

FAC 8316 Sewage Lift Station

RUC: \$204,802.50 EA

Source: USACE PAX Newsletter 3.2.2 dated 20 Mar 09
CatCode 83150
Deflated to FY-09 using Appendix C
In V12, Tri-Service and USACE PAX Newsletter values were updated while all
other values were inflated only.

SUC: \$1,124.54 EA

Source: Cost Works model, inflated to FY-09 using Green Book Table 5-6 (O&M less DHP)
In V12, values were inflated only.

Calculation follows:

FAC 8316 Sewage Lift Sta
CostWorks 2008 Quarter 2

Design Life (Years) = 50
Average Size (EA) = 1

Terminal Cutoff is the removal of a single task occurrence if that task occurs within 10% of the end of the design life and if the frequency of the task exceeds 20% of the design life. This prevents scheduling major work near the end of the design life

Description	Frequency	Crew	Qty	Unit	Total Incl. O&P	Zip Code Prefix	Type	Release	Adjusted	lifecost	Terminal
Minor chain link fence repairs (per 10 L.F.)	1	2 Clab	1.000	Ea.	24.79	200	FMR	2008 Qtr 2	50	1239.5	\$ 1,239.50
Replace fence fabric, 6' high, 9 ga. (per 10 L.F.)	10	2 Clab	1.000	Ea.	185.38	200	FMR	2008 Qtr 2	5	926.9	\$ 926.90
Replace double swing gates, 6' high, 20' opng.	20	2 Clab	1.000	Opng.	1,763.87	200	FMR	2008 Qtr 2	2	3527.74	\$ 3,527.74
Insp./chk. pump/mtr. oper., lub., chk. align. rainwater sump pump	1	1 Plum	2.000	Ea.	23.00	200	FMR	2008 Qtr 2	50	1150	\$ 1,150.00
Replace rainwater sump pump / motor assembly	20	2 Plum	2.000	Ea.	1,025.80	200	FMR	2008 Qtr 2	2	2051.6	\$ 2,051.60
Repack gate valve gland, 2" - 3" valves	10	1 Stpi	2.000	Ea.	65.52	200	FMR	2008 Qtr 2	5	327.6	\$ 327.60
Replace gate valve, partial, 2" - 3" valves	20	Q1	2.000	Ea.	1,092.90	200	FMR	2008 Qtr 2	2	2185.8	\$ 2,185.80
Install new gasket, 4" pipe size, steel/iron	25	1 Plum	4.000	Ea.	743.48	200	FMR	2008 Qtr 2	1	1486.96	\$ 743.48
Replace pipe and fittings, 3/4" steel	75	2 Plum	100.000	L.F.	1,867.00	200	FMR	2008 Qtr 2	0	0	\$ -
Repair failed breaker, 3 pole circuit breaker	10	1 Elec	2.000	Ea.	801.38	200	FMR	2008 Qtr 2	5	4006.9	\$ 4,006.90
Maintenance and inspection C.B., 3 pole circuit breaker	0.33	1 Elec	2.000	Ea.	57.00	200	FMR	2008 Qtr 2	151	8607	\$ 8,607.00
Replace C.B. molded case, 600 V, 3 pole circuit breaker	50	1 Elec	1.000	Ea.	3,611.55	200	FMR	2008 Qtr 2	0	3611.55	\$ -
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	1 Elec	1.000	Ea.	35.63	200	FMR	2008 Qtr 2	6	213.78	\$ 213.78

\$11,297.30

MR Subtotal \$ 24,980.30

MR Per Year \$ 499.61

PM Per Year \$ 660.33

Subtotal \$ 1,159.94

Total Per Unit \$ 1,159.94

FOM Energy Cost
10 hp motor 7.46 kw
Runs 5 minutes every 2 hours, total 120 minutes/day 2 hr
Days per year 365
total KWH 5445.8 kwh
KWH cost, DC, EIA 0.1108
Cost 603.39464