

CPD 13-8
Attachment 2
Example Force Account Analysis Backup Calculations

Lane closure force-account analysis:

Based on April 1, 2013 Equipment rates and Labor Surcharge for traditional contracts determine daily traffic control costs:

Classification	Rate	Qty	per hr/day	Cost
Laborers	per hr \$45.28	2	hour	\$90.56
			Surcharge (12%)	\$101.43
			Mark-up (35%)	\$136.93
			X 8 hrs	\$1,095.41
			Labor Cost=	\$1,095.41

Equipment	Amounts	Qty	per hr/day	hrs/day	Cost
Truck (12-20)	\$32.90	1	hour	8	\$263.20
Truck arrow	\$0.78	1	hour	8	\$6.24
Arrowboard	\$3.33	1	hour	8	\$26.64
Cones (100)	\$7.77	1	day	1	\$7.77
3 Signs	\$2.48	3	day	1	\$7.44
Beacon	\$5.48	1	day	1	\$5.48

Equipment Cost= \$316.77

Mark-up (15%) \$364.29

Equipment Cost w/ Mark-up= **\$364.29**

Total Equipment and Labor (including mark-ups)= **\$1,459.70**

Estimated Traffic Control Savings

Estimate the number of days profiling would take using California Profiolograph and calculate the credit to the State based on the number of days of traffic control is not required.

No of Days	Daily Savings	Credit
3	\$1,459.70	\$4,379.10

Traffic Control Credit = **\$4,379.10**

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California Profilograph operation force account analysis:

When the time estimated for performing the California Profilograph testing exceeds the estimated time for performing the Inertial Profiler testing calculate the credit as follows:

Based on April 1, 2013 Equipment rates and Labor Surcharge for traditional contracts:

Classification	Rate	Qty	per hr/day	Cost
Laborer	\$45.28	1	hour	\$45.28
			Surcharge (12%)	\$50.71
			Mark-up (35%)	\$68.46
			X 8 hrs	\$547.71
			Labor Cost=	\$547.71

Equipment	Amounts	Qty	per hr/day	hrs/day	Cost
California Profilograph					
Cox CS 8500 w/access.	\$15.81	1	hour	8	\$126.48
			Equipment Cost=		\$126.48
			Mark-up (15%)		\$145.45
			Equipment Cost w/ Mark-up=		\$145.45

Total Equipment and Labor (including mark-ups)= **\$693.16**

Estimated California Profilograph Operation Savings

Estimate the additional number of days profiling would take using California Profilograph versus using an Inertial Profiler and calculate the credit to the State.

No of Days	Daily Savings	Credit
2	\$693.16	\$1,386.32

Profilograph Operation Credit = **\$1,386.32**

Estimated Credit to the State

Traffic Control Savings	Profilograph Operation Savings	Total Credit to State
\$4,379.10	\$1,386.32	\$5,765.42

Credit to the State = **\$5,765.42**