

# SCC Pump Recommendation

Justification –

We have been experiencing, both this year and last, problems with our Streaming Current Controller (SCC) supply pump clogging due to debris in the water. Depending on the water quality and time of year, this pump will get clogged between 18 and 48 hours. This pump sends water to our SCC analyzer which tells us if our coagulant dose is under or over the desired dose. When water quality is consistent, it doesn't cause too much of an issue, but during or after a rain, and dirt gets carried into the reservoirs and canals that feed our plant, the demand for coagulant goes up. When the pump is clogged, it can't tell us that our demand has gone up and the plant is now under-dosed for polymer (coagulant). This causes huge problems for our finished water product, resulting in higher effluent turbidity (potential for violation) increase DBP (disinfection byproducts) shortened filter runs and more backwashes, and increased OT and hours of operations to remedy the issues.

The only way to fix a sedimentation basin that is under-dosed is to physically cascade polymer around the basin while running the plant (usually at higher effluent turbidity) or run Filter to Waste (FTW) to the lagoons. We only have about two hours of run time before the lagoons are full, then they will overflow into the neighbor's pond.

The project I would like to do would require a new, higher output pump, Y strainer for catching debris, and better piping. We would plumb in a bypass around the Y strainer to allow for continuous flow while cleaning the Y strainer daily. Or every few days as needed. This should allow for consistent flows to the SCC without interruption.

Material cost would be around \$1100-1300. Labor should be under \$500.

We have already spent about 10 hours from the last rains dealing with this, not to mention callouts through the night from false SCC reads due to clogging. I am asking the board to approve this project at this upcoming board meeting so we can hopefully install this before the next major storm.

Regards,

Jason Hoffman

Chief Operator

American River Backflow

 **1.800.848.1141**



SEARCH

# MD-70RLT IWAKI AMERICA | MAGNETIC-DRIVE CENTRIFUGAL PUMP

RHFS Item #:

**63051520**



ROCKLIN WINDUSTRIAL CO  
 4311 ANTHONY CT SUITE 500  
 ROCKLIN, CA 95677

PHONE (916) 652-9231  
 FAX (916) 652-9234

Quoted To Customer
AMERICAN RIVER BACKFLOW CREDIT CARD ACCOUNT 100 HARRISON AVE AUBURN, CA 95603-4224
Phone (530) 232-8116 Fax

Job Name
Harry 9/28/23

Quote No.	Date	Page
0018277	9/28/23	1
Expiration Date		10/28/23
Revised Date		9/28/23
Bid Due Date		9/28/23

Quoted By
Rich Haynes rhaynes@windustrial.com (916) 652-9231

Customer	Payment Terms	Quoted To	Salesperson	FOB
002308	CREDIT CARD ACCOUNT	Harry Barnhill	RICHARD HAYNES	S

Line	Qty.	Description	Unit Price	UOM	Extended Price
1.0	1	015-1257 1 1/2 WYE STRN PVC THR ASAHI WYE STRAINER	162.5795	EA	162.58
2.0	3	1-1/2X3/4 MXF PVC80 BUSH	6.2249	EA	18.67
3.0	8	3/4 SXS PVC80 90 ELL	1.8036	EA	14.43
4.0	20	3/4X20 PVC SCH80 PE PIPE	.9976	FT	19.95
5.0	1	3/4 DUO BLOC 21 SOC/THD EPDM ASAHI BALL VALVE PVC	36.8001	EA	36.80
6.0	1	3/4 SXSXS PVC80 TEE	4.1718	EA	4.17
7.0	1	3/4FHT X 1/2FIP SWIVEL ADAPTER	4.2482	EA	4.25
8.0	2	3/4X1/2 SPGXS PVC80 BUSH	.8220	EA	1.64
9.0	1	1/2X6 PVC80 NIPPLE	1.8050	EA	1.81
10.0	10	B22SH GALV 10FT CHANNEL 1-5/8X1-5/8 SLOTTED	3.7910	FT	37.91
11.0	4	8200Z0075 3/4 STRUT CLMP	.9813	EA	3.93
12.0	10	8000 3/8 STRUT NUT LESS SPRING	1.0386	EA	10.39
13.0	10	3/8X1-1/4 Z-PLTD HEX CAP SCREW	.2767	EA	2.77
14.0	10	3/8 ZINC PLTD FLAT WASHER	.0623	EA	.62

Tax Area Id	Net Sales	319.92
	Freight	.00
	Tax	.00
	Quotation Total	319.92