

Table 1: Biodiversity Potential in the Fort McKay FTSA Block (Landsat)

Regional Land Cover Class ^(a)	Total Score	Ranking Index ^(b)	Pre-Development Scenario	Base Case	Application Case	Application-Closure	Planned Development Case	Far Future (PDC Closure)	Net Change Application to Base Case		Net Change Application Case to Pre-Development		Net Change Application Closure to Base Case		Net Change Application Closure to Pre-Development		Net Change Planned Development Case to Base Case		Net Change Planned Development Case to Pre-Development		Net Change PDC Closure to Base Case		Net Change PDC Closure to Pre-Development	
			[ha]	[ha]	[ha]	[ha]	(ha)	(ha)	[ha]	(%)	[ha]	(%)	[ha]	(%)	[ha]	(%)	[ha]	(%)	[ha]	(%)	[ha]	(%)	[ha]	(%)
High Biodiversity Potential^(c)																								
treed fen	23.2	1	68,825	53,594	47,441	47,441	45,730	46,684	-6,153	-11	-21,384	-31	-6,153	-11	-21,384	-31	-7,864	-15	-23,095	-34	-6,910	-13	-22,141	-32
non-treed wetlands	22.6	0.97	38,388	25,551	21,768	24,526	21,149	39,774	-3,783	-15	-16,620	-43	-1,025	-4	-13,862	-36	-4,402	-17	-17,239	-45	14,223	56	1,386	4
<i>subtotal</i>			<i>107,213</i>	<i>79,145</i>	<i>69,209</i>	<i>71,967</i>	<i>66,879</i>	<i>86,458</i>	<i>-9,936</i>	<i>-13</i>	<i>-38,004</i>	<i>-35</i>	<i>-7,178</i>	<i>-9</i>	<i>-35,246</i>	<i>-33</i>	<i>-12,266</i>	<i>-15</i>	<i>-40,334</i>	<i>-38</i>	<i>7,313</i>	<i>9</i>	<i>-20,755</i>	<i>-19</i>
Moderate Biodiversity Potential^(c)																								
water	20	0.86	9,851	9,150	9,075	16,016	9,074	23,619	-75	-1	-776	-8	6,866	75	6,165	63	-76	-1	-777	-8	14,469	158	13,768	140
mixedwood aspen-jack pine	18.5	0.8	6,583	5,804	5,788	6,068	5,707	11,074	-16	0	-795	-12	264	5	-515	-8	-97	-2	-876	-13	5,270	91	4,491	68
treed bog/poor fen	18.2	0.78		47,644	42,751	42,762	41,115	41,126	-4,893	-10	42,751	nc	-4,882	-10	42,762	nc	-6,529	-14	41,115	nc	-6,518	-14	41,126	nc
mixedwood aspen-white spruce	17.7	0.76		38,726	36,439	39,011	31,320	54,083	-2,287	-6	36,439	nc	285	1	39,011	nc	-7,406	-19	31,320	nc	15,357	40	54,083	nc
coniferous white spruce	17.6	0.76		12,318	11,623	12,782	10,507	29,715	-695	-6	11,623	nc	464	4	12,782	nc	-1,811	-15	10,507	nc	17,397	141	29,715	nc
<i>subtotal</i>			<i>141,377</i>	<i>113,642</i>	<i>105,677</i>	<i>116,639</i>	<i>97,723</i>	<i>159,617</i>	<i>-7,965</i>	<i>-7</i>	<i>-35,700</i>	<i>-25</i>	<i>2,997</i>	<i>3</i>	<i>-24,738</i>	<i>-17</i>	<i>-15,919</i>	<i>-14</i>	<i>-43,654</i>	<i>-31</i>	<i>45,975</i>	<i>40</i>	<i>18,240</i>	<i>13</i>
Low Biodiversity Potential^(c)																								
coniferous jack pine	17	0.73	39,918	34,276	33,722	35,043	33,377	36,702	-554	-2	-6,196	-16	767	2	-4,875	-12	-899	-3	-6,541	-16	2,426	7	-3,216	-8
coniferous jack pine-black spruce	16.1	0.69	2,556	2,440	2,422	15,789	2,334	22,316	-18	-1	-134	-5	13,349	547	13,233	518	-106	-4	-222	-9	19,876	815	19,760	773
deciduous aspen-balsam poplar	15.9	0.69	48,446	45,342	44,446	46,996	35,746	60,811	-896	-2	-4,000	-8	1,654	4	-1,450	-3	-9,596	-21	-12,700	-26	15,469	34	12,365	26
<i>subtotal</i>			<i>90,920</i>	<i>82,058</i>	<i>80,590</i>	<i>97,828</i>	<i>71,457</i>	<i>119,829</i>	<i>-1,468</i>	<i>-2</i>	<i>-10,330</i>	<i>-11</i>	<i>15,770</i>	<i>19</i>	<i>6,908</i>	<i>8</i>	<i>-10,601</i>	<i>-13</i>	<i>-19,463</i>	<i>-21</i>	<i>37,771</i>	<i>46</i>	<i>28,909</i>	<i>32</i>
Very Low Biodiversity Potential^(c)																								
burn	n/a	n/a	40,061	6,863	3,932	3,932	3,931	3,931	-2,931	-43	-36,129	-90	-2,931	-43	-36,129	-90	-2,932	-43	-36,130	-90	-2,932	-43	-36,130	-90
cutblock	n/a	n/a	2	4,716	4,249	4,249	4,249	4,266	-467	-10	4,247	212,350	-467	-10	4,247	212,350	-467	-10	4,247	212,350	-450	-10	4,264	213,200
disturbance/urban/industrial	n/a	n/a	0	93,217	115,984	85,027	135,403	5,540	22,767	24	115,984	nc	-8,190	-9	85,027	nc	42,186	45	135,403	nc	-87,677	-94	5,540	nc
<i>subtotal</i>			<i>40,063</i>	<i>104,796</i>	<i>124,165</i>	<i>93,208</i>	<i>143,583</i>	<i>13,737</i>	<i>19,369</i>	<i>18</i>	<i>84,102</i>	<i>210</i>	<i>-11,588</i>	<i>-11</i>	<i>53,145</i>	<i>133</i>	<i>38,787</i>	<i>37</i>	<i>103,520</i>	<i>258</i>	<i>-91,059</i>	<i>-87</i>	<i>-26,326</i>	<i>-66</i>
Other^(d)																								
clouds	0	0	67	0	0	0	0	0	0	0	-67	-100	0	0	-67	-100	0	0	-67	-100	0	0	-67	-100
Total			379,641	379,641	379,641	379,641	379,642	379,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(a) Refer to Table 3.3-2 in the Vegetation, Wetlands and Forest Resources Environmental Setting Report (ESR) (Shell 2007) for the correlation between regional land cover classes and ecosite phases and wetlands types.

(b) Ranking index standardized relative to regional land cover class with highest total score.

(c) Biodiversity Potential: Very Low = na; Low = ≤0.75; Moderate = 0.76 to 0.89; High = ≥0.90.

(d) Clouds on the Landsat image prevents interpretation of regional land cover class in some areas for the Pre-Development Scenario.

n/a = Not applicable.

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual values.