Table B.15-2 Revised 4-19-10
Kibby Expansion Project Unavoidable Wetland Impacts Associated with Crane Path and Turbine Construction

Wetland ID	Wetland Type	LURC Subdistrict	Total Permanent Impact		Total Temporary Impact		Explanation
			ft^2	acres	ft^2	acres	
C-09-S-16	PFO 4	P-WL3	~~1.2~~1	0	~~0~~25	~~0~~<0.001	The T-12/13 spur road passes by wetland C-16 upslope to the east. Wetland boundaries will be flagged and fill will likely be avoided for this very small impact.
C-09-S-21	PFO 4	P-WL3	~~154.8~~ 162	.004	~~128.5~~ 121	0.003	A cliff to the east limits the alignment of the T-12/13 spur to impact wetland C-21. A rock sandwich will be installed to maintain hydrology.
A-09-S-305	PFO 4	P-WL3	~~291.6~~ 292	0.007	0	0	The T-9/10 spur road is ideally located on a gentle slope, reducing cuts and fills. The spur travels northeasterly avoiding mapped Bicknell's Thrush habitat to the extent possible. As a result. Wetland A-305 is impacted with road fill. The wetland is small with no significant functions or values.
B-09-S-65	PSS 4	P-WL2 (a)	~~184.3~~ 162	0.004	~~71.1~~ 93	0.002	Same as A-305
F-09-S-6	PEM 1	P-WL2 (a)	~~902.9~~ 881	0.02~~1~~	~~2.4~~347	~~0~~0.008	Several factors create unavoidable impact to Wetland F-6: steepness to the north and sub-alpine fir habitat to the west. The crane path will fill a majority of this resource.
F-09-S-5	PFO 4	P-WL3	~~579.9~~ 607	~~0.013~~ 0.014	~~240.2~~ 213	0.~~006~~005	T-8 will require fill down slope to support the turbine location. Natural drainage shall remain intact.
A-09-S-214	PFO 4	P-WL3	~~1.4~~ 0	0	~~44.7~~ 46	0.001	T-6 clearing will impact the northern edge of Wetland A-214. Pre-construction flagging of the wetland boundary may enable avoiding this very small wetland impact.
A-09-S-217	PSS 1/4	P-WL2 (a)	~~174.6~~ 175	0.004	0	0	The T-6 pad layout is located over the small isolated wetland A-217. The topography is ideal for a turbine site, and ideal sites are limited.

Wetland ID	Wetland Type	LURC Subdistrict	Total Permanent Impact		Total Temporary Impact		Explanation
			ft²	acres	ft²	acres	
A-09-S-215	PFO 4	P-WL3	0	0	21~~.5~~	≤0.001	A steep slope to the downhill side of the crane path requires clearing to Wetland A-215. No grubbing will be required. The wetland will retain natural hydrology and functions. The cleared area will be allowed to regenerate to the original cover type.
A-09-S-219	PFO 4	P-WL3	~~127.8~~ 104	~~0.003~~ 0.002	~~232.2~~ 256	~~0.005~~ 0.006	Construction over Wetland A-219 allows the T-5 layout to avoid impacts to Wetlands A-215 and B-49. Use of rock fill will minimize the wetland impact.
A-09-S-220	PFO 4	P-WL3	~~92.1~~ 105	0.002	~~121.9~~ 109	0.003	The crane path is constrained by a steep slope to the east and a larger wetland (B-49) to the west. Hydrology will be maintained through the use of a rock sandwich. Maintaining hydrology along this drain is important because *Gal. kamtschaticum* populations exist along the drain below the road.
B-09-S-51	PFO 4	P-WL3	~~987.5~~ 1017	0.023	~~860.9~~ 831	~~0.020~~ 0.019	This impact is to the edge of the wetland. The crane path alignment is constrained by steep slopes the east, and wetland impact has been minimized to the extent possible. A rock sandwich will be installed to maintain hydrology flowing out of the wetland to the east
TOTAL			~~3498~~ 3,507 ft²	~~0.0803~~ 0.0805 acres	~~1724~~ 2063 ft²	~~0.0396~~ 0.047 acres	

Table B.15-2 Revised 4-19-10
Kibby Expansion Project Unavoidable Wetland Impacts Associated with Crane Path and Turbine Construction

Wetland ID	Wetland Type	LURC Subdistrict	Total Permanent Impact		Total Temporary Impact		Explanation
			ft^2	acres	ft^2	acres	
C-09-S-16	PFO 4	P-WL3	1	0	25	<0.001	The T-12/13 spur road passes by wetland C-16 upslope to the east. Wetland boundaries will be flagged and fill will likely be avoided for this very small impact.
C-09-S-21	PFO 4	P-WL3	162	.004	121	0.003	A cliff to the east limits the alignment of the T-12/13 spur to impact wetland C-21. A rock sandwich will be installed to maintain hydrology.
A-09-S-305	PFO 4	P-WL3	292	0.007	0	0	The T-9/10 spur road is ideally located on a gentle slope, reducing cuts and fills. The spur travels northeasterly avoiding mapped Bicknell's Thrush habitat to the extent possible. As a result. Wetland A-305 is impacted with road fill. The wetland is small with no significant functions or values.
B-09-S-65	PSS 4	P-WL2 (a)	162	0.004	93	0.002	Same as A-305
F-09-S-6	PEM 1	P-WL2 (a)	881	0.02	347	0.008	Several factors create unavoidable impact to Wetland F-6: steepness to the north and sub-alpine fir habitat to the west. The crane path will fill a majority of this resource.
F-09-S-5	PFO 4	P-WL3	607	0.014	213	0.005	T-8 will require fill down slope to support the turbine location. Natural drainage shall remain intact.
A-09-S-214	PFO 4	P-WL3	0	0	46	0.001	T-6 clearing will impact the northern edge of Wetland A-214. Pre-construction flagging of the wetland boundary may enable avoiding this very small wetland impact.
A-09-S-217	PSS 1/4	P-WL2 (a)	175	0.004	0	0	The T-6 pad layout is located over the small isolated wetland A-217. The topography is ideal for a turbine site, and ideal sites are limited.

Wetland ID	Wetland Type	LURC Subdistrict	Total Permanent Impact		Total Temporary Impact		Explanation
			ft^2	acres	ft^2	acres	
A-09-S-215	PFO 4	P-WL3	0	0	21	<0.001	A steep slope to the downhill side of the crane path requires clearing to Wetland A-215. No grubbing will be required. The wetland will retain natural hydrology and functions. The cleared area will be allowed to regenerate to the original cover type.
A-09-S-219	PFO 4	P-WL3	104	0.002	256	0.006	Construction over Wetland A-219 allows the T-5 layout to avoid impacts to Wetlands A-215 and B-49. Use of rock fill will minimize the wetland impact.
A-09-S-220	PFO 4	P-WL3	105	0.002	109	0.003	The crane path is constrained by a steep slope to the east and a larger wetland (B-49) to the west. Hydrology will be maintained through the use of a rock sandwich. Maintaining hydrology along this drain is important because *Gal. kamtschaticum* populations exist along the drain below the road.
B-09-S-51	PFO 4	P-WL3	1017	0.023	831	0.019	This impact is to the edge of the wetland. The crane path alignment is constrained by steep slopes the east, and wetland impact has been minimized to the extent possible. A rock sandwich will be installed to maintain hydrology flowing out of the wetland to the east
TOTAL			**3507 ft^2**	**0.0805 acres**	**2063 ft^2**	**0.047 acres**	