

Item	Purpose	Description	Quantity	Source	Unit price	Total
Plexiglas	Tank construction material	Acrylic cast 0.75" x 24" x 96"	5 sheets	Laird Plastics Keystone Industrial Park Bristol, PA 19007 Ph: 215-785-1114		\$740.00
Acrylic cement	Bonding edges of plexiglas	Weld-On 3, 1 gallon	1 ea	Arch Street Plastics 1214 Arch Street Philadelphia PA 19107 Ph: 215-636-0890		\$36.25
Machine screws	To hold plexiglas plates together	1/4 in x 3 in machine screws; nuts; washers stainless steel	96 ea	Home Depot		\$71.10
Neoprene	Sealing gasket for tank edges	SCE41B Closed cell foam rubber, 1/4 in thick, 42 in x 50 ft roll	1 roll	Rubberlite, Inc. P.O. Box 2965 Huntington, WV 25728 Ph: 304-525-3116		\$108.13
Septa material	Septa material for sealing of sampling ports	Sheet Stock Rubber Gray 12" x 12" 3 mm thick Part no. 20420-U ( 8 mm-diameter septa were punched from this at Drexel)	1 ea	Sigma-Aldrich Supelco, Inc. Supelco Park Bellefonte, PA 16823-0048 Ph: 800-247-6628 814-359-3044		
Set screws	Sampling port construction	3/8"-16 x 5/16" cup point socket set screws Cat.no. 67267328	300 nos	MSC Industrial Supply Co. 100 MSC Drive Jonestown, PA 17038 Ph: 800-645-7270		
Drill bushing	drilling sampling ports	5/16" x 1/2" x 1" W/C bore H bushing Cat.no. 07220866	1 no	-do-		
		5/16" x 1/2" x 1-3/8" W/C bore H bushing Cat.no. 07220882	1 no			
Screens	Screens in tank	Perforated 304 stainless steel sheet 36" x 40", 0.25" hole dia, 58% open area, 20 gage Part no. 9358T161	1 no	McMaster-Carr Supply Co. P.O.Box 440 New Brunswick NJ 08903-0440 Ph: 732-329-3200		
		Type 304 Stainless steel woven wire cloth 40x40 mesh, 0.0135" wire dia, 12"x24" sheet Part no. 85385T961	1 no			
Bulkhead fitting	Inlet water supply	PVC, female NPT, 1/2" pipe size Part no. 36895K121	2 nos	-do-		
Pipe nipple	Inlet water supply	CPVC schedule 80 threaded pipe nipple Fully threaded, 1/2" pipe size, 1-1/8" length Part no. 6810K12	2 nos	-do-		
		CPVC schedule 80 threaded pipe nipple Threaded ends, 1/2" pipe size, 1-1/2" length Part no. 6810K22	2 nos			
Steel brace	Constant head reservoir	Steel corner brace, galvanized 5" length of sides, 1" width		-do-		

		Part no. 1556A47				
Shelf bracket	Constant head reservoir	22 gauge steel rigid shelf bracket 11-1/4" wall leg, 9-1/4" shelf leg Part no. 1735A18		-do-		
Trailer Winch	Cranking up and down const.head reservoir	Trailer winch-600 lb Part no. 382087	3 nos	E & B Discount Marine 1300 S. Columbus Blvd. Philadelphia, PA 19147 Ph: 215-462-0900		
Cable wire & misc.	Constant head reservoir	Wire-SS 3/16" 7x19 Part no. 119206	30 feet	-do-		
		Sleeve-3/16" Part no.115055	6 nos			
		Sheave 2-7/8" x 27/32 Part no. 545210	3 nos			
		Stop-3/16 Part no. 494302	6 nos			
Plexi glass tubes	Constant head reservoir	4" dia plexi glass tube	2 feet	Arch Street Plastics 1214 Arch Street Philadelphia PA 19107 Ph: 215-636-0890		
		6" dia plexi glass tube	2 feet			
		8" dia plexi glass tube	2 feet			
Trolley track	Track for constant head reservoir	10' trolley track Part no. NAT 105-213	2 nos	C.L. Presser Company 4224 Market Street Philadelphia PA 19104 Ph: 215-222-1800 800-344-7333	\$32.50	
Plexi glass strip	Track for screens	1/4"x1/4" plexi glass strip	8 feet	-do-		
Pipe adapters	Piping in constant head reservoir	Adapter 3/8" x 3/8" (A-294) Part no. 048643071315	12 nos	The Home Depot 1601 S.C. Columbus Blvd. Philadelphia PA 19148 Ph:	\$1.30	
Pipe Elbows	d/s end connections in tank	Elbow 3/8"x1/2" (A-296) Part no. 048643064751	8 nos			
Vinyl tubing	Flexible tubing in water supply	Clear vinyl tubing 1/2"Od, 3/8"ID (Part no 048643425637)	1 roll (100')	-do-	\$12.00	\$12.00
Shut valve	Inlet water supply	PVC thread ball valve 1/2" Part no. 050143091304	3 nos	-do-	\$7.97	
PVC pipe & fittings	Diffuser in u/s	1/2" PVC pipe	10 feet	-do-	\$1.49 (10')	\$1.49
		1-1/4" PVC pipe	10 feet		\$2.94 (10')	\$2.94
		PVC pipe cap 1-1/4" (Part no. 039923136848)	8 nos		\$0.51	
		PVC pipe cap 1-1/4" (Part no. 039923137227)	4 nos		\$0.92	
Misc fittings	Water supply	PVC 1/2" M. Adapter (Part no. 039923131669)	3 nos	-do-	\$0.19	
		PVC 1-1/4" M. Adapter (Part no. 039923131843)	4 nos		\$0.69	
		PVC 1/2" riser (Part no. 039923132666)	4 nos		\$0.38	
		1/2" tee (Part no. 039923147424)	1 no		\$0.39	
		1/2" Steel (hose) clamps (Part no.078575126029)	15 nos		\$0.39	
		1/2" PVC slip (Part no. 039923136787)	4 nos		\$0.19	
		Fasteners (Part no. 030699319015)	4 nos		\$0.79	
		PVC cement, cleaner, Pipe tape, buck blade	-		-	\$8.59
Clamps	-	Pony clamps (Part no. 091162006030)	7 nos	-do-	\$11.98	
Work mate	Work bench	Workmate (Part no. 028873792259)	1 no	-do-	\$49.00	
First aid kit	-	Part no. 641817000373	1 no	-do-	\$19.86	

Shelf	-	Part no. 035441187003	2 nos	-do-	\$59.99	
Tygon tubing	Permeameter setup	Tygon Laboratory PVC tubing 5/16" ID x 7/16" OD x 1/16" wall Part no. 5554K15	20 feet	McMaster-Carr Supply Co. P.O.Box 440 New Brunswick NJ 08903-0440 Ph: 732-329-3200		
		Tygon Laboratory PVC tubing 1/4" ID x 3/8" OD x 1/16" wall Part no. 5554K136	20 feet			
Sodium Chloride	Solute in experiment	50 lbs NaCl Part no. 3190K857	5 bags	-do-		