

R645-301-300 BIOLOGY SECTION

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Mine # C/015/0018
File Incoming
Record # 00869
Doc. Date 7.13.05
Recd. Date 7.14.05

Wildlife Mitigation Commitments:

Table 300-5: Rilda Canyon Wildlife Mitigation						
Wildlife	Project	Project Summary	Overseeing Agency(s)	General Objective	Date of Implementation	Required Reporting
Big Game Species	Leroy Mine Area; Buried Coal Removal and Landscape Enhancement **Refer to Maps 200-2 and 300-6 for the location and extent of the enhancement**	Leroy Coal Mine operated during the 1940's through the 1950's. Development included a narrow access road, two portals and coal storage and haulage area. Soil/geotechnical surveys delineated an area containing approximately 4,000 tons of buried coal. In addition, these surveys also documented that the depth of soil was limited in this area and ultimately affected the success and diversity of the revegetation. PacifiCorp proposes as part of the development of Rilda Canyon to remove the buried coal within the proposed disturbed area. During final reclamation, PacifiCorp commits to reclaiming this area to the same standards as areas previously not disturbed, including committing the revegetation standards to non-disturbed reference areas.	DOG M	To achieve reclamation of the Leroy Mine buried coal area with vegetation success similar to the non-disturbed reference area.	Project will initiated and be completed during the development of the facilities, approximately two years.	Certified as-built drawings after the construction of the Rilda Canyon facilities.

Table 300-5: Rilda Canyon Wildlife Mitigation						
Wildlife	Project	Project Summary	Overseeing Agency(s)	General Objective	Date of Implementation	Required Reporting
Big Game Species	Abandoned Mine Areas Outside of the Proposed Disturbance **Refer to Maps 200-2 and 300-6 for the location and extent of the enhancement**	Cooperate with Abandoned Mine Lands (AML), United States Forest Service (USFS) to reclaim and enhance the Leroy Mine access road and portal site, including access road, buried coal, historic coal spills and portal highwalls.	DOGMA, USFS	To achieve reclamation success of the Leroy Mine disturbed area outside the proposed Rilda Canyon facilities boundaries with vegetation success similar to the non-disturbed reference area. PacifiCorp will utilize available soil resources to backfill the portal bench and access road. The entire area will be recontoured to approximate original contour to the extent possible. After completion of the backfill and grading process, the entire area will be pocked and seeded as outlined in the Biology and Engineering Sections for areas within the proposed disturbed area.	Project will be initiated and completed during the development of the facilities, approximately two years.	Upon completion of the project, PacifiCorp will develop a report documenting the restoration project.

Bonding Calculations
Deer Creek Mine - Rilda Portal Facilities

Direct Costs

Subtotal Demolition,	\$233,793.00	
Subtotal Earthwork	\$621,075.00	
Subtotal Revegetation	\$65,201.00	
Direct Costs	\$920,069.00	

Indirect Costs

Mob/Demob	\$92,006.90	10.0%
Contingency	\$46,003.45	5.0%
Engineering Redesign	\$23,001.73	2.5%
Main Office Expense	\$62,564.69	6.8%
Project Mainagement Fee	\$23,001.73	2.5%
Subtotal Indirect Costs	\$246,578.49	26.8%

Total Cost in 2005 Dollars	\$1,166,647.49	
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Escalation factor		0.0444
Number of years		3
Escalation	\$162,399.00	

Reclamation Cost 2008	\$1,329,046.49	
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Bond Amount (rounded to nearest \$1,000)	\$1,329,000.00	
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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Mulch	Mulch														Ton/AC				
	Hay only	Hay bale	Reveg007	57.2	/ton					13.1			2			AC		26.2	tons	\$1,499
	Seeding																			
	Material Costs	Rilda Seed	DeerCreek010	830	Acre					13.1						AC		13.1	AC	\$10,873
	Labor Costs	Hydro Spreader (equip. & labor) B-81 80MSF/d	Reveg002	19.13	/MSF					13.1						AC		570.6	MSF	\$10,916
	200 Transplant per Acre	Rilda Trans 100/AC	DeerCreek011	974	Acre					13.1						AC		26.2	AC	\$25,519
		Bare root seedlings, 11" to 18" med. soil	02915 400 0582	1.28	Ea					13.1						AC		2620	EA	\$3,354
	Subtotal																			\$62,161
	Revegetation Cost																			
	Assume 25%																			\$13,040
	Subtotal																			\$13,040
	Total																			\$65,201