Long Lake SOD determination cost estimate
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1 Sample collection. sediment observation and documentation
assumes boat and driver support available on site

Travel				
miles	rate/mile		cost	
800	0.49		392.00	
Per diem				
days	persons	rate		
4	3	125	1,500.00	
Scuba observation and collection				
days	persons	rate		
3	2	1200	7,200.00	
			Total task:	**9,092.00**

2 SOD incubation and SOD determinations

Chamber materials and construction			
peristalic pumps			
qty	*price*		*cost*
2	46.3		92.60
O2 probes			
1	660		660.00
O2 Regulator			
1	264		264.00
N2 Regulator			
1	258.5		258.50
chambers	*qty*	*price*	
Misc fittings			
3	12	3.95	36.00
Misc tubing			
3	10	1.75	30.00
Ports			
3	15	4.6	207.00
plexiglass tubing			
3	2	80.1	480.60
plexiglass end caps			
2	2	6.2	24.80

	1	10.4	10.40
N2 gas			
	1	24.65	24.65
Demurage			
	2	3	6.00
		Consumeable cost per batch:	91.55

Labor

student	*hrs*	*rate*	*cost*
1	6	20	120.00
senior			
2	1	125	250.00
		Labor cost per batch:	370.00

Incubations (3 replicates each batch @ 2, 4, 6, 8 mg/L O2)

Sed types	*Batches*	*Velocities*	*Price*	
8	2	1	461.55	7,384.80

Consultant

hours	persons	rate	
40	2	120	9,600.00

Total direct (less equipment):	**19,227.30**	
Indirect (6%):	**1,153.64**	
Total indirect and direct:		**22,623.44**

3 Sediment mobilization study

Flume use

Sed samples	*hrs*	*rate*	
5	1.5	150.00	1,125.00

Labor

student	*hrs*	*rate*	*cost*
1	2	20	40.00
senior			
2	0.5	125	125.00
		Labor cost per test:	165.00