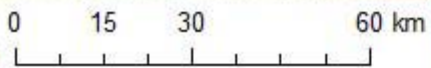
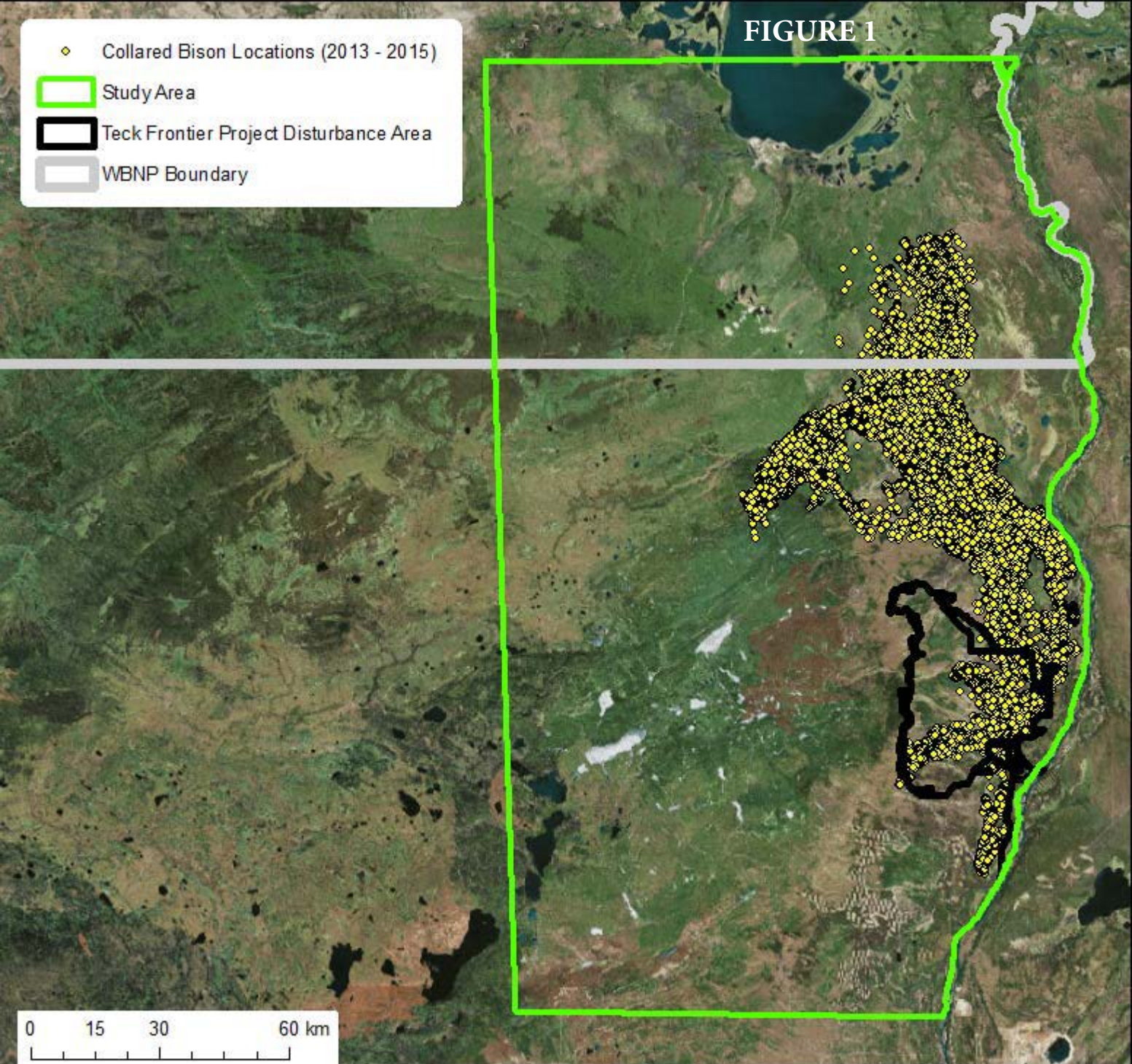


FIGURE 1

- ◆ Collared Bison Locations (2013 - 2015)
- ▭ Study Area
- ▭ Teck Frontier Project Disturbance Area
- ▭ WBNP Boundary



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

FIGURE 2

Summer

Winter

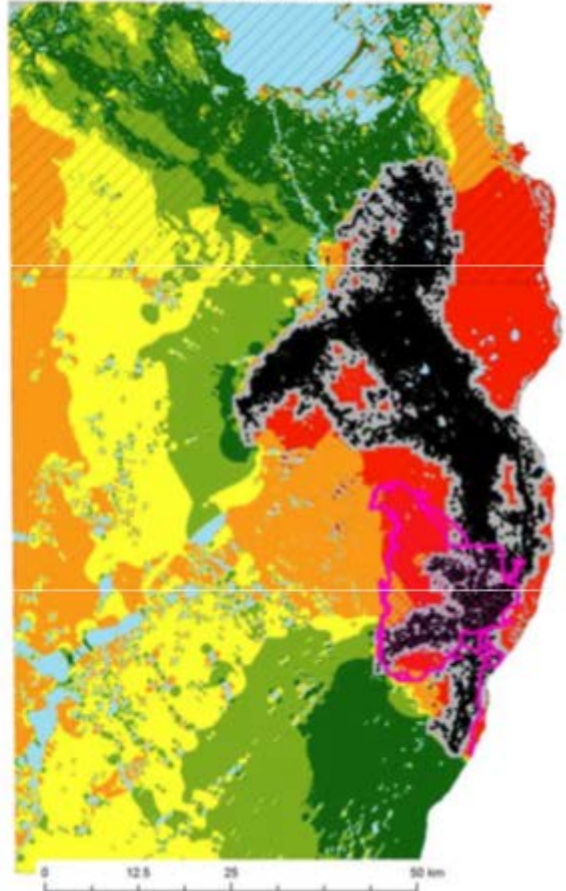
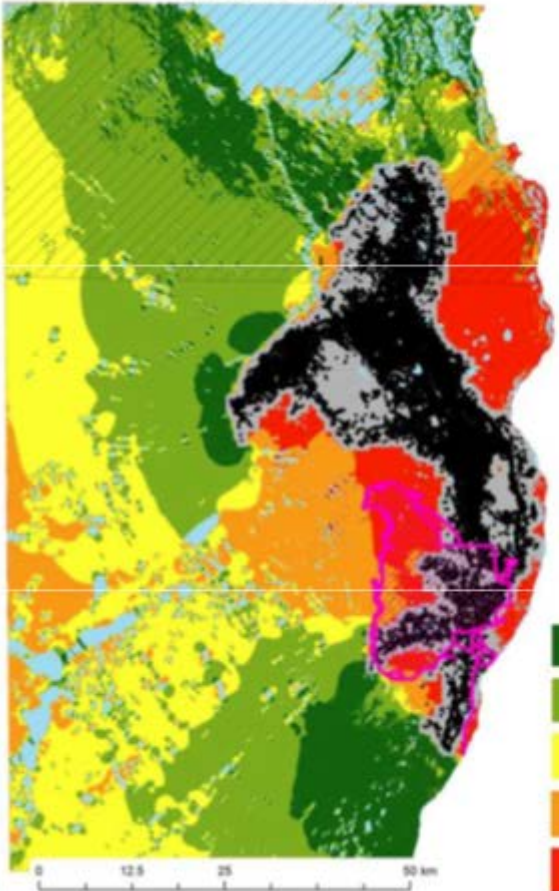


FIGURE 3

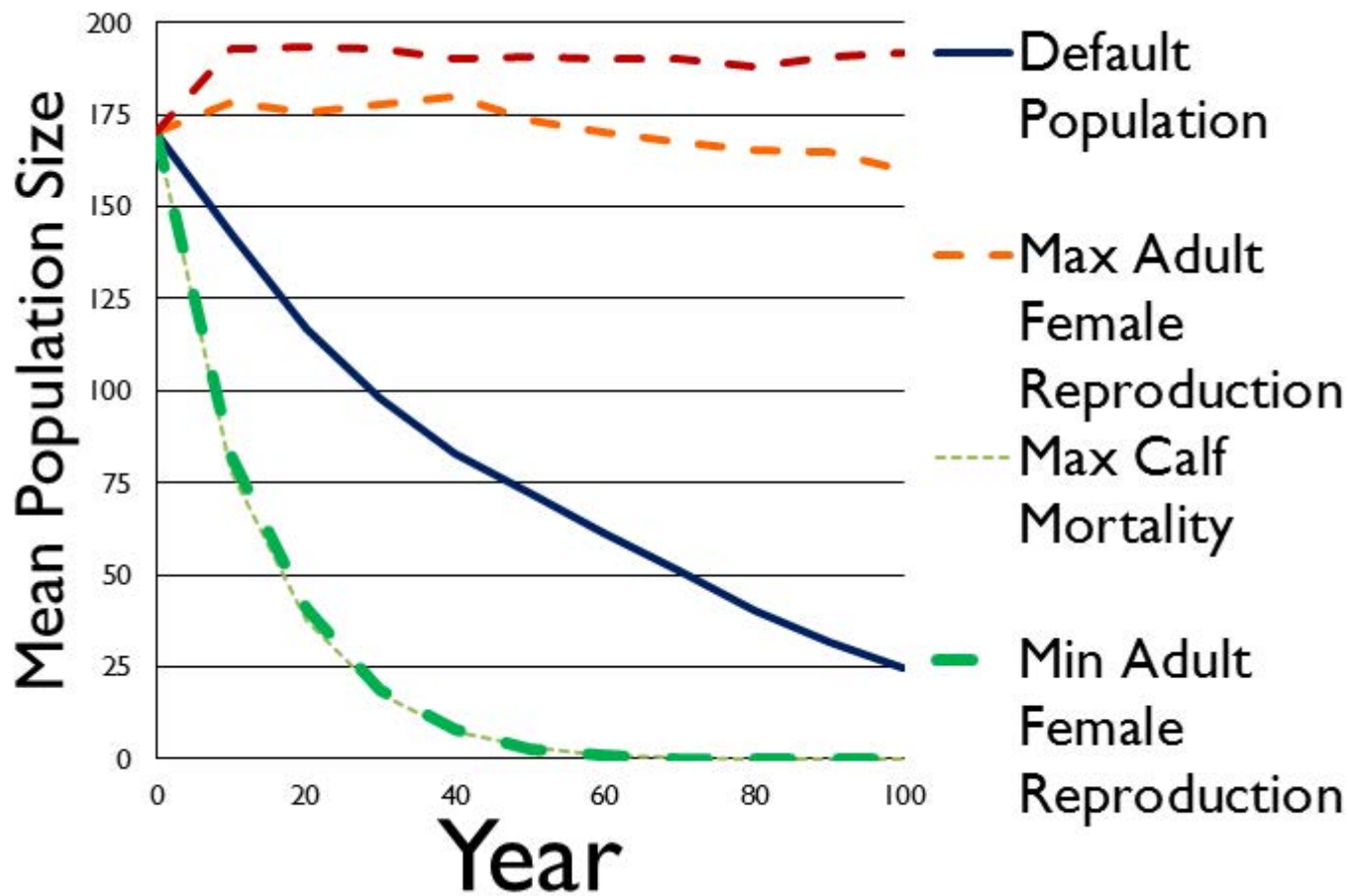
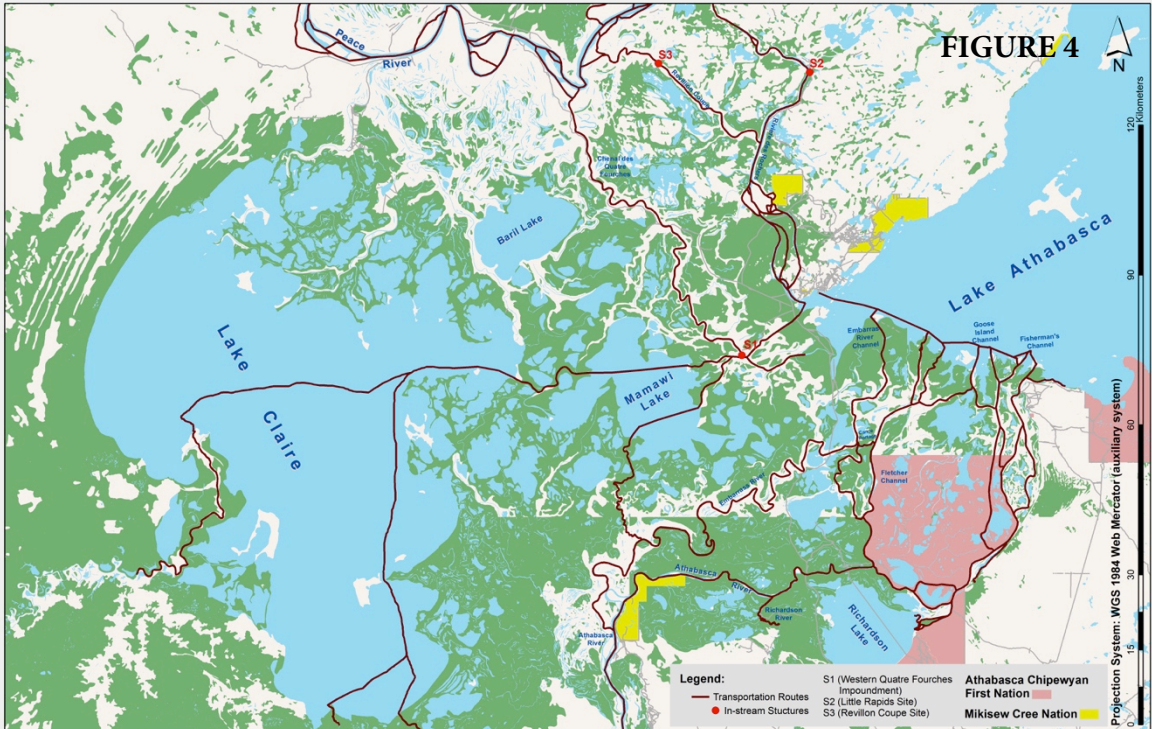


FIGURE 4



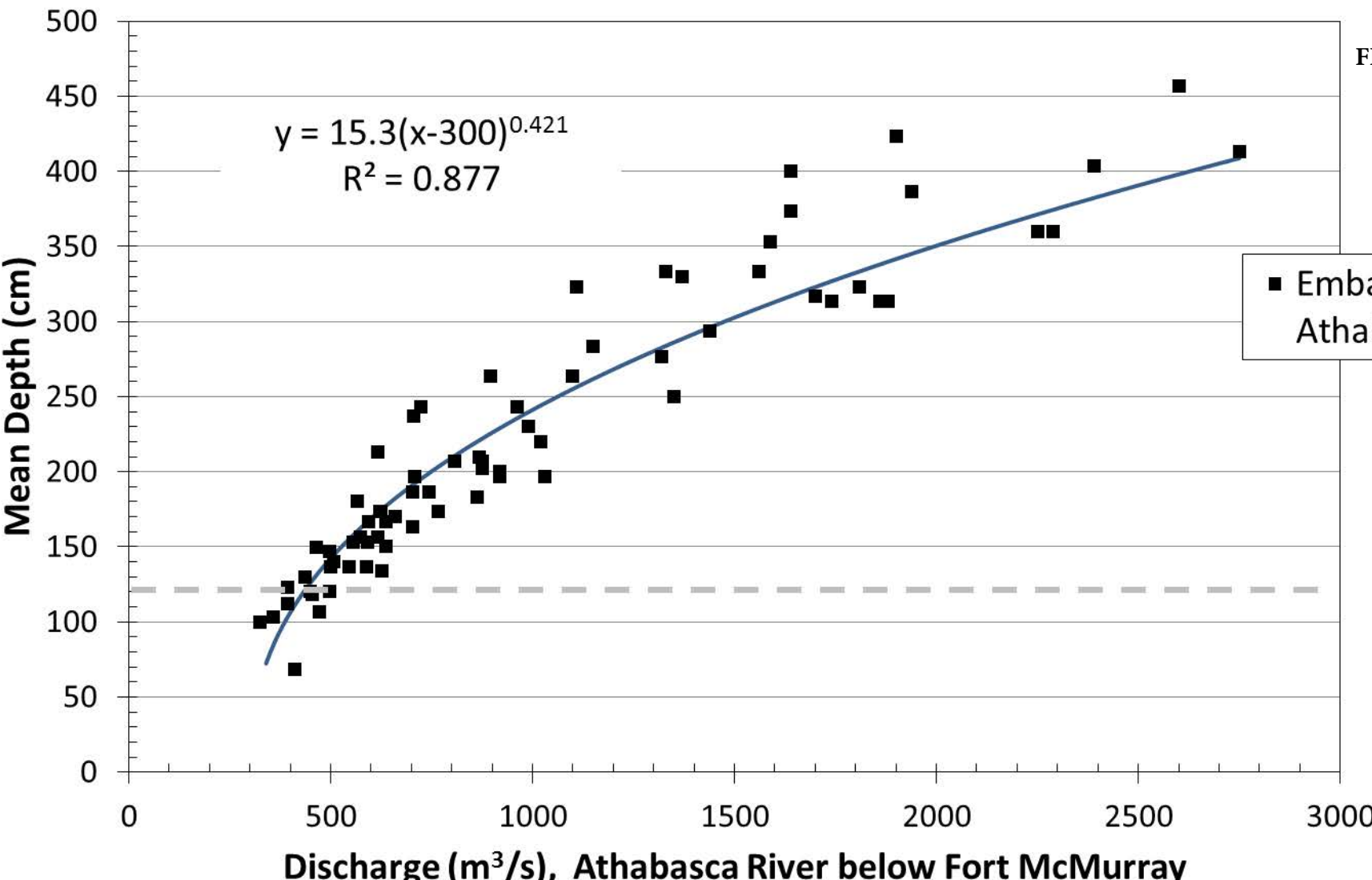
Legend:

- Transportation Routes
- In-stream Structures
- S1 (Western Quatre Fourches Impoundment)
- S2 (Little Rapids Site)
- S3 (Revillon Coupe Site)
- Athabasca Chipewyan First Nation
- Mikiseew Cree Nation

Projection System: WGS 1984 Web Mercator (auxiliary system)

120
90
60
30
15
0
Kilometers

FIGURE 5



■ Embarrass R. near Athabasca R.

Table 4. Annual distribution of low water depths for two depth thresholds (122 cm and 100 cm) for all sites monitored during all of 2011-2015.

FIGURE 6

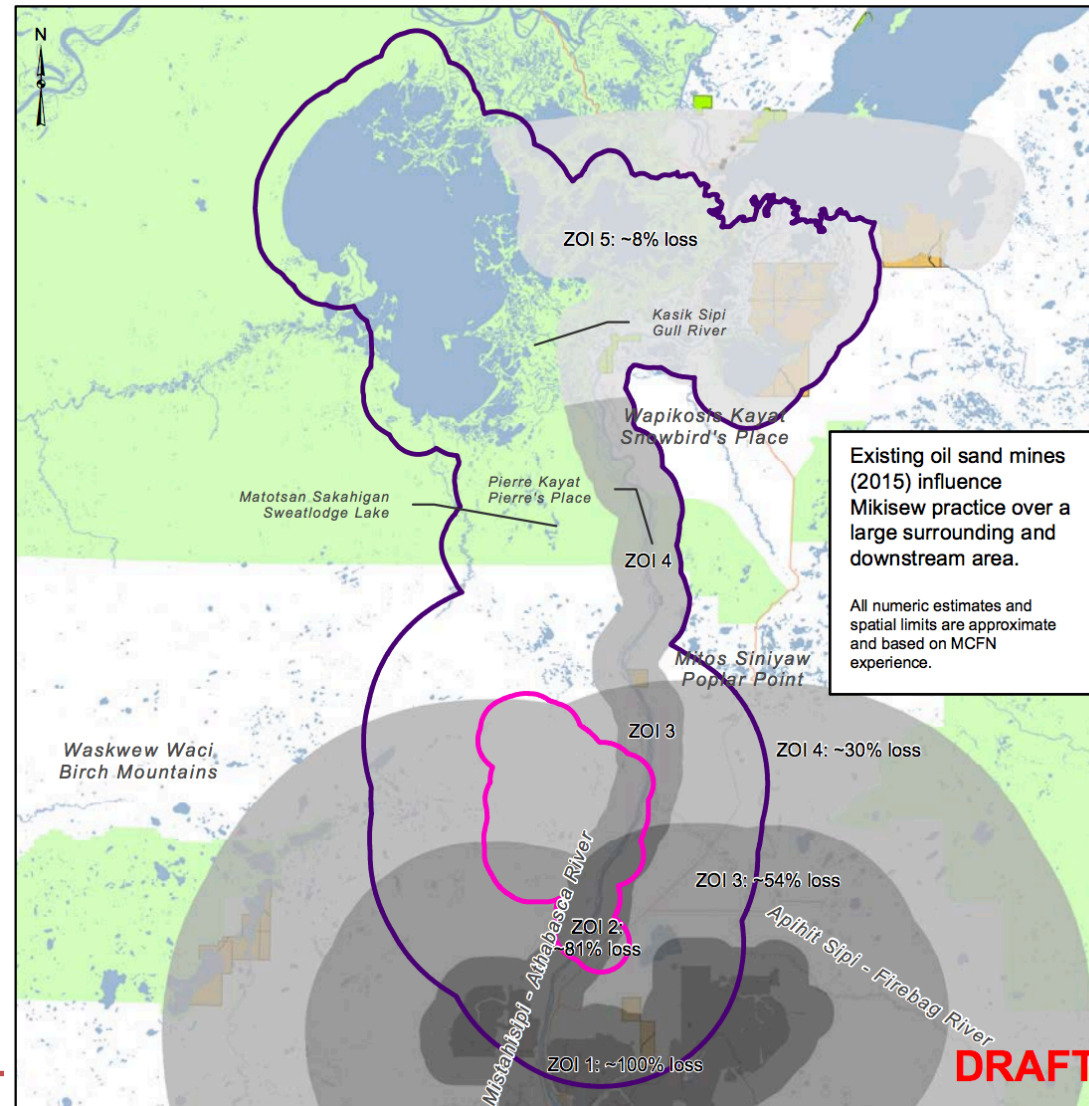
Site No.	Distribution of Occurrences at or below 100 cm (% of total over the five years)						Distribution of Occurrences at or below 122 cm (% of total over the five years)					
	Tot#	2011	2012	2013	2014	2015	Tot#	2011	2012	2013	2014	2015
A1	0	0	0	0	0	0	0	0	0	0	0	0
A2	4	25	75	0	0	0	8	13	87	0	0	0
A3	0	0	0	0	0	0	0	0	0	0	0	0
A4	13	0	8	15	8	69	31	3	13	19	13	52
A5	13	8	23	15	15	39	22	5	27	14	22	32
A6	10	0	0	10	30	60	13	0	8	8	31	53
M1	0	0	0	0	0	0	0	0	0	0	0	0
M2	0	0	0	0	0	0	1	0	0	0	0	100
M3	6	50	50	0	0	0	12	25	75	0	0	0
M4	2	0	0	0	0	100	8	13	25	0	0	62
Overall (#)	48	5	10	5	6	22	95	7	29	10	13	36
Overall (%)	100	10	21	10	13	46	100	7	31	11	14	37

Cultural ZOI (Zone of Influence)

Oil sand mines have a cultural footprint or ZOI that is much larger than the physical footprint.

Cumulative effects in the LSA are already substantial and are increasing in the RSA.

Underlying requirements for practice – including within WBNP – are at risk.



Impacts on *Sakaw Pimacihiwin*

- Preferred Mikisew camps and cabins are patterned in particular ways.
- Industrial impacts to camps, cabins, or nearby resources, erode cultural viability.

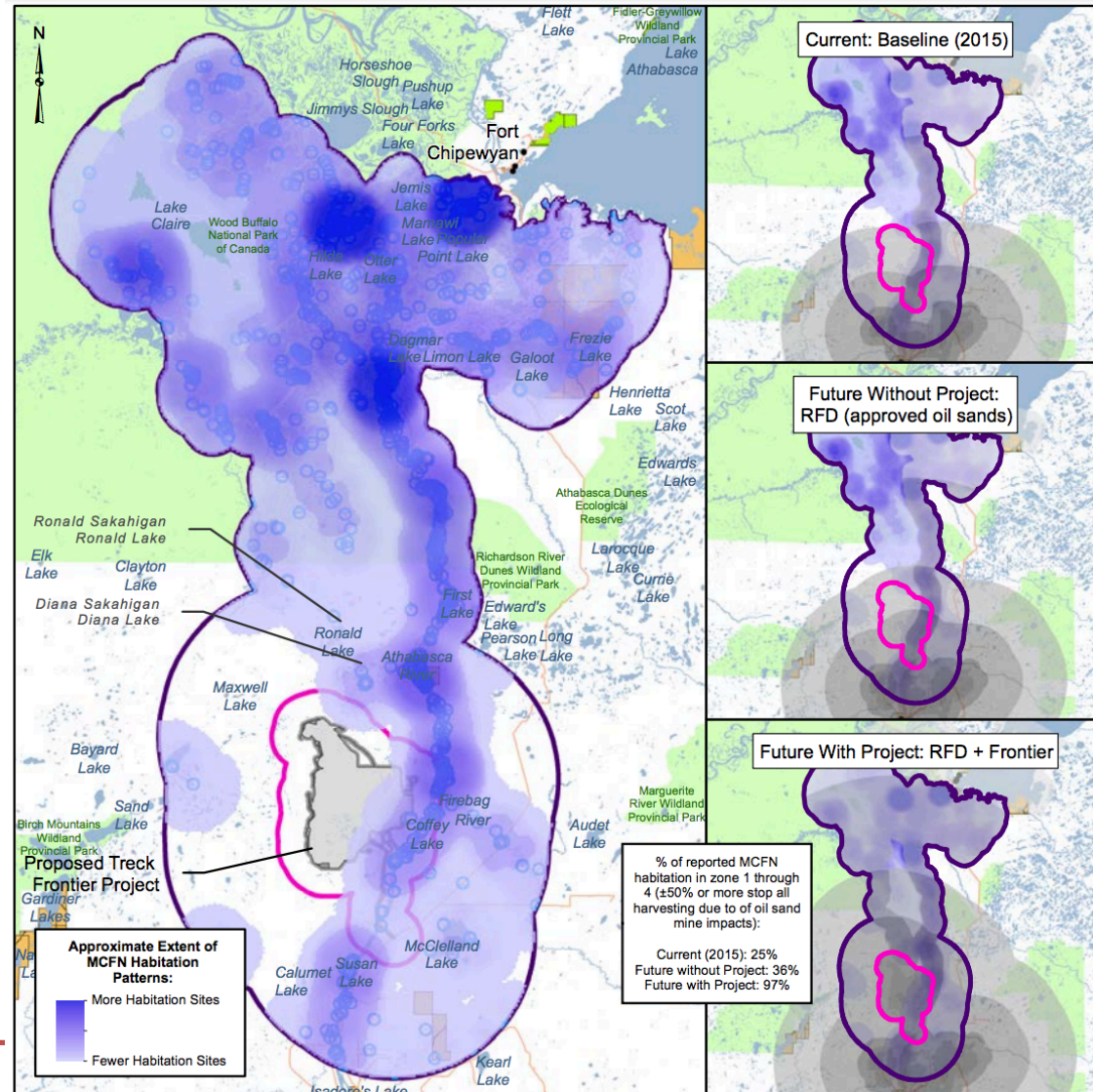


FIGURE 10

- Based on past MCFN experience with similar oil sand mines, we can anticipate how new projects will influence future MCFN practice.

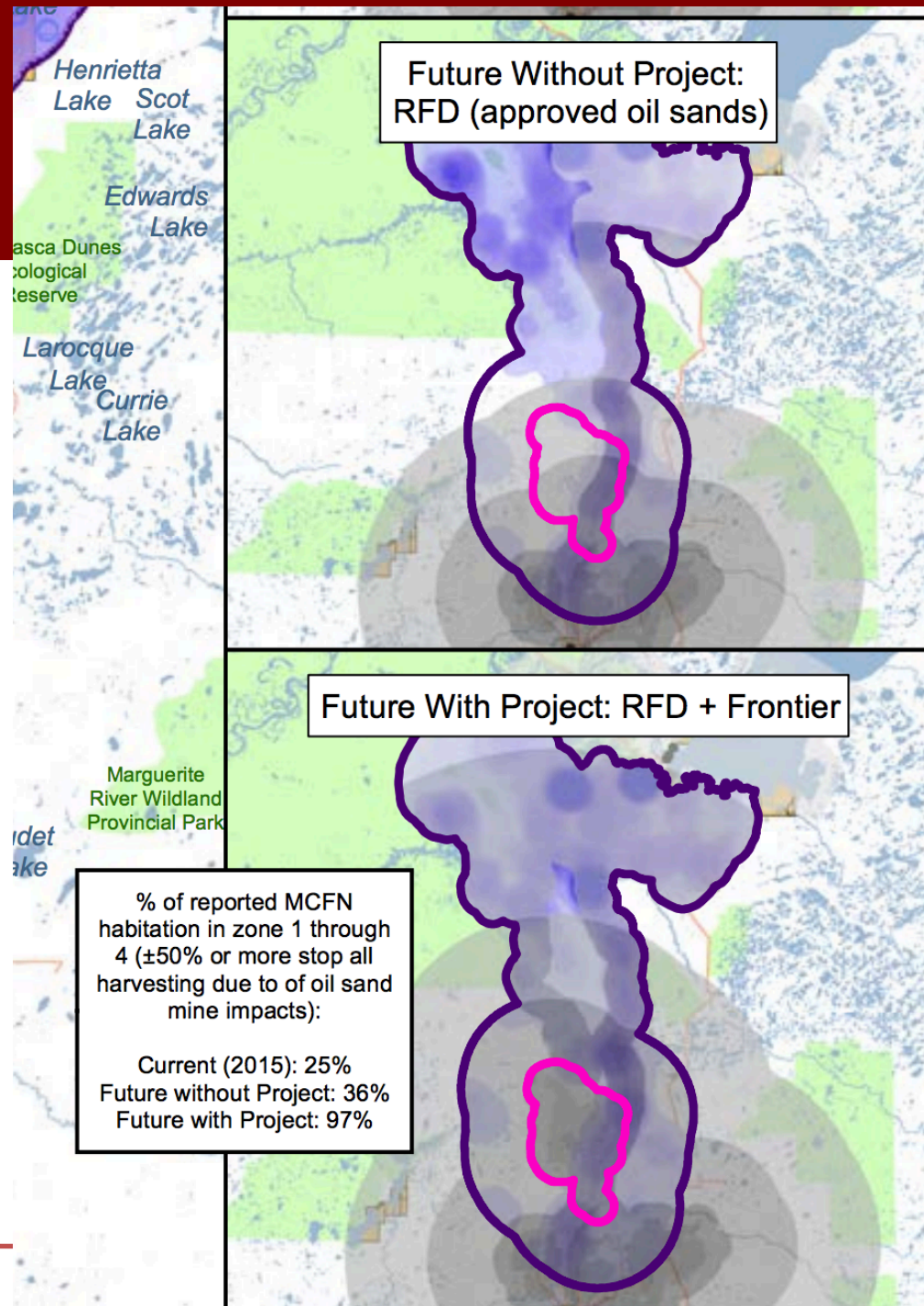


FIGURE 7

