

**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

Screening Level Cost Estimates

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 04 (100% Qty)
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW
 O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 Rev Aug 06
 Filename:
 Date: 18 August 2006

Alternative 4: Drain the Lake (Mechanical Removal)

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$53,585.00	\$53,585.00	25%	\$66,981.25
0002	Excavation / Trucking	348300	CY	\$9.87	\$3,437,721.00	25%	\$4,297,151.25
0003	Spreading	348300	CY	\$2.20	\$766,260.00	25%	\$957,825.00
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$277,750.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,250.00
	Wildwood	1	JB	\$326,800.00	\$326,800.00	25%	\$408,500.00
0005	Access Ramps						
	Mars	1	JB	\$24,900.00	\$24,900.00	25%	\$31,125.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$86,750.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$95,750.00
	Rose Barn	1	JB	\$25,500.00	\$25,500.00	25%	\$31,875.00
	The Point	1	JB	\$31,700.00	\$31,700.00	25%	\$39,625.00
0006	Stream Diversion	1	JB	\$738,500.00	\$738,500.00	24%	\$913,900.00
0007	Sediment Control	1	LS	\$25,926.00	\$25,926.00	25%	\$32,407.50
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	25%	\$222,000.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$176,000.00	\$176,000.00	25%	\$220,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	20%	\$5,724.00
	Coir Logs	7040	LF	\$40.00	\$281,600.00	20%	\$337,920.00
0010	Plantings						
	Shoreline	1	JB	\$45,940.00	\$45,940.00	25%	\$57,425.00
	Wildwood	1	JB	\$80,000.00	\$80,000.00	15%	\$92,000.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,375.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,250.00
0011	Traffic Control	1	JB	\$159,500.00	\$159,500.00	25%	\$199,400.00

Total Cost w/ Contingency \$8,641,984.00

Rounded Total Estimated Cost for Site Preparation w/ contingency \$8,642,000.00

405000 \$/cy **\$21.34**

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 04 (75% Qty)
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW
 O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 Rev Aug 06
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 Date: 18 August 2006

Alternative 4: Drain the Lake (Mechanical Removal)

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$53,585.00	\$53,585.00	25%	\$66,981.25
0002	Excavation / Trucking	261225	CY	\$9.52	\$2,486,862.00	25%	\$3,108,577.50
0003	Spreading	261225	CY	\$2.20	\$574,695.00	25%	\$718,368.75
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$277,750.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,250.00
	Wildwood	1	JB	\$326,800.00	\$326,800.00	25%	\$408,500.00
0005	Access Ramps						
	Mars	1	JB	\$24,900.00	\$24,900.00	25%	\$31,125.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$86,750.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$95,750.00
	Rose Barn	1	JB	\$25,500.00	\$25,500.00	25%	\$31,875.00
	The Point	1	JB	\$31,700.00	\$31,700.00	25%	\$39,625.00
0006	Stream Diversion	1	JB	\$622,500.00	\$622,500.00	24%	\$769,500.00
0007	Sediment Control	1	LS	\$20,925.00	\$20,925.00	25%	\$26,156.25
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	25%	\$222,000.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$176,000.00	\$176,000.00	25%	\$220,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	20%	\$5,724.00
	Coir Logs	7040	LF	\$40.00	\$281,600.00	20%	\$337,920.00
0010	Plantings						
	Shoreline	1	JB	\$45,940.00	\$45,940.00	25%	\$57,425.00
	Wildwood	1	JB	\$80,000.00	\$80,000.00	15%	\$92,000.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,375.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,250.00
0011	Traffic Control	1	JB	\$159,500.00	\$159,500.00	25%	\$199,400.00
Total Cost w/ Contingency							\$7,063,302.75

Rounded Total Estimated Cost for Site Preparation w/ contingency **\$7,063,000.00**
\$23.25

303750

\$/cy

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 04 (50% Qty)
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW
 O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 - Rev Aug 06
 Filename:
 Date: 18 August 2006

Alternative 4: Drain the Lake (Mechanical Removal)

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$25,312.00	\$25,312.00	25%	\$31,640.00
0002	Excavation / Trucking	174150	CY	\$9.72	\$1,692,738.00	25%	\$2,115,922.50
0003	Spreading	174150	CY	\$2.20	\$383,130.00	25%	\$478,912.50
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$277,750.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,250.00
	Wildwood	1	JB	\$326,800.00	\$326,800.00	25%	\$408,500.00
0005	Access Ramps						
	Mars	1	JB	\$24,900.00	\$24,900.00	25%	\$31,125.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$86,750.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$95,750.00
	Rose Barn	0	JB	\$25,500.00	\$0.00	25%	\$0.00
	The Point	0	JB	\$31,700.00	\$0.00	25%	\$0.00
0006	Stream Diversion	1	JB	\$506,500.00	\$506,500.00	23%	\$624,900.00
0007	Sediment Control	1	LS	\$17,095.00	\$17,095.00	25%	\$21,368.75
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	25%	\$222,000.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$176,000.00	\$176,000.00	25%	\$220,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	20%	\$5,724.00
	Coir Logs	7040	LF	\$40.00	\$281,600.00	20%	\$337,920.00
0010	Plantings						
	Shoreline	1	JB	\$45,940.00	\$45,940.00	25%	\$57,425.00
	Wildwood	1	JB	\$80,000.00	\$80,000.00	15%	\$92,000.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,375.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,250.00
0011	Traffic Control	1	JB	\$147,500.00	\$147,500.00	25%	\$184,400.00
Total Cost w/ Contingency							\$5,559,962.75

Rounded Total Estimated Cost for Site Preparation w/ contingency **\$5,560,000.00**
 202500 \$/cy **\$27.46**

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 04 (25% Qty)
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningCos
 t - Rev Aug 06

Filename:

Date: 18 August 2006

Alternative 4: Drain the Lake (Mechanical Remove)

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$25,740.00	\$25,740.00	25%	\$32,175.00
0002	Excavation / Trucking	87075	CY	\$8.39	\$730,559.25	25%	\$913,199.06
0003	Spreading	87075	CY	\$2.20	\$191,565.00	25%	\$239,456.25
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$277,750.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,250.00
	Wildwood	0	JB	\$326,800.00	\$0.00	25%	\$0.00
0005	Access Ramps						
	Mars	1	JB	\$24,900.00	\$24,900.00	25%	\$31,125.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$86,750.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$95,750.00
	Rose Barn	0	JB	\$25,500.00	\$0.00	25%	\$0.00
	The Point	0	JB	\$31,700.00	\$0.00	25%	\$0.00
0006	Stream Diversion	1	JB	\$389,500.00	\$389,500.00	23%	\$479,500.00
0007	Sediment Control	1	LS	\$12,433.00	\$12,433.00	25%	\$15,541.25
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	25%	\$222,000.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$176,000.00	\$176,000.00	25%	\$220,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	20%	\$5,724.00
	Coir Logs	7040	LF	\$40.00	\$281,600.00	20%	\$337,920.00
0010	Plantings						
	Shoreline	1	JB	\$45,940.00	\$45,940.00	25%	\$57,425.00
	Wildwood	0	JB	\$80,000.00	\$0.00	15%	\$0.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,375.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,250.00
0011	Traffic Control	1	JB	\$68,000.00	\$68,000.00	25%	\$85,000.00
					Total Cost w/ Contingency		\$3,367,190.56

Rounded Total Estimated Cost for Site Preparation w/ contingency

101250

\$/cy

\$3,367,000.00

\$33.25

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 05

LOCATION: Allegheny County, PA

COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW
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 Park/NPLScreeningCost -
 Rev Aug 06
 Filename:
 Date: 18 August 2006

Alternative 5: Mech Sediment Removal - No Lake Drainage

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$53,500.00	\$53,500.00	25%	\$66,875.00
0002	Excavation / Trucking	405000	CY	\$18.00	\$7,290,000.00	25%	\$9,112,500.00
0003	Spreading	405000	CY	\$2.20	\$891,000.00	25%	\$1,113,750.00
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$278,000.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,000.00
	Wildwood	1	JB	\$326,800.00	\$326,800.00	25%	\$409,000.00
0005	Access Ramps						
	Mars	1	JB	\$24,900.00	\$24,900.00	25%	\$31,000.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$87,000.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$96,000.00
	Rose Barn	1	JB	\$25,500.00	\$25,500.00	25%	\$32,000.00
	The Point	1	JB	\$31,700.00	\$31,700.00	25%	\$40,000.00
0006	Stream Diversion	0	JB	\$0.00	\$0.00	25%	\$0.00
0007	Sediment Control	0	LS	\$0.00	\$0.00	25%	\$0.00
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	15%	\$204,240.00
0009	Environmental Improvements						
	Aquatic Improvements (30% markup for in the wet)	1	LS	\$229,000.00	\$229,000.00	25%	\$286,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	25%	\$6,000.00
	Coir Logs (15% added to cost for working from shoreline)	7040	LF	\$46.00	\$323,840.00	25%	\$405,000.00
0010	Plantings						
	Shoreline (15% added to cost for working from shoreline)	1	JB	\$52,831.00	\$52,831.00	25%	\$66,000.00
	Wildwood	1	JB	\$80,000.00	\$80,000.00	15%	\$92,000.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,400.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,300.00
0012	Traffic Control	1	LS	\$159,500.00	\$159,500.00	25%	\$199,400.00
Total Cost w/ Contingency							\$12,792,465.00
Rounded Total Estimated Cost for Site Preparation w/ contingency							\$12,792,000.00
		405000				\$/cy	\$31.59

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Construction Cost Alternative 06

LOCATION: Allegheny County, PA

COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW

Filename: O:/EC/EC-EV/L/North
 Park/NPLScreeningCost -
 Rev Aug 06

Date: 18 August 2006

Alternative 06: Hydraulic Dredging

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$53,500.00	\$53,500.00	25%	\$66,875.00
0002	Hydraulic Dredging	405000	CY	\$2.70	\$1,093,500.00	20%	\$1,312,200.00
0003	Geotubes (90' Circumference)	67000	LF	\$43.00	\$2,881,000.00	15%	\$3,313,150.00
0004	Loading & Trucking Cost	275000	CY	\$8.00	\$2,200,000.00	25%	\$2,750,000.00
0005	Spreading	390000	CY	\$1.80	\$702,000.00	25%	\$877,500.00
0006	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$222,200.00	\$222,200.00	25%	\$278,000.00
	County Site	1	JB	\$86,600.00	\$86,600.00	25%	\$108,000.00
	Wildwood	1	JB	\$326,800.00	\$326,800.00	25%	\$409,000.00
0007	Access Ramps/Prep Areas						
	Mars	1	JB	\$124,600.00	\$124,600.00	25%	\$156,000.00
	Goldstar	1	JB	\$69,400.00	\$69,400.00	25%	\$87,000.00
	Pierce Mill	1	JB	\$76,600.00	\$76,600.00	25%	\$96,000.00
	Rose Barn	1	JB	\$25,500.00	\$25,500.00	25%	\$32,000.00
	The Point	1	JB	\$31,700.00	\$31,700.00	25%	\$40,000.00
0008	Sediment Control	1	LS	\$5,400.00	\$5,400.00	25%	\$6,750.00
0009	Wetland Protection Rock Berm						
0009a	Excavation	12000	CY	\$10.00	\$120,000.00	20%	\$144,000.00
0009b	Rock	3700	CY	\$48.00	\$177,600.00	20%	\$213,120.00
0010	Environmental Improvements						
	Aquatic Improvements (30% markup for in the wet)	1	LS	\$229,000.00	\$229,000.00	25%	\$286,000.00
	Osprey Nests	2	EA	\$2,385.00	\$4,770.00	25%	\$6,000.00
	Coir Logs (15% added to cost for working from shoreline)	7040	LF	\$46.00	\$323,840.00	25%	\$405,000.00
0011	Plantings						
	Shoreline (15% added to cost for working from shoreline)	1	LS	\$52,831.00	\$52,831.00	25%	\$66,000.00
	Wildwood	1	JB	\$80,000.00	\$80,000.00	15%	\$92,000.00
	Bull Pen	1	JB	\$7,500.00	\$7,500.00	25%	\$9,400.00
	County Site	1	JB	\$5,000.00	\$5,000.00	25%	\$6,300.00
0012	Traffic Control	1	LS	\$159,500.00	\$159,500.00	25%	\$199,400.00

Total Cost w/ Contingency \$10,959,695.00

Rounded Total Estimated Cost for Site Preparation w/ contingency

\$10,960,000.00

405000 \$/cy

\$27.06

**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

**Screening Level Backup
Sediment Placement Areas / Access Ramps**

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW
 O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 - Rev Aug 06
 Filename:
 Date: 18 August 2006

Wildwood Road Sediment Placement Site

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$10,135.00	\$10,135.00	25%	\$12,668.75
0002	Remove Topsoil / Stockpile / Replace	1	AC	\$2,970.00	\$2,970.00	25%	\$3,712.50
0003	Clearing	9	AC	\$2,625.00	\$23,625.00	25%	\$29,531.25
0004	Seeding Temp w/ Mulch	5	AC	\$2,725.00	\$13,625.00	25%	\$17,031.25
	Permanent	30	AC	\$3,275.00	\$98,250.00	25%	\$122,812.50
0005	Erosion Control Blanket	8	AC	\$5,530.00	\$44,240.00	25%	\$55,300.00
0006	Drainage Ditches (Total)	3800	LF				
0006A	Excavation	200	CY	\$21.35	\$4,270.00	25%	\$5,337.50
0006B	R-5 Rock	50	CY	\$74.50	\$3,725.00	25%	\$4,656.25
0006C	Erosion Control Mat	850	SY	\$8.50	\$7,225.00	25%	\$9,031.25
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence 18 IN	1000	LF	\$1.05	\$1,050.00	25%	\$1,312.50
	Super Silt Fence	1000	LF	\$1.20	\$1,200.00	25%	\$1,500.00
0009	Sediment Trap 18 Inch Inlet/Outlet	3	EA	\$600.00	\$1,800.00	25%	\$2,250.00
	R-5 Outlet	150	CY	\$50.40	\$7,560.00	25%	\$9,450.00
0010	Spoil	350000	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	100	LF	\$46.80	\$4,680.00	25%	\$5,850.00
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	75	CY	\$55.35	\$4,151.25	25%	\$5,189.06
	Structures						
	Picnic Shelter	0	EA		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 - Rev Aug 06

Date: 8/24/2006

Wildwood Road Sediment Placement Site

Stability Berm	100	CY	\$7.45	\$745.00	25%	\$931.25
Common Excavation	2,000	CY	\$8.35	\$16,700.00	25%	\$20,875.00
Total Disturbed Area	47.1	AC				
Access Roads						
Excavation	7,000.0	CY	\$8.40	\$58,800.00	25%	\$73,500.00
8" AASHTO #1	300.0	CY	\$44.15	\$13,245.00	25%	\$16,556.25
Geotextile	1,425.0	SY	\$2.50	\$3,562.50	25%	\$4,453.13
R-4 Rock	0	CY		\$0.00	25%	\$0.00

Totals \$326,803.75 \$408,504.69

Rounded Total Estimated Cost for Site Preparation \$326,800.00 \$409,000.00

Unit Cost \$/CY \$1.17
 Development Unit Cost \$/acre \$8,700

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

County Sediment Placement Site

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$6,760.00	\$6,760.00	25%	\$8,450.00
0002	Remove Topsoil / Stockpile / Replace	0	AC		\$0.00	25%	\$0.00
0003	Clearing	0	AC		\$0.00	25%	\$0.00
0004	Seeding						
	Temp w/ Mulch	3	AC	\$2,705.00	\$8,115.00	25%	\$10,143.75
	Permanent	6.5	AC	\$3,765.00	\$24,472.50	25%	\$30,590.63
0005	Erosion Control Blanket	6.5	AC	\$5,615.00	\$36,497.50	25%	\$45,621.88
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D	Grass Lined Ditch	0	SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence						
	18 IN	0	LF		\$0.00	25%	\$0.00
	Super Silt Fence	2385	LF	\$1.05	\$2,504.25	25%	\$3,130.31
0009	Sediment Trap	0					
	18 Inch Inlet/Outlet	0	EA		\$0.00	25%	\$0.00
	R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010	Spoil	45000	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	25%	\$0.00
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	0	CY		\$0.00	25%	\$0.00
	Structures						
	Picnic Shelter	0	EA		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Date: 8/24/2006

County Sediment Placement Site

Stability Berm	0	CY		\$0.00	25%	\$0.00
Total Disturbed Area	6.5	AC		\$0.00	25%	\$0.00
Access Roads						
Excavation	40.0	CY	\$13.30	\$532.00	25%	\$665.00
8" AASHTO #1	40.0	CY	\$48.50	\$1,940.00	25%	\$2,425.00
Geotextile	170.0	SY	\$3.20	\$544.00	25%	\$680.00
R-4 Rock	0	CY		\$0.00	25%	\$0.00

\$86,610.25 Total \$108,262.81

Rounded Total Estimated Cost for Site Preparation \$86,600.00 \$108,000.00

Unit Cost \$/CY \$2.40
 Development Unit Cost \$/acre \$16,600

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Page 1 of 2
 Estimated By: CRC
 Checked By: RPW
 O:/EC/EC-EV/L/North
 Park/NPLScreeningCost
 - Rev Aug 06
 Filename:
 Date: 18 August 2006

Bull Pen (Sediment Placement Site)

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001 Mob and Demobilization	1	JOB	\$10,136.00	\$10,136.00	25%	\$12,670.00
0002 Remove Topsoil / Stockpile / Replace	2	AC	\$6,520.00	\$13,040.00	25%	\$16,300.00
0003 Clearing	0	AC		\$0.00	25%	\$0.00
0004 Seeding Temp w/ Mulch	1	AC	\$2,756.00	\$2,756.00	25%	\$3,445.00
Permanent	6.5	AC	\$3,765.00	\$24,472.50	25%	\$30,590.63
0005 Erosion Control Blanket	6	AC	\$5,530.00	\$33,180.00	25%	\$41,475.00
0006 Drainage Ditches (Total)	1350	LF				
0006A Excavation	800	CY	\$19.85	\$15,880.00	25%	\$19,850.00
0006B R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C Erosion Control Mat	4000	SY	\$7.95	\$31,800.00	25%	\$39,750.00
0006D Grass Lined Ditch		SY		\$0.00	25%	\$0.00
Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007 Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008 Silt Barrier Fence 18 IN	1400	LF	\$1.00	\$1,400.00	25%	\$1,750.00
Super Silt Fence	0	LF		\$0.00	25%	\$0.00
0009 Sediment Trap 18 Inch Inlet/Outlet	1	EA	\$600.00	\$600.00	25%	\$750.00
R-5 Outlet	500	CY	\$49.10	\$24,550.00	25%	\$30,687.50
0010 Spoil	75000	CY		\$0.00	25%	\$0.00
0011 Culverts						
0011A 18 Inch	0	LF		\$0.00	25%	\$0.00
0011B 24 Inch	210	LF	\$51.60	\$10,836.00	25%	\$13,545.00
0011C Drop Inlet	0	EA		\$0.00	25%	\$0.00
Rock Fill						
R-4	0	CY		\$0.00	25%	\$0.00
R-5	0	CY		\$0.00	25%	\$0.00
Structures						
Picnic Shelter	0	EA		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,

LOCATION:	Sec 206, Aquatic Ecosystem Restoration	Estimated By:	CRC
	Site Preparation	Checked By:	RPW
	Allegheny County, PA	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - Rev Aug 06
	COST LEVEL: October 2004	Date:	8/24/2006

Bull Pen (Sediment Placement Site)

Stability Berm	0	CY		\$0.00	25%	\$0.00
Total Disturbed Area	6.5	AC		\$0.00	25%	\$0.00
Access Roads						
Excavation	3,500.0	CY	\$8.40	\$29,400.00	25%	\$36,750.00
8" AASHTO #1	300.0	CY	\$44.15	\$13,245.00	25%	\$16,556.25
Geotextile	1,350.0	SY	\$2.30	\$3,105.00	25%	\$3,881.25
R-4 Rock	50	CY	\$51.35	\$2,567.50	25%	\$3,209.38

\$222,213.00	Total	\$277,766.25
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Rounded Total Estimated Cost for Site Preparation	\$222,200.00	\$278,000.00
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Unit Cost	\$/CY	\$3.71
Development Unit Cost	\$/acre	\$42,800

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

Mars

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$2,750.00	\$2,750.00	25%	\$3,437.50
0002	Remove Topsoil / Stockpile / Replace	1.75	AC	\$3,300.00	\$5,775.00	25%	\$7,218.75
0003	Clearing	0	AC		\$0.00	25%	\$0.00
0004	Seeding						
	Temp w/ Mulch	1	AC	\$1,650.00	\$1,650.00	25%	\$2,062.50
	Permanent	2	AC	\$2,750.00	\$5,500.00	25%	\$6,875.00
0005	Erosion Control Blanket	2	AC	\$2,750.00	\$5,500.00	25%	\$6,875.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY	\$11.00	\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY	\$90.00	\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY	\$4.40	\$0.00	25%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC	4100	SY	\$11.00	\$45,100.00	25%	\$56,375.00
0007	Rock Construction Entrance	1	EA	\$2,750.00	\$2,750.00	25%	\$3,437.50
0008	Silt Barrier Fence						
	18 IN	0	LF	\$3.30	\$0.00	25%	\$0.00
	Super Silt Fence	650	LF	\$4.40	\$2,860.00	25%	\$3,575.00
	Safety Fence	550	LF	\$4.40	\$2,420.00	25%	\$3,025.00
0009	Sediment Pond	0					
	18 IN	0			\$0.00	25%	\$0.00
	R-5 Outlet	0	CY	\$90.00	\$0.00	25%	\$0.00
0010	Spoil	0	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	25	LF	\$22.00	\$550.00	25%	\$687.50
0011B	24 Inch	0	LF	\$33.00	\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA	\$0.00	\$0.00	25%	\$0.00
	Rock Fill						
	R-4	100	CY	\$83.00	\$8,300.00	25%	\$10,375.00
	R-5	0	CY	\$90.00	\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Date: 8/24/2006

Mars

Structures							
Picnic Shelter	1	ea	\$27,500.00	\$27,500.00	25%	\$34,375.00	
Stability Berm	400	CY	\$11.00	\$4,400.00	25%	\$5,500.00	
Total Disturbed Area	2.0	AC		\$0.00	25%	\$0.00	
Access Roads							
Excavation	110.0	CY	\$11.00	\$1,210.00	25%	\$1,512.50	
8" AASHTO #1	110.0	CY	\$33.00	\$3,630.00	25%	\$4,537.50	
Geotextile	500.0	SY	\$3.90	\$1,950.00	25%	\$2,437.50	
R-4 Rock	50	CY	\$55.00	\$2,750.00	25%	\$3,437.50	
				\$124,595.00		\$155,743.75	
Rounded Total Estimated Cost for Site Preparation				\$124,600.00		\$156,000.00	

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

Rose Barn Access Site

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	25%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,455.00	\$2,727.50	25%	\$3,409.38
0003	Clearing	0	AC		\$0.00	25%	\$0.00
0004	Seeding Temp w/ Mulch	0	AC		\$0.00	25%	\$0.00
	Permanent	0.5	AC	\$4,175.00	\$2,087.50	25%	\$2,609.38
0005	Erosion Control Blanket	0.5	AC	\$5,755.00	\$2,877.50	25%	\$3,596.88
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence 18 IN	200	LF	\$0.95	\$190.00	25%	\$237.50
	Super Silt Fence	50	LF	\$1.60	\$80.00	25%	\$100.00
	Safety Fence	250	LF	\$3.50	\$875.00	25%	\$1,093.75
0009	Sediment Pond 18 IN	0	LF		\$0.00	25%	\$0.00
	R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010	Spoil	0	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	25%	\$0.00
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill					25%	\$0.00
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	0	CY		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
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Rose Barn Access Site

Structures						
Picnic Shelter	0	ea		\$0.00	25%	\$0.00
Stability Berm	0	CY		\$0.00	25%	\$0.00
Common Excavation	125	CY	\$16.70	\$2,087.50	25%	\$2,609.38
Total Disturbed Area	0.5	AC				
Access Roads						
Excavation	185.0	CY	\$13.45	\$2,488.25	25%	\$3,110.31
8" AASHTO #1	125.0	CY	\$42.50	\$5,312.50	25%	\$6,640.63
Geotextile	550.0	SY	\$2.70	\$1,485.00	25%	\$1,856.25
R-4 Rock	0	CY		\$0.00	25%	\$0.00
				\$25,455.75		\$31,819.69
Rounded Total Estimated Cost for Site Preparation				\$25,500.00		\$32,000.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

Pearce Mill Road Access Site

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001 Mob and Demobilization	1	JOB	\$0.00	\$0.00	25%	\$0.00
0002 Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,455.00	\$2,727.50	25%	\$3,409.38
0003 Clearing	0	AC		\$0.00	25%	\$0.00
0004 Seeding Temp w/ Mulch	0	AC		\$0.00	25%	\$0.00
Permanent	0.5	AC	\$4,175.00	\$2,087.50	25%	\$2,609.38
0005 Erosion Control Blanket	0.5	AC	\$5,755.00	\$2,877.50	25%	\$3,596.88
0006 Drainage Ditches (Total)	0	LF				
0006A Excavation	0	CY		\$0.00	25%	\$0.00
0006B R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D Grass Lined Ditch		SY		\$0.00	25%	\$0.00
Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007 Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008 Silt Barrier Fence 18 IN	100	LF	\$1.45	\$145.00	25%	\$181.25
Super Silt Fence	50	LF	\$1.60	\$80.00	25%	\$100.00
Safety Fence	100	LF	\$3.45	\$345.00	25%	\$431.25
0009 Sediment Pond 18 IN	0	LF		\$0.00	25%	\$0.00
R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010 Spoil	0	CY		\$0.00	25%	\$0.00
0011 Culverts						
0011A 18 Inch	0	LF		\$0.00	25%	\$0.00
0011B 24 Inch	0	LF		\$0.00	25%	\$0.00
0011C Drop Inlet	0	EA		\$0.00	25%	\$0.00
Rock Fill						
R-4	0	CY		\$0.00	25%	\$0.00
R-5	0	CY		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

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 Estimated By: CRC
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Pearce Mill Road Access Site

Structures						
Picnic Shelter	0	ea		\$0.00	25%	\$0.00
Stability Berm	0	CY		\$0.00	25%	\$0.00
Common Excavation	0	CY		\$0.00	25%	\$0.00
Total Disturbed Area	0.5	AC				
Access Roads						
Excavation	250.0	CY	\$9.95	\$2,487.50	25%	\$3,109.38
8" AASHTO #1	110.0	CY	\$45.50	\$5,005.00	25%	\$6,256.25
Geotextile	0.0	SY		\$0.00	25%	\$0.00
R-4 Rock (Includes removal cost)	1,400	CY	\$39.70	\$55,580.00	25%	\$69,475.00
				\$76,580.00		\$95,725.00
Rounded Total Estimated Cost for Site Preparation				\$76,600.00		\$96,000.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

Goldstar Access

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	25%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.3	AC	\$7,740.00	\$2,322.00	25%	\$2,902.50
0003	Clearing	0	AC		\$0.00	25%	\$0.00
0004	Seeding Temp w/ Mulch	0.3	AC	\$3,390.00	\$1,017.00	25%	\$1,271.25
	Permanent	0.3	AC	\$4,475.00	\$1,342.50	25%	\$1,678.13
0005	Erosion Control Blanket	0.3	AC	\$7,345.00	\$2,203.50	25%	\$2,754.38
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence 18 IN	0	LF		\$0.00	25%	\$0.00
	Super Silt Fence	225	LF	\$1.50	\$337.50	25%	\$421.88
0009	Sediment Pond 18 IN	0	LF		\$0.00	25%	\$0.00
	R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010	Spoil	0	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	25	LF	\$55.85	\$1,396.25	25%	\$1,745.31
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill					25%	\$0.00
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	0	CY		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 8/24/2006

Goldstar Access

Structures							
Picnic Shelter	1	ea	\$30,250.00	\$30,250.00	25%	\$37,812.50	
Stability Berm	0	CY		\$0.00	25%	\$0.00	
Total Disturbed Area	0.5	AC		\$0.00	25%	\$0.00	
Access Roads							
Excavation	250.0	CY	\$9.95	\$2,487.50	25%	\$3,109.38	
8" AASHTO #1	250.0	CY	\$42.50	\$10,625.00	25%	\$13,281.25	
Geotextile	1,100.0	SY	\$2.50	\$2,750.00	25%	\$3,437.50	
R-4 Rock	200	CY	\$47.30	\$9,460.00	25%	\$11,825.00	
				\$69,436.25		\$86,795.31	
Rounded Total Estimated Cost for Site Preparation				\$69,400.00		\$87,000.00	

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
 Park/NPLScreeningC
 ost - Rev Aug 06

Filename:

Date: 18 August 2006

Mars Access Ramp Only

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	25%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$6,495.00	\$3,247.50	25%	\$4,059.38
0003	Clearing	0.5	AC	\$1,860.00	\$930.00	25%	\$1,162.50
0004	Seeding						
	Temp w/ Mulch	0	AC		\$0.00	25%	\$0.00
	Permanent	0.5	AC	\$4,175.00	\$2,087.50	25%	\$2,609.38
0005	Erosion Control Blanket	0.5	AC	\$5,755.00	\$2,877.50	25%	\$3,596.88
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence						
	18 IN	100	LF	\$1.45	\$145.00	25%	\$181.25
	Super Silt Fence	50	LF	\$1.60	\$80.00	25%	\$100.00
	Safety Fence	100	LF	\$3.60	\$360.00	25%	\$450.00
0009	Sediment Pond	0					
	18 IN	0			\$0.00	25%	\$0.00
	R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010	Spoil	0	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	25%	\$0.00
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	0	CY		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

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Mars Access Ramp Only

Structures						
Picnic Shelter	0	ea		\$0.00	25%	\$0.00
Stability Berm	0	CY		\$0.00	25%	\$0.00
Total Disturbed Area	0.5	AC		\$0.00	25%	\$0.00
Access Roads						
Excavation	110.0	CY	\$9.55	\$1,050.50	25%	\$1,313.13
8" AASHTO #1	110.0	CY	\$45.50	\$5,005.00	25%	\$6,256.25
Geotextile	500.0	SY	\$2.65	\$1,325.00	25%	\$1,656.25
R-4 Rock	50	CY	\$51.40	\$2,570.00	25%	\$3,212.50
				\$24,923.00		\$31,153.75
Rounded Total Estimated Cost for Site Preparation				\$24,900.00		\$31,000.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

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Point Access Ramp Only

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	25%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,455.00	\$2,727.50	25%	\$3,409.38
0003	Clearing	0	AC		\$0.00	25%	\$0.00
0004	Seeding Temp w/ Mulch	0	AC		\$0.00	25%	\$0.00
	Permanent	0.5	AC	\$4,175.00	\$2,087.50	25%	\$2,609.38
0005	Erosion Control Blanket	0.5	AC	\$5,755.00	\$2,877.50	25%	\$3,596.88
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	25%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	25%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	25%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	25%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	25%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,245.00	\$5,245.00	25%	\$6,556.25
0008	Silt Barrier Fence 18 IN	100	LF	\$1.45	\$145.00	25%	\$181.25
	Super Silt Fence	50	LF	\$1.60	\$80.00	25%	\$100.00
	Safety Fence	100	LF	\$1.40	\$140.00	25%	\$175.00
0009	Sediment Pond 18 IN	0			\$0.00	25%	\$0.00
	R-5 Outlet	0	CY		\$0.00	25%	\$0.00
0010	Spoil	0	CY		\$0.00	25%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	25%	\$0.00
0011B	24 Inch	0	LF		\$0.00	25%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	25%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	25%	\$0.00
	R-5	0	CY		\$0.00	25%	\$0.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Site Preparation - Transfer/Disposal Areas
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

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Point Access Ramp Only

Structures						
Picnic Shelter	0	ea		\$0.00	25%	\$0.00
Stability Berm	0	CY		\$0.00	25%	\$0.00
Total Disturbed Area	0.5	AC		\$0.00	25%	\$0.00
Access Roads						
Excavation	165.0	CY	\$15.10	\$2,491.50	25%	\$3,114.38
8" AASHTO #1	165.0	CY	\$45.35	\$7,482.75	25%	\$9,353.44
Geotextile	750.0	SY	\$2.00	\$1,500.00	25%	\$1,875.00
R-4 Rock	150	CY	\$46.00	\$6,900.00	25%	\$8,625.00
				\$31,676.75		\$39,595.94
Rounded Total Estimated Cost for Site Preparation				\$31,700.00		\$40,000.00

**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

**Screening Level Backup
Miscellaneous**

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Environmental Improvements
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

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Acquatic Habitat / Osprey Nests / Coir Logs

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001 Procupine Cribs	160	ea	\$125.00	\$20,000.00	25%	\$25,000.00
0002 Procupine Cribs Junior	560	ea	\$110.00	\$61,600.00	25%	\$77,000.00
0003 Rock Piles	180	TN	\$55.90	\$10,062.00	25%	\$12,577.50
0004 Rock Humps	1860	TN	\$38.85	\$72,261.00	25%	\$90,326.25
0005 Gravel Placements	316	TN	\$39.60	\$12,513.60	25%	\$15,642.00
Aquatic Habitat Totals (Rounded)				\$176,000.00		\$221,000.00
0006 Osprey Nests	2	ea	\$2,385.00	\$4,770.00	25%	\$6,000.00
0007 Coir Logs						
Coir Logs (Mat'l Cost)	7040	LF	\$37.00	\$260,480.00	25%	\$326,000.00
Installation	7040	LF	\$0.70	\$4,928.00	25%	\$6,000.00
Excavation	7040	LF	\$2.00	\$14,080.00	25%	\$18,000.00
Stakes/Misc	7040	LF	\$0.30	\$2,112.00	25%	\$3,000.00
Safety Fence	3000	LF			25%	
			\$40.00	\$281,600.00		\$353,000.00
		Rounded U/P	\$40.00			

Rounded Total Estimated Cost for Environmental Improvements \$462,000.00 \$580,000.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Plantings
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

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Plantings

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
<i>Shoreline Plantings</i>						
<i>Riparian Buffers</i>						
Shoreline Shrubs	0.33	AC	\$9,000.00	\$2,970.00	25%	\$3,700.00
Herbaceous Plants	0.5	AC	\$6,000.00	\$3,000.00	25%	\$3,800.00
Wetland Native Seed Mix	0.56	AC	\$2,000.00	\$1,120.00	25%	\$1,400.00
Bottomland Hardwood Trees	0.33	AC	\$5,000.00	\$1,650.00	25%	\$2,100.00
<i>Emergent Shoreline Wetlands</i>						
Wetland Grasses, Sedges &	0.5	AC	\$8,000.00	\$4,000.00	25%	\$5,000.00
Wetland Herbaceous Plants	0.5	AC	\$12,000.00	\$6,000.00	25%	\$7,500.00
Plant Placement Cost	2.72	AC	\$10,000.00	\$27,200.00	25%	\$34,000.00
Total				\$45,940.00		\$57,500.00

Wildwood Plantings

	Matl	Lab	Equip	Subtotal
Bare Root Seedlings	\$5,000.00	\$2,000.00	\$0.00	\$7,000.00
Seeding Mixture A	\$600.00			\$600.00
Seeding Mixture B	\$12,000.00			\$12,000.00
Mulch/Fertilizer	\$15,000.00	\$15,000.00	\$12,000.00	\$42,000.00
			Subtotal	\$61,600.00
			Markup	30.00%
			Total	\$80,080.00

Bull Pen Planting	1	LS	\$7,500.00	\$7,500.00	25%	\$9,400.00
County Site Plantings	1	LS	\$5,000.00	\$5,000.00	25%	\$6,300.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Stream Diversion
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

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Date: 18 August 2006

Stream Diversion

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
Temp Channel (applies to all levels - 100%, 75%, 50%, and 25%)						
Initial Excavation (no disp)	8000	CY	\$6.00	\$48,000.00	25%	\$60,000.00
Lining	16000	SY	\$3.50	\$56,000.00	25%	\$70,000.00
Additional Excavation (disposed)	8000	CY	\$8.00	\$64,000.00	25%	\$80,000.00
Rock Crossing	6	ea	\$5,000.00	\$30,000.00	25%	\$37,500.00
Misc	1	LS	\$25,000.00	\$25,000.00	0%	\$25,000.00
				\$223,000.00		
				Temp Channel Total		\$272,500.00

100% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	12	Mo	\$25,000.00	\$300,000.00	25%	\$375,000.00
Pipe Rental (18" HTPE)	10000	LF	\$2.50	\$25,000.00	25%	\$31,300.00
Fuse Joints	10000	LF	\$2.25	\$22,500.00	25%	\$28,100.00
Operating Cost (24 hrs/day)	12	Mo	\$13,000.00	\$156,000.00	25%	\$195,000.00
Misc Cost	1	LS	\$12,000.00	\$12,000.00	0%	\$12,000.00
				\$515,500.00		
				Pumping Total		\$641,400.00

75% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	9	Mo	\$25,000.00	\$225,000.00	25%	\$281,300.00
Pipe Rental (18" HTPE)	10000	LF	\$2.50	\$25,000.00	25%	\$31,300.00
Fuse Joints	10000	LF	\$2.25	\$22,500.00	25%	\$28,100.00
Operating Cost (24 hrs/day)	9	Mo	\$13,000.00	\$117,000.00	25%	\$146,300.00
Misc Cost	1	LS	\$10,000.00	\$10,000.00	0%	\$10,000.00
				\$399,500.00		
				Pumping Total		\$497,000.00

50% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	6	Mo	\$25,000.00	\$150,000.00	25%	\$187,500.00
Pipe Rental (18" HTPE)	10000	LF	\$2.50	\$25,000.00	25%	\$31,300.00
Fuse Joints	10000	LF	\$2.25	\$22,500.00	25%	\$28,100.00
Operating Cost (24 hrs/day)	6	Mo	\$13,000.00	\$78,000.00	25%	\$97,500.00
Misc Cost	1	LS	\$8,000.00	\$8,000.00	0%	\$8,000.00
				\$283,500.00		
				Pumping Total		\$352,400.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Stream Diversion	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	October 2004	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCo st - Rev Aug 06	
Stream Diversion		Date:	18 August 2006	

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Stream Diversion	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	October 2004	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCo st - Rev Aug 06	
Stream Diversion		Date:	8/24/2006	

25% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	3	Mo	\$25,000.00	\$75,000.00	25%	\$93,800.00
Pipe Rental (18" HTPPE)	10000	LF	\$2.50	\$25,000.00	25%	\$31,300.00
Fuse Joints	10000	LF	\$2.25	\$22,500.00	25%	\$28,100.00
Operating Cost (24 hrs/day)	3	Mo	\$13,000.00	\$39,000.00	25%	\$48,800.00
Misc Cost	1	LS	\$5,000.00	\$5,000.00	0%	\$5,000.00
				\$166,500.00		
					Pumping Total	\$207,000.00

	<u>Removal</u>		
Rounded Total Estimated Cost for Stream Diversion	100%	\$738,500.00	\$913,900.00
	75%	\$622,500.00	\$769,500.00
	50%	\$506,500.00	\$624,900.00
	25%	\$389,500.00	\$479,500.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Traffic Control
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC

Checked By: RPW

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Traffic Control

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>	
Jersey Barriers	50 - 100%	5000	LF	\$12.50	\$62,500.00	25%	\$78,100.00
	25%	1000	LF	\$12.50	\$12,500.00	25%	\$15,600.00
Temp Signage	50 - 100%	1	LS	\$6,000.00	\$6,000.00	25%	\$7,500.00
	25%	1	LS	\$2,500.00	\$2,500.00	25%	\$3,100.00
Road Surv/Rprs	50 - 100%	1	LS	\$25,000.00	\$25,000.00	25%	\$31,300.00
	25%	1	LS	\$10,000.00	\$10,000.00	25%	\$12,500.00
Misc Additional Controls (100%)		1	LS	\$66,000.00	\$66,000.00	25%	\$82,500.00
	75%	1	LS	\$66,000.00	\$66,000.00	25%	\$82,500.00
	50%	1	LS	\$54,000.00	\$54,000.00	25%	\$67,500.00
	25%	1	LS	\$43,000.00	\$43,000.00	25%	\$53,800.00
Totals		100%			\$159,500.00		\$199,400.00
		75%			\$159,500.00		\$199,400.00
		50%			\$147,500.00		\$184,400.00
		25%			\$68,000.00		\$85,000.00

PROJECT: North Park Lake & Pine Creek,
 Sec 206, Aquatic Ecosystem Restoration
 Spreading Fill
LOCATION: Allegheny County, PA
COST LEVEL: October 2004

Estimated By: CRC
 Checked By: RPW

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Spreading Fill at Sediment Placement Areas

Spreading at fill site (with hydraulic dredging and geotubes)

	\$/hr	qty	Total \$/hr
Dozer (D-6 or >)	\$96.00	2	\$192.00
Small Tools	\$2.25	2	\$4.50
Foreman	\$46.00	1	\$46.00
Oiler	\$39.00	1	\$39.00
Operator (Heavy)	\$46.00	2	\$92.00
Laborer/Spotter	\$39.00	1	\$39.00
			\$412.50
Production Rate	300.00	cy/hr	\$1.38 /cy
		Markup	30%
		Total	\$1.79 /cy
		Rounded	\$1.80 /cy

Spreading at fill site (with Mechanical Excavation)

(14% shrinkage)	\$/hr	qty	Total \$/hr
Dozer (D-6 or >)	\$96.00	2	\$192.00
Small Tools	\$2.25	2	\$4.50
Foreman	\$46.00	1	\$46.00
Oiler	\$39.00	1	\$39.00
Operator (Heavy)	\$46.00	2	\$92.00
Laborer/Spotter	\$39.00	1	\$39.00
			\$412.50
Production Rate	245.00	cy/hr	\$1.68 /cy
		Markup	30%
		Total	\$2.19 /cy
		Rounded	\$2.20 /cy