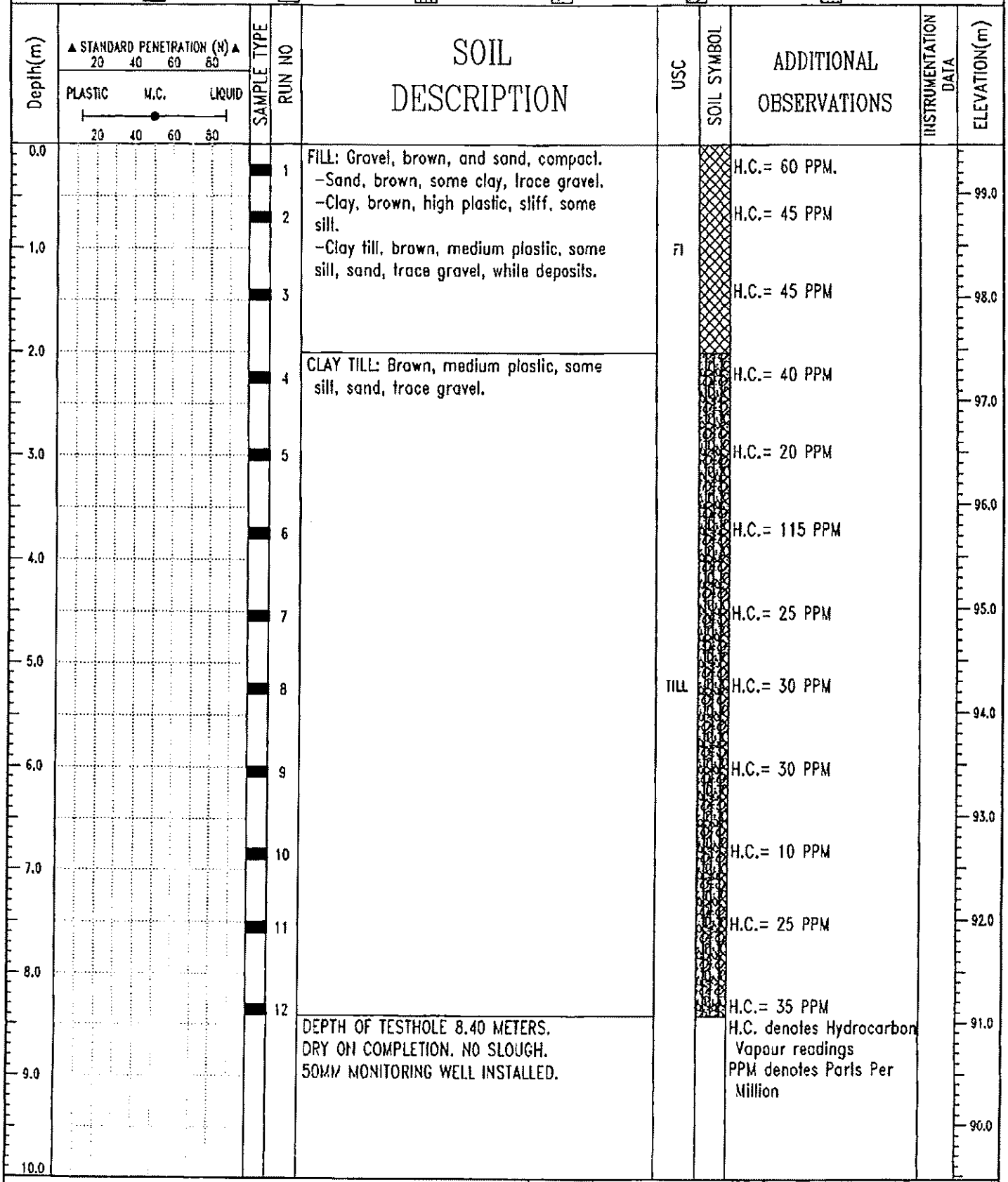
LOGGED BY: DC/MM	COMPLETION DEPTH: 8.85 m
REVIEWED BY: MCS	COMPLETE: 01/06/07
Fig. No: 6	Page 1 of 1

07/06/25 07:26AM (10.0WELL)

ST.SRIDES ESSO, ST BRIDES	623375 ALBERTA LTD.	TEST HOLE NO: TH-7
	START DATE: 01/06/07	PROJECT NO: 3-12328
PROJECT ENGINEER: GGH	SOLID AUGERS	ELEVATION: 99.46 m

SAMPLE TYPE: GRAB | SHELBY TUBE | SPT | NO RECOVERY | HOLLOW STEM | SOLID STEM

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND



SHELBY ENGINEERING LTD Edmonton, Alberta	LOGGED BY: DC/MV	COMPLETION DEPTH: 8.4 m
	REVIEWED BY: NCS	COMPLETE: 01/05/07
	Fig. No: 7	Page 1 of 1

07/05/15 9:27AM (10 GWELL)

APPENDIX II

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

ANALYTICAL REPORT

SHELBY ENGINEERING LTD
ATTN: VALERIE MCKELLAR
9632 54 AVE

EDMONTON AB T6E 5V1

Reported On: 19-JUN-07 03:59 PM

Lab Work Order #: L514345 Date Received: 06-JUN-07

Project P.O. #: 3-12328
Job Reference: 3-12328
Legal Site Desc:
CofC Numbers: a043062

Other Information:

Comments:

RON MINKS
Director, Western Canada Operations

For any questions about this report please contact your Account Manager:

SHANNON LUCHKA

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the ALS Laboratory Group
9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-1 12328-TH1-5.0								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	24	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	16		5	mg/kg		14-JUN-07		
F4G-SG (GHH-Silica)	<100	RAMB	100	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	40		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	NO					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	66		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	88		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	10		0.1	%		07-JUN-07	MOS	R532581
F4G Prep/Analysis Dates					12-JUN-07	12-JUN-07	GRB	R534452
Lead (Pb)	<5		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-2 12328-TH2-2.5								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	73	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	38		5	mg/kg		14-JUN-07		
F4G-SG (GHH-Silica)	<100	RAMB	100	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	120		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	NO					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	96		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	153		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005	RAMB	0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01	RAMB	0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	17		0.1	%		07-JUN-07	MOS	R532581
F4G Prep/Analysis Dates					12-JUN-07	12-JUN-07	GRB	R534452
Lead (Pb)	9		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-3 12328-TH3-2.5								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	17	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	10		5	mg/kg		14-JUN-07		
F4G-SG (GHH-Silica)	<100	RAMB	100	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	27		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	NO					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	78		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	126		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	12		0.1	%		07-JUN-07	MOS	R532581
F4G Prep/Analysis Dates					12-JUN-07	12-JUN-07	GRB	R534452
Lead (Pb)	6		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-4 12328-TH4-20								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	16	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	9		5	mg/kg		14-JUN-07		
F4G-SG (GHH-Silica)	<100	RAMB	100	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	25		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	NO					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	90		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	110		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	11		0.1	%		07-JUN-07	MOS	R532581
F4G Prep/Analysis Dates					12-JUN-07	12-JUN-07	GRB	R534452
Lead (Pb)	6		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-5 12328-TH5-10								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	9	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	<5		5	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	9		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	YES					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	82		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	101		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	13		0.1	%		07-JUN-07	MOS	R532581
Lead (Pb)	7		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-6 12328-TH6-22.5								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		14-JUN-07		
F1-BTEX	<5		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	25	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	16		5	mg/kg		14-JUN-07		
F4G-SG (GHH-Silica)	<100	RAMB	100	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	41		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	NO					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	88		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	103		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	<0.01		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	<0.02		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	11		0.1	%		07-JUN-07	MOS	R532581
F4G Prep/Analysis Dates					12-JUN-07	12-JUN-07	GRB	R534452
Lead (Pb)	6		5	mg/kg		12-JUN-07	HAS	R534587

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514345-7 12328-TH7-12.5								
Sampled By: DC on 01-JUN-07								
Matrix: GRAB								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	31		5	mg/kg		14-JUN-07		
F1-BTEX	27		5	mg/kg		14-JUN-07		
F2 (C10-C16)	<5		5	mg/kg		14-JUN-07		
F3 (C16-C34)	11	RAMB	5	mg/kg		14-JUN-07		
F4 (C34-C50)	<5		5	mg/kg		14-JUN-07		
Total Hydrocarbons (C6-C50)	42		5	mg/kg		14-JUN-07		
Chromatogram to baseline at nC50	YES					14-JUN-07		
CCME Total Extractable Hydrocarbons								
Surr: 2-Bromobenzotrifluoride	82		43-163	%	09-JUN-07	10-JUN-07	VN	R533927
Surr: Hexatriacontane	109		43-173	%	09-JUN-07	10-JUN-07	VN	R533927
Prep/Analysis Dates					09-JUN-07	10-JUN-07	VN	R533927
CCME BTEX								
Benzene	0.069		0.005	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Toluene	0.13		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Ethylbenzene	1.2		0.01	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
Xylenes	2.7		0.02	mg/kg	07-JUN-07	13-JUN-07	YAN	R535239
% Moisture	12		0.1	%		07-JUN-07	MOS	R532581
Lead (Pb)	5		5	mg/kg		12-JUN-07	HAS	R534587

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
RAMB	Result Adjusted For Method Blank

Methods Listed (If applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based
ETL-BTX,TVH-CCME-ED	Soil	CCME BTEX	EPA 5030	CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-OGG-CCME-ED	Soil	CCME Gravimetric Heavy Hydrocarbons (SG)		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TEH-CCME-ED	Soil	CCME Total Extractable Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TVH,TEH-CCME-ED	Soil	CCME Total Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PH

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines ar the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes h been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

PB-MUST-ED	Soil	Lead (Pb)	EPA 3050	EPA 200.7
PREP-MOISTURE-ED	Soil	% Moisture		Oven dry 105C-Gravimetric

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

a043062

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million
mg/L (units) - unit of concentration based on volume, parts per million
< - Less than
D.L. - Detection Limit
N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS Laboratory Group Quality Control Report

Workorder: L514345 Report Date: 19-JUN-07

Client: SHELBY ENGINEERING LTD
9632 54 AVE
EDMONTON AB T6E 5V1

Contact: VALERIE MCKELLAR

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ETL-BTX,TVH-CCME-ED	Soil							
Batch R535239								
WG606960-1 DUP		L514345-1						
Benzene		<0.005	<0.005	RPD-NA	mg/kg	N/A	40	13-JUN-07
Ethylbenzene		<0.01	<0.01	RPD-NA	mg/kg	N/A	49	13-JUN-07
Toluene		<0.01	<0.01	RPD-NA	mg/kg	N/A	53	13-JUN-07
TVH: (C6-C10 / No BTEX Correction)		<5	<5	RPD-NA	mg/kg	N/A	64	13-JUN-07
Xylenes		<0.02	<0.02	RPD-NA	mg/kg	N/A	54	13-JUN-07
WG610405-2 LCS								
Benzene			88		%		28-105	13-JUN-07
Ethylbenzene			93		%		29-109	13-JUN-07
Toluene			69		%		31-105	13-JUN-07
TVH: (C6-C10 / No BTEX Correction)			30		%		2-76	13-JUN-07
Xylenes			94		%		28-106	13-JUN-07
WG610405-1 MB								
Ethylbenzene			<0.01		mg/kg		0.01	13-JUN-07
Toluene			<0.01		mg/kg		0.01	13-JUN-07
TVH: (C6-C10 / No BTEX Correction)			<5		mg/kg		5	13-JUN-07
Xylenes			<0.02		mg/kg		0.02	13-JUN-07
Benzene			0.016	A	mg/kg		0.005	13-JUN-07
ETL-OGG-CCME-ED	Soil							
Batch R534452								
WG609509-2 DUP		L511591-33						
Gravimetric Heavy Hydrocarbons (Silica)		200	<100	G	mg/kg	N/A	55	12-JUN-07
WG609509-3 DUP		L513213-5						
Gravimetric Heavy Hydrocarbons (Silica)		700	800	J	mg/kg	100	400	12-JUN-07
WG609509-4 DUP		L512953-4						
Gravimetric Heavy Hydrocarbons (Silica)		<100	<100	RPD-NA	mg/kg	N/A	55	12-JUN-07
WG609509-5 DUP		L512966-16						
Gravimetric Heavy Hydrocarbons (Silica)		100	<100	RPD-NA	mg/kg	N/A	55	12-JUN-07
WG609509-6 DUP		L514306-42						
Gravimetric Heavy Hydrocarbons (Silica)		<100	<100	RPD-NA	mg/kg	N/A	55	12-JUN-07
WG609509-7 DUP		L514234-22						
Gravimetric Heavy Hydrocarbons (Silica)		100	<100	RPD-NA	mg/kg	N/A	55	12-JUN-07
WG609509-1 MB								
Gravimetric Heavy Hydrocarbons (Silica)			300	A	mg/kg		100	12-JUN-07
ETL-TEH-CCME-ED	Soil							

ALS Laboratory Group Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ETL-TEH-CCME-ED	Soil							
Batch R533927								
WG608830-3 DUP		L514306-42						
TEH: (C10-C16)		<5	<5	RPD-NA	mg/kg	N/A	63	10-JUN-07
TEH: (C16-C34)		22	31	BAMB	mg/kg	9	20	10-JUN-07
TEH: (C34-C50)		15	18	J	mg/kg	3	20	10-JUN-07
WG608830-2 LCS								
TEH: (C10-C16)			122		%		48-133	10-JUN-07
TEH: (C16-C34)			122		%		48-133	10-JUN-07
TEH: (C34-C50)			122		%		48-133	10-JUN-07
WG608830-1 MB								
TEH: (C10-C16)			<5		mg/kg		5	10-JUN-07
TEH: (C34-C50)			<5		mg/kg		5	10-JUN-07
TEH: (C16-C34)			15	A	mg/kg		5	10-JUN-07
PB-MUST-ED	Soil							
Batch R534587								
WG609409-3 DUP		L514345-1						
Lead (Pb)		<5	5	RPD-NA	mg/kg	N/A	26	12-JUN-07
WG609409-1 MB								
Lead (Pb)			<5		mg/kg		25	12-JUN-07
WG609409-4 MS		L514345-1						
Lead (Pb)			99		%		70-122	12-JUN-07
PREP-MOISTURE-ED	Soil							
Batch R532581								
WG606967-1 DUP		L514345-1						
% Moisture		10	11		%	7.6	10	07-JUN-07

ALS Laboratory Group Quality Control Report

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

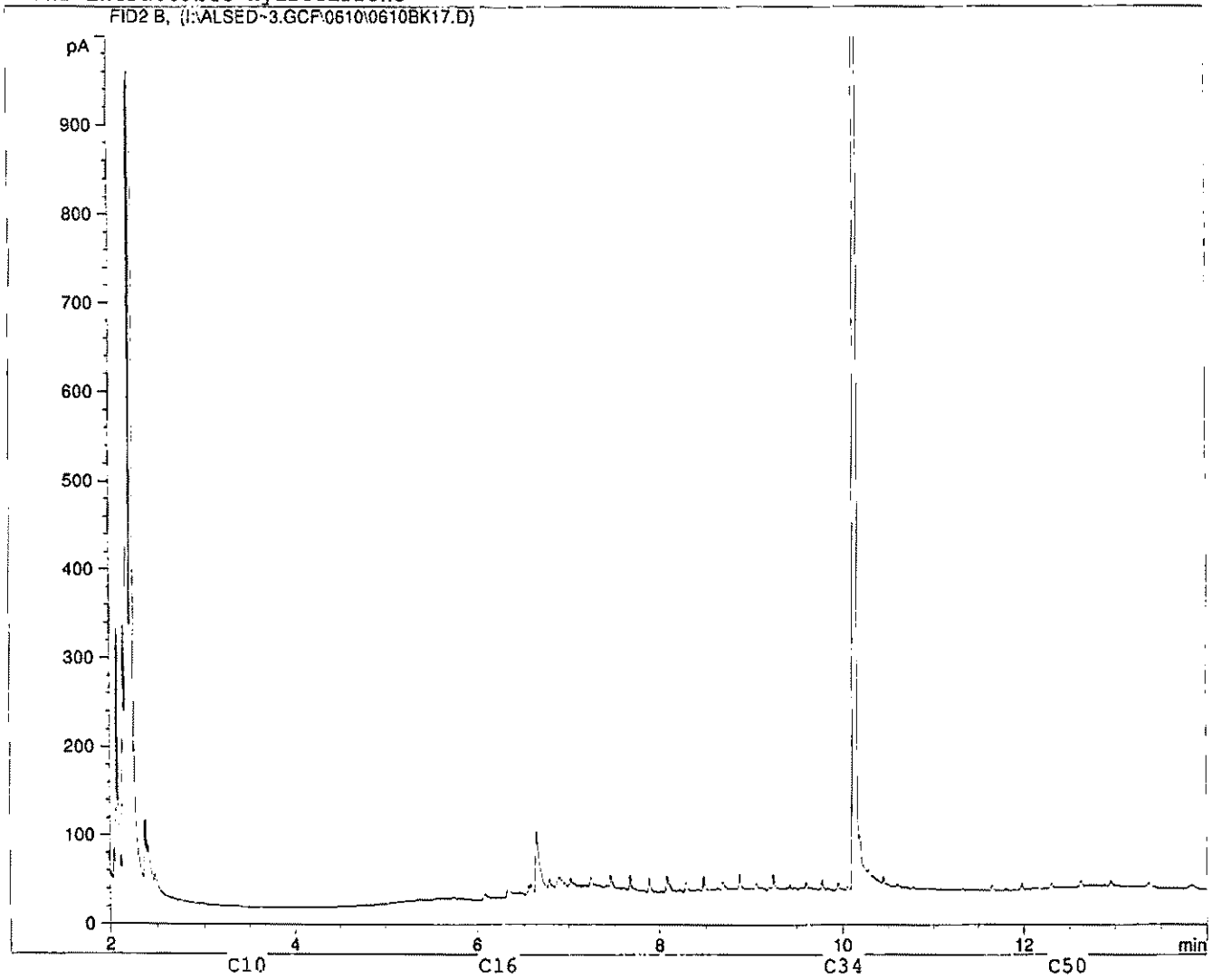
Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

Client ID: 12328-TH1-5.0

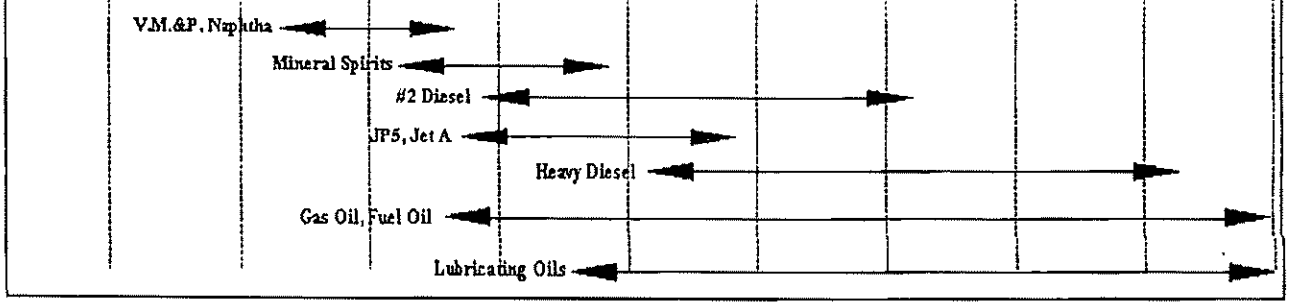
Sample ID: L514345-1 4
Injection Date: 6/10/07 9:22:27 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840

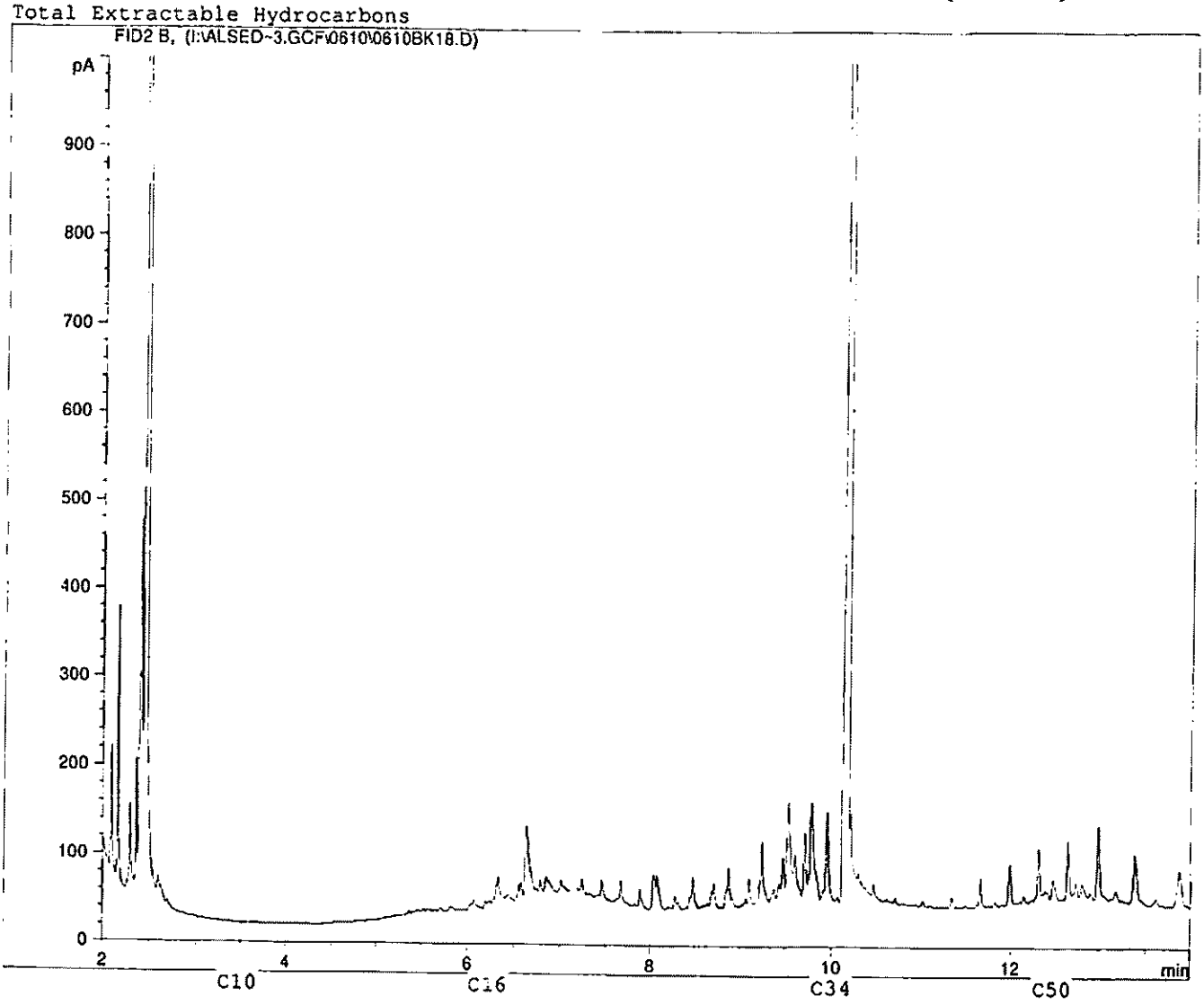


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989; p XVIII

Client ID: 12328-TH2-2.5

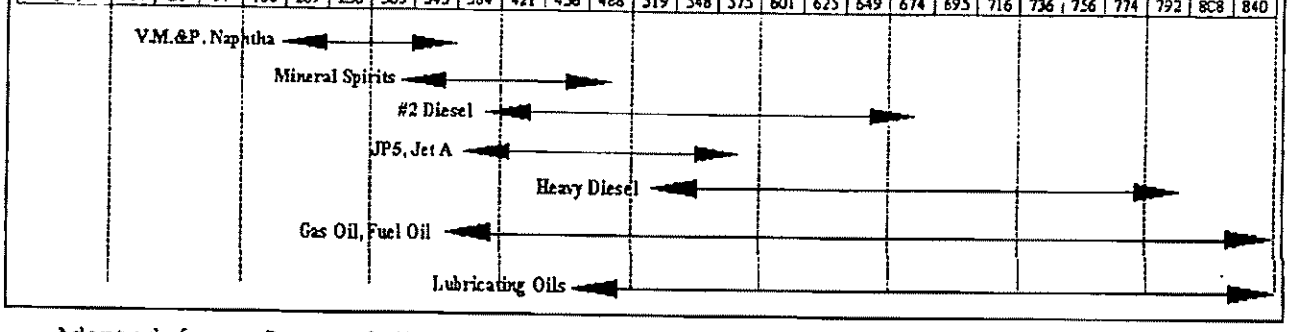
Sample ID: L514345-2 4
Injection Date: 6/10/07 9:49:31 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840

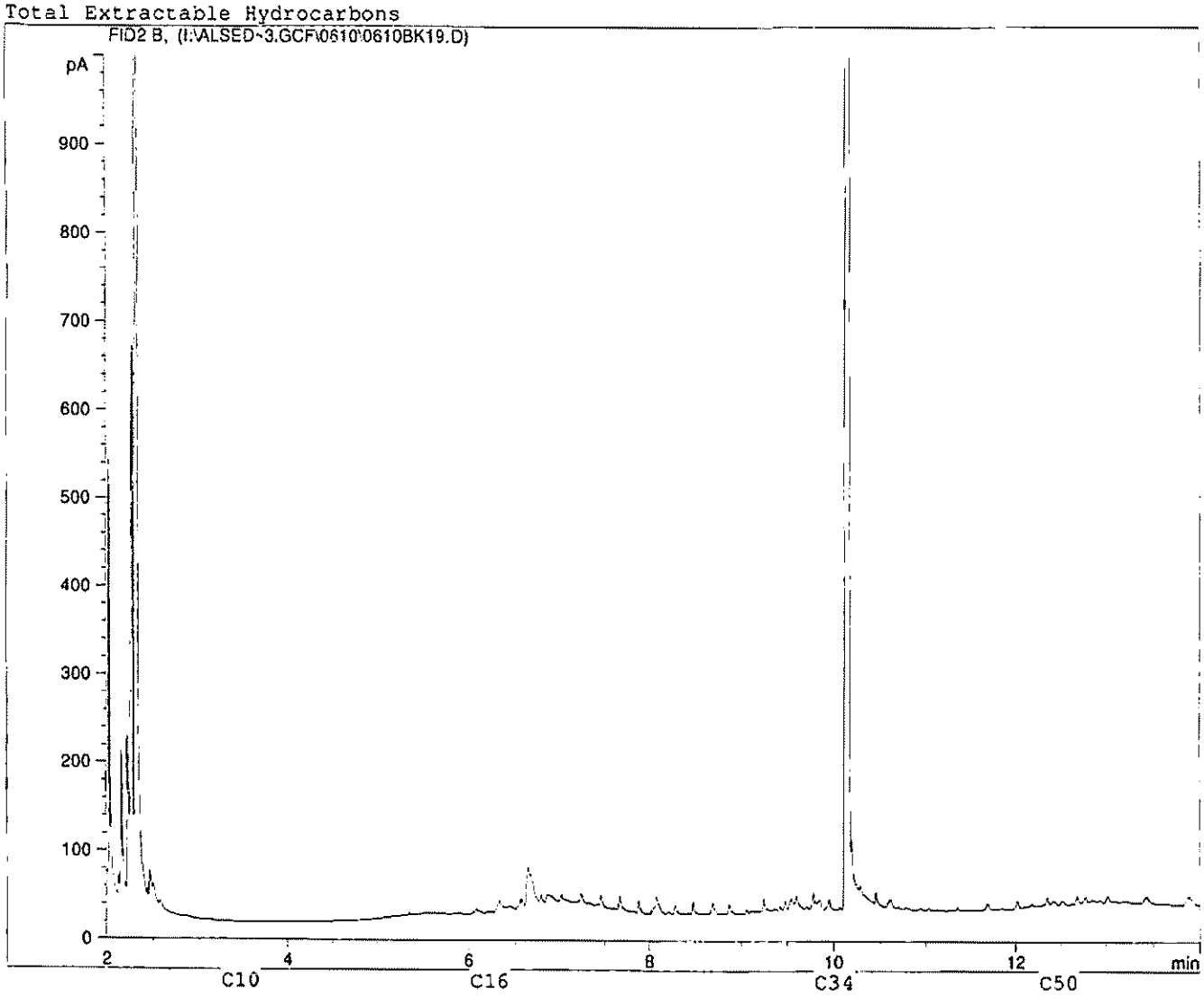


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: 12328-TH3-2.5

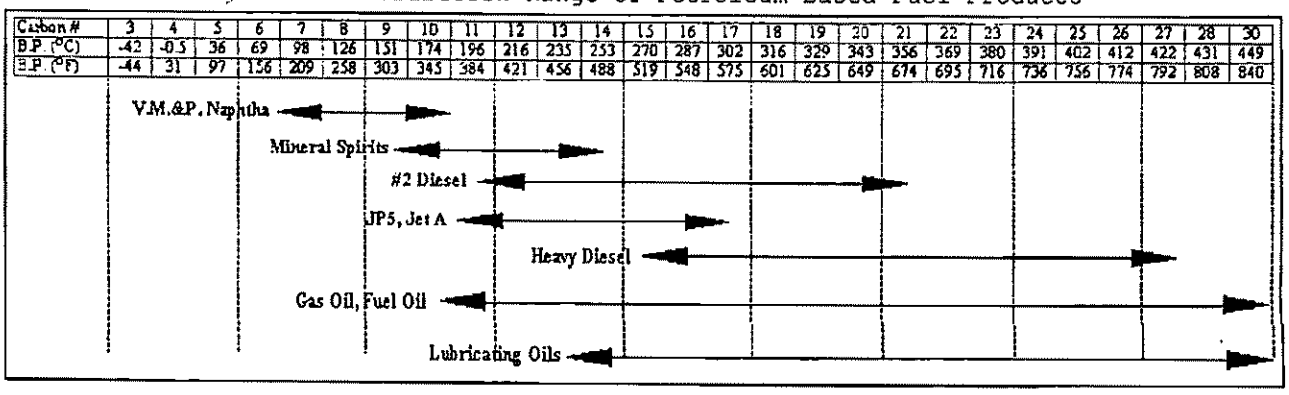
Sample ID: L514345-3 4
Injection Date: 6/10/07 10:16:46 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P. (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P. (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840

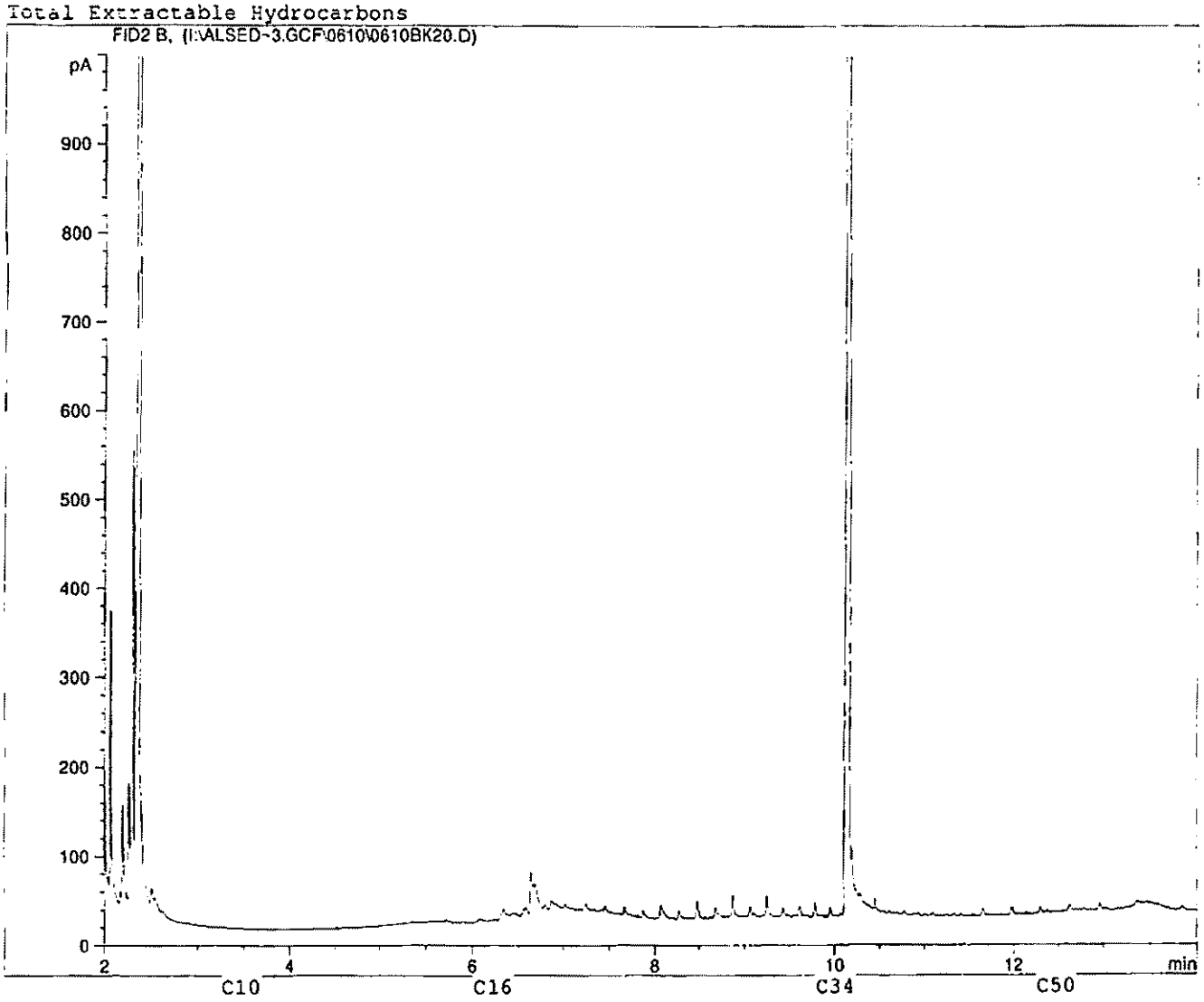


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

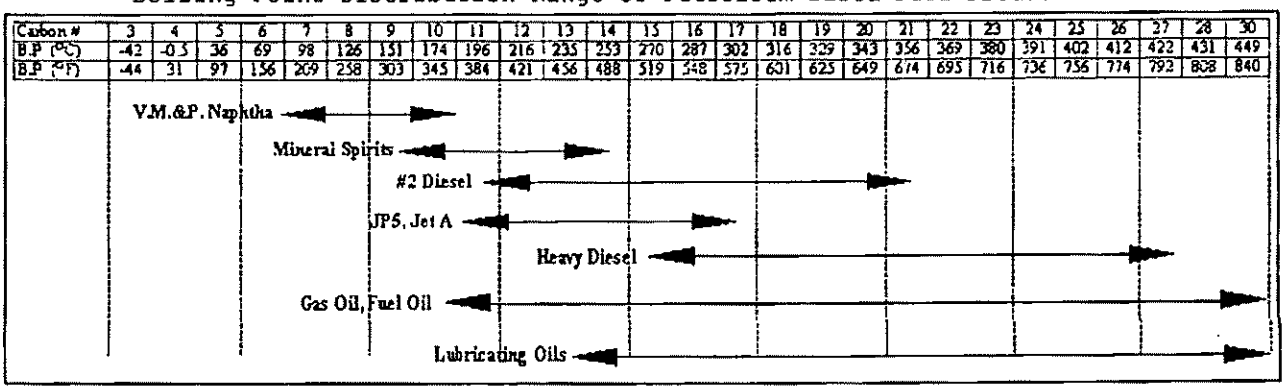
Client ID: 12328-TH4-20

Sample ID: L514345-4 4
Injection Date: 6/10/07 10:43:48 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

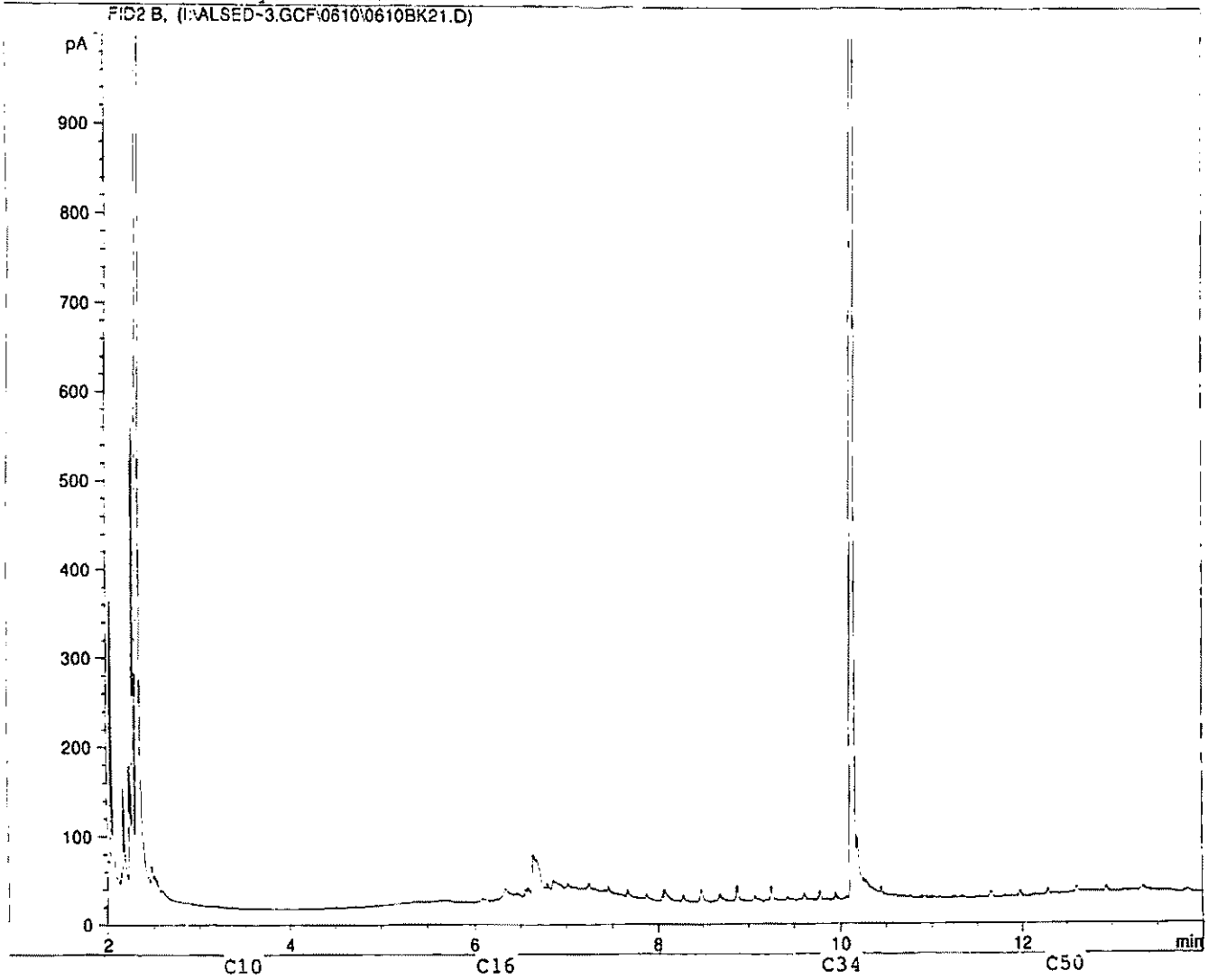


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: 12328-TH5-10

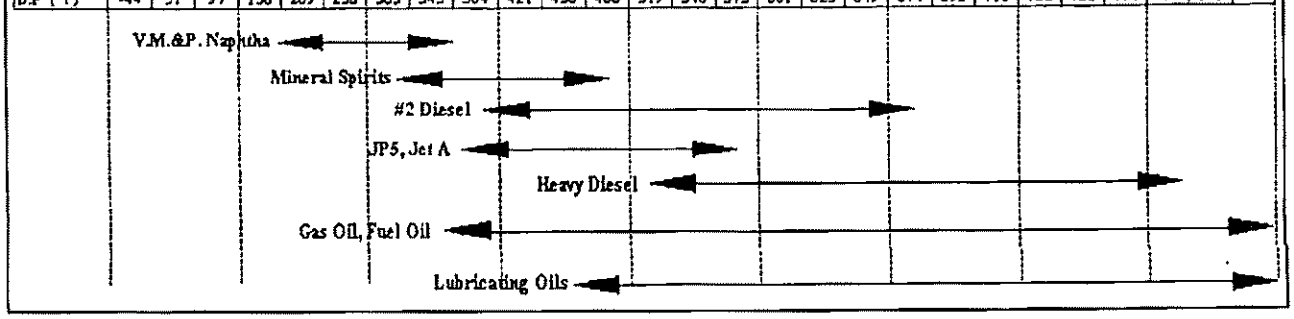
Sample ID: L514345-5 4
Injection Date: 6/10/07 11:10:50 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	35	27	28	30
B.P (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840

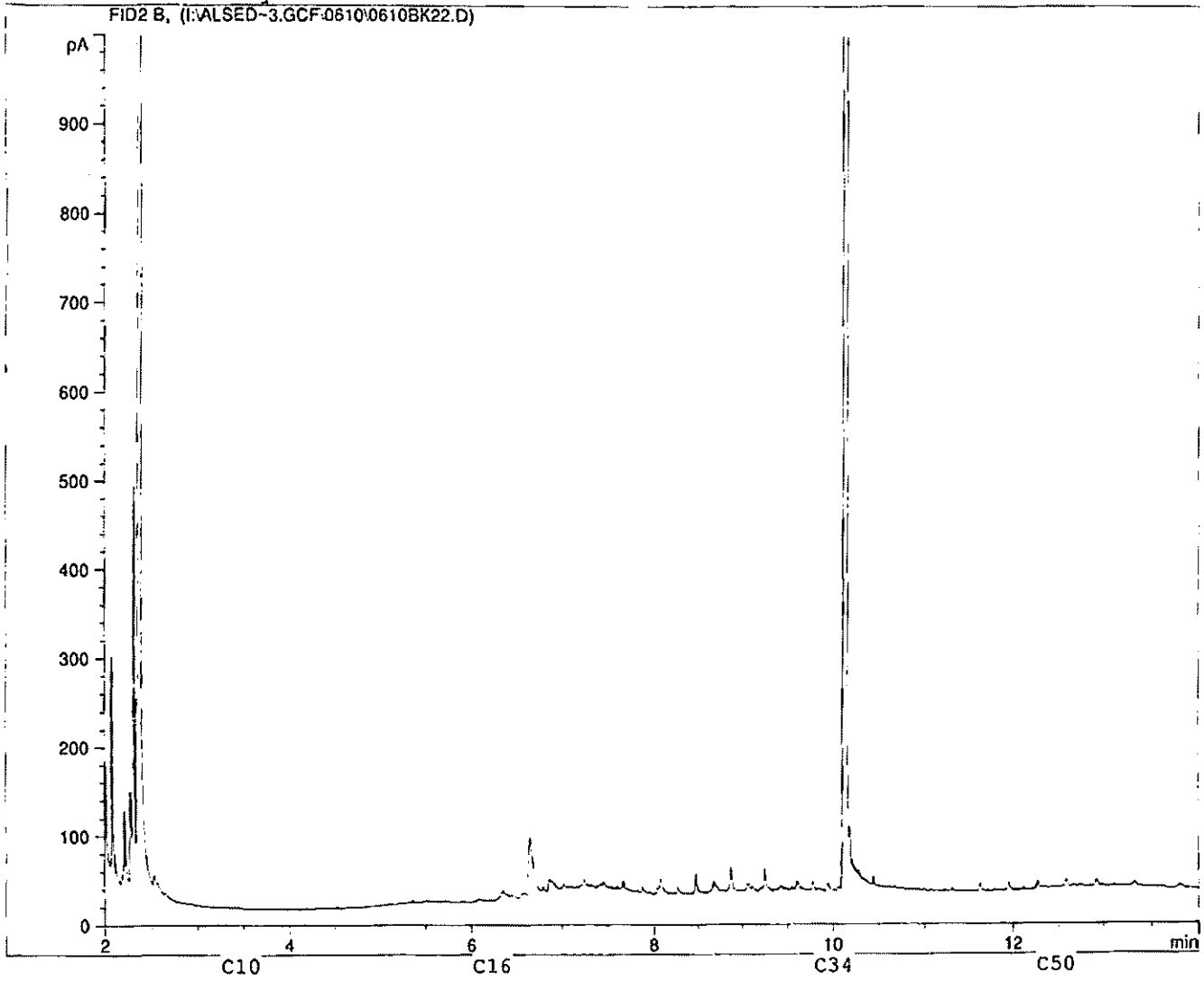


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

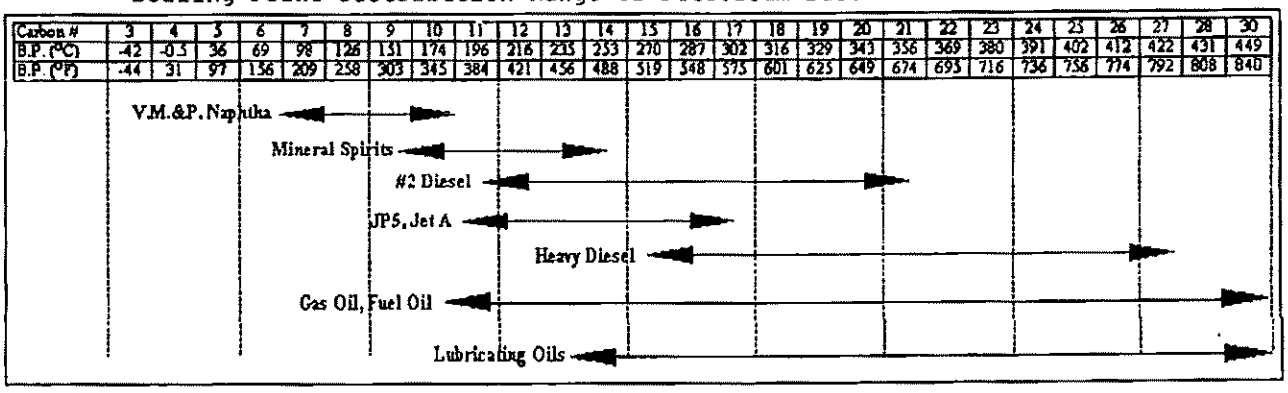
Client ID: 12328-TH6-22.5

Sample ID: L514345-6 4
Injection Date: 6/10/07 11:38:09 PM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

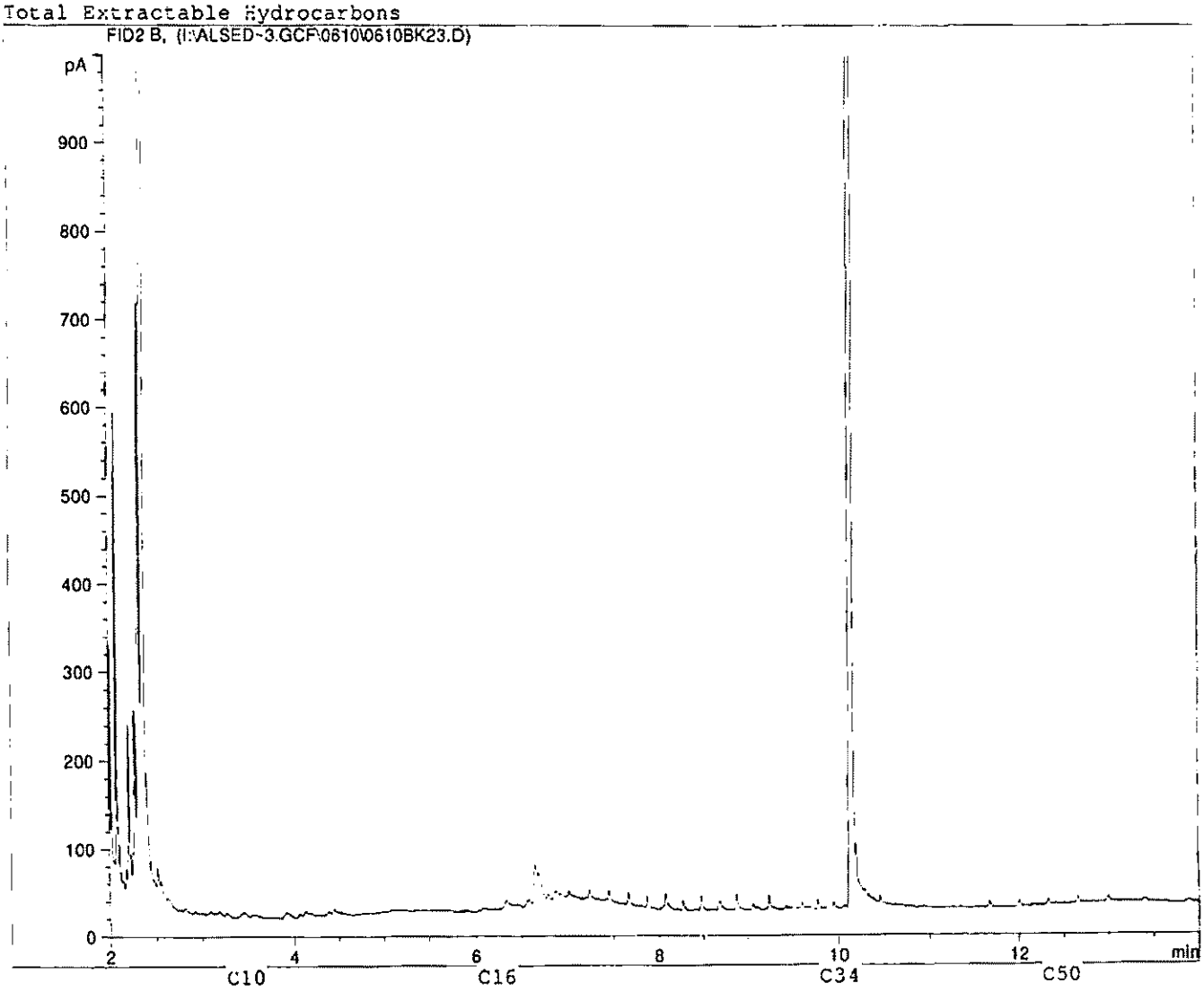


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

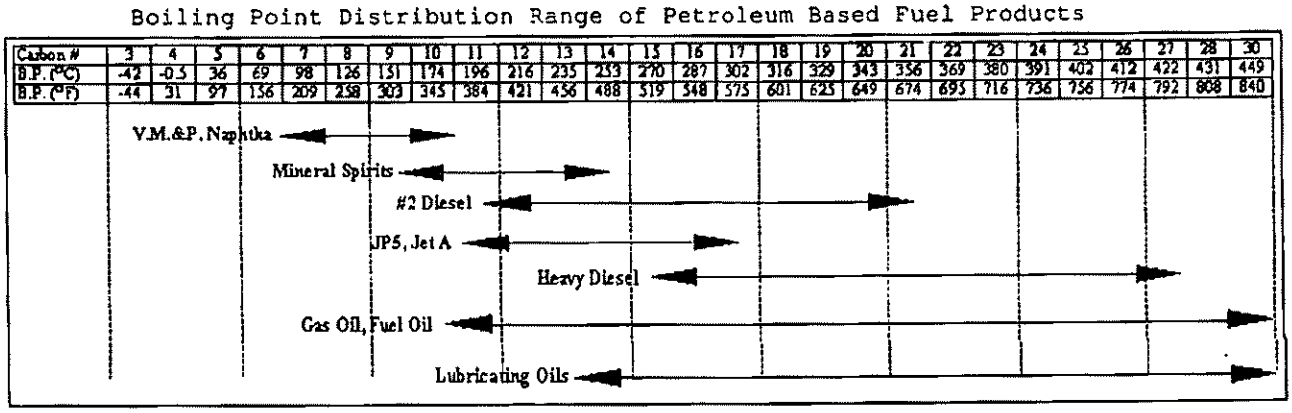
Client ID: 12328-TH7-12.5

Sample ID: L514345-7 4
Injection Date: 6/11/07 12:05:10 AM
Instrument: 6890

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

www.alsenviro.com

COC # A043062

Page ___ of ___

REPORT TO:	REPORT FORMAT / DISTRIBUTION	SERVICE REQUESTED
COMPANY: Shelby Engineering Ltd.	STANDARD ✓ OTHER ___	✓ REGULAR SERVICE (DEFAULT)
CONTACT: Valerie McKellar	PDF ✓ EXCEL ___ CUSTOM ___ FAX ___	RUSH SERVICE (2-3 DAYS)
ADDRESS: 9632-54 ave	EMAIL 1: vmckellar@shelbyengineering.ca	PRIORITY SERVICE (1 DAY or ASAP)
Edmonton AB T6E 5V1	EMAIL 2:	EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS
PHONE: 438-2540 FAX: 434-3089		ANALYSIS REQUEST
INVOICE TO: SAME AS REPORT ? (YES) NO	INDICATE BOTTLES: FILTERED / PRESERVED (F/P)	
COMPANY:	CLIENT / PROJECT INFORMATION:	
CONTACT:	JOB #: 3-12328	
ADDRESS:	PO /AFE: 3-12328	
	Legal Site Description:	
PHONE: FAX:	QUOTE #:	
Lab Work Order # (lab use only): L514345		SAMPLER (Initials): DC

Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	BTX, TUH, TEH CCME	PB - Must	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
	12328-TH1-5.0	June 6/07		grab	✓	✓			3
	12328-TH2-2.5				✓	✓			3
	12328-TH3-2.5				✓	✓			3
	12328-TH4-20				✓	✓			3
	12328-TH5-10				✓	✓			3
	12328-TH6-22.5				✓	✓			3
	12328-TH7-12.5				✓	✓			3

GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION (lab use only)	
	June 6/07 1:16			TEMPERATURE	SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO (If no provide details)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME: 13:21		

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

GENF14 00

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

ANALYTICAL REPORT

SHELBY ENGINEERING LTD
ATTN: VALERIE MCKELLAR
9632 54 AVE
EDMONTON AB T6E 5V1

Reported On: 19-JUN-07 03:54 PM
Revision: 1

Lab Work Order #: L514491

Date Received: 06-JUN-07

Project P.O. #:
Job Reference:
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:

RON MINKS
Director, Western Canada Operations

For any questions about this report please contact your Account Manager:

SHANNON LUCHKA

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514491-1 12328 TH4								
Sampled By: M.E. on 06-JUN-07								
Matrix: BAIL								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	07-JUN-07	11-JUN-07	MKE	R534165
Surr: 2-Bromobenzotrifluoride	95		65-146	%	07-JUN-07	11-JUN-07	MKE	R534165
BTEX and F1 (C6-C10)								
Benzene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
Toluene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
EthylBenzene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
Xylenes	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
F1(C6-C10)	<0.1		0.1	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
F1-BTEX	<0.1		0.1	mg/L	15-JUN-07	15-JUN-07	NRG	R536234

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L514491-2 12328 TH5								
Sampled By: M.E. on 06-JUN-07								
Matrix: BAIL								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	07-JUN-07	11-JUN-07	MKE	R534165
Surr: 2-Bromobenzotrifluoride	109		65-146	%	07-JUN-07	11-JUN-07	MKE	R534165
BTEX and F1 (C6-C10)								
Benzene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
Toluene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
EthylBenzene	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
Xylenes	<0.00050		0.0005	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
F1(C6-C10)	<0.1		0.1	mg/L	15-JUN-07	15-JUN-07	NRG	R536234
F1-BTEX	<0.1		0.1	mg/L	15-JUN-07	15-JUN-07	NRG	R536234

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based
BTX,F1-ED	Water	BTEX and F1 (C6-C10)	EPA 5030	EPA 5030/8015&8260-P&T GC-MS & FID
F2-ED	Water	F2 (>C10-C16)		EPA 3510/8000-GC-FID

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million
mg/L (units) - unit of concentration based on volume, parts per million
< - Less than
D.L. - Detection Limit
N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS Laboratory Group Quality Control Report

Workorder: L514491 Report Date: 19-JUN-07

Client: SHELBY ENGINEERING LTD
9632 54 AVE
EDMONTON AB T6E 5V1

Contact: VALERIE MCKELLAR

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX,F1-ED	Water							
Batch R536234								
WG611758-4 LCS								
Benzene			82		%		45-106	15-JUN-07
EthylBenzene			82		%		47-108	15-JUN-07
Toluene			83		%		46-111	15-JUN-07
F1(C6-C10)			48		%		35-154	15-JUN-07
Xylenes			81		%		45-109	15-JUN-07
WG611758-3 MB								
Benzene			<0.00050		mg/L		0.0005	15-JUN-07
EthylBenzene			<0.00050		mg/L		0.0005	15-JUN-07
Toluene			<0.00050		mg/L		0.0005	15-JUN-07
F1(C6-C10)			<0.1		mg/L		0.1	15-JUN-07
Xylenes			<0.00050		mg/L		0.0005	15-JUN-07
F2-ED	Water							
Batch R534165								
WG609241-2 LCS								
F2 (>C10-C16)			68		%		38-152	11-JUN-07
WG609241-1 MB								
F2 (>C10-C16)			<0.05		mg/L		0.05	11-JUN-07

ALS Laboratory Group Quality Control Report

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

www.alsenviro.com

COC # A043063

Page _ of _

REPORT TO:	REPORT FORMAT / DISTRIBUTION	SERVICE REQUESTED
COMPANY: Shelly Engineering	STANDARD ✓ OTHER ____	✓ REGULAR SERVICE (DEFAULT)
CONTACT: Valerie McLellan	PDF ✓ EXCEL ____ CUSTOM ____ FAX ____	RUSH SERVICE (2-3 DAYS)
ADDRESS: 9632 - 54 Ave	EMAIL 1: Vmclellan@shellyengineering.ca	PRIORITY SERVICE (1 DAY or ASAP)
Ed. AB T6E 5V1	EMAIL 2:	EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS
PHONE: 438-2540 FAX:		ANALYSIS REQUEST
INVOICE TO: SAME AS REPORT ? (YES) NO	INDICATE BOTTLES: FILTERED / PRESERVED (F/P)	
COMPANY:	CLIENT / PROJECT INFORMATION:	
CONTACT:	JOB #:	
ADDRESS:	PO /AFE:	
	Legal Site Description:	
PHONE: FAX:	QUOTE #:	
Lab Work Order # (lab use only): L5149	SAMPLER (Initials): ME	

Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	BTX, F1, F2 ONLY	TSOIL	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
	12328	June 6/07		Soil	✓				
	12328	"		"	✓				

GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

Failure to complete all portions of this form may delay analysis. Please fill in this form *LEGIBLY*.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION (lab use only)	
Val McLellan	3:15 06/06/07	Spoole	06-Jun-07	TEMPERATURE	SAMPLES RECEIVED IN GOOD CONDITION ? YES / NO (If no provide details)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	13.4 °C	
			15:15		

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

GENF14 00

APPENDIX III

STANDARD TERMS AND CONDITIONS FOR THE PROVISION OF SERVICES BY SHELBY ENGINEERING LTD.

1. "The services ("the Services") performed for the client (the "Client") by Shelby Engineering Ltd. ("Shelby") described in the report to which these Standard Terms and Conditions are attached (the "Report") have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the engineering profession currently practicing in the jurisdiction in which the Services have been provided."

2. In consideration of the provision of the Services, the Client agrees to the limitation of liability provisions herein contained, both on its own behalf, and as agent on behalf of its employees and principals.

3. The total amount of all claims the Client may have against Shelby with respect to the Services, including, without limitation, claims in tort or contract, shall be strictly limited to the amount of the fee charged to the Client by Shelby for the Services. Shelby shall not be liable for loss, injury or damage caused by delays beyond Shelby's control, or for any indirect, economic or consequential loss, injury or damage incurred by the Client, including, without limitation, claims for loss of profits, loss of contracts, loss of use, loss of production or business opportunity, loss of contracts or continued overhead expense. No claim shall be brought by the Client against Shelby more than two (2) years after completion of the Services or termination of the agreement to provide the Services.

4. The Client shall have no right to set off against any amounts owed to Shelby with respect to the Services.

5. The Client agrees that Shelby's employees and principals shall have no personal liability with respect to the Services and the Client shall make no claim or bring any proceedings of any kind whatsoever whether in contract, tort or any other cause of action in law or equity, against Shelby's employees and principals in their personal capacity.

6. The Client acknowledges that the Services entail an investigation which by its nature involves the risk that certain conditions between points investigated will not be detected, and that certain other conditions may change with time after provision of the written report of the Services. The Client acknowledges and accepts such risk and is aware that the Report can only provide for the conditions at the investigated points at the time of investigation. Extrapolation between the investigated points is at the Client's risk. If the Client requires additional or special investigations outside the scope of the Report, the Client must request such additional investigations from Shelby.

7. The Report has been prepared for a specific site and in light of the specific purposes communicated to Shelby by the Client. Shelby accepts no responsibility for the findings contained in the Report if applied to a different site, or if there is a material change in the purposes communicated to Shelby by the Client. The information and opinions described in the Report are provided solely for the benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THE WRITTEN CONSENT OF SHELBY. The Client shall maintain confidentiality of the Report and ensure that the Report is not distributed to third parties. The Client hereby agrees to indemnify Shelby for any claims brought against Shelby by third parties and arising out of the Client's failure to maintain the confidentiality required under this paragraph 7.

8. Except as stipulated in the Report, Shelby has not been retained to address, investigate or consider, and has not addressed, investigated or considered environmental or regulatory issues with respect to the site on which the Services have been performed. Notwithstanding the foregoing, Shelby may be required to disclose to regulatory bodies certain hazardous conditions discovered through provision of the Services, and the Client shall not make any claim against Shelby for such disclosure.

Government of Alberta

Alberta Environment records indicate a reclamation certificate has been issued for the property of interest.

Reclamation Certificate number **55-4409** was issued **6/29/1979**.

Site Name: **KISSINGER ET AL SADDLE LK11-3-58-11 WELL AND ACCESS ROAD**

Land held by: **Kissinger Petroleums Ltd.**

Legal Land Location(s):

LSD	Quarter	Section	Township	Range	Meridian
11	NW	03	058	11	4

APPENDIX H

Fire Insurance Plans

opta
INFORMATION INTELLIGENCE

enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Midori

Site Address:
53.98484, -111.54482

Project No:

3518.0029.02

Opta Order ID:
105399

Requested by:
Jason Frederickson
Urban Systems

Date Completed:
4/4/2022 1:29:26 PM

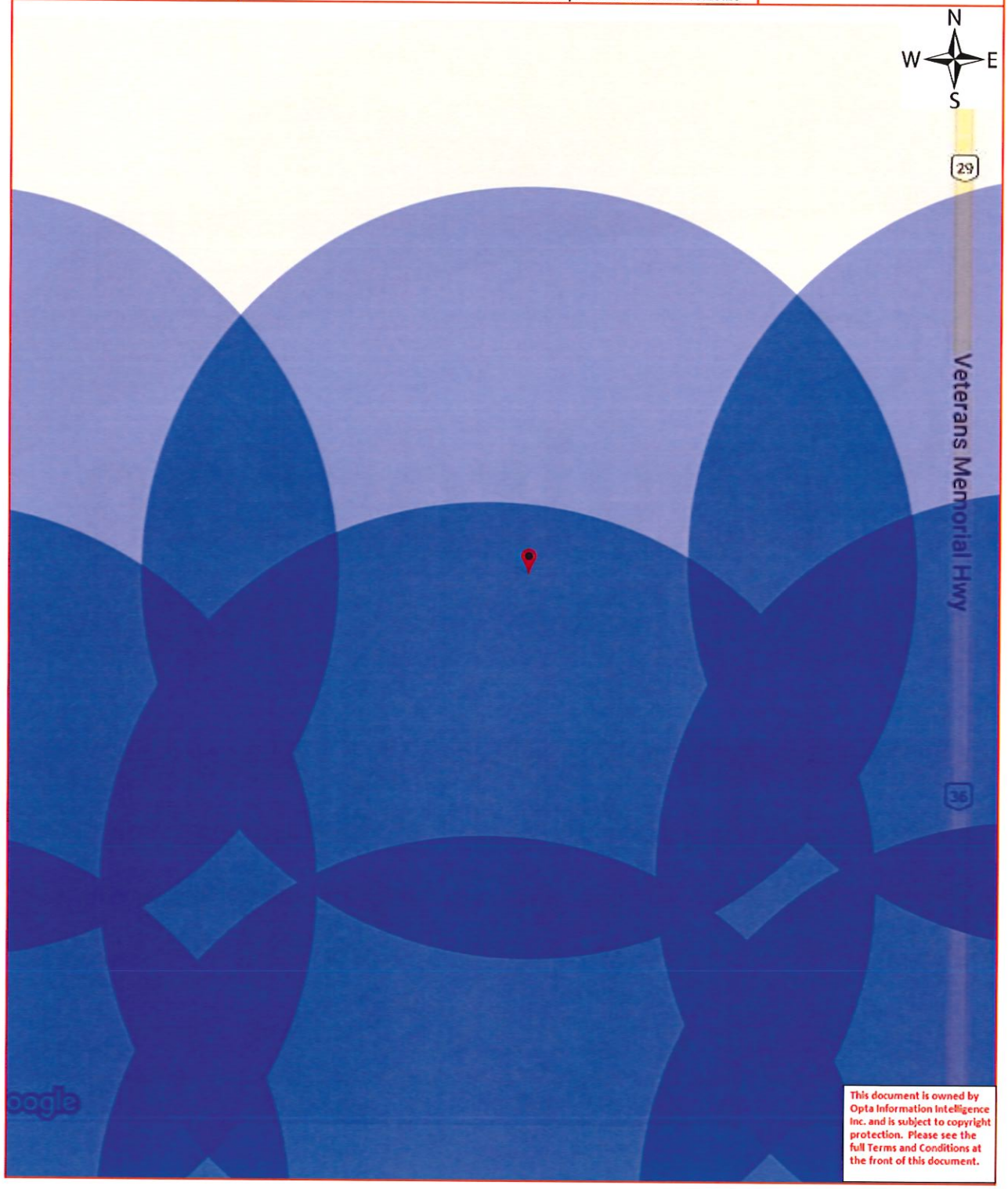
Project #: 3518.0029.02

ENVIROSCAN Report

Search Area: 53.98484, -111.54482

Requested by:
Jason Frederickson
Date Completed: 04/04/2022 13:29:26

enviroscan
OPTA INFORMATION INTELLIGENCE



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Opta Historical Environmental Services Enviroscan ™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

Project #: 3518.0029.02

ENVIROSCAN Report

No Records Found

Requested by:
Jason Frederickson
Date Completed: 04/04/2022 13:29:26

enviroscan
OPTA INFORMATION INTELLIGENCE

No Records Found

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