



PEACE RIVER REGIONAL DISTRICT

DAWSON CREEK 1981 Alaska Avenue (Box 810), Dawson Creek, BC (T) 250-784-3200..(F) 250-784-3201  
 FORT ST. JOHN 9505 100<sup>TH</sup> Avenue, Fort St. John, BC V1J 4N4 (T) 250-785-8084 (F) 250-785-1125  
 [Toll Free: 1-800-670-7773]

Receipt # \_\_\_\_\_

Application for Development

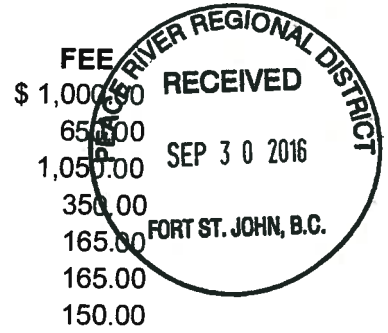
1. TYPE OF APPLICATION

- Official Community Plan Bylaw Amendment
- Zoning Bylaw Amendment
- Official Community Plan / Zoning Bylaw Amendment combined
- Temporary Use Permit
- Development Permit
- Development Variance Permit
- Sign requirement

In regard to applications for:

- i) an official community plan and/or zoning bylaw amendment;
- ii) temporary use permit;

Sign provided by the PRRD and sign posted pursuant to Section 8 of Bylaw No. 2165, 2016, **attached**.



2. PLEASE PRINT

Property Owner's Name <i>WildFire Land &amp; Cattle Co. Ltd.</i>	Authorized Agent of Owner (if applicable)
Address of Owner [REDACTED]	Address of Agent
City/Town/Village [REDACTED]	City/Town/Village
Postal Code [REDACTED]	Postal Code
Telephone Number: [REDACTED]	Telephone Number:
Fax Number: [REDACTED]	Fax Number:
E-mail: <i>gr</i> [REDACTED]	E-mail:

3. PROPERTY DESCRIPTION

Full legal description of each property under application	Area of each lot
<i>NE 1/4 of DL 41 PRRD (PID: 014-746-701)</i>	<i>65</i> ha./acres
	ha./acres
	ha./acres
	TOTAL AREA <i>65</i> ha./acres

**Notice of collection of personal information:**  
 Personal information on this form is collected for the purpose of processing this application. The personal information is collected under the authority of the *Local Government Act* and the bylaws of the PRRD. Documentation/Information submitted in support of this application can be made available for public inspection pursuant to the *Freedom of Information and Protection of Privacy Act*.

4. Civic Address or location of property: \_\_\_\_\_

**5. PARTICULARS OF PROPOSED AMENDMENT**

Please check the box(es) that apply to your proposal:

Official Community Plan (OCP) Bylaw amendment:

Existing OCP designation: \_\_\_\_\_

Proposed OCP designation: \_\_\_\_\_

Text amendment: \_\_\_\_\_

Zoning Bylaw amendment:

Existing zone: \_\_\_\_\_

Proposed zone: \_\_\_\_\_

Text amendment: \_\_\_\_\_

Development Variance Permit – describe proposed variance request:

\_\_\_\_\_  
\_\_\_\_\_

Temporary Use Permit – describe proposed use:

Continue operation of a temporary worker camp  
(500 person capacity) on a 25 acre portion of the property

Development Permit: Bylaw No. \_\_\_\_\_ Section No. \_\_\_\_\_

6. Describe the existing use and buildings on the subject property:

There is an existing camp on 25 acres of the subject property.  
approximately 80 buildings in total some tied in  
to form camp, including rec room, washrooms, kitchen

7. Describe the existing land use and buildings on all lots adjacent to and surrounding the subject property:

(a) North Ranching/forestry/oil & gas

(b) East " "

(c) South " "

(d) West " "

8. Describe the proposed development of the subject property. Attach a separate sheet if necessary:

operation of a 500 man camp to service the oil &  
gas industry - See attached camp layout

9. Reasons and comments in support of the application. Attach a separate sheet if necessary:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Describe the means of sewage disposal for the development:

\_\_\_\_\_ sewer tanks - trucked out \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Describe the means of water supply for the development:

\_\_\_\_\_ Cisterns - hauled in \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**THE FOLLOWING INFORMATION IS REQUIRED. FAILURE TO PROVIDE MAY DELAY YOUR APPLICATION.**

12. Proof of ownership of the subject property or properties. (For example: Certificate of State of Title, BC Land Title Office Property Title Search or recent Property Tax Notice.)
13. A Sketch Plan of the subject property or properties, showing:
  - (a) the legal boundaries and dimensions of the subject property;
  - (b) boundaries, dimensions and area of any proposed lots (if subdivision is being proposed);
  - (c) the location of existing buildings and structures on the subject property, with distances to property lines;
  - (d) the location of any proposed buildings, structures, or additions thereto, with distances to property lines;
  - (e) the location of any existing sewage disposal systems;
  - (f) the location of any existing or proposed water source.

**ADDITIONAL OR MORE DETAILED INFORMATION MAY BE REQUESTED BY THE PEACE RIVER REGIONAL DISTRICT FOLLOWING REVIEW OF YOUR APPLICATION.**

**If it is necessary for the property boundaries and the location of buildings and structures to be more accurately defined, a plan prepared by a British Columbia Land Surveyor may be required.**

15. I / We the undersigned hereby declare that the information provided in this application is complete and is, to the best of my / our knowledge, a true statement of the facts related to this application.



Signature of Owner

Sept 30 2016

Date signed

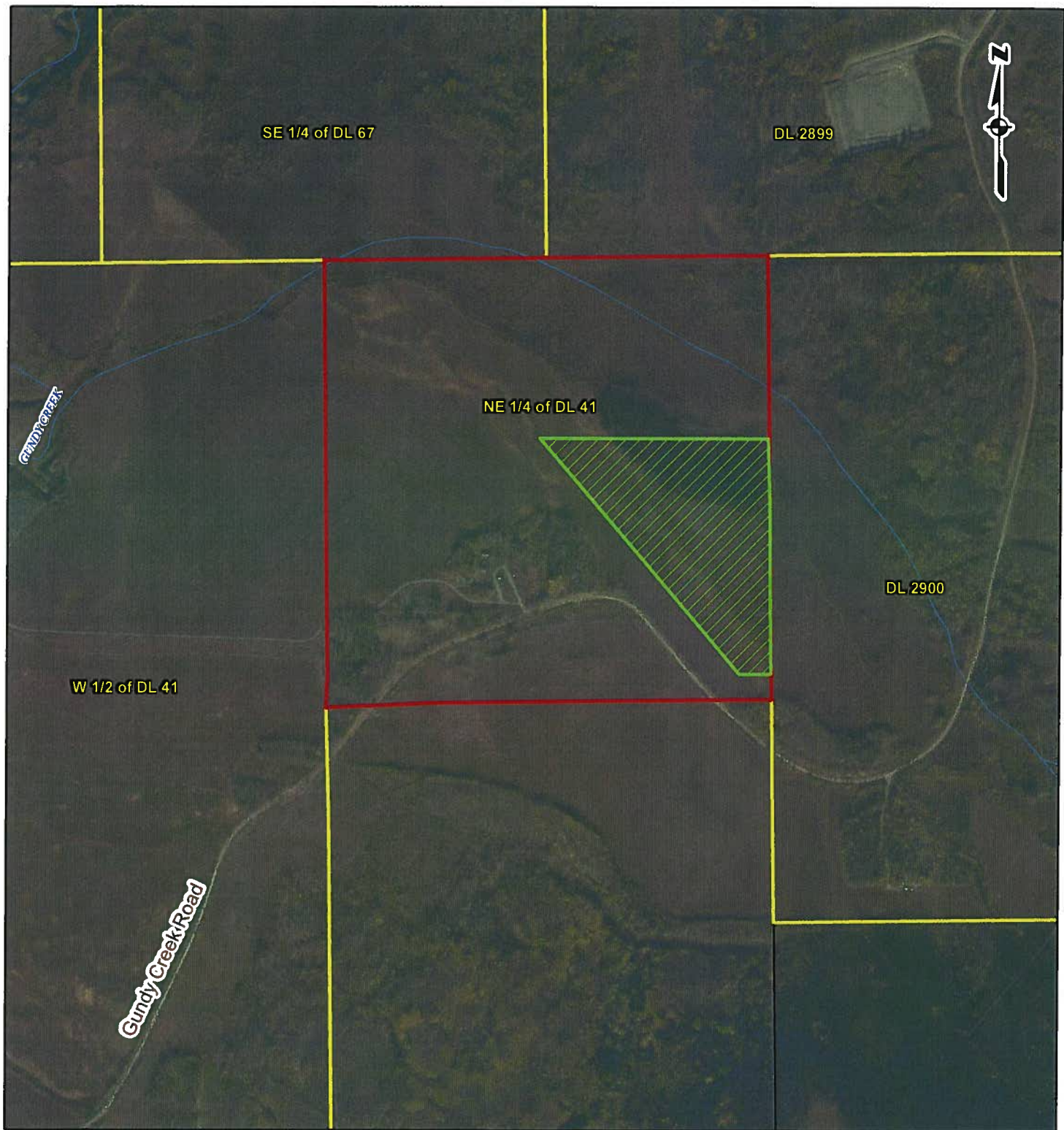
\_\_\_\_\_  
 Signature of Owner

\_\_\_\_\_  
 Date signed

16. **AGENT'S AUTHORIZATION**

If you have an agent act on your behalf in submission of this application, the following authorization **MUST** be signed by **ALL** property owners.

I / We authorize	and	hereby
(name) application.	to act on my/our behalf regarding this	
Agent address:		
Telephone:	Fax:	Email:
Signature of Owner:	Date:	
Signature of Owner:	Date:	



**Legend**

- Campsite (25 Acres)
- Private Land Parcels
- NE 1/4 of District Lot 41
- Stream Network

**References**

Geospatial Data from BC Data Distribution Service.  
 Map Projection: UTM Zone 10, NAD 83

Client: <b>Wildfire Land &amp; Cattle Co. Ltd.</b>			
Project/Map Title: <b>Temporary Use Application Sketch NE 1/4 of District Lot 41 (PRRD)</b>			
<p>Scale: 1:10,000</p>			
GIS: ML/AL	OGC File #: n/a	<b>Figure 1</b>	
Date: 15 May 2013	EPASS #: n/a		
Revision: R1	Client File #: n/a		
RN Project #: 130340	AFE #: n/a		



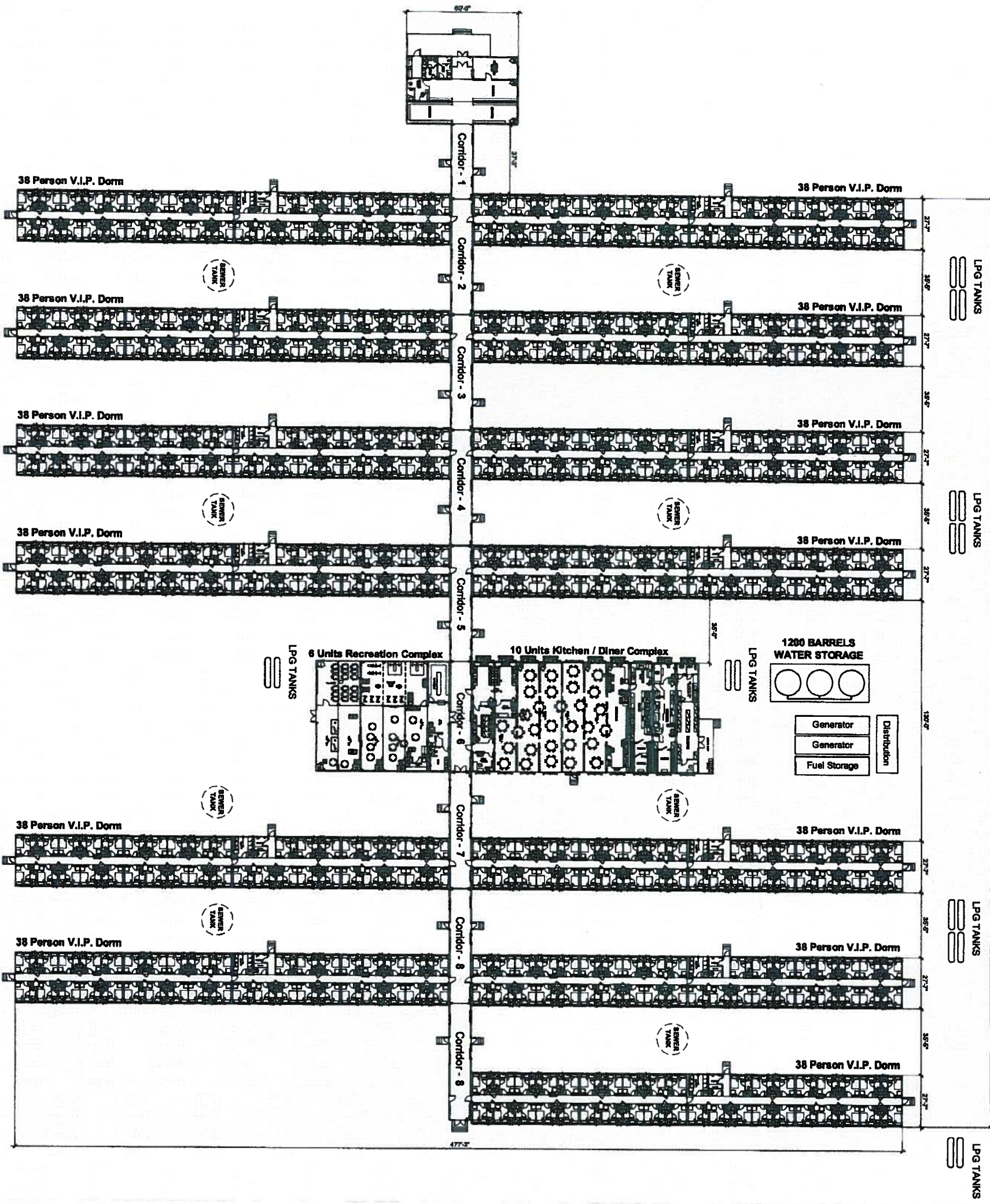
# CAMP LAYOUT

SD-1  
SCALE: N.T.S.

LPG TANKS

LPG TANKS

LPG TANKS



4705 - 50th Ave CHELWYND BC V0C 1J0  
 PH: (250) 788-3266 (250) 788-540  
 WWW.GRIZCO.COM

no.	description	date	checked

Seal:

Comments:

**PROPOSAL**  
 DRAWING  
 (for review only)

Client:

Project:  
**PROPOSED**  
**494 BED CAMP**  
**PINK MOUNTAIN, BC**

Drawing:

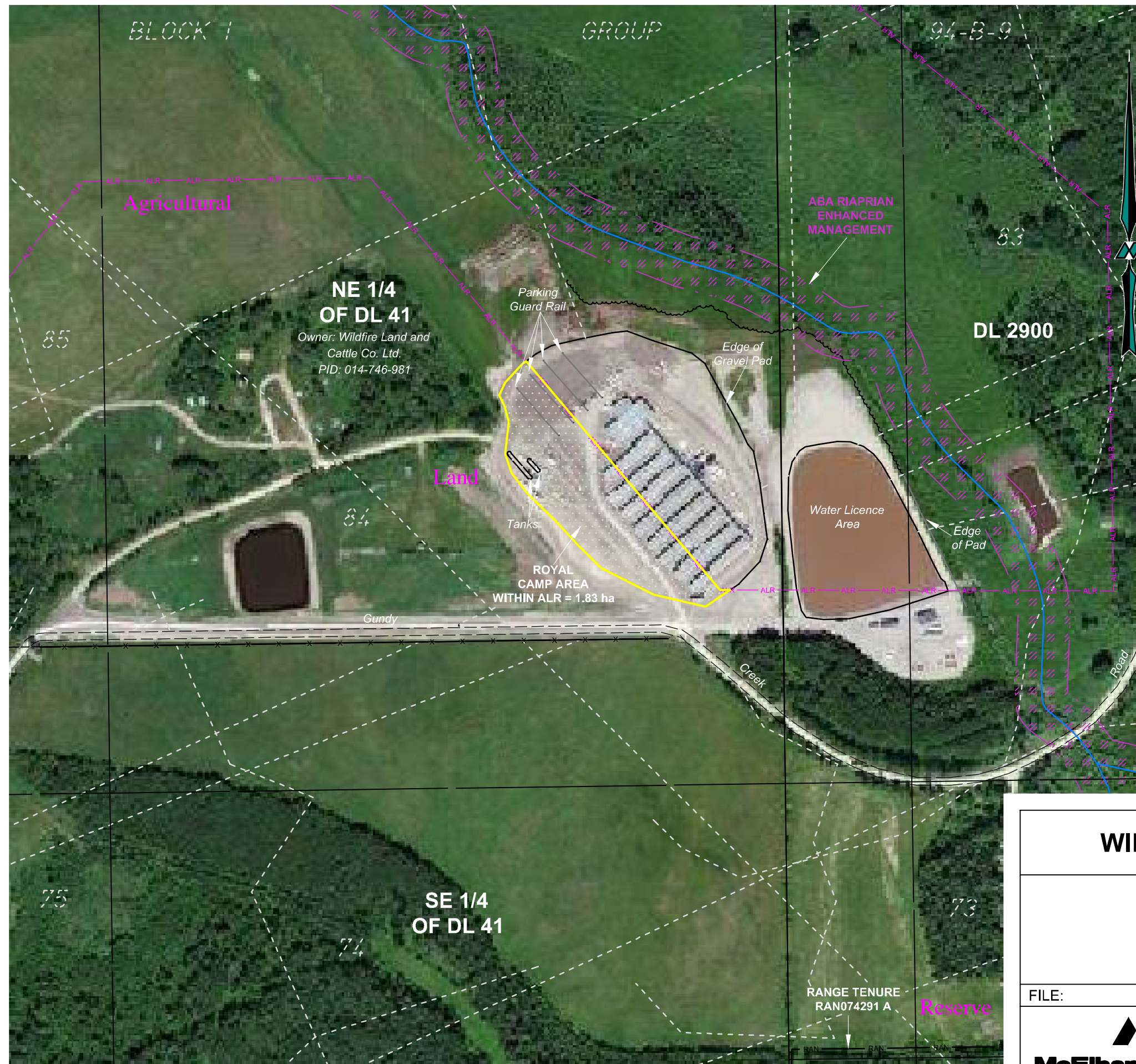
CAMP LAYOUT

Date: 11-Apr-13  
 Scale: AS SHOWN  
 Drawn By: B. Lovric  
 Pk: PROP - 13121  
 INCHES

Program: AutoCad 2007  
 Sheet: 1 of 1

# SD-1



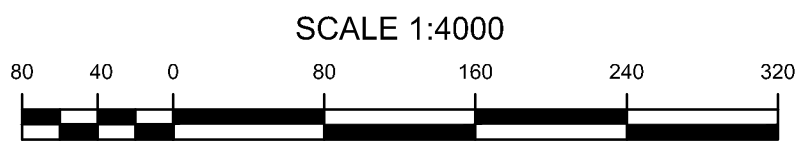


0	Original Plan Prepared	06/06/17	FC	EYH	
REV.	REVISIONS	DD/MM/YY	PC	CAD	CHKD

**NOTES:**  
All dimensions are in metres and decimals thereof.

**LEGEND:**

- Seismic Line
- ~~~~~ Tree Line
- ALR — ALR — Agricultural Land Reserve
- x — x — x — Fence
- RAN — Range Tenure
- ▨▨▨▨ Riparian Reserve Zone (ABA)



**WILDFIRE LAND & CATTLE COMPANY LTD.**

SKETCH PLAN SHOWING ROYAL CAMP  
WITHIN NE 1/4 OF DISTRICT LOT 41  
PRIVATE LAND  
PEACE RIVER DISTRICT

FILE:	AFE:	BCGS: 94B . 080	REVISION
	<b>McElhanney Geomatics</b> Professional Land Surveying Ltd. 8808 - 72 Street Fort St. John, BC Phone: (250)787-0356, Fax: (250)787-0310	SHEET: 1 OF 1	<b>0</b>
		JOB No.: 311124875	
		DRAWING: J24875SK1	



# PEACE RIVER REGIONAL DISTRICT

## Work Camp - Background Information

Completion of the information below is required by the Peace River Regional District Board in order to properly assess Work Camp applications.

Services	Function	Requirement	Confirmation/Documentation (attach supporting documents)
Water	Use of local government water source	Pre-approval from local government	Water will be hauled, from Ft. Nelson. Daily PH testing and monthly lab testing will be completed. Royal has an active account established with Ft. Nelson. See "Ft Nelson Water"
	Use of river or other natural water resource	Permitting or agreement in place	
Sewer	Use local government sewer receiving facility	Pre-approval from local government	
	Use of on-site treatment	Pre-approved from Ministry of Health/Ministry of Environment	Sewage will be treated and disposed at the Royal 109 & 147 camps which have existing permits with capacity. See attached. MOE 109 & MOE 147
Transportation Roads	Ministry of Transportation Traffic Impact Study or Traffic Impact Study completed by a Ministry approved company	Completion of Traffic Impact Study	<i>The entrance off the Alaska Highway has been upgraded to turning lanes and passing lanes.</i>
	Noise and Dust Address the concern about Noise and Dust	Provide a copy of the Operational Impact Plan that addresses how noise and dust concerns will be addressed.	Noise will be mitigated by use of a silent packaged generator. The noise will be no more than 74 dba at 23 feet, see specification. Dust concerns will be minimal as the primary time of operation is in the winter. Speed limits are low in the area of the camp as well. See XQ350 specification.
Transportation Travel	Will the camp be fly in, fly out Will employees be bused to work area, will a shuttle from a municipal centre operate	Explanation on whether it is an open or closed camp and the Company's plan for worker Transportation	Through our experience in the area we have found the majority of the clients drive in as crews in crew trucks, vans or buses. Minimal personal vehicles are driven to the site.

diverse. vast. abundant.

**PLEASE REPLY TO:**

Box 810, 1981 Alaska Ave, Dawson Creek, BC V1G 4H8 Tel: (250) 784-3200 or (800) 670-7773 Fax: (250) 784-3201 Email: prrd\_dc@prrd.bc.ca  
 9505 100 St, Fort St. John, BC V1J 4N4 Tel: (250) 785-8084 Fax: (250) 785-1125 Email: prrd\_fsj@prrd.bc.ca



**Work Camp - Background Information**

**Completion of the information below is required by the Peace River Regional District Board in order to properly assess**

**Work Camp applications.**

<b>Services</b>	<b>Function</b>	<b>Requirement</b>	<b>Confirmation/Documentation (attach supporting documents)</b>
Communications	Internet/Cell Phone	Information on mitigation plans to local communication infrastructure as a result of additional demand	Internet is via a satellite based system by Astro see specification attached. See Astro email  Communication is through a cellular repeater to the local Bell grid.
BC Assessment	Notification	Communication of Work Camp to BC Assessment	If successful Royal will notify BC assessment. We have yearly dialogue with respect to the existing camps.



**Northern Rockies Regional Municipality**  
Municipal Office 5319 - 50<sup>th</sup> Avenue South  
Bag Service 399, Fort Nelson, BC V0C 1R0  
Tel 250-774-2541 Fax 250.774.6794  
[www.northernrockies.ca](http://www.northernrockies.ca)

February 26, 2018

To Whom It May Concern

*Re: Royal Camp Services*

This letter is to verify that Royal Camp Services has a bulk water account with us for commercial bulk water in Fort Nelson, BC. This allows them to load and haul water from the commercial pumps at our local water dispensing facility. They have had an active account with Northern Rockies Regional Municipality since May 2017 and their account is currently up to date.

Sincerely

Denise Doucette  
Accounting Clerk/Receivables



City of Fort St. John  
10631 100 Street | Fort St. John, BC | V1J 3Z5  
(250) 787 8150 City Hall  
(250) 787 8181 Facsimile

February 22-2018  
Account # 00264.000

To whom it may concern:

**RE: Royal Camp Services Ltd**

This letter is to verify that Royal Camp Services holds a bulk commercial water account with the City of Fort St. John. This permits them to haul water from the commercial pumps at our water dispensing facility. This account has been active since June 2016 and it is in good standing with the City of Fort St. John.

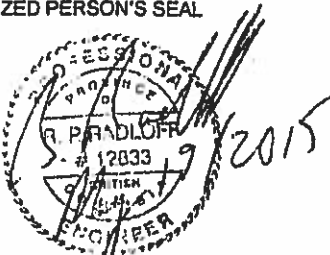
Sincerely yours,

Erin McCluskey

Accounting Clerk 3-Utilities/Taxes



For Camps under one year duration and generating under 22700 liters per day only. Longer duration camps use the RECORD OF SEWERAGE SYSTEM form. Please complete this entire form and submit with application fee payable to Northern Health

<input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> REPAIR <input checked="" type="checkbox"/> AMENDMENT <input type="checkbox"/> ALTERATION		CAMP NAME <b>ROYAL CAMP MILE 147 CAMP</b>		CAMP DURATION <b>6 MONTH (STORE/HAUL)</b> <b>2-3 YRS (MWR SYSTEM)</b>		NUMBER OF PERSONS <b>700 CURRENT</b> <b>1,000 FUTURE</b>	
SYSTEM OWNER <b>ROYAL CAMP SERVICES</b>			CONTACT [REDACTED]			PHONE NUMBER [REDACTED]	
MAILING ADDRESS [REDACTED]			CITY/PROV [REDACTED]			POSTAL CODE [REDACTED]	
LEGAL DESCRIPTION OF PROPERTY: (LOT, BLOCK, PLAN, SEC., TWP., RGE, DL.) <b>DL 1371, PEACE RIVER DISTRICT, EXCEPT PLAN 28971</b>						MAP OR GPS COORDINATES: NAD83 <b>57°04'20"N 122°34'54"W</b> LAT: LONG:	
WRITTEN DRIVING DIRECTIONS <b>HIGHWAY 97N TO PINK MOUNTAIN, 5KM NORTH, TURN WEST ONTO TOWER, TRAVEL 100M.</b>							
NAME OF PROPERTY LEASEE or OWNER: <b>TWO BIT DEVELOPMENTS INC.</b>				PHONE NUMBER: [REDACTED]			
MAILING ADDRESS: <b>P.O. Box 932</b>				CITY/PROV <b>CHARLIE LAKE, BC</b>		POSTAL CODE <b>V0C 1K0</b>	
SEWAGE SYSTEM TO SERVE: <input checked="" type="checkbox"/> RESIDENTIAL CAMP <input type="checkbox"/> DRILL SITE <input type="checkbox"/> OTHER: (Specify)		LEASE / LOT SIZE (in hectares) <b>45.105</b>		EST. DAILY SEWAGE FLOW: (litres/day) <b>126,000 CURRENT</b> <b>186,000 FUTURE</b>		LOADING RATE LITRES/DAY/M2 <b>NA</b>	
DISTANCE OF PROPOSED DISCHARGE AREA FROM: (in meters, if under 100m exact distance required)						DEPTH TO HIGHEST SEASONAL WATER TABLE (in centimeters)	
<input type="checkbox"/> <u>NA</u> POTABLE WATER SOURCE		<input type="checkbox"/> <u>NA</u> NEIGHBOURING WELL		[REDACTED]		<b>NA</b>	
<input type="checkbox"/> <u>NA</u> OWN WELL		<input type="checkbox"/> <u>NA</u> STREAM OR LAKE					
<input type="checkbox"/> <u>NA</u> WATER LINE		<input type="checkbox"/> <u>NA</u> BREAK OUT POINT					
TYPE OF SEWAGE SYSTEM: <input type="checkbox"/> TYPE 1 (SEPTIC TANK): CSA# _____ <input type="checkbox"/> TYPE 2 OR <input type="checkbox"/> TYPE 3 (PACKAGE TREATMENT PLANTS) <input type="checkbox"/> PIT PRIVY* <input checked="" type="checkbox"/> HOLDING TANK (*fee exempt)				TREATMENT PLANT / TANK MANUFACTURER <b>FOREMOST</b>		TANK/PLANT RENTAL NUMBER (if applicable)  TREATMENT PLANT/TANK CAPACITY (LITRES/DAY) <b>SETUP A = 3x63,595L = 190,785L</b> <b>SETUP B = 2x63,595L = 127,190L</b>	
TYPE OF DISCHARGE: <input type="checkbox"/> TRENCH <input type="checkbox"/> AT GRADE <input type="checkbox"/> LAGOON <input checked="" type="checkbox"/> EFFLUENT HAULED TO APPROVED SOURCE <input type="checkbox"/> OTHER _____				METHOD OF EFFLUENT DISTRIBUTION <input type="checkbox"/> GRAVITY <input checked="" type="checkbox"/> PRESSURE <input type="checkbox"/> OTHER _____		EFFLUENT PUMP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
LENGTH OF DISPOSAL FIELD (METRES) <b>NA</b>				By signing this, you confirm that all installation and related work is undertaken according to the submitted schematics.			
ATTACHMENTS: <input checked="" type="checkbox"/> PERMIT FEE \$200 (\$400 for Holding Tanks) <input checked="" type="checkbox"/> DETAILED SCHEMATIC OF CAMP LAYOUT <input type="checkbox"/> MAINTENANCE PLAN FOR THE SYSTEM or ON FILE <input checked="" type="checkbox"/> <input type="checkbox"/> DETAILED SCHEMATIC OF SYSTEM or ON FILE <input checked="" type="checkbox"/>				APPLICANT NAME (Please Print): <b>BOB RADLOFF P. Eng.</b>		PHONE NUMBER <b>250-562-6861</b>	
MAILING ADDRESS <b>1820 3RD AVE. PAINTEWATER BC V2M 1G4</b>				APPLICANT SIGNATURE [REDACTED]			
AUTHORIZED PERSON'S SEAL 				DATE (DD/MM/YYYY) <b>19/05/2015</b>		ENVIRONMENTAL HEALTH OFFICER SIGNATURE <b>[Signature]</b>	
OFFICE USE ONLY APPLICATION RECEIVED DATE: (DD/MM/YYYY): <b>26/05/15</b> RECEIPT NUMBER: <b>DL0 0000 3867</b> INITIALS: <b>JB</b>							



Public Health Protection  
**APPROVAL TO CONSTRUCT  
 AN INDUSTRIAL CAMP SEWAGE SYSTEM**

APPLICATION NUMBER

Pursuant to the application and Industrial Camp regulations, approval is hereby granted to the Authorized Person named below to construct a sewage disposal system, as indicated in the application, on the specified property. This approval will be cancelled if variations are made to the submitted plans and specifications without prior authorization. This approval is not renewable and expires one year from the date of issuance.

**Required Conditions on Permit:**

- Dated photos of site and system
- For Holding Tanks: High Level Alarm System
- Report system malfunctions to Health Authority

**Additional Conditions as Indicated:**

- Proof that effluent will be accepted at an approved facility
- Effluent Laboratory test results submitted
  - For Type 2 effluent
    - TSS  $\leq$  45 mg/L
    - BOD  $\leq$  45 mg/L
  - For Type 3 effluent
    - TSS  $\leq$  10 mg/L
    - BOD  $\leq$  10 mg/L
    - FC  $\leq$  400 CFU/100 mL
- Other: \_\_\_\_\_

EHC APPROVAL STAMP 	CAMP NAME	AUTHORIZED PERSON'S NAME
	APPROVAL DATE (DD/MM/YYYY)	SIGNATURE OF ENVIRONMENTAL HEALTH OFFICER
Final inspection required before use:		<input type="checkbox"/> YES <input type="checkbox"/> NO



MINISTRY OF ENVIRONMENT

Environmental Management

Invoice

RETAIN THIS PORTION FOR YOUR RECORDS

Invoice Date: October 14, 2015
Invoiced To: Royal Camp Services Ltd.
PO Box 652
Grand Prairie AB T8V 3A8

Invoice Number: EM1221391
Invoice Due: November 13, 2015
Fee Total: \$100.56
Payments Received: \$0.00
Amount Due: \$100.56

Authorization: 107857 Municipal Wastewater Regulation effluent

Facility Address On Alaska highway go 5km north of the Pink Mountain Hotel to Tota Road, turn left

Fees

Table with 5 columns: Date, Description, Amount, Tax, Fee Total. Rows include Base Fee (\$100.00) and Discharge Fee (\$0.56).

GST/HST Registration #: R107864738

- Please make cheque or money order payable to "Minister of Finance."
- Please do not mail cash.
- A service fee of \$30.00 will be charged on dishonored payments.
- Please include this invoice number with your payment.
- Receipts for payments not made in person, are available upon request.

Interest will be applied to any outstanding balance not received by the invoice due date. The rate of interest shall be 3% + the prime lending rate of the principal banker in the Province.

DISCHARGE IS ONLY AUTHORIZED FOR THE COMPANY OR PERSON(S) NAMED ON THIS INVOICE. IF THIS INFORMATION IS INCORRECT PLEASE NOTIFY THE CONTACT PERSON SHOWN BELOW.

Remit To: Financial Services Branch
Corporate Services Division
Ministry of Forests, Lands and Natural Resource Operations
PO Box 9388 Stn Prov Govt
Victoria BC V8W 9M2

Billing Inquiries: For billing inquiries: Phone: (250) 367-8969
For inquiries about your authorizations Contact: Wan, Li Phone: (250) 647-7260

GOODS/SERVICES RECEIVED
IN GOOD ORDER, OK TO PAY
NAME: JUDI NORDSTROM

Lodge 147
Job# 1946

Signature: [Handwritten Signature] 20/10/15

Client: Royal Camp Services Ltd.

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT

Authorization Number: 107857
Amount Due: \$100.56

Invoice: EM1221391
Enclosed:

Financial Services Branch
Corporate Services Division
Ministry of Forests, Lands and Natural Resource Operations
PO Box 9388 Stn Prov Govt
Victoria BC V8W 9M2

PLEASE COMPLETE THIS SECTION ONLY IF BILLING ADDRESS IS DIFFERENT THAN ABOVE

New Billing Address:

Form with fields for Address, Postal Code, Phone, and Fax.

Important note: In the case of a required permit/licence transfer or name change, contact the issuing office directly.





MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY

Environmental Management

Invoice

RETAIN THIS PORTION FOR YOUR RECORDS

Invoice Date: September 01, 2017

Invoiced To: Royal Camp Services Ltd, 7111 - 67th Street, Edmonton AB T6B 3L7

Invoice Number: EMI295793, Invoice Due: October 16, 2017, Fee Total: \$100.56, Payments Received: \$0.00, Amount Due: \$100.56

Authorization: 107849 Municipal Wastewater Regulation effluent

Facility Address: On Alaska Hwy go 11km north of Wopwan, turn left (w) drive 10km to G

Fees

Table with 5 columns: Date, Description, Amount, Tax, Fee Total. Rows include Base Fee (\$100.00) and Discharge Fee (\$0.56). Total: \$100.56

GST/HST Registration #: R107864738

- Please make cheque or money order payable to "Minister of Finance."
Please do not mail cash.
A service fee of \$30.00 will be charged on dishonored payments
Please include this invoice number with your payment
Receipts for payments not made in person, are available upon request.

Interest will be applied to any outstanding balance not received by the invoice due date. The rate of interest shall be 3% + the prime lending rate of the principal banker to the Province.

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Remit To: Financial Services Branch, Corporate Services Division, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, PO Box 9356 Stn Prov Govt, Victoria BC V8W 9M2

Billing Inquiries: For billing inquiries: Phone (250) 387-8969, For inquiries about your authorizations Contact: Bings, Daniel Phone: (250) 565-6135

GOODS/SERVICES RECEIVED IN GOOD ORDER, OK TO PAY Job# 1945 NAME: JUDI NORDSTROM

Signature: [Handwritten Signature]

Client: Royal Camp Services Ltd.

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT

Authorization Number: 107849

Invoice: EMI295793

Amount Due: \$100.56

Enclosed:

Financial Services Branch, Corporate Services Division, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, PO Box 9356 Stn Prov Govt, Victoria BC V8W 9M2

PLEASE COMPLETE THIS SECTION ONLY IF BILLING ADDRESS IS DIFFERENT THAN ABOVE

New Billing Address

Form with fields for ADDRESS, POSTAL CODE, PHONE, FAX

Important note: In the case of a required permit/licence transfer or name change, contact the issuing office directly.

Emailed to HP Sept 10/17.

Subject: FW: Astro

Date: Feb 23, 2018 at 2:05:35 PM

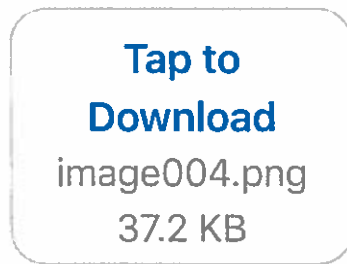
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## **CAMP INTERNET- Per Dorm (Including Data)**

Ø Internet per Dorm (38 Man Dorm)

- v Guaranteed download speeds of 2.6 Mbps per room (100MBs / 38 Rooms) at full capacity with burst speeds of up to 75 MBs depending on number of tenants using it. Upload speeds of up to 16MB/s.
- v **Unlimited Bandwidth** for every dorm
- v Includes - Wireless network equipment, 24/7 support, remote network control (ability to block website, torrents, ports, manage data, etc....)
- v Streaming services such as Netflix/YouTube and video calling such as Skype/ Google Chat all left open for use
- v Ability to stack more systems to increase bandwidth to the entire dorm or certain users if necessary

Here is proof of these numbers being hit at Jayar earlier this year:



109 uses the exact same system, I just do not have any screen shots of it at the moment. If they request some we will run out and grab some anytime for ya!

Also if they would like to see the systems in action, here is a YouTube site with video showing dorms at full capacity with clients, streaming multiple HD movies:

<https://www.youtube.com/channel/UCifX1dw8pdWQjio5oNeqQkQ>

Thanks as always!

Devon

Astro Oilfield Rentals

# X Q 350 RENTAL



\*Shown with optional trailer

**STANDBY 350KW  
PRIME 320 kW**

**POWER MODULE**  
50/60Hz Switchable Rating

Frequency	Voltage	Stand-by kW (kVA)	Prime kW (kVA)
60 Hz	480/277V	350 (437.5)	320 (400)
60 Hz	240/139V	350 (437.5)	320 (400)
60 Hz	208/120V	350 (437.5)	320 (400)
60 Hz	400/230V	350 (437.5)	320 (400)

## FEATURES

### FUEL/EMISSIONS STRATEGY

- EPA Tier 4 Interim and CARB Certified for Non-Road Mobile applications at all 50 and 60 Hz ratings

### SINGLE-SOURCE SUPPLIER

- Factory designed and fully prototype tested with certified torsion vibration analysis available
- ISO 9001:2000 compliant facility

### CAT® C13 TIER 4 INTERIM DIESEL ENGINE

- Utilizes ACERT™ Technology and Cat NOx Reduction System (NRS)
- Cat CEM exhaust after treatment
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight
- ECM electronic engine control

### CAT EMCP 4.2 CONTROL PANEL

- Fully featured power metering, protective relaying and engine/generator control and monitoring
- Simple user friendly interface and navigation
- Automatic set-point adjustment integrated with voltage and frequency changes

### CAT SR4B SERIES GENERATOR

- Designed to match performance and output characteristics of Cat diesel engines
- Permanent magnet excitation
- Segregated AC/DC, low voltage accessory box provides single point access to accessory connections

### CAT DIGITAL VOLTAGE REGULATOR (Cat DVR)

- Three-phase sensing
- Adjustable volts-per-hertz regulation
- Provides precise control, excellent block loading, and constant voltage in the normal operating range.

## ENCLOSURE

- Highly corrosion resistant 12 gauge sheet steel construction
- Two coat polyester powder-coated finish
- Six access doors for ease of maintenance
- Secure and safe design with safety glass control panel viewing window with lockable access door
- Fuel fill and battery can only be reached through lockable access doors
- Certified single point lifting eye and lifting points on the base frame

## DISTRIBUTION PANEL

- Switchable via link board from 480/277V 3 phase to 240/139V 3 phase (can be adjusted down to 208/120V 3 Phase)

## REAR CUSTOMER ACCESS

- Separate control panel and distribution panel access doors
- Hinged door over main bus connectors
- Emergency stop on panel
- Remote start/stop contacts

## ENVIRONMENTALLY FRIENDLY DESIGN

- EPA Tier 4 Interim certified
- 110% spill containment of onboard engine fluids
- Meets 76 dB(A) at 7 m per SAE J1074

## RENTAL READY FEATURES

- Anti-condensation heater 110-120 VAC
- Coolant heater 110-120 VAC
- UL Listed battery charger
- Solar powered battery maintainer



# X Q 350 RENTAL



## FACTORY INSTALLED STANDARD EQUIPMENT

SYSTEM	STANDARD EQUIPMENT
Air Inlet	Air cleaner, two stage cyclonic/paper with dust cup and service indicator Turbocharger and air-to-air aftercooler
Charging System	UL/CSA listed 120 V, 20 Amp battery charger, shock mounted and enclosed in dust proof housing Charging alternator: 24V-45A, heavy duty with integral regulator and belt guards
Control Panel	EMCP 4.2 genset mounted controller NEMA 2, IP23 dust proof enclosure, UL508 listed Idle/rated and 50/60Hz frequency switches Generator Protection features: 32, 32RV, 46, 50/51, 27/59, 81 O/U Metering display: voltage, current, frequency, power factor, kW, WHM, and kVAR Panel illumination lights and Emergency stop switch
Cooling System	Package mounted radiator with vertical air discharge provides 43° C ambient capability at prime +10% rating Blower fan, fan drive, fan guard and belt guards 120VAC coolant heater, fuse protected, thermostatically controlled, automatically disconnected on start-up Coolant drain line with internal brass ball control valve piped to base-frame Coolant sight gauge, level switch and shutdown 50% coolant antifreeze with corrosion inhibitor
Distribution System	NEMA 1 steel enclosure, separate hinged, lockable door with rust resistant pinned hinges Main bus connections with hinged load cover with Plexiglas window closed for operation Main circuit breaker 3-pole, 240/480V-1600A with 24V DC shunt trip wired to load door safety switch Current transformers, hard mounted Multiple duplex and twist-lock receptacles with individual circuit breakers Two wire remote start/stop terminals and 120 VAC shore power connection for rapid starting
Enclosure	Sound attenuating, 12 gauge sheet metal enclosure limits overall noise to 77 dB(A) @ 7m (23') Modular panel construction and one piece welded roof design with 2 degree pitch Interior walls and ceilings insulated with flame retardant, precision cut foam materials meeting NFPA220 Black stainless steel pad-lockable latches, doorkeepers on all doors and zinc die-cast hinges/grab handles Single point lifting Painted Cat power module white with Cat rental decals
Engine	EPA approved Tier 4 Interim Cat C13 ATAAC heavy duty diesel engine with ACERT™ technology and Electronic ADEM™ A4 controls
Exhaust System	Cat Clean Emissions Module and integrated silencer with flexible connectors, in separate compartment Axial flow cylindrical muffler included with CEM
Fuel System	520 gal (1970 L) double wall fuel tank, UL142, ULC, and Transport Canada certified, 27 hr runtime @ 75% prime +10% rating, internal fuel fill Fuel cooler, pressure gauge, primary fuel filter with integral water separator, and engine mounted secondary Switch operated, electric priming pump Auxiliary connections for customer supplied fuel transfer system with 6 way fuel transfer valve
Generator	SR4B 450 frame, three-phase, random wound, 12-lead design, permanent magnet excited, 0.750 pitch 240-480 volt link board built into distribution system provides either 480/277 volt or 240/139 volt Coastal insulation protection. Windings impregnated in a triple dip, thermo-setting moisture, oil and acid resisting polyester varnish. Heavy coat of anti-tracking varnish for additional protection. Cat digital voltage regulator (Cat DVR) with VAR/PF control, RFI suppression, exciter diode monitor 120VAC anti-condensation heater
Lube System	Pump, integral oil cooler, lube oil, filter, filler and dipstick, and oil sampling valve Open crankcase breather with 75% filter Oil drain line with internal brass ball valve routed to connection point accessible from exterior 500 hour oil change intervals
Mounting System	Generator set soft mounted to the heavy duty, fabricated steel base frame Skiddable steel base frame with tie down eyes contains integral fuel tank Provides 110% spill containment of all engine fluids
Starting System	Single electric starting motor, 24V Dual 12V (1400 CCA) maintenance free batteries with disconnect switch, battery rack, and cables UL listed, 120 volt single phase jacket water heater with thermostat and shut off valves
General	Canadian Standards Authority (CSA) approved Factory testing of standard generator set Full manufacturer's warranty, O&M manuals
	<b>OPTIONAL EQUIPMENT</b>
Available Options	Tandem axle trailer with electric brakes



# X Q 350 RENTAL

## TECHNICAL DATA

CAT GENERATOR	CAT DIESEL ENGINE
Frame Size ..... SR4B – 450 Pitch ..... 0.750 No. of poles ..... 4 Excitation ..... Static regulated brushless PM excited Number of bearings ..... Single bearing, close coupled Insulation ..... Class H Temperature rise ..... 105° C Enclosure ..... Drip proof IP23 Overspeed capability – % of rated ..... 125% of rated Voltage regulator ..... 3 phase sensing with Volts-per-Hertz Voltage regulation ..... Less than ± 1/2% voltage gain Adjustable to compensate for engine speed droop and line loss Wave form deviation ..... 3% Telephone Influence Factor (TIF) ..... Less than 50 Harmonic Distortion (THD) ..... Less than 5%	C13 ATAAC, I-6 4-stroke water cooled diesel Bore – mm (in) ..... 130 mm (5.10 in) Stroke – mm (in) ..... 157 mm (6.20 in) Displacement – L (cu in) ..... 12.5 L (763 in <sup>3</sup> ) Compression ratio ..... 17.0:1 Engine RPM ..... 1500-1800 Aspiration ..... TA Aftercooler type ..... ATAAC Turbocharger ..... Single Fuel system ..... MEUIC Governor type ..... ADEM™ A4 Fuel ..... Requires ULSD

Materials and specifications are subject to change without notice.

Generator Set Technical Data	Units	50Hz	50 Hz	60Hz	60Hz
		Standby	Prime	Standby	Prime
Performance Specification		EM0181	EM0180	EM0179	EM0178
Power Rating	kW (KVA)	308 (385)	280 (350)	350 (437.5)	320 (400)
Lubricating System Oil pan capacity	L (gal)	37 (19.5)	37 (19.5)	37 (19.5)	37 (19.5)
Fuel System					
Fuel consumption					
100% Load	L/hr (gal/hr)	82.1 (21.6)	75.3 (19.8)	95.7 (25.1)	88.0 (23.1)
75% Load	L/hr (gal/hr)	62.4 (16.4)	57.3 (15.1)	73.4 (19.2)	67.9 (17.7)
50% Load	L/hr (gal/hr)	43.9 (11.5)	40.2 (10.6)	52.3 (13.6)	48.6 (12.7)
Fuel Tank Capacity	L (gal)	1970 (520)	1970 (520)	1970 (520)	1970 (520)
Running time @ 75% rating	Hr	31	34	26	29
Cooling System					
Ambient Capability	°C (°F)	43	43	43	43
Engine & Radiator coolant capacity	L (gal)	61 (16.2)	61 (16.2)	61 (16.2)	61 (16.2)
Engine coolant capacity	L (gal)	19 (5.0)	19 (5.0)	19 (5.0)	19 (5.0)
Air Requirements					
Combustion air flow	m <sup>3</sup> /min (cfm)	19.7 (693.2)	18.3 (646.1)	(828.3)	(803.3)
Exhaust System					
Exhaust flow at rated – dry exhaust	m <sup>3</sup> /min (cfm)	13.8 (485.1)	13.1 (460.3)	16.0 (565.7)	15.9 (558.9)
Exhaust temperature at rated kW	°C (°F)	496.4 (924.7)	488.9 (911.8)	473.4 (880)	454.1 (846.9)
Noise Rating (with enclosure)*					
@ 7 meters (23 feet) @ 75% of rating	dB(A)	73	73	74	74
@ 7 meters (23 feet) @ 100% of rating	dB(A)	74	74	76	75
Emissions (Not to exceed data)					
NOx	g/hp-hr	1.42	1.28	1.55	1.56
CO	g/hp-hr	0.08	0.07	0.08	0.07
HC	g/hp-hr	0.01	0.01	0.02	0.02
PM	g/hp-hr	0.02	0.02	0.01	0.02

Model	Length mm (in)	Width mm (in)	Height mm (in)	Weight with Lube oil and Coolant kg (lb)	Weight with fuel, lube oil and coolant Kg (lb)
XQ350 w/o trailer	5080 (208.7)	1524 (60)	2642 (104)	6667 (14700)	8571 (18900)
XQ350 w/ trailer	7206 (283.7)	2591 (102)	3204 (126.1)	8132 (17930)	10036 (22130)

## STANDARD FEATURES

### FEATURES

- NEMA 2, IP23 dust proof enclosure with hinged lockable door and viewing window
- EMCP 4.2 display
- Panel light on/off switch
- Emergency stop pushbutton
- Lamp test/reset pushbutton
- Voltage adjust potentiometer
- Alarm and shutdown indicators
- Idle /rated switch
- Regeneration alarm indications for DPF 80% soot level and high exhaust temperature
- 50/60 Hz frequency adjustment
- Fuel level display
- Convenient service access for Cat Dealers (service tools not included).

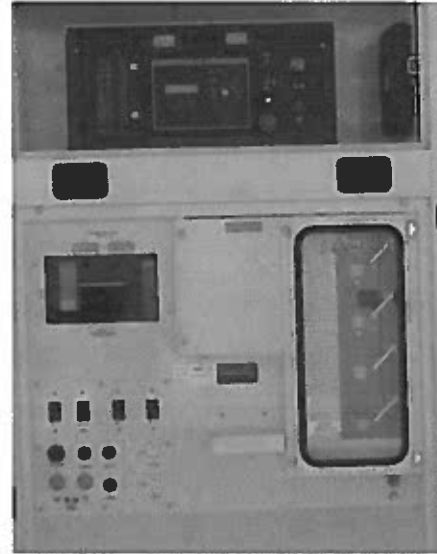
### EMCP 4.2 ENGINE OPERATOR INTERFACE

- Controls
  - Run/Auto/Stop
  - Speed Adjust
  - Voltage Adjust
  - Emergency Stop
  - Cycle crank
  - Remote start/stop
- Engine Monitoring:
  - RPM
  - Operating hours
  - Coolant Temperature
  - Crank attempt and successful start counter
  - DC Volts
  - Oil pressure
  - Oil Temperature
- Generator Monitoring:
  - L-L volts, L-N volts, Current (phase)
  - Average volts, Amps, Frequency
  - kW, kVA, kVAR, kW-hr
  - Power Factor (Average, Phase)
  - kW-hr, kVA-hr (total)
  - Excitation voltage and current (with CDVR)
- Shutdowns with common indicating light for:
  - Low oil pressure
  - High Coolant Temp
  - Failure to Start (Overcrank)
  - Emergency stop
  - Overspeed
  - High Oil Temperature
  - Low Coolant level

### EMCP 4.2 GENERATOR PROTECTIVE RELAYING

Generator protective features provided by EMCP 4.2

- Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under frequency (81 O/U)
- Reverse Power (kW) (32)
- Reverse Reactive Power (kVAR) (32RV)
- Over current (50/51)



### DISTRIBUTION PANEL

- Separate load and control sections
- Access using a hinged padlock-able door
- Main busbar with hinged cover door with a clear Plexiglas window.
- Customer convenience power receptacles protected by miniature circuit breaker:
  - 1 – 240V, 50A California style Twist Lock.
  - 1 – 240V, 20A Twist Lock.
  - 2 – 120V, 20A Ground Fault Interrupters.
  - 2 – 120V, 15A Duplex Receptacles with GFI.

### CIRCUIT BREAKER

- Includes DC shunt trip coil activated on any monitored engine or electrical fault,
- 100 KA-interrupting capacity at 1480 VAC.
- Under-voltage release
- 1600A fixed type, 4 poles, generator set mounted

### LINK BOARD ASSEMBLY

- High/low voltage output reconnection via movable link board
- Includes switch providing voltage setting input to the EMCP 4.2 for automatic set point configuration





# X Q 350 RENTAL

## RATING DEFINITIONS AND CONDITIONS

### Meets or Exceeds International Specifications:

CSA 22.0 No. 100, IEC60034-22, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-16, UL1004B, NEC, CEC, 2006/42/EEC, 2006/95/EC, 2004/108/EC, 2000/EC/14, UL142, UL601, IBC CGSB43, API 546, EGSA 101P, IEEE 43, DEFRA, UL1741, NFPA 99/110, OSHA, 97/68/EC, BS4999, BS5000, IEC60034-5

**Fuel Rates** are based on fuel oil of 35o API {16oC (60oF)} gravity having an LHV of 42780 kJ/kg (18390 Btu/lb) when used at 29oC (85oF) and weighing 838.9 g/liter (7.001 lb/U.S. gal). Additional ratings may be available for specific customer requirements, contact your Caterpillar Representative for details. For information regarding Low Sulfur fuel and biodiesel capability and consult your Cat Dealer.

**Standby** – Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator on the generator set is peak prime rated (as defined in ISO8528 at 30° C (86° F)).

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO0346 standard conditions.

**Prime** – Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation and the generator can supply 10% overload power.

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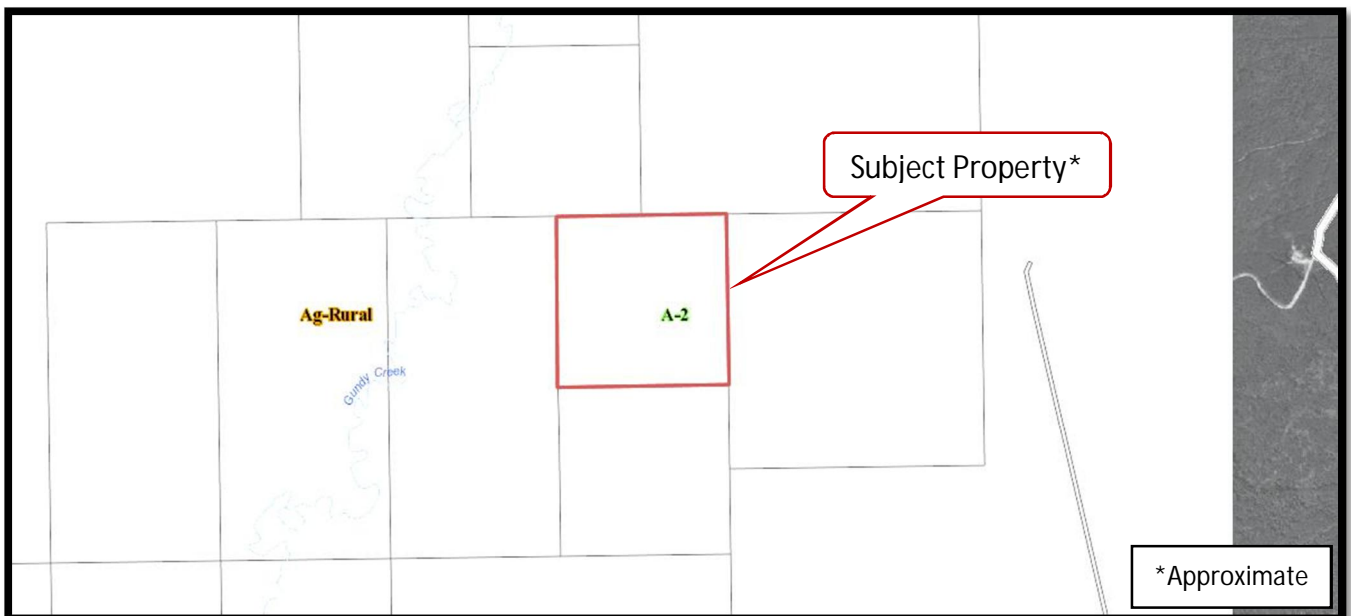


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MAPS  
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Context Map



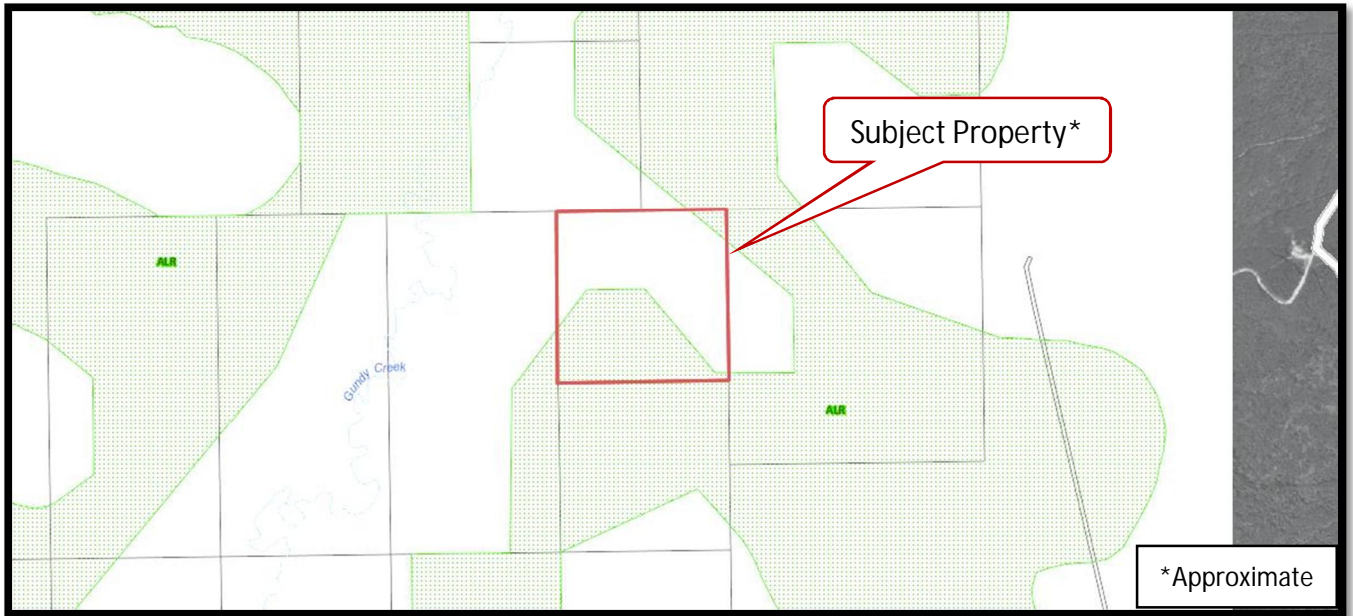
Rural Official Community Plan Bylaw No. 1940, 2011 (Schedule B, Index Map) and PRRD Zoning Bylaw 1000, 1996 (Index Map, Map 1)



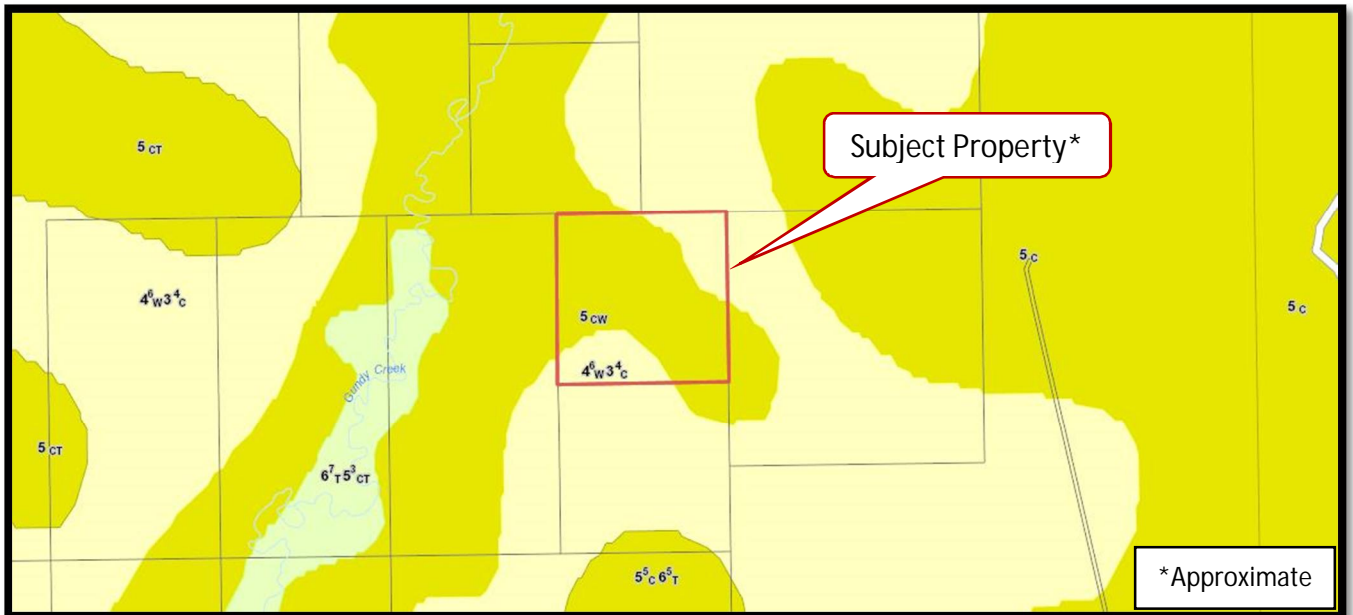


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MAPS  
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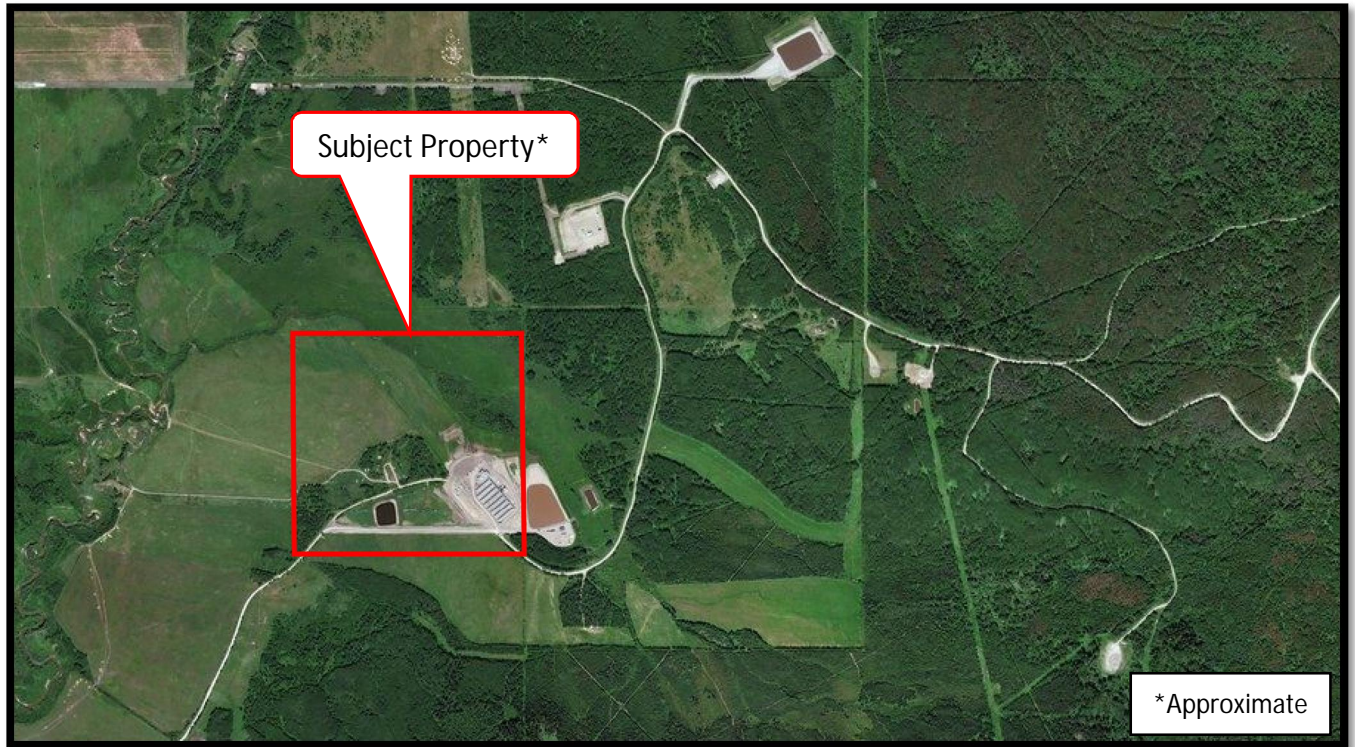
Soil Classification





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Aerial Photos







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