



**Peace River Air Monitoring Program
Reno
Ambient Air Monitoring Station
Site Documentation**



Ambient Air Monitoring Site Documentation

1.0	General Information	3
1.1	Station	3
1.2	Location.....	3
1.3	Owner/Operator/Approval Holder.....	4
2.0	Site Description	5
3.0	Instruments	6
4.0	Continuous Stations	7
4.1	Area Map.....	7
4.2	Plan View Sketch	8
4.3	Photographs for Continuous Stations.....	9
5.0	Network Stations	12
5.1	Network Area Map	12
5.2	Wind Rose (Network Station).....	13

1.0 General Information

1.1 Station

Station identification/number	N/A
Station Name (building name, park name, etc.)	Reno
Date station established	June 12, 2016
Date information last updated	July 21, 2017

1.2 Location

Station address (street address/legal land description)	20306 Twp Rd 794, Smoky River No.130, AB	
	04-28-79-20, W5M	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	55.86936N	
Longitude	117.05739W	
UTM Coordinates	East: 303705	North: 4314711

DIRECTIONS:

From Peace River, travel approx. 46 km on Hwy 2 (south) and turn onto Township Road 794 E. Follow this for 4.7 km and then turn into the driveway on the left (#20306). Follow the driveway to the right and the trailer will be directly ahead.

A permit is required from Baytex for activities on this land. Contact the local operator.

1.3 Owner/Operator/Approval Holder

Name of operating agency	Maxxam Analytics
Address	#1 2080 39 th Ave NE
	Calgary, AB T2E 6P7

Contact name	Christopher Wesson
Title	Senior Project manager, Ambient Air Services
Phone number	Cell: 780 446 2724
Email address	cwesson@maxxam.ca
Contact name	Trina Whitsitt
Title	Supervisor, Ambient Air / Edmonton Air Operations
Phone number	Office: 780 408 5309, Cell: 587 337 5880
Email address	twhitsitt@maxxam.ca

Name of owner/approval holder	Peace River Air Monitoring Program
Contact name	Mike Bisaga / Lily Lin
Title	Technical Program Managers
Phone number	(780) 266-7068 / (587) 225-2248
Email address	prampotech@prampairshed.ca

2.0 Site Description

Land use by sector (use 90° as a sector)	North: Agricultural	
	East: Agricultural	
	South: Agricultural	
	West: Agricultural	
Site elevation (above sea level (m))	610 m	
Angle of elevation to nearby buildings	1. Greatest angle: not applicable	
	2. Building direction: not applicable	
Average building height in the area (m)	No buildings present in immediate area	
Air flow restrictions (yes/no)	North: No	South: Yes
	East: No	West: No
Distance to nearest Obstruction (m)	~35 m	
Description of Obstruction	Trees, ~ 10 m in height	
Angle of Elevation (wind system)	0°	
Angle of Elevation (manifold)	~10°	
Manifold	1. Type: Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	
	3. Total Height: 4 m	
Meteorological Tower (Wind System)	1. Type: Aluma Tower	
	2. Distance from Supporting structure: 7 m	
	3. Total Height: 10 m	
	4. Position: East end of station	

Notes:

Other meteorological instruments are mounted on the station at approximately roof height (3 m)

3.0 Instruments

Station Name: Reno

Instrument Type	Owner	Make	Model	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	Maxxam	API	100A	841	4	June 29, 2017
Methane / Non-methane hydrocarbons	Maxxam	Thermo	55i	1314057759	4	June 29, 2017
Total reduced sulphur	Maxxam	Thermo	43i-TLE	1162460022	4	June 29, 2017
TRS Converter	Maxxam	CD Nova	CND-101	534	n/a	June 29, 2017
Intermittent VOCs	AITF / Maxxam	Suma	6 L Canister	n/a	4	n/a
Wind speed/direction	Maxxam	RM Young	05103VK	149769	10	June 29, 2017
Temperature/RH	Maxxam	RM Young	43172VC	s/n	3	June 29, 2017
Barometric Pressure	Maxxam	Met One	92	R12877	3	June 29, 2017
Data logger	Maxxam	ESC	8832	AU 263	n/a	June 29, 2017

Notes:

VOCs are sampled intermittently. 1-hour samples are triggered based on 5-min average NMHC threshold.

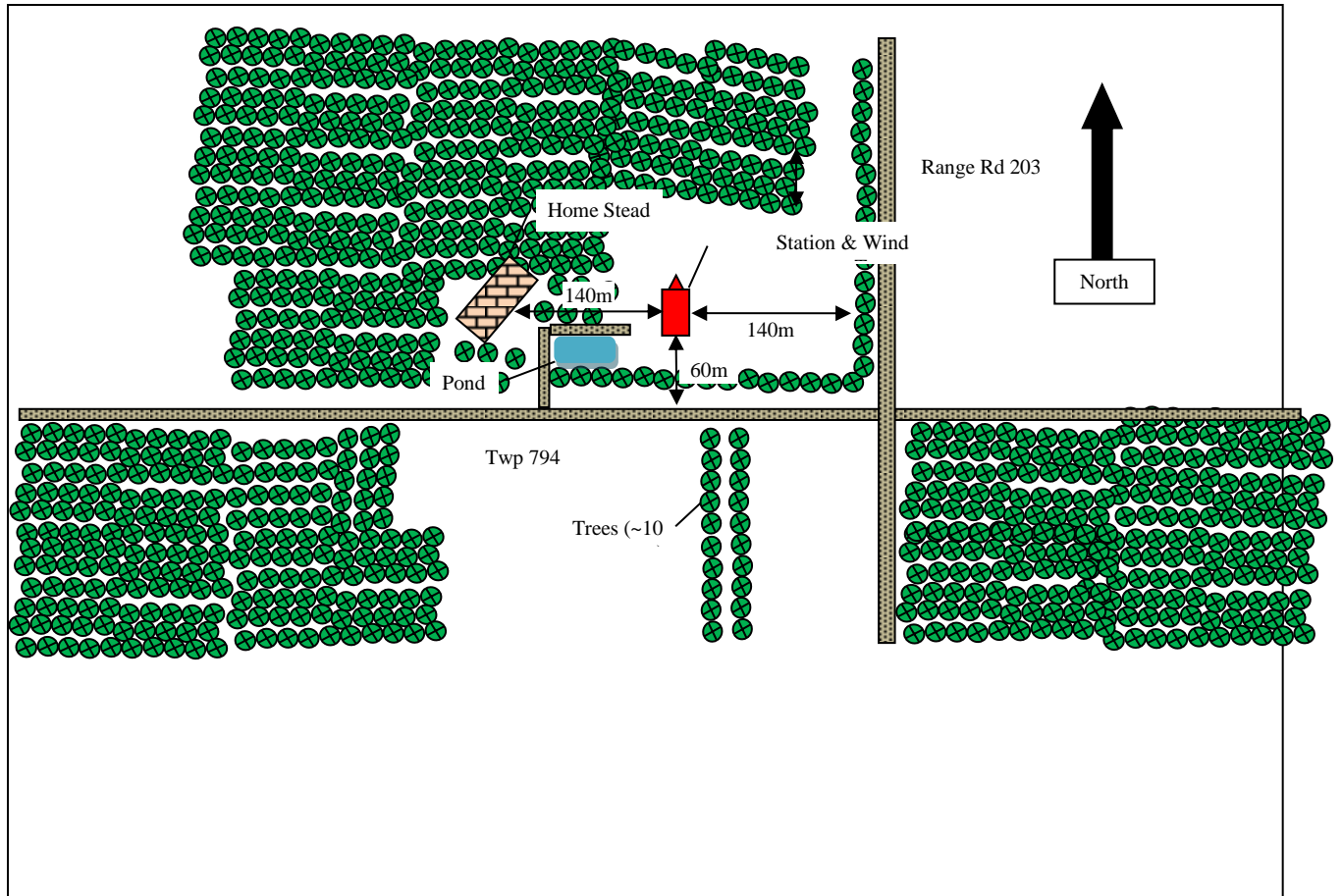
4.0 Continuous Stations

4.1 Area Map



Source: <http://maps.google.com>
Retrieved: Sept 2016

4.2 Plan View Sketch



Notes:
Unless otherwise marked, land use is agricultural

4.3 Photographs for Continuous Stations

Colour pictures looking from the instrument/manifold:

North:



East:



South:



West:



Colour picture of the structure housing the instruments from the door side / showing the details of the sampling inlet in relation to the station.



5.0 Network Stations

5.1 Network Area Map

See Appendix 1

5.2 Wind Rose

