

Summary of Bids
Antietam Dam Upgrading
Berks County, Pennsylvania
ITB # 10-16-KS
Schnabel Reference 08150021

Item No.	Description	Quantity	Unit	Engineer's Estimate Schnabel Engineering		Caldwell Heckles Egan		Delaware Valley Contractors		Nicholson		QEI*	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	Mobilization and Demobilization	1	LS	\$230,000.00	\$230,000.00	\$356,254.00	\$356,254.00	\$475,255.00	\$475,255.00	\$310,000.00	\$310,000.00	\$250,102.25	\$250,102.25
2	Erosion and Sediment Control	1	LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$26,935.00	\$26,935.00	\$24,000.00	\$24,000.00	\$19,111.20	\$19,111.20
3	Clearing	1	LS	\$2,000.00	\$2,000.00	\$7,500.00	\$7,500.00	\$7,166.00	\$7,166.00	\$4,000.00	\$4,000.00	\$5,122.02	\$5,122.02
4	Stripping	1	LS	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$2,145.00	\$2,145.00	\$3,000.00	\$3,000.00	\$2,632.61	\$2,632.61
5	Drilling Rock Anchor Holes (4.5" dia)	270	LF	\$100.00	\$27,000.00	\$78.00	\$21,060.00	\$85.00	\$22,950.00	\$85.00	\$22,950.00	\$88.12	\$23,792.40
6	Drilling Rock Anchor Holes (8.5" dia)	750	LF	\$140.00	\$105,000.00	\$78.00	\$58,500.00	\$106.00	\$79,500.00	\$85.00	\$63,750.00	\$137.69	\$103,267.50
7	ReDrilling Rock Anchor Holes (4.5" dia)	90	LF	\$50.00	\$4,500.00	\$78.00	\$7,020.00	\$85.00	\$7,650.00	\$85.00	\$7,650.00	\$88.12	\$7,930.80
8	ReDrilling Rock Anchor Holes (8.5" dia)	250	LF	\$70.00	\$17,500.00	\$78.00	\$19,500.00	\$106.00	\$26,500.00	\$85.00	\$21,250.00	\$110.15	\$27,537.50
9	Pressure Testing and Washing (for PT Anchors)	14.0	Pump Hr	\$400.00	\$5,600.00	\$680.00	\$9,520.00	\$319.00	\$4,466.00	\$900.00	\$12,600.00	\$330.45	\$4,626.30
10	Grouting Rock Anchor Holes	300	Bag*	\$50.00	\$15,000.00	\$45.00	\$13,500.00	\$69.00	\$20,700.00	\$58.00	\$17,400.00	\$71.60	\$21,480.00
11	Post-Tensioned Anchor Strand	14,400	LF**	\$6.00	\$86,400.00	\$2.74	\$39,456.00	\$7.45	\$107,280.00	\$2.44	\$35,136.00	\$11.02	\$158,688.00
12	Stressing Anchorages	1	LS	\$80,000.00	\$80,000.00	\$70,000.00	\$70,000.00	\$31,890.00	\$31,890.00	\$90,000.00	\$90,000.00	\$33,045.30	\$33,045.30
13	Drilling Dowel Holes (4" dia)	1,900	LF	\$90.00	\$171,000.00	\$173.00	\$328,700.00	\$80.00	\$152,000.00	\$220.00	\$418,000.00	\$82.61	\$156,959.00
14	Grouting Dowel Holes	160	Bag*	\$100.00	\$16,000.00	\$99.00	\$15,840.00	\$69.00	\$11,040.00	\$190.00	\$30,400.00	\$71.60	\$11,456.00
15	Epoxy Grouted Dowels	41	EA	\$60.00	\$2,460.00	\$100.00	\$4,100.00	\$191.00	\$7,831.00	\$245.00	\$10,045.00	\$11.02	\$451.82
16	Dowels - Galv Reinforcement (#8)	1,100	LBS	\$2.00	\$2,200.00	\$1.45	\$1,595.00	\$6.45	\$7,095.00	\$1.45	\$1,595.00	\$9.91	\$10,901.00
17	Dowels - Galv Reinforcement (#9)	2,000	LBS	\$2.00	\$4,000.00	\$1.40	\$2,800.00	\$5.50	\$11,000.00	\$1.40	\$2,800.00	\$11.02	\$22,040.00
18	Dowels - Galv. Reinforcement (#14)	6,700	LBS	\$2.00	\$13,400.00	\$1.25	\$8,375.00	\$5.50	\$36,850.00	\$1.25	\$8,375.00	\$12.12	\$81,204.00
19	Common Excavation	700	CY	\$20.00	\$14,000.00	\$30.00	\$21,000.00	\$11.35	\$7,945.00	\$45.00	\$31,500.00	\$4.79	\$3,353.00
20	Rubble Excavation	70	CY	\$80.00	\$5,600.00	\$60.00	\$4,200.00	\$113.00	\$7,910.00	\$87.00	\$6,090.00	\$4.79	\$335.30
21	Earthfill	400	CY	\$20.00	\$8,000.00	\$25.00	\$10,000.00	\$19.50	\$7,800.00	\$40.00	\$16,000.00	\$7.75	\$3,100.00
22	Grout Hole Connection - Ascending Stage	85	EA	\$550.00	\$46,750.00	\$1,100.00	\$93,500.00	\$319.00	\$27,115.00	\$2,000.00	\$170,000.00	\$330.45	\$28,088.25
23	Grout Hole Connection - Descending Stage	10	EA	\$400.00	\$4,000.00	\$1,100.00	\$11,000.00	\$319.00	\$3,190.00	\$2,500.00	\$25,000.00	\$330.45	\$3,304.50
24	Drilling Grout Holes	5,200	LF	\$40.00	\$208,000.00	\$59.00	\$306,800.00	\$64.00	\$332,800.00	\$65.00	\$338,000.00	\$82.61	\$429,572.00
25	Re-drilling Grout Holes	500	LF	\$20.00	\$10,000.00	\$55.00	\$27,500.00	\$64.00	\$32,000.00	\$60.00	\$30,000.00	\$66.09	\$33,045.00
26	Verification Holes	360	LF	\$85.00	\$30,600.00	\$76.00	\$27,360.00	\$106.00	\$38,160.00	\$80.00	\$28,800.00	\$110.15	\$39,654.00
27	Pressure Testing of Grout Holes	30	Pump Hr	\$300.00	\$9,000.00	\$650.00	\$19,500.00	\$160.00	\$4,800.00	\$900.00	\$27,000.00	\$165.23	\$4,956.90
28	Grouting	450	Pump Hr	\$400.00	\$180,000.00	\$532.00	\$239,400.00	\$372.00	\$167,400.00	\$665.00	\$299,250.00	\$385.53	\$173,488.50
29	Cement for Grout	1,500,000	LBS	\$0.25	\$375,000.00	\$0.06	\$90,000.00	\$0.13	\$195,000.00	\$0.06	\$90,000.00	\$0.13	\$195,000.00
30	Sand for Grout	1,500,000	LBS	\$0.05	\$75,000.00	\$0.03	\$45,000.00	\$0.04	\$60,000.00	\$0.04	\$60,000.00	\$0.04	\$60,000.00
31	Bentonite	40,000	LBS	\$0.20	\$8,000.00	\$0.14	\$5,600.00	\$0.30	\$12,000.00	\$0.14	\$5,600.00	\$0.33	\$13,200.00
32	Welan Gum	1,500	LBS	\$20.00	\$30,000.00	\$15.00	\$22,500.00	\$16.00	\$24,000.00	\$15.00	\$22,500.00	\$18.73	\$28,095.00
33	High Range Water Reducers	2,000	GAL	\$18.00	\$36,000.00	\$9.50	\$19,000.00	\$16.00	\$32,000.00	\$10.00	\$20,000.00	\$18.73	\$37,460.00
34	Topsoil	90	CY	\$30.00	\$2,700.00	\$35.00	\$3,150.00	\$42.00	\$3,780.00	\$37.42	\$3,367.80	\$14.58	\$1,312.20
35	Permanent Turf Establishment	0.3	Acre	\$5,000.00	\$1,500.00	\$10,000.00	\$3,000.00	\$41,440.00	\$12,432.00	\$15,000.00	\$4,500.00	\$3,773.77	\$1,132.13
36	Class A Concrete	250	CY	\$600.00	\$150,000.00	\$448.44	\$112,110.00	\$520.00	\$130,000.00	\$400.00	\$100,000.00	\$220.79	\$55,197.50
37	Class C Concrete	125	CY	\$300.00	\$37,500.00	\$369.68	\$46,210.00	\$285.00	\$35,625.00	\$335.00	\$41,875.00	\$154.21	\$19,276.25
38	Steel Reinforcement	51,000	LBS	\$1.50	\$76,500.00	\$1.05	\$53,550.00	\$1.60	\$81,600.00	\$2.10	\$107,100.00	\$1.08	\$55,080.00
39	Concrete Repair	100	SF	\$100.00	\$10,000.00	\$289.00	\$28,900.00	\$53.00	\$5,300.00	\$73.70	\$7,370.00	\$5.51	\$551.00
40	Cleaning	1	LS	\$30,000.00	\$30,000.00	\$500.00	\$500.00	\$36,200.00	\$36,200.00	\$35,500.00	\$35,500.00	\$7,710.57	\$7,710.57
41	Pointing	6,000	SF	\$20.00	\$120,000.00	\$22.00	\$132,000.00	\$22.00	\$132,000.00	\$25.00	\$150,000.00	\$8.99	\$53,940.00
42	Outlet Facility Location and Inspection	1	LS	\$20,000.00	\$20,000.00	\$4,000.00	\$4,000.00	\$105,980.00	\$105,980.00	\$90,000.00	\$90,000.00	\$5,507.55	\$5,507.55
43	Gate Valve	1	LS	\$40,000.00	\$40,000.00	\$20,000.00	\$20,000.00	\$58,900.00	\$58,900.00	\$97,000.00	\$97,000.00	\$46,406.62	\$46,406.62
44	Traffic Control	1	LS	\$5,000.00	\$5,000.00	\$12,000.00	\$12,000.00	\$33,700.00	\$33,700.00	\$55,000.00	\$55,000.00	\$1,585.32	\$1,585.32
45	Contingency Allowance	1	LS	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
Total					\$2,377,210.00		\$2,384,000.00		\$2,675,890.00		\$2,994,403.80		\$2,290,699.29

* Values do not match QEI Bid Form. Amounts have been adjusted by multiplying the Quantity by the Unit Price on the bid form and revising the sum of Amounts.