

OGMCOAL - Crandall Canyon Cost workbook

From: Steve Christensen
To: OGMCOAL
Date: 3/31/2011 1:53 PM
Subject: Crandall Canyon Cost workbook
Attachments: Crandall_Treat_Costs_03312011.xls

>>> Kevin Lundmark 3/31/2011 10:39 AM >>>

Hi Dana,

I've attached the workbook which we've been working on for water treatment costs at Crandall. I've updated this with the information we collected at the site yesterday. Let me know if you have any questions.

Thanks,
Kevin

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		
	Sludge Cleanout & Disposal																					
	Vac Truck Rental		01 54 33.40-7625	1320	WK										12	12	WK		12	WK	15840	
	Vac Truck Operation		01 54 33.40-7625	13.89	HR						600								600	HR	8334	
	Truck Driver / Laborer		Crew B-6B	34.35	HR										600	600	HR		600	HR	20610	
	Truck Driver / Equip. Operator		Crew B-6B	45.35	HR										600	600	HR		600	HR	27210	
	Foreman		Crew B-6B	36.35	HR										300	300	HR		300	HR	10905	
	Filter Log (Excelsior)			25	EA														12	EA	300	
	Subtotal Sludge Cleanout & Disposal																				83200	
	Equipment Maintenance																					
	Pumps			35	HR															32	HR	1120
	Make-down unit / Chemical Equip.			45	HR															32	HR	1440
	Subtotal Equipment Maintenance																					2600
	Pond Maintenance																					
	Misc Labor			35	HR															64	HR	2240
	Subtotal Pond Maintenance																					2200
	Total Maintenance																					88000

Assume 6 sludge cleanout events per year, 10 days per event.