

BEN Results

Version 4.7.0

Tosta Dairy	Avoided Manure Management Costs
<u>Present Values as of Noncompliance Date (NCD),</u>	<u>03-May-2007</u>
A) On-Time Capital & One-Time Costs	\$0
B) Delay Capital & One-Time Costs	\$0
C) Avoided Annually Recurring Costs	\$60,023
D) Initial Economic Benefit (A-B+C)	\$60,023
E) Final Econ. Ben. at Penalty Payment Date,	
<u>01-Sep-2013</u>	<u>\$94,919</u>

C-Corporation w/ CA tax rates

Average Discount/Compound Rate	7.5%
Average Discount/Compound Rate Calculated By:	BEN
Compliance Date	31-Dec-2012

Capital Investment:

Estimated Cost of Capital Equipment	\$0
Capital Investment Delayed Not Avoided	
Cost Estimate Date	N/A
Cost Index for Inflation: N/A	
Consider Future Replacement (Useful Life)	N/A (N/A)

One-Time, Nondepreciable Expenditure:

Estimated Cost1	\$0
One-Time Expenditure Delayed Not Avoided	
Cost Estimate Date	N/A
Cost Index for Inflation: N/A	
Tax Deductible?	N/A

Annually Recurring Costs:

Estimated Cost*	\$22,687
Cost Estimate Date	01-Jun-2012
Cost Index for Inflation: Employment Cost Index	

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*Estimate based on the amount of manure generated over a five year period (1,124 cows X 15.7 gallons manure generated / day / cow X 5 years or 1825 days = 32,205,410 gallons of wet manure excreted over 5 years or 159,464 cubic yards). The 159,464 cubic yards of wet manure excreted is then multiplied by 70% (assuming manure characterization as excreted consists of 70% solids and 30% liquids) resulting in 111,624 cubic yards of dry manure over the 5 year period. Credit was given to the Discharger for removing some manure (e.g., land applications, exports) in the amount of 12,987 cubic yards of dry manure from 2007 thru 2011. The approximate net dry manure remaining onsite is 98,638 cubic yards. Land-applying manure via 4932 truckloads (98,638 cubic yards/ 20 cubic yards capacity per truck) @ \$23 per truckload/trip = total cost for 5 years of dry manure removal at \$113,434 or \$22,687 annually. The grand total transporting cost amount used is for onsite transport only (less than 1 mile) additional mileage would increase the cost per load/trip, and does not include required excavation/loading cost.