

CRESTLINE SANITATION DISTRICT

MEMORANDUM

DATE: 10/13/2022

TO: BOARD OF DIRECTORS
Crestline Sanitation District

FROM: Rick Dever
General Manager

SUBJECT: Cleghorn WWTP Final Effluent Pumps

A. RECOMMENDATION

I recommend to replace Pump #2 and repair/rebuild the old pump, if possible.

B REASON FOR RECOMMENDATION

Pump #2 is failing and Pump #1 is beginning to show similar issues. These pumps are critical to pump the final effluent to the Outfall. Both are older pumps from the early 1970's.

C. OTHER INFORMATION

Pump #2 was last rebuilt in 1995 and in 1999 tested at 15% efficiency, before the rebuild.

Pump #1 was tested in 1999 and tested at 30% efficiency.

These pumps are discussed in the District's Master Plan

D. FISCAL INFORMATION

The total for all three quotes is \$112,368.34.

California State Parks has been contacted and has authorized the District to proceed. Once completed the State will issue a check for the full amount.

E. ATTACHMENTS

Quotes # 43243, 43223, and 43226

Letter of explanation for Rob Lasher, Lead Plant Operator

Email from Ryann Gill, California State Parks



PROCESS AND PUMP EQUIPMENT

31248 Valley Center Rd | Valley Center CA 92082 | 760 749 2209

**Due to ongoing supply chain issues and unstable costs of raw materials pricing is subject to change without notice.*

Quote

Quote # 43243
 Date 9/27/2022
 Sales Person VJS
 Written By S WALDMAN
 Terms Net 30
 Freight PREPAID & ADD

Bill To:
 CRESTLINE SANITATION DISTRICT
 ACCOUNTS PAYABLE
 PO BOX 3395
 CRESTLINE, CA 92325

Ship To:
 CRESTLINE SANITATION DISTRICT
 CLEGHORN WASTEWATER RECLAMATION PLANT
 CLEGHORN RD
 HESPERIA, CA 92345

Project CLEGHORN WASTEWATER RECLAMATION FACILITY

Part Number	Qty	Description	Unit	Total
		<p>PROVIDE CREW AND EQUIPMENT TO REMOVE ONE SHORT COUPLED VERTICAL TURBINE AND BRING BACK TO BRAX FOR DISASSEMBLY AND INSPECTION. PRICING PROVIDED BELOW IS ESTIMATED FOR PROVIDING A NEW PUMP BASED ON CONDITIONS AND INFORMATION PROVIDED AT TIME OF INITIAL QUOTING.</p> <p>SUPPLY NEW PUMP, DISCHARGE HEAD, FAB SHAFTING, COLUMN PIPE, TRIM IMPELLERS, AND PROVIDE NEW MECHANICAL SEAL AND SEAL GLAND TO FIT. PROVIDE NEW 25HP 230/460V 1740RPM 3PH MOTOR. DISCHARGE HEAD AND COLUMN ADAPTER PRICING WILL NEED TO BE VERIFIED UPON PUMP DISASSEMBLY AND INSPECTION.</p> <p>**NOTE: THIS IS JUST A BUDGETARY ESTIMATE- EXACT PRICING WILL BE PROVIDED UPON DISASSEMBLY AND INSPECTION GIVEN ACTUAL CONDITION OF THE PUMP **</p> <p>ESTIMATED LEAD TIME IS 16-18 WEEKS ARO.</p>		
	1	<p>JOHNSTON 8CC 8-STAGE PUMP CAST IRON BOWLS W/ BRONZE BEARINGS & AL BRONZE WEAR RINGS SS IMPELLERS W/ NI AL BRONZE WEAR RINGS SS LOCK COLLETS SS HARDWARE BRONZE SAND COLLAR</p>		
	1	25HP 230/460V 1740RPM 3PH GE MOTOR PREMIUM EFFICIENT		
	1	DISCHARGE HEAD TYPE "F" W/ 6" 150# FLANGE		
		6" THD HANGAR FLANGE		
	3	6" COLUMN PIPE BUTT THD TNC @ 5 FT LONG		
	2	SS WATER LUBE SPIDER 6" X 2"		
	2	RUBBER LINESHAFT BEARING		
	120	BOWL SHAFT 1 1/4 RD 416SS PSQ		
	2	LINE SHAFT 1 3/16 RD 416SS PSQ @ 5 FT LONG		
	1	INTERMEDIATE SHAFT 1 3/16 RD 416SS PSQ		
	48	HEAD SHAFT 1 3/16 RD 416SS PSQ		
	3	COUP SHAFT 1 3/16 304S 10TPI		
	1	COUP SHAFT 1 1/4 304S 10TPI		
	1	CHESTERTON 1810 MECH SEAL- 9.5 SA SSC X SSC X FKM 1.1875"		
	1	PLAN 13 FLUSH TUBING & FITTINGS		
	1	CHESTERTON CONNECT V1 1/4 NPT, 316SS (NON IS)		
	1	SEAL GLAND SM 1 - 1.50 SHAFT		

CLSB 487325 CAGE 6U1W7 DIR 1000441272

(A 3.5% SURCHARGE WILL BE ADDED TO ALL CREDIT CARD PAYMENTS)



PROCESS AND PUMP EQUIPMENT

31248 Valley Center Rd | Valley Center CA 92082 | 760 749 2209

**Due to ongoing supply chain issues and unstable costs of raw materials pricing is subject to change without notice.*

Quote

Quote # 43243
 Date 9/27/2022
 Sales Person VJS
 Written By S WALDMAN
 Terms Net 30
 Freight PREPAID & ADD

Bill To:
 CRESTLINE SANITATION DISTRICT
 ACCOUNTS PAYABLE
 PO BOX 3395
 CRESTLINE, CA 92325

Ship To:
 CRESTLINE SANITATION DISTRICT
 CLEGHORN WASTEWATER RECLAMATION PLANT
 CLEGHORN RD
 HESPERIA, CA 92345

Project CLEGHORN WASTEWATER RECLAMATION FACILITY

Part Number	Qty	Description	Unit	Total
	4	BRONZE 660 1 1/2 X 2 1/2		
	6	BRONZE 660 1 X 2 1/2		
	1	MISC MATERIALS- SS BOLTS, FF GASKETS, ETC		
	1	TOTAL MATERIAL	33,015.83	33,015.83T
	1	LABOR TO COMPLETE- PREVAILING WAGE RATE ESTIMATED AND WILL BE BILLED TO ACTUAL TIME TO COMPLETE WORK	20,260.00	20,260.00
	1	** PLEASE NOTE: LABOR QUOTED IS FOR PULLING ONE PUMP AND MOTOR, BRINGING TO BRAX HQ, DISASSEMBLING AND INSPECTING, FABRICATING SHAFTING, SEAL GLAND, COLUMN ADAPTER, AND ASSEMBLING NEW PUMP. 18T CRANE & FLATBED TRUCK ** ADDER COST: SAND BLAST AND EPOXY COAT PUMP BOWL ASSEMBLY, COLUMN PIPE, AND DISCHARGE HEAD	9,943.06	9,943.06

CLSB 487325 CAGE 6U1W7 DIR 1000441272

Sales Tax (7.75%) \$2,558.73

(A 3.5% SURCHARGE WILL BE ADDED TO ALL CREDIT CARD PAYMENTS)

Total \$65,777.62



Quote

PROCESS AND PUMP EQUIPMENT

31248 Valley Center Rd | Valley Center CA 92082 | 760 749 2209

***Due to ongoing supply chain issues and unstable costs of raw materials pricing is subject to change without notice.**

Quote #	43223
Date	9/27/2022
Sales Person	VJS
Written By	S WALDMAN
Terms	Net 30
Freight	PREPAID & ADD

Bill To:
 CRESTLINE SANITATION DISTRICT
 ACCOUNTS PAYABLE
 PO BOX 3395
 CRESTLINE, CA 92325

Ship To:
 CRESTLINE SANITATION DISTRICT
 CLEGHORN WASTEWATER RECLAMATION PLANT
 CLEGHORN RD
 HESPERIA, CA 92345

Project CLEGHORN WASTEWATER RECLAMATION FACILITY

Part Number	Qty	Description	Unit	Total
	1	PROVIDE CREW AND EQUIPMENT TO REMOVE ONE 25HP 230/460V 1740RPM 3PH MOTOR AND ONE VERTICAL TURBINE PUMP. SEND IN MOTOR TO BE DISASSEMBLED AND INSPECTED. PRICING PROVIDED BELOW IS ESTIMATED FOR MOTOR RECONDITION- DOES NOT INCLUDE REPLACEMENT OF WORN PARTS OR ADDITIONAL WORN BEARING HOUSINGS. ** NOTE: THIS IS A BUDGETARY ESTIMATE- EXACT PRICING WILL BE PROVIDED UPON DISASSEMBLY AND INSPECTION GIVEN ACTUAL CONDITION OF THE MOTOR ** ESTIMATED LEAD TIME IS 2-4 WEEKS UPON RECEIPT OF THE MOTOR. MOTOR RECONDITION 25 HP 230/460V 1740RPM 3PH - DISMANTLE MOTOR - CLEAN, TEST, RE-INSULATE, DIP & BAKE STATOR - CLEAN, TEST, & RE-INSULATE ROTOR - INSTALL 1 NEW THRUST BEARING - INSTALL 1 NEW BALL BEARING - INSTALL NEW SIGHT GLASS & MISC PARTS - CLEAN ALL PARTS, ASSEMBLE, TEST & PAINT	2,550.88	2,550.88
	1	LABOR TO COMPLETE- PREVAILING WAGE RATE ESTIMATED AND WILL BE BILLED TO ACTUAL TIME TO COMPLETE WORK ** PLEASE NOTE: LABOR QUOTED IS FOR PULLING ONE PUMP AND MOTOR. 18T CRANE & FLATBED **	5,250.00	5,250.00

CLSB 487325 CAGE 6U1W7 DIR 1000441272

Sales Tax (7.75%) \$0.00

(A 3.5% SURCHARGE WILL BE ADDED TO ALL CREDIT CARD PAYMENTS)

Total \$7,800.88

ALL SALES SUBJECT TO TERMS AND CONDITIONS AT WWW.BRAXCOMPANY.COM



PROCESS AND PUMP EQUIPMENT

31248 Valley Center Rd | Valley Center CA 92082 | 760 749 2209

**Due to ongoing supply chain issues and unstable costs of raw materials pricing is subject to change without notice.*

Quote

Quote # 43226
 Date 9/27/2022
 Sales Person VJS
 Written By S WALDMAN
 Terms Net 30
 Freight PREPAID & ADD

Bill To:
 CRESTLINE SANITATION DISTRICT
 ACCOUNTS PAYABLE
 PO BOX 3395
 CRESTLINE, CA 92325

Ship To:
 CRESTLINE SANITATION DISTRICT
 CLEGHORN WASTEWATER RECLAMATION PLANT
 CLEGHORN RD
 HESPERIA, CA 92345

Project CLEGHORN WASTEWATER RECLAMATION FACILITY

Part Number	Qty	Description	Unit	Total
		PROVIDE CREW AND EQUIPMENT TO DISASSEMBLE & INSPECT ONE SHORT COUPLED VERTICAL TURBINE. PRICING PROVIDED BELOW IS ESTIMATED FOR PUMP REBUILD INCLUDING DIASSEMBLING AND INSPECTING THE PUMP, REPLACING ALL SHAFTING AND COUPLINGS, BORING OUT BOWLS AND INSTALLING NEW WEAR RINGS, AND REPLACING ALL SS LOCK COLLETS & BOWL BEARINGS. PROVIDE NEW MECHANICAL SEAL AND SEAL GLAND TO FIT. DOES NOT INCLUDE ANY ADDITIONAL PARTS THAT ARE DETERMINED TO NEED REPLACING UPON INSPECTION OF PUMP. ADDITIONAL COSTS WILL APPLY FOR EPOXY COATING/ PAINTING OF ALL MATERIALS; COST CAN BE QUOTED AT TIME OF PUMP DISASSEMBLY AND INSPECTION. PROVIDE CRANE AND CREW TO INSTALL PUMP AND MOTOR AND PERFORM START UP/TEST OPERATION. ** NOTE: THIS IS A BUDGETARY ESTIMATE- EXACT PRICING WILL BE PROVIDED UPON DISASSEMBLY AND INSPECTION GIVEN ACTUAL CONDITION OF THE PUMP ** ESTIMATED LEAD TIME IS 10-12 WEEKS ARO.		
	120	BOWL SHAFT 1 3/16 RD 416SS PSQ		
	2	LINE SHAFT 1 3/16 RD 416SS PSQ		
	1	INTERMEDIATE SHAFT 1 3/16 RD 416SS PSQ		
	48	HEAD SHAFT 1 3/16 RD 416SS PSQ		
	4	COUP SHAFT 1 3/16 304S 10TPI		
	13	BRONZE 660 4 X 5		
	9	SS LOCK COLLETS		
	1	BOWL BEARING KIT		
	2	SS WATER LUBE SPIDER 6" X 2"		
	2	RUBBER LINESHAFT BEARING		
	1	CHESTERTON 1810 MECH SEAL- 9.5 SA SSC X SSC X FKM		
	1	SEAL GLAND SM 1 - 1.50 SHAFT		
	4	BRONZE 660 1 1/2 X 2 3/4		
	6	BRONZE 660 1 X 2 1/2		
	1	PLAN 13 FLUSH TUBING AND FITTINGS		
	1	CHESTERTON CONNECT V1 1/4 NPT, 316SS (NON IS)		
	1	MISC MATERIALS- SS BOLTS, FF GASKETS, ETC		

CLSB 487325 CAGE 6U1W7 DIR 1000441272

(A 3.5% SURCHARGE WILL BE ADDED TO ALL CREDIT CARD PAYMENTS)



PROCESS AND PUMP EQUIPMENT

31248 Valley Center Rd | Valley Center CA 92082 | 760 749 2209

**Due to ongoing supply chain issues and unstable costs of raw materials pricing is subject to change without notice.*

Quote

Quote # 43226
 Date 9/27/2022
 Sales Person VJS
 Written By S WALDMAN
 Terms Net 30
 Freight PREPAID & ADD

Bill To:
 CRESTLINE SANITATION DISTRICT
 ACCOUNTS PAYABLE
 PO BOX 3395
 CRESTLINE, CA 92325

Ship To:
 CRESTLINE SANITATION DISTRICT
 CLEGHORN WASTEWATER RECLAMATION PLANT
 CLEGHORN RD
 HESPERIA, CA 92345

Project CLEGHORN WASTEWATER RECLAMATION FACILITY

Part Number	Qty	Description	Unit	Total
	1	TOTAL MATERIAL		11,087.50T
	1	LABOR TO COMPLETE- PREVAILING WAGE RATE 18T CRANE + FLATBED ESTIMATED AND WILL BE BILLED TO ACTUAL TIME TO COMPLETE WORK ** PLEASE NOTE: LABOR INCLUDED IS FOR DISASSEMBLING AND INSPECTING, MACHINING PUMP AND FABRICATING PARTS, AND REPAIRING / REBUILDING PUMP. INSTALLING PUMP AND MOTOR AND PERFORMING START UP. DOES NOT INCLUDE LABOR FOR PULLING EQUIPMENT, WHICH IS INCLUDED ON Q43223 **		16,900.00
	1	ADDER COST: SAND BLAST AND EPOXY COAT PUMP BOWL ASSEMBLY, COLUMN PIPE, AND DISCHARGE HEAD. ** NOTE: SANDBLASTING MAY REVEAL STRUCTURAL ISSUES WITH THE MATERIAL THAT COULD REQUIRE ADDITIONAL REPAIRS OR REPLACEMENT. ANY ADDITIONAL WORK REQUIRED WILL BE QUOTED SEPARATELY **		9,943.06

CLSB 487325 CAGE 6U1W7 DIR 1000441272

Sales Tax (7.75%)

\$859.28

(A 3.5% SURCHARGE WILL BE ADDED TO ALL CREDIT CARD PAYMENTS)

Total

\$38,789.84



Dawn Grantham <dgrantham@crestlinesanitation.com>

Cleghorn effluent pump #2

Rob Lasher <rlasher@crestlinesanitation.com>

Mon, Sep 19, 2022 at 11:58 AM

To: Dawn Grantham <dgrantham@crestlinesanitation.com>, Rick Dever <rdever@crestlinesanitation.com>, Ron Scriven <rscriven@crestlinesanitation.com>

Dawn,

Pump #2 started to vibrate and make a lot of noise, The pump also is shutting down before the pump cycle is complete. Nathan and Gene have looked at the motor and determined it is not related to an electrical issue. It would appear that the pump is failing.

The last time pump #2 was rebuilt was 3-22-95, And tested at 40 gallons/minute(15% efficiency).

I am requesting to replace pump #2 with a new pump and motor and send the old pump and motor out to get rebuilt and replace it with pump #1.

If you can reach out to State Parks and get approval, I would appreciate it. Also if you could express that this is a critical piece of equipment used to pump the final effluent to the outfall.

Sincerely,

--

Rob Lasher
Lead Plant Operator
Crestline Sanitation District
office: (909)338-3245
mobile: (951)315-8525

Cleghorn Effluent Pumps

Gill, Ryann@Parks <Ryan.Gill@parks.ca.gov>
To: Dawn Grantham <dgrantham@crestlinesanitation.com>
Cc: Rob Lasher <rlasher@crestlinesanitation.com>

Thu, Sep 29, 2022 at 2:46 PM

Hi Dawn,

Please move forward with replacing Pump 2 and also rebuilding it as per the quotes you provided.

Thanks

Ryann Gill

Sector Superintendent

Inland Empire District/Silverwood Sector

Silverwood Lake & Providence Mountains SRA

(760)389-2494

Ryan.Gill@parks.ca.gov



From: Dawn Grantham <dgrantham@crestlinesanitation.com>

Sent: Thursday, September 29, 2022 10:03 AM

[Quoted text hidden]

[Quoted text hidden]