

Summary

	MBR
Blowers and diffusers	\$328,022
Pumps and mixers	\$975,031
SCADA and Control	\$194,722
Design Work	\$1,070,239
Construction cost	\$4,604,409
TOTAL	

ITEM	DESCRIPTION	UNIT
1	Supply of Blowers and diffusers	
1a	Pre-delivery of equipment	LS
1b	Fine air bubbles diffusers and grit	LS
1c	Blowers for the fine air	LS
1d	Inspection and monitoring	LS
2	Supply of Pumps and mixers	
2a	MLSS Pumps	ea
2b	RAS Pumps	ea
2c	Mixers	LS
2d	WAS Pumps	ea
2e	MBR feed pumps	ea
2f	Ethanol dosing pump	ea
3	SCADA and Control	LS
3	Construction and Installation	
3a	PRELIMINARY & GENERAL	LS
3b	Potable Water Systems	LS
3c	Compressed Air Systems	LS
3d	Electrical Services	LS
3e	Ethanol dosing system	LS
3f	MBR feed system	LS
3g	MBR tanks	LS
3h	Contingency	LS

Bardenpho
\$929,065
\$2,612,584
\$338,073
\$1,276,470
\$10,303,272
\$15,459,464

Scaling Factor:

$$CS/CR = (S/Sr)^{2/3}$$

Flow:

1.736183964

Tank volume

2.83232567

QTY	MBR RATE	MBR AMOUNT	Factor
1	1700	1700	2.83
1	176860	176860	2.83
1	137412	137412	2.83
1	12050	12050	2.83
4	10058.94	40235.76	1.74
3	10058.94	30176.82	1.74
1	839080.58	839080.58	2.83
2	4340.26	8680.52	1.74
3	11929.36	35788.08	1.74
2	10534.54	21069.08	1.74
1	194722	194722	1.74
30%	3541853	1062556	1.74
1	33642	33642	1.74
1	55643	55643	1.74
1	729909	729909	1.74
1	30597	30597	1.74
1	185426	185426	1.74
1	2106636	2106636	2.83
1	400000	400000	1.74

Bardenpho amount
4814.95
500925.12
389195.53
34129.52
69856.68
52392.51
2376549.47
15070.98
62134.69
36579.8
338073.2139
1844792.51
58408.7
96606.48
1267256.3
53122.02
321933.65
5966679.22
694473.59