



TCH
CONSULTING
GROUP, INC.

Sample Estimate Reports



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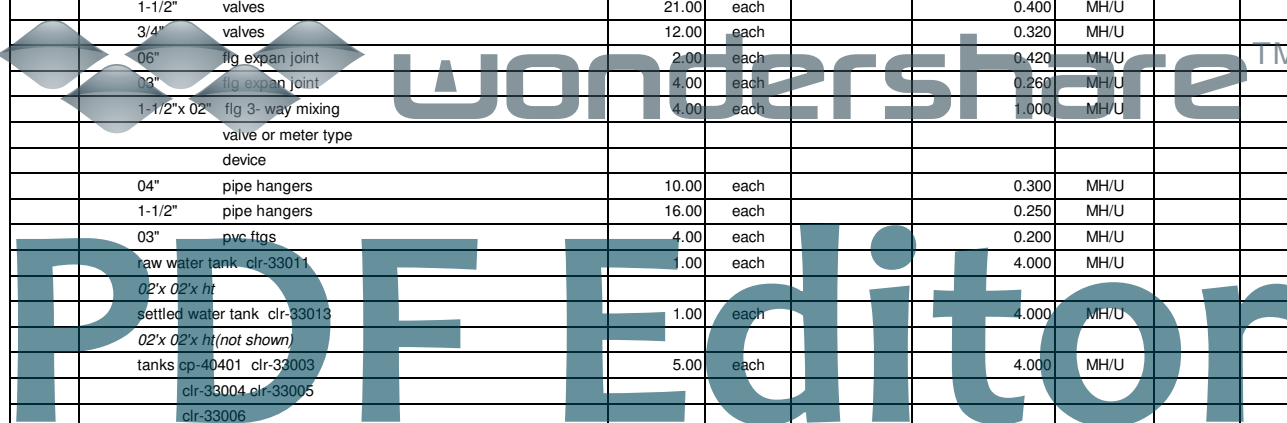
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BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major/Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT
		MECHANICAL ESTIMATE	1.00	LSUM																		
1		GENERAL REQUIREMENTS	1.00	LSUM																		
		TEMPORARY FACILITIES																				
		dust walls				16.000	MH/U			344.00												
		visqueen	1.00	job	250.00	4.000	MH/U			86.00				267.50	4.000	115.67				383.17	459.80	459.80
		EQUIPMENT																				
		personal protection equipment	1.00	job							250.00						267.50			267.50	321.00	321.00
		blowers - exhaust fans	2.00	each							350.00						749.00			749.00	449.40	898.80
		saws, cords and blades	1.00	job							500.00						535.00			535.00	642.00	642.00
		SUPPLIES																				
		cleaning supplies	1.00	job	100.00									107.00						107.00	128.40	128.40
		clean-up labor	1.00	job		16.000	MH/U			344.00	160.00				16.000	462.68	171.20			633.88	760.66	760.66
2		TEMPORARY FILTRATION/STORAGE SYSTEM	1.00	LSUM																		
		TEMPORARY FILTRATION SYSTEM																				
		delivery		TBD																		
		set-up and assembly																				
		system rental																				
		dis-assembly																				
		return freight																				
		TEMPORARY UTILITIES																				
		water		TBD																		
		sanitary																				
		SUPERVISION AND LABOR																				
		plant supervision		TBD																		
		operational labor																				
		TESTING																				
		testing																				
3		DEMOLITION	1.00	LSUM																		
		PHASE A CHLORINATOR ROOM																				
		DWG D- 200- 00 & D- 200- 01																				
		SYS: CG & CS																				
		PIPE VALVES AND FITTINGS: PVC (DEMO)																				
		06" pvc pipe	40.00	Inft	6.00	0.450	MH/U			9.68				256.80	18.000	520.52				777.32	23.32	932.78
		04" pvc pipe	80.00	Inft	3.50	0.250	MH/U			5.38				299.60	20.000	578.35				877.95	13.17	1,053.54
		02" pvc pipe	20.00	Inft	1.50	0.120	MH/U			2.58				32.10	2.400	69.40				101.50	6.09	121.80
		1-1/2" pvc pipe	380.00	Inft	1.00	0.100	MH/U			2.15				406.60	38.000	1,098.86				1,505.46	4.75	1,806.55
		3/4" pvc pipe	80.00	Inft	0.75	0.120	MH/U			2.58				64.20	9.600	277.61				341.81	5.13	410.17
		06" pvc ftgs	6.00	each		0.350	MH/U			7.53					2.100	60.73				60.73	12.15	72.88
		04" pvc ftgs	4.00	each		0.220	MH/U			4.73					0.880	25.45				25.45	7.64	30.54
		02" pvc ftgs	8.00	each	1.50	0.150	MH/U			3.23				12.84	1.200	34.70				47.54	7.13	57.05
		1-1/2" pvc ftgs	58.00	each	1.25	0.120	MH/U			2.58				77.58	6.960	201.27				278.85	5.77	334.61
		3/4" pvc ftgs	98.00	each	0.41	0.100	MH/U			2.15				42.99	9.800	283.39				326.38	4.00	391.66
		06"x 01' pvc flg spool	2.00	each		0.400	MH/U			8.60					0.800	23.13				23.13	13.88	27.76
		04"x 01' pvc flg spool	2.00	each		0.350	MH/U			7.53					0.700	20.24				20.24	12.14	24.29
		02" valves	4.00	each		0.550	MH/U			11.83					2.200	63.62				63.62	19.09	76.34
		1-1/2" valves	21.00	each		0.400	MH/U			8.60					8.400	242.91				242.91	13.88	291.49
		3/4" valves	12.00	each		0.320	MH/U			6.88					3.840	111.04				111.04	11.10	133.25
		06" flg expan joint	2.00	each		0.420	MH/U			9.03					0.840	24.29				24.29	14.57	29.15
		04" flg expan joint	4.00	each		0.260	MH/U			5.59					1.040	30.07				30.07	9.02	36.08
		1-1/2"x 02" flg 3-way mixing valve or meter type device	4.00	each		1.000	MH/U			21.50					4.000	115.67				115.67	34.70	138.80
		04" pipe hangers	10.00	each		0.300	MH/U			6.45					3.000	86.75				86.75	10.41	104.10
		1-1/2" pipe hangers	16.00	each		0.250	MH/U			5.38					4.000	115.67				115.67	8.68	138.80
		03" pvc ftgs	4.00	each		0.200	MH/U			4.30					0.800	23.13				23.13	6.94	27.76
		raw water tank clr-33011	1.00	each		4.000	MH/U			86.00					4.000	115.67				115.67	138.80	138.80
		02"x 02"x ft settled water tank clr-33013	1.00	each		4.000	MH/U			86.00					4.000	115.67				115.67	138.80	138.80
		02"x 02"x ft(not shown) tanks op-40401 clr-33003	5.00	each		4.000	MH/U			86.00					20.000	578.35				578.35	138.80	694.02
		clr-33004 clr-33005																				
		clr-33006																				



BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL	OTHER TOTAL	COST*	UNIT PRICE	TOTAL AMOUNT
			all 02'x 02' ht(not shown)																					
			PHASE B CHLORINATOR ROOM																					
			DWG D-200-00 & D-200-02																					
			SYS: CG & CS																					
			PIPE, VALVES AND FITTINGS: PVC (DEMO)																					
			2-1/2" pvc pipe	60.00	lnft		0.350				7.53					21.000	607.27					607.27	12.15	728.72
			1-1/2" pvc pipe	400.00	lnft		0.300				6.45					120.000	3,470.10					3,470.10	10.41	4,164.12
			2-1/2" pvc ftgs	5.00	each		0.650				13.98					3.250	93.98					93.98	22.56	112.78
			1-1/2" pvc ftgs	57.00	each		0.500				10.75					28.500	824.15					824.15	17.35	988.98
			2-1/2" pvc hangers	3.00	each		0.400				8.60					1.200	34.70					34.70	13.88	41.64
			1-1/2" pvc hangers	18.00	each		0.400				8.60					7.200	208.21					208.21	13.88	249.85
			2-1/2" valves	1.00	each																			
			1-1/2" valves	25.00	each																			
			tanks clr 33006 clr 33007	4.00	each			2.500			53.75					10.000	289.18					289.18	86.75	347.02
			clr 33008 clr 33010																					
			all 02'x 02' ht(not shown)																					
			remove housekeeping pad, air hammer w/compressor	1.00	each			14.000	MH/U		301.00	210.00				14.000	404.84	224.70				629.54	755.45	755.45
			for phase a & b tanks.																					
			28' l x 03' w x tk(unknown)																					
			patch and repair	1.00	job	150.00		4.000	MH/U		86.00			160.50	4.000	115.67						276.17	331.40	331.40
			*** retain 5 smart transmitters and return to owner	5.00	each			0.500	MH/U		10.75				2.500	72.29						72.29	17.35	86.75
			CHLORINE CYCLINDER SRORAGE ROOM																					
			DWG D-200-00																					
			demo and remove four chlorine cylinder storage banks	4.00	each			12.000	MH/U		258.00				48.000	1,388.04						1,388.04	416.41	1,665.65
			34' l x 08' w																					
			demo and remove one chlorine cylinder storage bank.50'lx08'w	1.00	each			16.000	MH/U		344.00				16.000	462.68						462.68	555.22	555.22
			EXIST SCRUBBER SYSTEM																					
			DWG D-200-00																					
			demo and remove scrubber pump	3.00	each			6.000	MH/U		129.00				18.000	520.52						520.52	208.21	624.62
			demo and remove pump pad	1.00	each			4.000	MH/U		86.00	60.00			4.000	115.67	64.20					179.87	215.84	215.84
			10'x 06' x tk(unknown)																					
			existing piping (size unknown)	120.00	lnft			0.200	MH/U		4.30				24.000	694.02						694.02	6.94	832.82
			existing pipe ftgs	18.00	each			0.150	MH/U		3.23				2.700	78.08						78.08	5.21	93.70
			existing valves	12.00	each			0.600	MH/U		12.90				7.200	208.21						208.21	20.82	249.85
			NOTE																					
			plan note to remove existing chlorine scrubber system, ducts, piping, all appurtenances, metal bulding,chemical storage tanks, concrete slabs & containment walls and screen wall in accordance with specified sequence.																					
			demo productivity @ 50%+- of installation mhrs																					
			NON-HAZARDOUS DISPOSAL																					
			dumpster	5.00	pulls								650.00						3,250.00			3,250.00	780.00	3,900.00
			HAZARDOUS DISPOSAL																					
			install debris bag	1.00	each		2.000	MH/U			43.00				2.000	57.84						57.84	69.41	69.41
			disposal bags	2.00	each	450.00									963.00							963.00	577.80	1,155.60
			dumpster	2.00	pulls								650.00						1,300.00			1,300.00	780.00	1,560.00
			OWNER SALVAGE																					
			return to owners yard	1.00	loads			6.000	MH/U		129.00				6.000	173.50						173.50	208.20	208.20
			CONTRACTOR SALVAGE																					
			return to contractors yard	1.00	loads			8.000	MH/U		172.00				8.000	231.34						231.34	277.61	277.61
			SUBTOTAL AMOUNT												2,316.21	514.110	14,866.78	288.90	4,550.00			22,021.89	26,426.27	26,426.27
			----- END DEMOLITION WORK -----																					
4			NEW MECHANICAL WORK	1.00	LSUM																			
			SETTLING BASIN																					
			DWG: S-310-02 D-310-01-04, D-320-01-06																					

BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT	
SYS: PROCESS																								
			18" OPENING IN WALL																					
			drill/saw cut opening 24" x24"	1.00	each								125.00						125.00		125.00		150.00	150.00
			form pipe opening	1.00	each	55.00	2.000	MH/U			43.00				58.85	2.000	57.84				116.69	140.03	140.03	
			drill and epoxy 30" rebar dowells	4.00	each	17.50	0.500	MH/U			10.75				74.90	2.000	57.84				132.74	39.82	159.29	
			wall pipe	1.00	each		6.000	MH/U			129.00					6.000	173.50				173.50	208.20	208.20	
			link-seal	1.00	each		1.600	MH/U			34.40					1.600	46.27				46.27	55.52	55.52	
			grout slv	1.50	cuft	6.00	0.400	MH/U			8.60				9.63	0.600	17.35				26.98	21.58	32.38	
PHASE I																								
REMOVE AND REPLACE 8" PLUG VALVE																								
			8" plug valve	4.00	each		4.500	MH/U			96.75					18.000	520.52				520.52	156.16	624.62	
			26" ext bonnet / operator	4.00	each		2.500	MH/U			53.75					10.000	289.18				289.18	86.75	347.02	
			8" solid sleeve	4.00	each		4.500	MH/U			96.75					18.000	520.52				520.52	156.16	624.62	
			retainer gland	8.00	each		0.700	MH/U			15.05					5.600	161.94				161.94	24.29	194.33	
			stem guide	4.00	each	15.00	0.500	MH/U			10.75				64.20	2.000	57.84				122.04	36.61	146.45	
			concrete collars	4.00	each	10.00	0.500	MH/U			10.75				42.80	2.000	57.84				100.64	30.19	120.77	
			drill and epoxy anchors	8.00	each	12.50	0.500	MH/U			10.75				107.00	4.000	115.67				222.67	33.40	267.20	
INSTALL MUD VALVES																								
			8" mud valve w/gasket	8.00	each		8.000	MH/U			172.00					64.000	1,850.72				1,850.72	277.61	2,220.86	
			extended step operator w/universal joints	8.00	each		2.500	MH/U			53.75					20.000	578.35				578.35	86.75	694.02	
			stem guide	8.00	each	15.00	0.500	MH/U			10.75				128.40	4.000	115.67				244.07	36.61	292.88	
			drill and epoxy anchors	32.00	each	12.50	0.500	MH/U			10.75				428.00	16.000	462.68				890.68	33.40	1,068.82	
			grout	8.00	each	12.00	0.800	MH/U			17.20				102.72	6.400	185.07				287.79	43.17	345.35	
GROUT FILLETS @ SETTLING BASINS																								
			prep for grout, 1256 sfca	5024.00	each	0.50	0.047	MH/U			1.00				2,687.84	233.674	6,757.28				9,445.12	2.26	11,334.14	
			place grout	628.00	cuft	4.60	0.300	MH/U			6.45				3,091.02	188.400	5,448.06				8,539.08	16.32	10,246.89	
PHASE II																								
REMOVE AND REPLACE 8" PLUG VALVE																								
			8" plug valve	4.00	each		4.500	MH/U			96.75					18.000	520.52				520.52	156.16	624.62	
			26" ext bonnet / operator	4.00	each		2.500	MH/U			53.75					10.000	289.18				289.18	86.75	347.02	
			8" solid sleeve	4.00	each		4.500	MH/U			96.75					18.000	520.52				520.52	156.16	624.62	
			retainer gland	8.00	each		0.700	MH/U			15.05					5.600	161.94				161.94	24.29	194.33	
			stem guide	4.00	each	15.00	0.500	MH/U			10.75				64.20	2.000	57.84				122.04	36.61	146.45	
			concrete collars	4.00	each	10.00	0.500	MH/U			10.75				42.80	2.000	57.84				100.64	30.19	120.77	
			drill and epoxy anchors	8.00	each	12.50	0.500	MH/U			10.75				107.00	4.000	115.67				222.67	33.40	267.20	
INSTALL MUD VALVES																								
			8" mud valve w/gasket	8.00	each		8.000	MH/U			172.00					64.000	1,850.72				1,850.72	277.61	2,220.86	
			extended step operator w/universal joints	8.00	each		2.500	MH/U			53.75					20.000	578.35				578.35	86.75	694.02	
			stem guide	8.00	each	15.00	0.500	MH/U			10.75				128.40	4.000	115.67				244.07	36.61	292.88	
			drill and epoxy anchors	32.00	each	12.50	0.500	MH/U			10.75				428.00	16.000	462.68				890.68	33.40	1,068.82	
			grout	8.00	each	12.00	0.800	MH/U			17.20				102.72	6.400	185.07				287.79	43.17	345.35	
GROUT FILLETS @ SETTLING BASINS																								
			prep for grout, 1256 sfca	5024.00	each	0.50	0.047	MH/U			1.00				2,687.84	233.674	6,757.28				9,445.12	2.26	11,334.14	
			place grout	628.00	cuft	4.60	0.300	MH/U			6.45				3,091.02	188.400	5,448.06				8,539.08	16.32	10,246.89	
PLATE SETTLERS + TROUGHS AND WEIRS																								
PURCHASE INCLINED PLATE SETTLERS																								
			purchase and deliver is included in owner bid form	1.00	lsum																			
REMOVE TROUGHS AND WIERS																								
			drain system	1.00	each		16.000	MH/U			344.00					16.000	462.68				462.68	555.22	555.22	
			remove troughs and weirs	24.00	each		16.000	MH/U			344.00					384.000	11,104.32				11,104.32	555.22	13,325.18	
			clean troughs and weirs	24.00	each	15.00	4.000	MH/U			86.00	40.00			385.20	96.000	2,776.08	1,027.20				4,188.48	209.42	5,026.18
			replace troughs and weirs w/ new bolts and washers	24.00	each	175.00	22.000	MH/U			473.00				4,494.00	528.000	15,268.44				19,762.44	988.12	23,714.93	
CLEAN BASIN																								
			clean basin, bott 1520 sides 3,900 = 5420 sf	4.00	each	271.00	60.000	MH/U			1,290.00	600.00			1,159.88	240.000	6,940.20	2,568.00			10,668.08	3,200.42	12,801.70	
REMOVE PLATE SETTLERS																								
			remove plate settler assembly	24.00	each		18.000	MH/U			387.00					432.000	12,492.36				12,492.36	624.62	14,990.83	
			load and dispose of old plate settlers	1.00	lsum		32.000	MH/U			688.00	860.00	1,250.00			32.000	925.36	920.20	1,250.00		3,095.56	3,714.67	3,714.67	
INSTALL NEW PLATE SETTLERS																								
			install new plate settler assembly	24.00	each		24.000	MH/U			516.00					576.000	16,656.48				16,656.48	832.82	19,987.78	
FILTER MEDIA, UNDERDRAIN BLOCKS AND CAP																								
OWNER SELECTED VENDOR - SEE SPECIFICATION 11325																								
			BLD 1 - FILTERS 1-12 (10' x 32')																					
REMOVE FILTER MEDIA, UNDERDRAIN BLOCKS AND IMS CAP																								
			drain filter system	1.00	each		16.000	MH/U			344.00					16.000	462.68				462.68	555.22	555.22	

TCH Consulting Group, Inc.
 23 Palmer Street
 St. Augustine, Florida 32084
 904-829-8200

BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

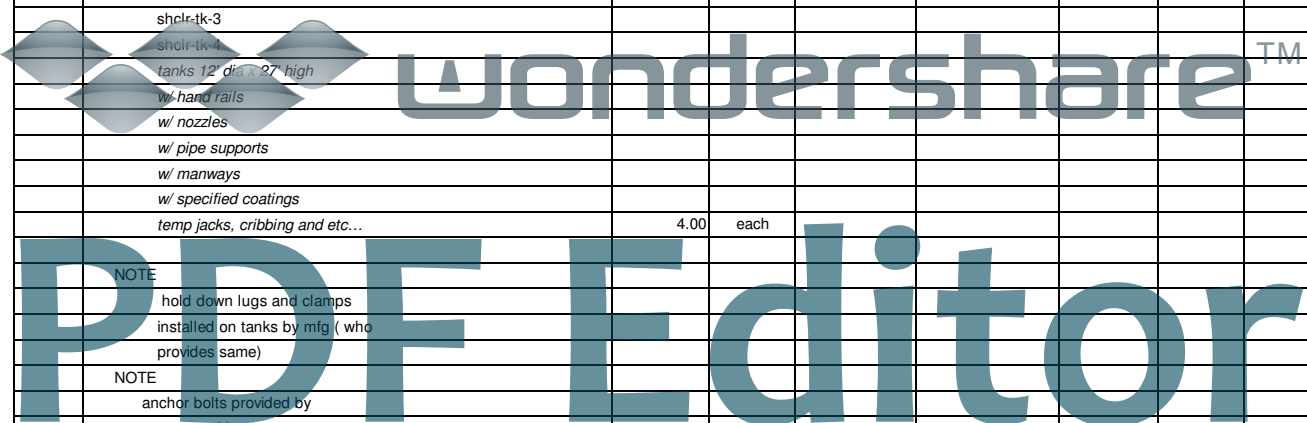
Table with columns: WBS, Major/Minor, ITEM DESCRIPTIONS, QNTY, UNIT MSR, UNIT \$ MATERIAL, PRODUCTIVITY, UNIT/ TIME, CREW, ADJ. \$ HOURLY, UNIT \$ LABOR, UNIT \$ EQUIP, UNIT \$ SUB-CON, UNIT \$ OTHER, TOTAL MATERIAL, TOTAL.. MANHOURS, TOTAL LABOR, TOTAL EQUIPMENT, TOTAL SUB-CON, TOTAL OTHER TOTAL, COST*, UNIT PRICE, TOTAL AMOUNT. Rows include VALVES, METERING PUMPS, SHCLR TANK PIPING, PIPE, FITTINGS, BOLT SETS, SOLVENT AND GLUE, HANAGERS, SEAL, VALVES, SLEEVES, TANKS, and concrete beams.

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MECHANICAL ESTIMATE

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			02" ball valve	8.00	each		1.000	MH/U			21.50				-	8.000	231.34	-	-	-	231.34	34.70	277.61
			1/2" ball valve	2.00	each		0.750	MH/U			16.13				-	1.500	43.38	-	-	-	43.38	26.03	52.06
			1/8" ball valve	2.00	each		0.500	MH/U			10.75				-	1.000	28.92	-	-	-	28.92	17.35	34.70
			03" flex rubber joints	4.00	each		0.350	MH/U			7.53				-	1.400	40.48	-	-	-	40.48	12.14	48.58
			CNTRL VALVE																				
			03" control valves	3.00	each		2.000	MH/U			43.00				-	6.000	173.50	-	-	-	173.50	69.40	208.20
			mov-1 mov-2 mov-3												-								
			SCREENS																				
			insect screens @ 08" tank vents	4.00	each		0.500	MH/U			10.75				-	2.000	57.84	-	-	-	57.84	17.35	69.41
			GROUT																				
			cubic feet grout	11.00	cuft	12.00	0.324	MH/U			6.97				141.24	3.568	103.17	-	-	-	244.41	26.66	293.29
			SHCLR UNLOADING STATION																				
			shclr unloading station	1.00	each		15.500	MH/U			333.25				-	15.500	448.22	-	-	-	448.22	537.86	537.86
			lox box, standard flip top												-								
			fiberglass enclosure (lb) 2												-								
			model gp-2 sized for 3' 0"x 4' 0"												-								
			precast vault												-								
			detailed d-200-02 & d-200-07												-								
			CONTROLLER																				
			lcp-shclr-truck station	1.00	each		10.000	MH/U			215.00				-	10.000	289.18	-	-	-	289.18	347.02	347.02
			controller												-								
			SHCLR TRANSFER PUMPS																				
			shclr transfer pumps	2.00	each		12.000	MH/U			258.00				-	24.000	694.02	-	-	-	694.02	416.41	832.82
			shclr-p-1 & shclr-p-2												-								
			horizontal base mounted end												-								
			suction pumps w/ lcp-shclr-tp												-								
			controller (hp not shown)												-								
			pump pads												-								
			05"x 03"x 06" thick	2.00	each	55.00	5.000	MH/U			107.50				117.70	10.000	289.18	-	-	-	406.88	244.13	488.26
			SUMP PUMPS																				
			sump pumps	2.00	each		5.000	MH/U			107.50				-	10.000	289.18	-	-	-	289.18	173.51	347.02
			smp-p-1 & smp-p-2												-								
			vertical turbine type pumps												-								
			w/16' of pump column and												-								
			suction strainer (hp not listed)	2.00	each		3.000	MH/U			64.50				-	6.000	173.50	-	-	-	173.50	104.10	208.20
			SHCLR-FCP-SMP-1 CONTROLLER																				
			shclr-fcp-smp-1 controller	1.00	each		10.000	MH/U			215.00				-	10.000	289.18	-	-	-	289.18	347.02	347.02
			RELOCATE TANK																				
			relocate existing spill tank	1.00	each		64.000	MH/U			1,376.00				-	64.000	1,850.72	-	-	-	1,850.72	2,220.86	2,220.86
			shclr-tk-1												-								
			tank is 12' dia x 25' high												-								
			provide frp ladder per detail												-								
			sheet d-200-02												-								
			provide new 08" frp nozzle												-								
			provide new 02" frp nozzle												-								
			SHCLR TANKS																				
			unload tanks	4.00	each		1.750	MH/U			37.63				-	7.000	202.42	-	-	-	202.42	60.73	242.90
			shclr tanks	4.00	each		32.000	MH/U			688.00				-	128.000	3,701.44	-	-	-	3,701.44	1,110.43	4,441.73
			shclr-tk-1												-								
			shclr-tk-2												-								
			shclr-tk-3												-								
			shclr-tk-4												-								
			tanks 12' dia x 27' high												-								
			w/ hand rails												-								
			w/ nozzles												-								
			w/ pipe supports												-								
			w/ manways												-								
			w/ specified coatings												-								
			temp jacks, cribbing and etc...	4.00	each							350.00			-			1,498.00	-	-	1,498.00	449.40	1,797.60
			NOTE																				
			hold down lugs and clamps												-								
			installed on tanks by mfg (who provides same)												-								
			NOTE																				
			anchor bolts provided by												-								
			contractor ??	1.00	isum	250.00									267.50						267.50	321.00	321.00



BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL	OTHER TOTAL	COST*	UNIT PRICE	TOTAL AMOUNT
			COMMISSIONING																					
			start-up utilities	10.00	day																			
			consultants	1.00	inc																			
			crew time	1.00	job																			
			O&M manuals and final submittals	1.00	job																			
			extended warranty (if required)	1.00	inc																			
			SUBTOTAL AMOUNT												3,837.02	3477.451	100,559.23	25,334.18	40,490.93			170,221.35		204,265.62
			----- END NEW MECHANICAL WORK -----																					
5			HEATING & VENTILATING SYSTEM	1.00	LSUM																			
			DWG: M-200-00 MD-200-01																					
			M-200-01																					
			DEMOLITION																					
			remove 40"x 40" frp duct	30.00	lnft		0.650	MH/U		13.98						19.500	563.89				563.89	22.56	676.67	
			cap 40"x 40"frp duct	1.00	each	155.00	1.300	MH/U		27.95					165.85	1.300	37.59				203.44	244.13	244.13	
			NEW WORK																					
			electric unit heaters	8.00	each		4.500	MH/U		96.75						36.000	1,041.03				1,041.03	156.15	1,249.24	
			euh -01 thru euh-08																					
			trane model uxha																					
			7.5 kw, 400 cfm, 1/4 hp, 480 v.																					
			w/ mounting bracket																					
			w/ thermostat ** see elec **																					
			w/ outlet louver																					
			w/ summer / winter switch																					
			EXHAUST FANS																					
			exhaust fans ** see elec **	2.00	each		8.000	MH/U		172.00						16.000	462.68				462.68	277.61	555.22	
			ef-01 & ef-02																					
			hartzell model series 59																					
			3350 cfm, 1.0 hp, 480/3/60 volt																					
			w/ frp construction, motor																					
			operated damper, bird screen,																					
			mounting flange, & rear guard																					
			LOUVERS																					
			combination wall louvers	2.00	each		7.000	MH/U		150.50						14.000	404.84				404.84	242.90	485.81	
			wl-01 & wl-02																					
			hartzell fan co.																					
			05'-4"x 03'-4" 3500cfm																					
			w/ motorized damper																					
			w/ bird screen																					
			w/ thermostat ** see elec **																					
			w/ frp construction																					
			WTR HEATERS																					
			water heater	1.00	each		3.000	MH/U		64.50						3.000	86.75				86.75	104.10	104.10	
			electric instantaneous,100kw,																					
			480/277 volt																					
			eemax, inc.																					
			EXHAUST FAN																					
			exhaust fan motor starters 1hp,	2.00	each																			
			power & control wiring by elec.																					
			CONTROL PANEL																					
			control panel, 16 gauge nema 4	1.00	each																			
			enclosure with lockable																					
			hinged door.																					
			LV TEMPERATURE CONTROL																					
			low voltage temperature control	1.00	lsum																			
			wiring for unit heaters																					
			TEST AND BALANCE																					
			test and balance	1.00	job								750.00									750.00	900.00	900.00
			power/ control & interlock wiring																					
			for exhaust fans & louvers is																					
			not included in this estimate.																					
			should be by electrician.																					

BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL OTHER	TOTAL COST*	UNIT PRICE	TOTAL AMOUNT																					
SUBTOTAL AMOUNT																						165.85	89.800	2,596.78	-	750.00	-	3,512.63	4,215.16	4,215.16														
----- END HVAC WORK -----																						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	PLUMBING			1.00	LSUM																																							
CW & PW PIPE (PLUG\$\$\$)																																												
			1-1/2" pvc pipe	20.00	lnft	2.00									42.80						42.80	2.57	51.36																					
			1-1/4" pvc pipe	100.00	lnft	1.50							15.00		160.50				1,500.00		1,660.50	19.93	1,992.60																					
			3/4" pvc pipe	80.00	lnft	1.00							12.00		85.60				960.00		1,045.60	15.68	1,254.72																					
CW & PW FITTINGS																																												
			1-1/4" pvc coup	3.00	each	1.00							18.00		3.21				54.00		57.21	22.88	68.65																					
			3/4" pvc coup	1.00	each	0.50							15.00		0.54				15.00		15.54	18.64	18.64																					
			1-1/2" pvc 90	2.00	each	1.00							26.00		2.14				52.00		54.14	32.48	64.97																					
			1-1/4" pvc 90	14.00	each	1.00							22.00		14.98				308.00		322.98	27.68	387.58																					
			3/4" pvc 90	10.00	each	0.50							16.00		5.35				160.00		165.35	19.84	198.42																					
			1-1/2" pvc tee	1.00	each	1.50							39.00		1.61				39.00		40.61	48.73	48.73																					
			1-1/4" pvc tee	12.00	each	1.50							33.00		19.26				396.00		415.26	41.53	498.31																					
			3/4" pvc tee	1.00	each	0.50							26.00		0.54				26.00		26.54	31.84	31.84																					
			04"x 1-1/2" saddle	1.00	each	12.00							125.00		12.84				125.00		137.84	165.41	165.41																					
SOLVENTS AND GLUES																																												
			solvent and glues	2.00	each	15.50									33.17						33.17	19.90	39.80																					
HANAGERS																																												
			1-1/2" hanger assmby	3.00	each	6.00							12.00		19.26				36.00		55.26	22.10	66.31																					
			1-1/4" hanger assmby	14.00	each	6.00							12.00		89.88		303.63		168.00		561.51	48.13	673.81																					
			3/4" hanger assmby	10.00	each	4.00							12.00		42.80		144.59		120.00		307.39	36.89	368.87																					
MISC APPURTANCES																																												
			freeze proof hose bibbs	2.00	each								315.00						630.00		630.00	378.00	756.00																					
			3/4" backflow preventer	1.00	each								275.00						275.00		275.00	330.00	330.00																					
CUT-PATCH AND REPAIRS																																												
			cut and patch building in existing fluoride room at pipe tie in.	1.00	each								500.00						500.00		500.00	600.00	600.00																					
PD DRAIN																																												
			03" pvc pipe	60.00	lnft	3.50							12.50		224.70				750.00		974.70	19.49	1,169.64																					
			03" pvc 90	4.00	each	3.00							35.00		12.84				140.00		152.84	45.85	183.41																					
			03" pvc wye	1.00	each	5.00							53.00		5.35				53.00		58.35	70.02	70.02																					
FIXTURES																																												
			emergency eye wash w/flow switch	3.00	each	365.00							565.00		1,171.65				1,695.00		2,866.65	1,146.66	3,439.98																					
TESTING																																												
			testing and disinfection	1.00	job								1,500.00						1,500.00		1,500.00	1,800.00	1,800.00																					
SUBTOTAL AMOUNT																						165.85	89.800	2,596.78	-	750.00	-	3,512.63	4,215.16	4,215.16														
----- END PLUMBING WORK -----																						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ALT. #1																																												
			SEE PLATE SETTLER VENDOR QUOTE...																																									
			plate settlers option to replace 304 stainless steel w/ 316		nic																																							
ALT. #2																																												
			18" DIP PIPE W/ 18" BFV (\$765.00 LABOR ONLY)																																									
			18" dip spool pile x24	1.00	each		9.000	MH/U			193.50					9.000	260.26				260.26	312.31	312.31																					
			18" butterfly valve w/ ext bonnet/opr	1.00	each		7.500	MH/U			161.25					7.500	216.88				216.88	260.26	260.26																					
			extended operator	1.00	each		2.500	MH/U			53.75					2.500	72.29				72.29	86.75	86.75																					
			core pavement for stem	1.00	each								100.00						100.00		100.00	120.00	120.00																					
END OF ESTIMATE																																												
																																												\$ 405,093.94

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NO. 1 EXCLUSIONS & QUALIFICATIONS
 NO ELECTRICAL DEMO OR NEW ELECTRICAL WORK INCLUDED ABOVE
 2 NO MATERIALS INCLUDED ABOVE UNLESS SPECIFICALLY LISTED (ESTIMATE IS LABOR ONLY)
 3 CLIENT TO ADD VENDOR PRICING TO ESTIMATE

TCH Consulting Group, Inc.
 23 Palmer Street
 St. Augustine, Florida 32084
 904-829-8200

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BULK HYPOCHLORITE SYSTEM

ANY TOWN, USA

MECHANICAL ESTIMATE

WBS	Major	Minor	ITEM DESCRIPTIONS	QNTY	UNIT MSR	UNIT \$ MATERIAL	PRODUCTIVITY	UNIT/ TIME	CREW	ADJ. \$ HOURLY	UNIT \$ LABOR	UNIT \$ EQUIP	UNIT \$ SUB-CON	UNIT \$ OTHER	TOTAL MATERIAL	TOTAL.. MANHOURS	TOTAL LABOR	TOTAL EQUIPMENT	TOTAL SUB-CON	TOTAL	OTHER TOTAL	COST*	UNIT PRICE	TOTAL AMOUNT
4			NO CRANE, HOISTING OR LIFT RENTAL INCLUDED ABOVE																					
5			PLATE SETLERS ARE CONSIDERED ASSEMBLED WHEN DELIVERED?																					
6			DEDUCT \$650.00 FROM THE ABOVE TOTAL FOR ALT.#2																					
7			NO (I & C), INSTRUMENTATION & CONTROLS INCLUDED ABOVE																					
8			NO STANDS, CABINETS OR MOUNTING BRACKETS INCLUDED FOR (I & C)																					
END																								



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