



**SOUTH SAN LUIS OBISPO COUNTY  
SANITATION DISTRICT**

Post Office Box 339, Oceano, California 93475-0339

1600 Aloha, Oceano, California 93445-9735

Telephone (805) 489-6666 FAX (805) 489-2765

[www.sslocsd.us](http://www.sslocsd.us)

**AGENDA  
BOARD OF DIRECTORS MEETING  
Arroyo Grande Council Chambers,  
212 East Branch Street,  
Arroyo Grande, California 93420**

**Wednesday, May 17, 2023, at 6:00 p.m.**

**Board Members**

Caren Ray Russom, Chair

Karen Bright, Vice Chair

Linda Austin, Director

**Agencies**

City of Arroyo Grande

City of Grover Beach

Oceano Community Services District

**Alternate Board Members**

Lan George, Director

Clint Weirick, Director

Allene Villa, Director

City of Arroyo Grande

City of Grover Beach

Oceano Community Services District

- 
- 1. CALL TO ORDER AND ROLL CALL**
  - 2. PLEDGE OF ALLEGIANCE**
  - 3. AGENDA REVIEW**
  - 4. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON AGENDA**

This public comment period is an invitation to members of the community to present comments, thoughts or suggestions on matters not scheduled on this agenda. Comments should be limited to those matters which are within the jurisdiction of the District. The Brown Act restricts the Board from taking formal action on matters not published on the agenda. In response to your comments, the Chair or presiding Board Member may:

- Direct Staff to assist or coordinate with you.
- Direct Staff to place your issue or matter on a future Board meeting agenda.

Please adhere to the following procedures when addressing the Board:

- Comments should be limited to three (3) minutes or less.
- Your comments should be directed to the Board as a whole and not directed to individual Board members.
- Slanderous, profane or personal remarks against any Board Member, Staff or member of the audience shall not be permitted

Any writing or document pertaining to an open-session item on this agenda which is distributed to a majority of the Board after the posting of this agenda will be available for public inspection at the time the subject writing or document is distributed. The writing or document will be available for public review in the offices of the Oceano CSD, a member agency located at 1655 Front Street,

Oceano, California. Consistent with the Americans with Disabilities Act (ADA) and California Government Code §54954.2, requests for disability-related modification or accommodation, including auxiliary aids or services, may be made by a person with a disability who requires modification or accommodation in order to participate at the above referenced public meeting by contacting the District Administrator or Bookkeeper/Secretary at (805) 481-6903. So that the District may address your request in a timely manner, please contact the District two business days in advance of the meeting.

**5. CONSENT AGENDA:**

The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Any Board Member may request that any item be withdrawn from the Consent Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

**5A. Approval of Warrants**

**5B. Approval of Meeting Minutes of May 3, 2023**

**5C. Request Approval to Purchase 6 Inch Portable Thompson Pump**

**5D. Request Approval to Purchase 12 MGD Emergency Bypass Pump**

**6. ACTION ITEMS:**

**6A. WWTP REDUNDANCY PROJECT UPDATE**

Recommendation: Receive and File.

**6B. 2023/24 FISCAL YEAR BUDGET; SET PUBLIC HEARING FOR JUNE 21, 2023**

Recommendation:

1. That the Board Provide Input Regarding the Proposed 2023-24 Fiscal Year (FY) Budget and,
2. Set a Noticed Public Hearing for June 21, 2023.

**7. BOARD MEMBER COMMUNICATIONS:**

**8. ADJOURNMENT**

The next regularly scheduled Board Meeting is June 21, 2023, 6:00 pm at the  
Arroyo Grande Council Chambers,  
212 E. Branch Street, Arroyo Grande, California 93420

WARRANT REGISTER  
5/17/2023  
FISCAL YEAR 2022/23

VENDOR	BUDGET LINE ITEM	DETAIL	WARRANT NO.	ACCT	ACCT BRKDN	TOTAL
ALLIED ADMINISTRATORS	EMPLOYEE DENTAL	JUNE 2023	050123-6785	6025	922.58	922.58
AMERICAN BUSINESS MACHINES	OFFICE SUPPLY'S	677570; 678084	6786	8045	92.65	92.65
ANDRITZ SEPARATION	EMERGENCY EQUIPMENT REPAIR	8480118939	6787	26-7080	22,995.31	22,995.31
ARAMARK	EMPLOYEE UNIFORMS	04/17; 04/24	6788	7025	835.84	835.84
BRENNTAG	PLANT CHEMICALS	MULTIPLE	6789	8050	23,058.70	23,058.70
CARQUEST	AUTOMOTIVE	7314-1368725	6790	8032	50.17	50.17
CITY OF ARROYO GRANDE	AGENCY BILLING	JANUARY TO MARCH 2023	6791	7073	5,474.00	5,474.00
COASTAL JANITORIAL	STRUCTURE MAINTENANCE	APRIL 2023	6792	8061	775.00	775.00
CROMER INC	EQUIPMENT MAINTENANCE	FORK LIFT	6793	8030	1,418.25	1,418.25
CULLIGAN CCWT	RENTAL EQUIPMENT	80791	6794	7032	60.00	60.00
EVERYWHERE RIGHT NOW	COMPUTER SUPPORT	MAY 2023	6795	7082	100.00	100.00
FED EX	CHEMICAL ANALYSIS	MULTIPLE	6796	7078	455.74	455.74
GSOLUTIONZ	COMMUNICATIONS	232075	6797	7013	426.23	426.23
INTERSTATE BATTERIES	EQUIPMENT MAINTENANCE	10013754	6798	8030	143.25	143.25
JB DEWAR	FUEL	176570; 171885	6799	8020	259.62	259.62
JONES & MAYER	LEGAL COUNSEL	115469	6800	7071	2,466.27	2,466.27
JR FILANC	REDUNDANCY	APPLICATION 24	6801	20-7080	426,548.62	426,548.62
KAREN BRIGHT	BOARD SERVICE	APRIL 2023	6802	7075	100.00	100.00
KEMIRA WATER SOLUTIONS	PLANT CHEMICALS	9017789631	6803	8050	13,102.47	13,102.47
KIMBALL MIDWEST	EQUIPMENT MAINTENANCE	100980279	6804	8030	662.54	662.54
LARRY WALKER ASSOCIATES	PRETREATMENT	00667.01-19	6805	8015	2,514.25	2,514.25
LINDA AUSTIN	BOARD SERVICE	APRIL 2023	6806	7075	100.00	100.00
LINDE GAS & EQUIP	RENTAL EQUIPMENT	03/20/23-04/20/23	6807	7032	44.39	44.39
MCCLATCHY COMPANY	RECRUITMENT	191842	6808	7005	238.00	238.00
MCMaster CARR	EQUIPMENT MAINTENANCE	MULTIPLE	6809	8030	1,087.27	1,087.27
MINERS HARDWARE	EQUIPMENT MAINTENANCE	APRIL 2023	6810	8030	452.15	452.15
MNS ENGINEERS	REDUNDANCY	MARCH 2023	6811	20-7080	93,673.78	93,673.78
NVIRO	SCADA	2801	6812	20-7060	3,281.87	3,281.87
OCS	EQUIPMENT MAINTENANCE	1159	6813	8030	140.29	140.29
OILFIELD ENVIRONMENTAL	CHEMICAL ANALYSIS	2303106	6814	7078	156.00	156.00
PETROLEUM SOLIDS	EQUIPMENT MAINTENANCE	40037	6815	8030	1,320.00	1,320.00
PG&E	ELECTRICITY	03/10/23-04/09/23	6816	7091	13,179.40	13,179.40
READY REFRESH	ADMIN OFFICE	03/25/23-04/24/23	6817	8045	113.90	113.90
REGIONAL GOVT. SERVICES	HUMAN RESOURCES	14847	6818	7076	2,489.71	4,374.36
	RECRUITMENT			7005	1,884.65	
RF MACDONALD CO.	EQUIPMENT MAINTENANCE	338103	6819	8030	3,350.33	3,350.33
RINCON CONSULTANTS, INC.	BIOLOGICAL MONITORING	47339	6820	20-7080	5,621.25	17,276.00
	COASTAL HAZARD MONITORING	47456		19-7020	11,654.75	
SAFETY KLEEN	CHEMICAL ANALYSIS	91655068	6821	7078	285.45	285.45
SM TIRE INC	EQUIPMENT MAINTENANCE	522665	6822	8030	447.66	447.66
SO COUNTY SANITARY	RUBBISH	368.99	6823	7093	368.99	368.99
UMPQUA BANK		APRIL 2023	6824		2,799.99	2,799.99
USA BLUEBOOK	EQUIPMENT MAINTENANCE	343630	6825	8030	67.43	67.43
VALLEY GLASS & MIRROR	EQUIPMENT MAINTENANCE	94656	6826	8030	836.00	836.00
WW GRAINGER	EQUIPMENT MAINTENANCE	MULTIPLE	6827	8030	572.01	572.01
<b>TOTAL</b>					<b>646,626.76</b>	<b>646,626.76</b>

We hereby certify that the demands numbered serially from 050123-6785-to 050123-6827 together with the supporting evidence have been examined, and that they comply with the requirements of the SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT. The demands are hereby approved by motion of the SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT, together with warrants authorizing and ordering the issuance of checks numbered identically with the particular demands and warrants.

BOARD OF DIRECTORS:

DATE:

Chairman

Secretary



# **SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT**

Post Office Box 339, Oceano, California 93475-0339

1600 Aloha, Oceano, California 93445-9735

Telephone (805) 489-6666 FAX (805) 489-2765

[www.sslocsd.org](http://www.sslocsd.org)

## **SUMMARY ACTION MINUTES Meeting of Wednesday, May 3, 2023**

---

### **1. CALL TO ORDER AND ROLL CALL**

Chair Caren Ray Russom called the meeting to order and recognized a quorum.

Present: Caren Ray Russom, Chair, City of Arroyo Grande  
Karen Bright, Vice Chair, City of Grover Beach  
Linda Austin, Director, Oceano Community Services District

District Staff: Keith Collins, District Legal Counsel  
Mychal Jones, District Superintendent  
Amy Simpson, District Bookkeeper/Secretary

### **2. PLEDGE OF ALLEGIANCE**

### **3. AGENDA REVIEW**

**Action:** Approved as presented.

### **4. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON AGENDA**

There was no public comment.

### **5. CONSENT AGENDA:**

**5A. Approval of Warrants**

**5B. Approval of Meeting Minutes of April 5, 2023**

There was no public comment.

**Motion:** Director Austin motioned to approve the Consent Agenda as published.

**Second:** Director Bright

**Action:** Approved unanimously by roll call vote.

## 6. ACTION ITEMS:

### 6A. PUBLIC HEARING TO ADOPT A RESOLUTION OF THE SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT BOARD OF DIRECTORS MAKING CERTAIN FINDINGS WITH RESPECT TO THE COGENERATION REVITALIZATION PROJECT.

Superintendent Mychal Jones presented this report.

The Board had a brief discussion regarding the process and other potential costs. The Board was pleased to bring this project forward.

There was no public comment.

**Motion:** Director Bright motioned to adopt Resolution 2023-446 authorizing the District Administrator to execute a contract for implementation of WWTP Cogeneration Revitalization Project with PG&E/Southland in the amount of \$163,000.

**Second:** Director Austin

**Action:** Approved unanimously by roll call vote.

### 6B. DISTRICT ADMINISTRATOR AND PLANT OPERATIONS REPORT

Superintendent Mychal Jones presented the District Administrator Report. He reported that the Redundancy Project has encountered some delays and that the project is still within budget.

The June 7<sup>th</sup> meeting will be cancelled and there will be a meeting June 21<sup>st</sup>.

Superintendent Jones presented the Operations Report and said during the reporting period of April 1<sup>st</sup>- April 28<sup>th</sup>, the District's facility exceeded its NPDES Permit limit for daily maximum fecal coliform. The Regional Water Quality Control Board has been notified. Report on exceedance is discussed further in this report. All other process values were within Permit limitations.

There was no public comment.

The Board had a brief discussion regarding the cost of the delays of the Redundancy Project and requested an update be brought back at the May 17<sup>th</sup> meeting.

**Action:** The Board received and filed this report.

## 7. BOARD MEMBER COMMUNICATIONS

Superintendent Jones announced that he will be going on an extended leave and introduced Michael Arias as the Interim Superintendent in his absence.

The Board members congratulated Mr. Jones and welcomed Mr. Arias.

**8. ADJOURNMENT:**

6:35 p.m.

***THESE MINUTES ARE DRAFT AND NOT OFFICIAL UNTIL APPROVED BY THE  
BOARD OF DIRECTORS AT A SUBSEQUENT MEETING.***

DRAFT



## **SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT**

Post Office Box 339, Oceano, California 93475-0339

1600 Aloha Oceano, California 93445-9735

Telephone (805) 489-6666 FAX (805) 489-2765

[www.sslocsd.org](http://www.sslocsd.org)

---

### **STAFF REPORT**

**Date:** May 17, 2023

**To:** Board of Directors

**From:** Jeremy Ghent, District Administrator

**Via:** Michael Arias, Interim Plant Superintendent

**Subject:** **REQUEST APPROVAL TO PURCHASE 6 INCH PORTABLE THOMPSON PUMP**

### **RECOMMENDATION:**

1. That the Board of Directors approve and authorize the District Administrator to purchase a Thompson 6" trailer mounted, solids handling bypass pump. Thompson Pump & Manufacturing Co. provided the quote through Sourcewell in the amount of \$55,625.21
2. Authorize staff to dispose of existing 6" pump.

### **BACKGROUND:**

The District has budgeted for the replacement of a 6" trailer mounted, solids handling bypass pump. This 6" trailer mounted pump plays a vital role in plant operations as it is capable of pumping 2,300 GPM useful in draining or transferring water throughout the plant. Its relatively small profile means that it can be moved around the plant using utility carts and can fit into most areas.

### **DISCUSSION:**

Multiple quotes were received for this project, only one met the requirements of the District. R.F. MacDonald's quote was over the budget purchase amount. One Rockwell Engineering quote did not meet criteria based on price and one R.E. quote did not meet criteria based on horsepower requirements. Both MuniQuip LLC quotes did not meet criteria based on horsepower requirements. Only the Thompson Pump quote, using the Districts Sourcewell contract was able to meet

the requirement of less than 49 HP and within the approved capital replacement budget.

**FINANCIAL CONSIDERATIONS:**

Capital Replacement Funding for the 6" portable pump is included in the Adopted Budget for Fiscal Year 2022-2023 under Fund 26. Staff recommends that budgeted funds be used for purchase of the 6" portable pump.

**ATTACHMENT:**

Thompson Pump Quote



**Municipal Sales**  
4620 City Center Dr., Port Orange, FL, USA 32129  
(800) 767-7310 • Fax: (386) 61-0362  
[dperry@thompsonpump.com](mailto:dperry@thompsonpump.com)

April 7, 2023

Quote # WCR-DP-133

South San Luis Obispo County Sanitation District  
1600 Aloha Place  
Oceano, CA 93445

PH: 805-489-666  
E: [mychal@sslocsd.us](mailto:mychal@sslocsd.us)

RE: FY2023 Portable Thompson Pump Model 6JSCEE-

Attn: Mychal Jones

Thank you for your interest in Thompson Pump & Manufacturing and the products and the services that we provide.

Per your request, we are providing FY2023 Sourcewell Contract pricing for (1) Thompson Pump 6JSCEE-DIST-4LE2T-MC, a 6" Trailer-Mounted, High Efficiency, By-Pass Pump with Silent Knight Enclosure and a Final Tier 4 Isuzu 4LE2T diesel engine. As discussed, this pump will be capable of moderate flows at low-medium pressures. A specification sheet has been provided to confirm performance requirements.

Sourcewell serves as a National Municipal Contracting Agency which enables SSLOCSD to avoid the hassle and expense of purchasing this pump through the public bid process. Sourcewell facilitates a competitive bidding process on behalf of its members' establishing a legal contract pathway which allows you to choose the products and equipment you want while saving you time and money. **Our NEW Sourcewell Contract # is: 101221-TPM.** You can also visit on the Sourcewell website at <https://www.sourcewell-mn.gov/node/422511> (copy & paste) to view your county/city. In addition by entering "Thompson Pump" or our contract number (101221-TPM) you may view our information. You can order this pump by simply referencing Sourcewell Contract information on your purchase order:

**South San Luis Obispo County Sanitation District Sourcewell Member #: 159665**  
**Sourcewell Member Since: Feb. 2019**

**Thompson Pump Sourcewell Contract #: 101221-TPM**

**Contract Maturity Date: October 12, 2025**

**Category: Sewer Vacuum, Hydro-Excavation, and Municipal Pumping Equipment with Related Accessories & Supplies**

Should you require further information or have any questions, please feel free to contact me directly.

Sincerely,

David Perry  
Thompson Pump & Manufacturing Co., Inc  
Municipal Sales Manager - Cell: (386) 527-3265  
Email: [dperry@thompsonpump.com](mailto:dperry@thompsonpump.com)



**Municipal Sales**  
4620 City Center Dr., Port Orange, FL, USA 32129  
(800) 767-7310 • Fax: (386) 761-0362  
[dperry@thompsonpump.com](mailto:dperry@thompsonpump.com)

## Sourcewell Contract # 101221-TPM

Description	Qty.	Sourcewell Unit Price	Subtotal
<b>Thompson Pump Model: <u>6JSCEE-DI-4LE2T-M</u></b>  <b>6" Compressor-Assisted, High Efficiency, Solids Handling By-Pass Pump</b> → <b>Size:</b> 6" Male Camlock on Suction x 6" Male Camlock on Discharge → <b>Pump:</b> 2,300 GPM Max; 95' TDH Max → <b>Impeller:</b> 9.5" with 3" Spherical Solids Handling Capability, 71% Best Efficiency Point → <b>Engine:</b> Final Tier 4, Isuzu 4LE2T, 40 HP, in-line, 4-cycle, turbo-charged, electronically-governed, diesel engine. DOC only to meet emission standards. → <b>Priming System: Enviroprime System®</b> incorporates Thompson Pump's compressor-assisted priming system. This system provides reliable and environmentally friendly dry-priming without discharging any waste water outside the priming system, commonly referred to as BLOW-BY. Lifetime warranty on Venturi/Ejector device. → <b>Mounting:</b> Trailer-mounted with modular skid base frame/fuel tank with a 100 US gallons w/ maximum operating time of 74 hours @ 1,800 rpm. Fenders, license plate holder, safety chains, and 3" lunette included. Site Trailer Option changes Model to: 6JSCEE-DIST-4LE2T-M. → <b>RECON 2000 Control Panel:</b> Thompson Pump control panel capable of auto start/stop via 65' non-mercury mechanical floats. → <b>120 Volt/10 Amp Battery Charger:</b> Included → <b>DOT Light Package:</b> Included → <b>Engine Block Heater:</b> Included → <b>Silent Knight®, Sound Attenuated Enclosure:</b> Fully enclosed for protection from the elements and operating noise reduction to 68 dBA at 23 ft. Also allows all access doors to be locked for added protection. Silent Knight Canopy option changes model to: 6JSCEE-DIST-4LE2T-MC. → <b>Standard Equipment:</b> Modular fuel tank base, lifting provision, document box, interior base drain, engine oil drain valve kit, Alternator, radiator, muffler and exhaust stack, engine safety shutdowns, tachometer, hour meter, vacuum gauge, fuel gauge, battery and fuel cap, integral fuel tank cleanouts and drain ports, fuel strainer, fuel gauge and a vacuum gauge, and auto start/stop floats.	1	\$ 41,641.00	\$ 41,641.00
→ <b>Delivery Freight to Oceano, CA :</b>	1		\$ 6,500.00
→ <b>Non-Specified MSRP/List Inflationary Price Increase Effective Q2-FY2023 with Sourcewell Discount Applied</b>	1		\$ 3,724.00
<b>Total Sale Price for (1) 6JSCEE-DIST-4LE2T-MC:</b>			<b>\$ 51,865.00</b>

<ul style="list-style-type: none"> <li>• FOB: PORT ORANGE, FLORIDA</li> </ul>
<ul style="list-style-type: none"> <li>• TERMS: NET 30 DAYS W/ CREDIT APPROVAL</li> </ul>
<ul style="list-style-type: none"> <li>• APPLICABLE SALES TAXES ARE NOT INCLUDED.</li> <li>• PLEASE PROVIDE A COPY OF YOUR TAX-EXEMPT CERTIFICATE AT TIME OF PURCHASE, IF APPLICABLE.</li> </ul>
<ul style="list-style-type: none"> <li>• NO PENALTIES OR LIQUID DAMAGES ARE ACCEPTABLE</li> </ul>
<ul style="list-style-type: none"> <li>• THIS QUOTE IS VALID FOR 30 DAYS</li> </ul>
<ul style="list-style-type: none"> <li>• DELIVERY IN 40+ WEEKS OR SOONER AFTER RECEIPT OF ORDER.</li> </ul>
<ul style="list-style-type: none"> <li>• FREIGHT: INCLUDED IN TOTAL SALE PRICE ABOVE. PLEASE NOTE: FREIGHT CHARGE MAY BE AVOIDED IF SHIPPED WITH 18" PUMP.</li> <li>• DELIVERY FREIGHT CHARGES ARE BEING QUOTED BASED ON DATE OF QUOTE. FREIGHT RATE IS SUBJECT TO CHANGE WITHIN 10 DAYS OF SHIPMENT.</li> </ul>



## **SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT**

Post Office Box 339, Oceano, California 93475-0339

1600 Aloha Oceano, California 93445-9735

Telephone (805) 489-6666 FAX (805) 489-2765

[www.sslocsd.org](http://www.sslocsd.org)

---

### **STAFF REPORT**

**Date:** May 17, 2023

**To:** Board of Directors

**From:** Jeremy Ghent, District Administrator

**Via:** Michael Arias, Interim Plant Superintendent

**Subject:** **REQUEST APPROVAL TO PURCHASE 12 MGD EMERGENCY  
BYPASS PUMP**

### **RECOMMENDATION:**

1. That the Board of Directors approve and authorize the District Administrator to purchase a new Emergency Bypass Pump. Patriot Products group provided the quote through Rockwell Engineering & Equipment Co. in the amount of \$227,504.06.
2. Authorize Staff to dispose of existing Emergency Bypass Pump.

### **BACKGROUND:**

The District has budgeted for the replacement of a trailer mounted, 12MGD diesel, Emergency Bypass Pump. Quote 1 from Rockwell in the amount of \$227,504.06 was the lowest quote received. This piece of equipment is critical for emergency operation of the plant. In the event of any catastrophic emergency resulting in power loss, this diesel-powered pump would continue to push flow through the plant.

### **DISCUSSION:**

Multiple quotes were received for this project. Quote 1 from Rockwell Engineering & Equipment was for \$227,504.06. Quote 2 from Rockwell Engineering & Equipment was \$318,982.95. The quote from Thompson Pump and Manufacturing Co. was \$263,666.62.

**FINANCIAL CONSIDERATIONS:**

Capital Replacement Funding for the Emergency Bypass Pump is included in the Adopted Budget for Fiscal Year 2022-2023 under Fund 26. Staff recommends that budgeted funds be used for the purchase of a 12MGD Emergency Bypass Diesel Pump.

**ATTACHMENTS:**

Rockwell Engineering & Equipment Co. Quote 1

**ROCKWELL ENGINEERING & EQ. CO., INC.**

2913 El Camino Real STE #337  
Tustin, CA 92782  
(714) 505-9700  
www.rockwellengineering.com

**QUOTE**

ADDRESS	SHIP TO	SHIP VIA	TRUCK	QUOTE	44150
South San Luis Obispo County	South San Luis Obispo County			DATE	03/06/2023
Sanitation District	Sanitation District				
P.O. Box 339	1600 Aloha Place				
Oceano, CA 93445	Oceano, CA 93445				

SHIP METHOD	TERMS
TRUCK	NET 30

ITEM	DESCRIPTION	QTY	COST	TOTAL
TRAILER	MODEL PPGSA1212S17-PPT-1206J-E70TTA - PATRIOT PRIME TRAILER - MODEL SC1212S17L71 PIONEER PUMP - PERKINS 175 HP FINAL TIER 4 DIESEL ENGINE - SOUND ATTENUATED - SEE ATTACHED SPECIFICATIONS.	1	208,125.00	208,125.00
SHIPPING	SHIPPING CHARGES	1	4,000.00	4,000.00
LEAD TIME: 18 - 20 WEEKS FOB: WOODBURN, OR SALES TAX NOT INCLUDED				

QUOTE IS GOOD FOR 30 DAYS

SUBTOTAL	212,125.00
TAX	0.00
TOTAL	<b>\$212,125.00</b>

Accepted By

Accepted Date



Following up on your request for pricing on a Pioneer 12", Sound Attenuated Diesel Driven, DOT Trailer Mounted Pump Package, we are pleased to offer the following:

**PATRIOT PRIME VACUUM ASSISTED ENCLOSED DIESEL DRIVEN PIONEER PUMP PACKAGE:**

**Model: PPGSA1212S17-PPT-1206J-E70TTA**

Pioneer Model; SC1212S17L71-HO, Heavy Duty Frame Mounted Centrifugal Pump

- 12" x 12", Class 150 Flanged Suction and Discharge Connections
- Standard Ductile Iron Pump End Materials of Constructed
- 17.25", CA6Nm Stainless Steel Impeller with 4.00" Solids Handling Capability
- Mechanical Seal with TC vs.SC Faces, Buna-N elastomers & SS Steel Hardware
- 17-4 Ph Stainless Steel Shaft with Oil Lubricated Bearing Frame

Patriot Prime - Dry Prime Vac Assist System

- 50 CFM Capable, Side Mounted Diaphragm Style Vacuum Pump
- 12 inch, Carbon Steel Suction Spool with Priming Chamber Assembly and Isolation Valve
- 12 inch, Discharge Check Valve with a Buna-N Sealing Disc, Reinforced with Nylon & Steel

Perkins Model; 1206J-E70TTA Final Tier 4 Diesel Engine Rated for 175 hp Cont. @ 1800rpm

- Controls Inc, CX-83638-AS, Automatic - Start/Stop Diesel Engine Control panel
- 12-volt, Group 31, 950 CCA, 104 Ah, Heavy Duty Industrial Battery
- Engine Fuel Lines Supplied with 3/8-Inch Quick Disconnect fitting for Auxiliary Tank Connection
- Twin Disc 1.26:1 Mechanical Transmission with SAE 3 Bell Housing & 11.5" Coupler

Enclosed Platform - DOT Trailer Mounted Package

- Pump, Engine & Transmission Mounted on Rigid Platform with 300-gal Integral Fuel Tank with Fuel Cap and Level Gauge
- Center Point Lifting Bail, Pintle Style Tow Ring with Heavy Duty Safety Chains, and 7-Way Electrical Connection
- (1) 12K Tongue Jack and (2) Rear Stabilizing Jacks and (4) Corner Transportation Tie Down Points
- Dual 8,000 LB Strait Torsion Axles with Electric Brakes & Lights with 16" Steel Wheels & Fenders
- Powder Coated Aluminum & Steel Enclosure with Locking Panels & Doors for Access
- Sound Deadening Material Installed on Interior Bulkheads Reduces Mechanical Noise

Entire Package Completely Assembled, Primed & Painted Patriot Gray before Shipment

# Pump Performance Datasheet

Company Name	
Company contact number	
Quote Number	1826380
Project name	Default

Model/Order No.	1212S17
Stages	1
Quantity of pumps in parallel	1
Based on curve number	1212S17-1800 Rev NEW
Saved Date	28 Feb 2023 12:45 PM

## Operating Conditions

Flow, rated	: 8,334.0 USgpm
Head, rated (requested)	: 30.00 ft
Head, rated (actual)	: 29.90 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

## Performance

Speed criteria	: Variable speed
Speed	: 1448 rpm
Impeller dia.	: 17.25 in
Impeller diameter, maximum	: 17.25 in
Impeller diameter, minimum	: 15.00 in
Efficiency	: 49.88 %
NPSH required / margin required	: 17.45 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 4,045 / 13,700 US Units
MCSF	: 3,862.1 USgpm
Head max.	: 167.5 ft
Head rise to shutoff	: 460.15 %
Flow, best eff. point	: 5,995.4 USgpm
Flow ratio, rated / BEP	: 139.01 %
Diameter ratio (rated / max)	: 100.00 %
Head ratio (rated dia / max dia)	: 100.00 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

## Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids concentration, by volume	: 0.00 %
Temperature	: 68.00 deg F
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

## Material

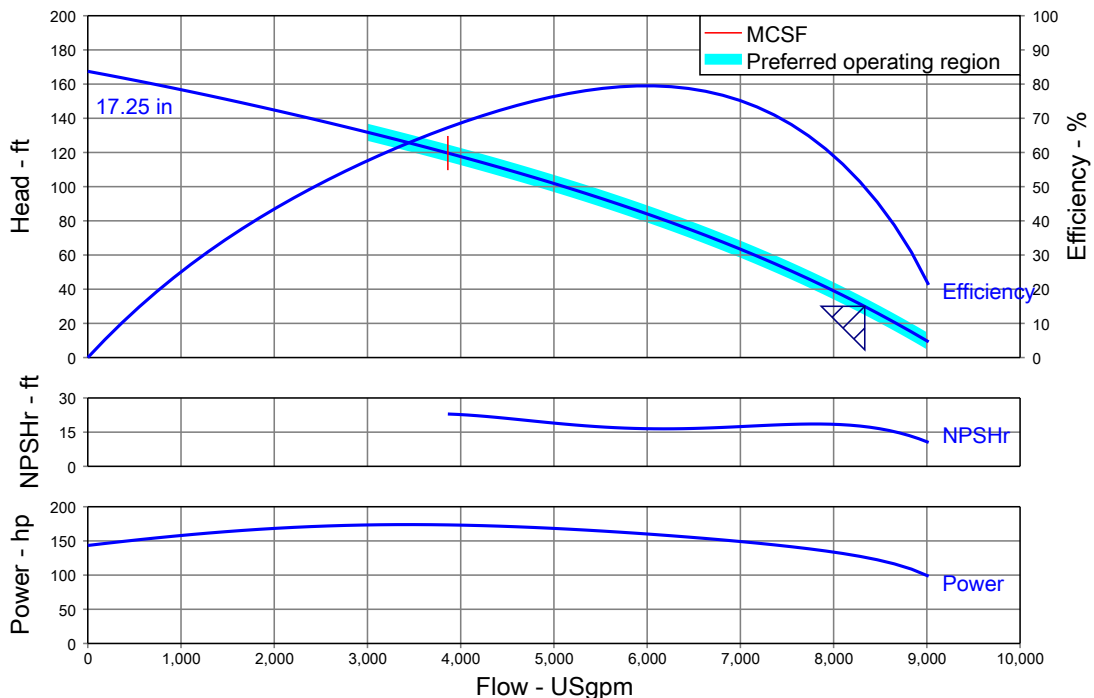
Material selected	: Standard
-------------------	------------

## Pressure Data

Shut off pressure	: 72.48 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

## Driver & Power Data (@Max density)

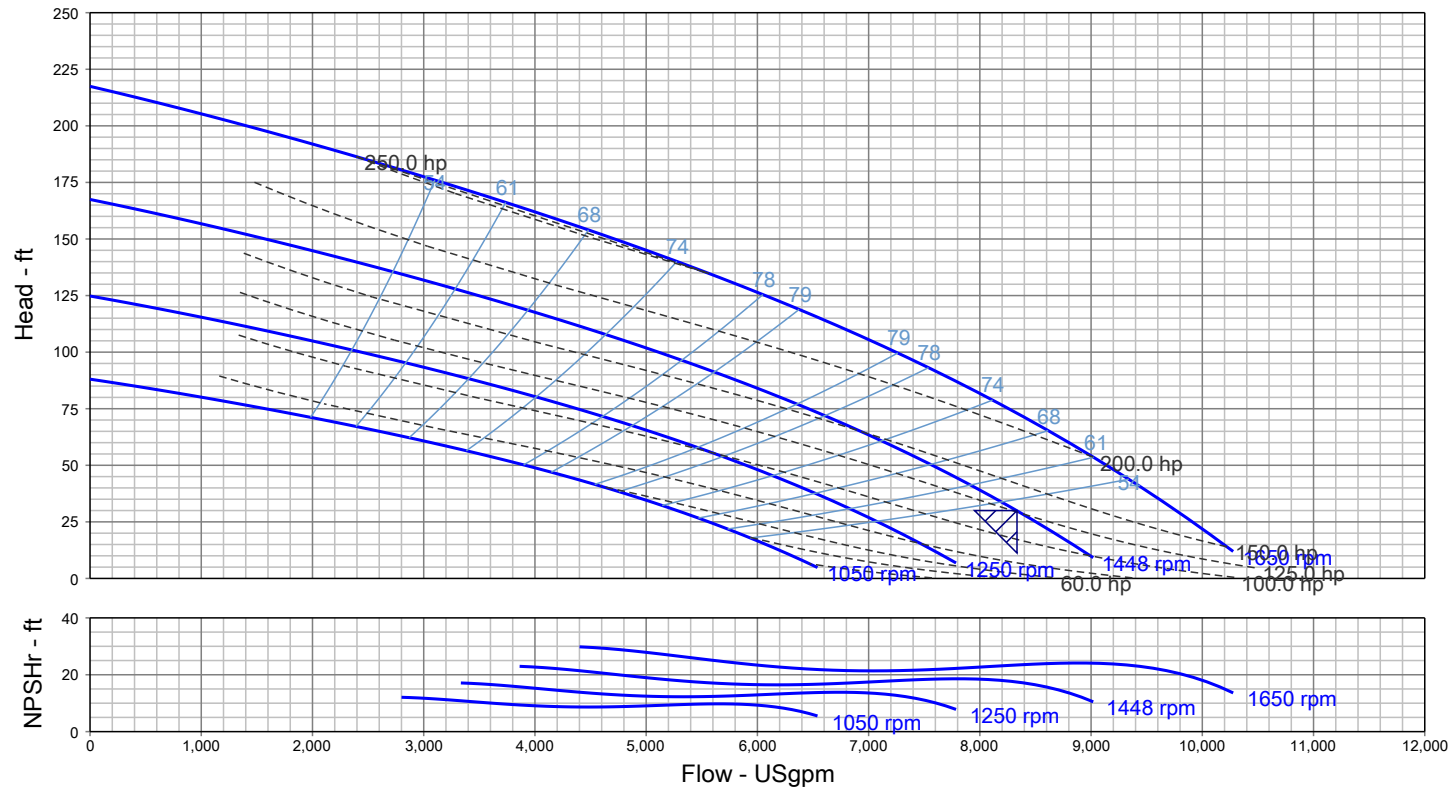
Driver sizing specification	: Maximum power
Margin over specification	: 0.00 %
Service factor	: 1.15 (used)
Power, hydraulic	: 62.90 hp
Power, rated	: 126 hp
Power, maximum	: 174 hp
Motor rating	: 200 hp / 149 kW



# Multi-Speed Performance Curve

Company Name	
Company contact number	

Quote Number	1346427
Quote Date	07 Mar 2021
Project name	Default



Description	: 1212S17
Stages	: 1
Flow, rated	: 8,334.0 USgpm
Head, rated	: 30.00 ft

Speed	: 1448 rpm
Based on curve number	: 1212S17-1800 Rev NEW
Efficiency	: 49.88 %
Power, rated	: 126 hp
Impeller dia.	: 17.25 in

NPSH required	: 17.45 ft
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Saved Date	: 06 Mar 2023 3:55 PM





## STANDARD CENTRIFUGAL SERIES - END SUCTION CENTRIFUGAL PUMP

### PUMP SPECIFICATIONS:

<b>Model:</b>	SC1212S17L71-H
<b>Description:</b>	Bare Shaft, Frame Mounted, Horizontal, Heavy Duty Solids Handling Pump
<b>Size:</b>	12" x 12" Class 150 ANSI Flanges Standard (Class 250 ANSI Flanges Available)
<b>Volute Casing:</b>	ASTM A536 Grade 65-45-12 Ductile Iron, Tangential Discharge with Cleanout, Clockwise Rotation (Viewed from the Driven End)
<b>Wear Ring(s):</b>	ASTM A48 Class 40 Gray Iron
<b>Bracket:</b>	ASTM A48 Class 30/35 Gray Iron
<b>Backplate:</b>	ASTM A536 Grade 65-45-12 Ductile Iron
<b>Mechanical Seal:</b>	Single Type Seal w/ Tungsten Carbide vs. Silicon Carbide Seal Faces, Viton Elastomers, 300 Series Stainless Steel Hardware and Spring (Run Dry Option Available)
<b>Impeller:</b>	Enclosed Type Non-Clog Impeller w/ 3.6" Spherical Solids Handling Capability - Construction of ASTM A744 CA6NM Stainless Steel (Other Materials Available Including: 316 Stainless Steel CD4MCu Stainless Steel, ASTM A536 Grade 65-45-12 Ductile Iron, and Hardened Iron)
<b>Bearing Housing:</b>	ASTM A48 Class 30/35 Gray Iron
<b>Pump End Bearing:</b>	Roller Bearing
<b>Drive End Bearing:</b>	Double Row Angular Contact Bearings
<b>Shaft:</b>	17-4 PH Corrosion Resistant Stainless Steel (Other Metals Available)
<b>Optional Materials:</b>	Special Metals Including: 316 Stainless Steel, CD4MCu Stainless Steel and Hardened Materials



## **PRIMING SYSTEM ASSEMBLY**

Adaptable to your Centrifugal Pump

Retrofit or upgrade your current Priming system  
or replace individual components.

- Purchase an entire priming system or individual system components.
- All drive components designed to fit your current run-dry centrifugal pump. Also available in 316 stainless steel.
- Parts kits available to rebuild your vacuum pumps.



## PRIMING CHAMBER & SUCTION SPOOL

Incorporates Quick-Clamps for accessing three key locations of the Priming Chamber.

Requires NO tools to install, hand tightening only.

Material .....	ASTM A36 Carbon Steel Construction
Service Access.....	Sanitary Clamps with Buna-N Gaskets
Air Valve .....	304 Stainless Steel
Seal, Air Valve.....	Viton
Float Ball & Linkage.....	304 Stainless Steel
Chamber Strainer .....	304 Stainless Steel
Service Access.....	Sanitary Clamps with Buna-N Gaskets
Coatings.....	Quick Dry Metal Primer & Gloss Enamel



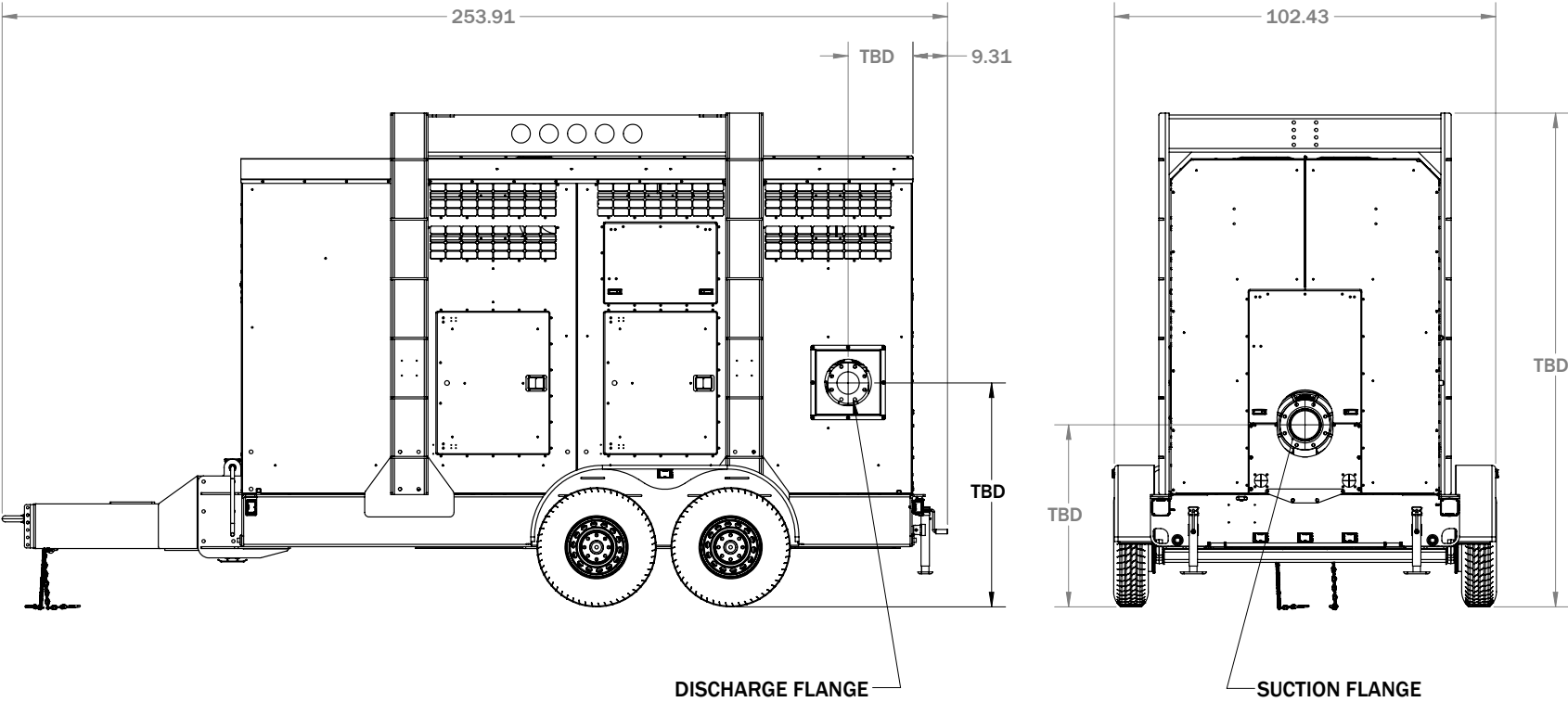
## VACUUM PUMP




Interchangeable Performance/  
Footprint/Parts with Similar  
Designed Models

Air Handling Ability .....	50 C.F.M.
Pump Type .....	Diaphragm Style
Elastomers .....	Buna-N
Standard Const. ....	Cast aluminum upper housing Cast iron crank case & pedestal
Bearings .....	Open Ball Bearings
Lubrication.....	30W, non-Detergent
Air Connections .....	1" Male Hose Barb, Inlet 2" Male Nozzle (Smooth), Exhaust
Drive .....	Timing Belt with Shaft Pulleys

REVISIONS		
REV.	DESCRIPTION	DATE



<div>PROPRIETARY AND CONFIDENTIAL</div> <div>THE INFORMATION CONTAINED IN THIS DRAWINGS</div> <div>THE SOLE PROPERTY OF</div> <div>PATRIOT PRODUCTS GROUP</div> <div>ANY REPRODUCTION IN PART OR AS A WHOLE</div> <div>WITHOUT THE WRITTEN PERMISSION OF PATRIOT</div> <div>PRODUCTS GROUP IS PROHIBITED</div>	PHONE #:		480-977-6184		EMAIL:		engineering@patriotpumps.com		TITLE:		DIM. PAGE EXAMPLE		REVISION#:	
	THICKNESS				INITIALS		DATE		PART #:					
	MATERIAL		DRAWN BY		MG		3/3/2023		DXF NAME:					
	FINISH		None		CHECKED BY				DRAWING #:					
	DIMENSIONS ARE IN INCHES		TOLERANCES:		BEND ± .020		HOLE SIZE ± .005		SHEET 1 OF 1					



# CX-83501-AS PANEL



## Features

- T4F and Stage V Ready
- High Visibility OLED Graphical Display
- TSC1 Throttle Control
- User Friendly Operation
- Manual and Auto Start Operation
- Engine, Pump, Generator
- Telematics and SCADA Ready
- Rugged, Sealed Electronics
- Display up to 24 Parameters
- Eight Relay Outputs
- Eight Digital Inputs
- Four Active Analog Channels
- Three Resistive Sender Inputs
- Speed Capture for MPUs and Tach
- MODBUS and CANBUS onboard

## Controls Inc. releases new Pump Control

Using technological advances in today's advanced micro processors, Controls Inc. is transforming the pumping world with the simplest, most configurable pump control panels on the market. The CX display drives the panel's extensive I/O and allows the most sophisticated, multi-ECU controlled engines to be tamed using proprietary methodology.

Whether you are looking to dewater a job site, transfer water across miles of terrain, or run a bypass and filtration job, the 83501 panel will make your operation a success. Each display has all the tools you will need to easily match the performance to the job required.

Knowing what is happening in the pump end is the key to success. The CX-83501-AS panel is equipped to monitor the inlet and outlet pressures and flow rate. Sump level can also be monitored and used to control the operation of the pump. Engine starting, stopping and speed control can be automated using a single or dual transducer configuration. Of course, single and dual floats can also be used in traditional settings with simple Drain and Fill mode selection.

## Telemetry Ready

Each panel is equipped with a 4G/LTE plug ready connect you to your equipment. Know exactly when, where and how your equipment is being used. Perfect for remote trouble shooting and operation.

**GENERAL SPECIFICATIONS**

CONTROLLER	CX-83501-AS
OPERATING VOLTAGE	6-32 VDC
POWER COMSUMPTION	300mA Nominal; 40mA Standby.
OPERATING AND STORAGE TEMP	-40C to +85C; Fully visible and readable with no degradation.
DISPLAY	OLED 3.12" 256x64 Graphical, up to 24 parameters displayed across 3 screens. Custom Logo at power up available.
ENCLOSURE	Polycarbonate, Lockable, Tinted Cover, Vented 11.4"H x 9.4"W x 6.1"D
ENGINE HARNESS INTERFACE	HDP26-24-21SE, Engine Power, Control and Signal circuits.
AUXILIARY I/O INTERFACE	HDP26-24-31SE; Suction and Discharge Pressure, Modbus and I/O.
SINGLE/DUAL FLOAT INTERFACE	Deutsch 4 Pin, Drain or Fill Modes.
LEVEL AND FLOW INTERFACE	Located in the Auxiliary I/O interface



CAN BUS	(1) J1939 2.0B, 250 kbps	TELEMETRY INTERFACE	12 Pin Deutsch
MOD BUS	(1) RS485, Configurable	EXPANDABLE I/O	XCAN-IO-644
INPUTS	(3) Resistive, (8) Digital, (4) 4-20mA, (1) Speed Capture	ALARM AND EVENT LOGS	32 Events with time and date stamp
OUTPUTS	(2) 10 Amp, (6) 5 Amp	KEYPAD	(12) Rubberized, Stainless Steel Domed, Buttons
REAL TIME CLOCK	YES	WEATHER INGRESS	IP67 Electronics
LED INDICATORS	Red, Yellow, Blue, Green	AUTOMATION	Start/Stop and Speed

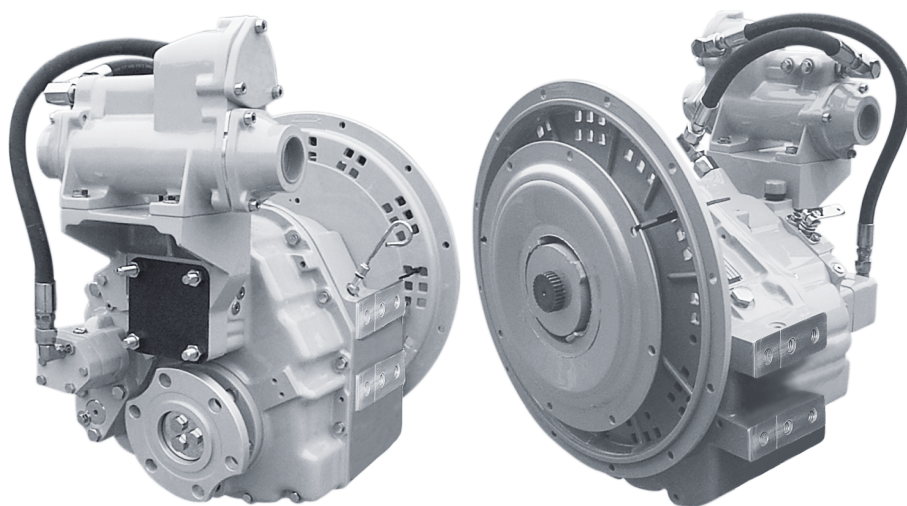
Maximum 425 kW (570 hp) @2500 RPM (PLEASURE CRAFT)

**STANDARD EQUIPMENT****MG-5065SC**

Vertical offset, aluminum housing  
 Mechanical control valve  
 Oil strainer

**MG-5065A**

Vertical offset, aluminum housing  
 7° down angle on output shaft  
 Mechanical control valve  
 Oil strainer

**INPUT RATINGS - KILOWATS (KW) (HORSEPOWER (HP))\***

For service classification definitions and important notes refer to [www.twindisc.com](http://www.twindisc.com), the Twin Disc Marine Product Guide or contact Twin Disc directly.

Reduction Ratios :1	Pleasure Craft @ 2500 RPM	Light Duty @ 2300 RPM	Intermediate Duty @ 2100 RPM	Medium Duty @ 1800 RPM	Continuous Duty @ 1800 RPM
1.08, 1.26, 1.47 1.72, 2.04	425 kW (570 hp)	376 kW (504 hp)	279 kW (374 hp)	227 kW (304 hp)	216 kW (290 hp)
2.43	400 kW (536 hp)	351 kW (471 hp)	254 kW (341 hp)	208 kW (279 hp)	199 kW (267 hp)

\* Ratings shown for use with standard right-hand rotation engines.  
 The maximum allowable rated engine speed is 36000 rpm.



Specifications subject to change without prior notice in the interest of continual product improvement.  
 Contact your local Twin Disc representative for engineering specifications, Survey Society Approvals  
 and Classifications.

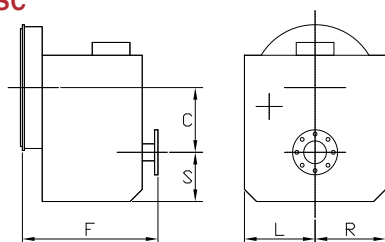
Scan QR code to see Twin Disc's entire Marine product line.



## OPTIONS

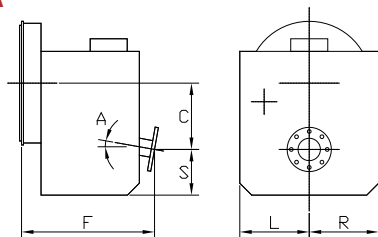
	MG-5065SC	MG-5065A
SAE J617 housing no. 1	X	X
SAE J617 housing no. 2	X	X
SAE J617 housing no. 3	X	X
Flexible coupling for 14" flywheel (SAE J620 size 355)	X	X
Flexible coupling for 11½" flywheel (SAE J620 size 290)	X	X
Input flange for freestanding installation	X	X
Electric control valve (12VDC or 24 VDC)	X	X
Mechanical trolling valve	X	X
Oil cooler with thermostatic bypass valve	X	X
Companion flange/bolts set	X	X
Monitoring devices to customer's specification	X	X
Mounting brackets	X	X
Live PTO		
SAE J744 size 82-2, 16-4 (SAE "A", 2-bolt) – max. 58 Nm	X	X
SAE J744 size 101-2/4, 22-4 (SAE "B", 2/4-bolt) – max. 197 Nm	X	X
SAE J744 size 101-2/4, 25-4 (SAE "B-B", 2/4-bolt) – max. 337 Nm	X	X
Dry weight incl. SAE #2 housing and SAE 290 flexible coupling	111 kg	111 kg

### MG-5065SC



C	152 mm (6.00")
S	133 mm (5.22")
F	338 mm (13.30")
L	254 mm (10.00")
R	165 mm (6.50")

### MG-5065A



C	170 mm (6.69")
S	123 mm (4.84")
F	329 mm (12.97")
L	254 mm (10.00")
R	165 mm (6.50")
A	7°

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

United States of America • Australia • Belgium • Canada • China • India • Italy • Singapore • Switzerland

For nearly a century, we've been making boats perform better and more reliably. From system-design consultation to application development to in-service support, Twin Disc provides fully integrated propulsion solutions that will optimize your craft's performance, reliability and safety over the years. Bring Twin Disc aboard early in the development process, and you'll enjoy a lifetime of enhanced operating value.

TRANSMISSIONS • ELECTRONIC CONTROLS • EXPRESS JOYSTICK SYSTEM® • SAILDRIVES • EXPRESS POSITIONING® • ARNESON SURFACE DRIVES • MARINE CONTROL DRIVES • ROLLA PROPELLERS • BOW & STERN THRUSTERS • STEERING SYSTEMS • RUDDERS • TRIM TABS



Twin Disc, Incorporated  
Racine, Wisconsin 53403 USA  
Phone +1-262-638-4000  
Fax +1-262-638-4482  
www.twindisc.com

TD-Bulletin-MG-5065\_Series  
© 2016, Twin Disc, Incorporated  
Printed in the USA - 1/2016

# 1206J-E70TTA

EU Stage V/U.S. EPA Tier 4 Final  
225 kW @ 2200 rpm

## Industrial Open Power Unit

# 1200

## Series

### Basic technical data

Number of cylinders ..... 6  
Cylinder arrangement ..... Vertical, inline  
Cycle ..... 4 stroke  
Induction system ..... Series turbocharged charge cooled  
Combustion system ..... Direct injection  
Compression ratio ..... 16.5:1  
Bore ..... 105 mm (4.13 inches)  
Stroke ..... 135 mm (5.31 inches)  
Cubic Capacity ..... 7.01 litres (402.8 inches<sup>3</sup>)  
Direction of rotation when viewed from flywheel ..... Anticlockwise  
Firing order ..... 1, 5, 3, 6, 2, 4  
Lifting points location ..... Baseframe  
Mobile used g-load limitations ..... 6g  
Estimated total weight including radiator support brackets  
Dry ..... 1087 kg  
Wet ..... 1124 kg

### Overall dimensions

Height, including radiator support brackets ..... 1474 mm  
Length, front of radiator to rear of air cleaner ..... 1897 mm  
Width ..... 925 mm

### Moments of inertia (GD<sup>2</sup>)

Engine rotational components ..... 0.18255 kgm<sup>2</sup>  
Crank pulley ..... 0.01555 kgm<sup>2</sup>  
Flywheel (D0004) SAE 3 ..... 1.2 kgm<sup>2</sup>  
Flywheel (D0094) SAE 2 ..... 0.89 kgm<sup>2</sup>  
Flywheel (D0093) SAE 1 ..... 2.05 kgm<sup>2</sup>

### Centre of gravity

Forward from rear of block (wet) ..... 483.0 mm  
Above crankshaft centre line (wet) ..... 296.2 mm  
Offset to RHS of crankshaft centre line (wet) ..... 10.2 mm

### Centre of gravity of (engine)

Forward from rear of block (wet) ..... 393 mm  
Above crankshaft centre line (wet) ..... 182 mm  
Offset to RHS of crankshaft centre line (wet) ..... 30 mm

### Performance

All ratings certified to within ..... ± 3%

**Note:** All data based on operation to ISO/TR14396 standard reference conditions.

### Test conditions

Air temperature ..... 25°C  
Barometric pressure ..... 100 kPa  
Relative humidity ..... 10.7%  
Air inlet restriction at maximum power (nominal) ..... 5 kPa  
Exhaust back pressure at maximum power (nominal) ..... 35 kPa  
Fuel temperature (inlet pump) ..... 40°C

### Noise data

Average sound power level for bare engine without inlet and exhaust at 1 metre	@ 2200 rpm	@ 1400 rpm
At rated speed with puller fan	113 dB(A)	104 dB(A)

**Note:** If the engine is to operate in ambient conditions other than those of the test conditions, suitable adjustments must be made for these changes.

For full details, contact Perkins Technical Service Department.

## General installation

Designation	Units	Engine speed rpm					
		1200	1400	1600	1800	2000	2200
Gross engine power	kWm	149	187	206	225	225	225
Brake mean effective pressure	kPa	2128	2284	2203	2141	1925	1751
Cooling fan airflow at zero duct - puller	m <sup>3</sup> /s	3.4	4	4.6	5.2	5.8	6.4
Radiator core resistance	kPa	0.18	0.24	0.3	0.38	0.45	0.54
Fan power absorbtion - puller	kWm	2	3.2	4.8	6.8	9.3	12.4
IOPU Nett engine power <sup>(1)</sup>	kWm	144	181	197	198	196	193
Torque (gross)	Nm	1187	1274	1229	1194	1074	977
Engine coolant flow against 35 kPa restriction	litres/min	197	230	262	294	326	360
Inlet air flow volume (wet)	m <sup>3</sup> /min	8.8	11.1	12.7	15.6	14.6	16.6
Exhaust gas flow (wet)	m <sup>3</sup> /min	8.2	10.3	11.7	14	13.3	14.8
Exhaust gas mass flow (wet)	kg/min	10.6	13.3	15	18	17.1	19
Exhaust gas temperature (exhaust manifold)	°C	634	668	683	664	682	636
Exhaust gas temperature (turbo outlet)	°C	466	492	507	476	513	461
Specific fuel consumption (SFC) gross	g/kWhr	203.3	206.8	211.9	217.4	216.8	222.7
Fuel consumption <sup>(2)</sup>	litres/hour						

1. Gross power less auxiliaries.
2. Figures given for 100% Nett engine power.

### Cautions:

- All engines are to operate between sea level and 1676m and in ambient temperatures between -40°C and +48°C if a canopy is fitted with a 200 Pa air flow restriction without de-rating or specification change (excluding customer-fit cold start aid).
- Maximum ambient temperature increases to +55°C if the canopy air flow restriction does not exceed 120 Pa.

## Energy balance

Designation	Units	1200	1400	1600	1800	2000	2200
Energy in (heat of combustion)	kWt	413	525.4	593.1	668.7	660.7	687.4
Energy to power (gross)	kWm	149.2	186.8	205.9	225.1	224.9	225.1
Energy to cooling fan - puller	kWm	2	3.2	4.8	6.8	9.3	12.4
Energy to power Nett	kWm	147.2	183.6	201.1	218.3	215.6	212.7
Energy to (coolant and lubricating oil) radiator	kWt	84	102	114.5	123.9	127	134.1
Energy to exhaust	kWt	142.7	185.9	214.4	246.7	244.6	254.6
Energy to charge cooler	kWt	19	27.6	32.2	43.9	35.2	43.8
Energy to radiation	kWt	18.1	23.1	26.1	29.1	29	29.8

## Cooling system

### Cooling pack

Overall weight (wet) .....	101.7 kg
Overall face area.....	0.6646 m <sup>2</sup>
Width .....	875.8 mm
Height .....	1088.5 mm

### Radiator

Maximum load on rad assembly from stone guard mounts .....	2.8 kg
Face area .....	0.444 m <sup>2</sup>
Number of rows .....	57
Matrix density .....	10 fins/inch
Width of matrix .....	555 mm
Height of matrix .....	800 mm
Pressure cap setting .....	1 bar

### Charge cooler

Face area .....	0.203 m <sup>2</sup>
Number of rows .....	2
Matrix density .....	13 fins/inch
Width of matrix .....	257.8 mm
Height of matrix .....	789 mm

### Fan

Type .....	Puller
Diameter .....	724 mm
Drive ratio .....	1:1
Number of blades .....	7
Material .....	Composite

### Coolant

Total system capacity .....	24.25 litres
Bare engine capacity .....	12.25 litres
Maximum top tank temperature .....	108°C
Thermostat operation range .....	82 - 94°C

### Recommended coolant

The following two coolants are used in Perkins diesel engines:

**Preferred** - Perkins ELC.

**Acceptable** - A commercial heavy-duty antifreeze that meets "ASTM D6210" specifications.

- 1 The 1200 series industrial engines must be operated with a 1:1 mixture of water and glycol. This concentration allows the NOx reduction system to operate correctly at high ambient temperatures.
- 2 Do not use a commercial coolant/antifreeze that only meets the ASTM D3306 specification. This type of coolant/antifreeze is made for light automotive applications.

Duct allowance - Maximum additional restriction to cooling airflow and resultant minimum airflow					
Description	Units	Engine speed rpm			
		1800	2200	1800	2200
Ambient clearance	°C	55	55	55	55
Duct allowance	kPa	120	120	200	200
Cooling fan airflow	m <sup>3</sup> /min	4.62	5.82	4.27	5.42
Radiator core resistance	kPa	553	791	609	871

## Electrical system

Engine stop method .....

ECM controlled

Alternator model	Unit	Remy 13SI	Remy 13SI
Alternator voltage	Volts	12	24
Alternator output	Amps	120	80

Starter model (+SAE ?)	Unit	Iskra AZF	Denso PA90L	Denso P5
Starter motor voltage	Volts	12	24	12
Starter motor power	kW	4	8	5
Number of teeth on flywheel	SAE 1 D0093	156		
	SAE 2 D0094	134		
	SAE 3 D0004	126	126 <sup>(1)</sup>	126
Number of teeth on starter pinion		10	12	13
Minimum cranking speed	rpm	100		
Starter solenoid - Maximum pull-in current @ 0°C	Amps	68	32	41
Starter solenoid - Maximum hold-in current @ 0°C	Amps	20	14	11

1. 24V SAE 3 Options only compatible with C0067 LHS Starter.

## Fuel injection system

Fuel pump type/model .....	Denso HP4
Injection system .....	Electronic
Injector type .....	Common rail
Injector pressure .....	200 MPa

### Fuel feed

Fuel lift pump type .....	Roller vane
Maximum fuel supply restriction at lift pump in .....	15 kPa
Maximum fuel return restriction at low idle .....	20 kPa
Maximum fuel return flow .....	2.5 litres/min
Maximum lift pump delivery flow rate .....	3.7 litres/min
Maximum/minimum pressure at electric lift pump inlet .....	± 15 kPa
Maximum pump delivery pressure .....	450 kPa
Maximum fuel temperature at lift pump inlet .....	80°C
Maximum fuel filter service interval .....	500 hours

### Fuel specification

BS2869 Class 2 (off highway, gas oil); DIN EN590  
DERV (Class A to F and 0 to 4)

Density .....	0.840 - 0.865 (kg/litres @ 15°C)
Viscosity .....	2 - 3.2 (mm <sup>2</sup> /s @ 40°C)
Sulphur content .....	0.0007 - 0.0015 (% mass)
Cetane No. ....	40 - 0

## Induction system

### Maximum air intake restriction

Clean filter .....	5 kPa
Dirty filter .....	8 kPa
Induction indicator setting .....	8 kPa
Air filter type .....	125 pm

## Cold start recommendations

### Minimum battery cold cranking amps

Air Temp. oil viscosity limit	With glow plugs 12V AZF and P5 bare engine		Without glow plugs 12V AZF bare engine		With glow plugs 24V IMT bare engine		Without glow plugs 24V IMT bare engine		With glow plugs 24V AZF HP bare engine		Without glow plugs 24V AZF HP bare engine	
-5°C	15W40	950	15W40	950	15W40	525	15W40	525	15W40	525	15W40	525
-10°C	15W40	950	15W40	950	15W40	525	15W40	525	15W40	525	15W40	525
-15°C	15W40	1650	15W40	(1)	15W40	680	15W40	(1)	15W40	680	15W40	(1)
-20°C	10W40	1650	10W40	(1)	10W40	680	10W40	(1)	10W40	680	10W40	(1)
-25°C	5W30	1900	5W30	(1)	5W30	750	5W30	(1)	5W30	680	5W30	(1)
Maximum battery CCA.		2400		2400		1400		1400		1200		1200

1. Must use glow plugs.

## Lubrication system

Total system capacity (to include filter, rail and cooler) ... 17.9 litres  
Maximum sump capacity ... 16 litres  
Minimum sump capacity ... 13 litres  
Maximum oil temperature continuous operation ... 125°C  
Maximum oil temperature intermittent operation ... 135°C  
Minimum oil pressure ... 220 kPa  
Sump drain plug tapping size ... 3/4 UNF STOR port  
Oil pump speed/drive method ... Gerotor (gear driven off crankshaft)  
Lubricating oil flow at rated speed ... 60 litres/min  
Oil consumption at full load rated speed ... 0.07% of fuel

## Exhaust system

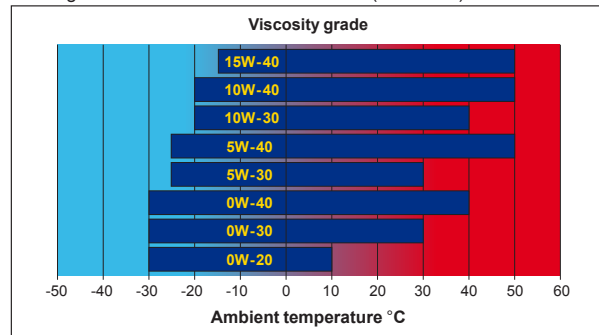
Aftertreatment system type ... DOC, DPF, SCR/AMOX+DEF System  
Type of regeneration (high/low temperature) ... Low  
Aftertreatment height ... 455 mm  
Aftertreatment length ... 733 mm  
Aftertreatment width ... 769 mm  
Aftertreatment weight ... 107 Kg  
Aftertreatment skin temperature ... 250°C  
Maximum Temp. for electronic components on aftertreatment ... 120°C  
Maximum Temp. for external electronic components for aftertreatment (Soot Sensor Box) ... 85°C  
Typical Maximum temperature exhaust out. ... 475°C  
Maximum system back pressure limit for HP 175 - 275/130 - 205 kW ... 49.1 kPa  
Aftertreatment exhaust outlet connection ... 76.2 mm  
Aftertreatment exhaust outlet connection load limit ... 60 Nm  
Attenuation of the DPF ... 25 dB(A)  
Ash service ... NA  
Maximum back pressure for customer installed pipe work ... 5.3 kPa  
DEF to Fuel consumption ratio (approximately) ... 3-4%

## Normal operating angles

Front and rear ... 25°  
Side ... 25°

## Recommended SAE viscosity

A multigrade oil which conforms to API-CJ4 (ACEA-E9) must be used.



## PTO capabilities

Flange type	Standard	Heavy duty
	Various refer to ESM	SAE "B" 13 tooth spline
Torque capability intermittent (Nm)	142	210
Torque capability continuous (Nm)	99	147
Maximum bending moment at flange (Nm)	0	15

**Note:** Refer to "Applications and Installation Manual" for "PTO approval requirements".

## Mountings

Maximum static bending moment at rear face of block	1130 Nm	
Maximum permissible overhung load on the flywheel	See Polar diagram chapter 6 of the ESM	
	Dynamic vertical BM	Dynamic lateral BM
Maximum bending moment at rear of flywheel housing - SAE 3	±3000 Nm	±1700 Nm
Maximum bending moment at rear of flywheel housing - SAE 2	±5600 Nm	±2800 Nm
Maximum bending moment at rear of flywheel housing - SAE 1	±8200 Nm	±5750 Nm

**Note:** Refer to "Applications and Installation Manual" for "Bending Moment approval requirements".



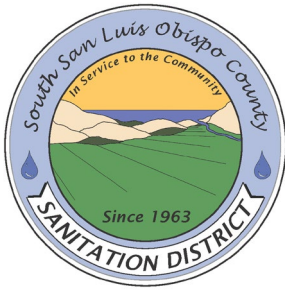
1385 Industrial Ave, Suite-C, Woodburn, OR 97071  
4050 W. Saturn Way, Chandler, AZ 85226  
Phone: 480-977-6184 Website: [www.patriotpumps.com](http://www.patriotpumps.com)

## **PATRIOT PRODUCTS GROUP LLC LIMITED WARRANTY**

**LIMITED WARRANTY:** Seller warrants for two years from the date of shipment Seller's manufactured products to the extent that Seller will replace those having defects in materials or workmanship when used for the purpose and in the manner which Seller recommends. If Seller's examination shall disclose to its satisfaction that the products are defective, and an adjustment is required, the amount of such adjustment shall not exceed the net sales price of the defective products and no allowance will be made for labor or expense of repairing or replacing defective products or workmanship or damage resulting from the same. Seller warrants the products which it sells of other manufacturers to the extent of the warranties of their respective makers. Where engineering design or fabrication work is supplied, buyer's acceptance of Seller's design or of delivery of work shall relieve Seller of all further obligation, other than as expressed in Seller's product warranty.

**THIS IS SELLER'S SOLE WARRANTY. NO OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE MADE OR AUTHORIZED. NO AFFIRMATION OF FACT, PROMISE, DESCRIPTION OF PRODUCT OF USE OR SAMPLE OR MODEL SHALL CREATE ANY WARRANTY FROM MANUFACTURER, UNLESS SIGNED BY THE PRESIDENT OF THE MANUFACTURER.**

Seller neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of its engineering designs or products. This warranty shall not apply to any products or parts of products which (a) have been repaired or altered outside of Seller's factory, in any manner; or (b) have been subjected to misuse, negligence or accidents; or (c) have been used in a manner contrary to Seller's instruction or recommendations. Seller shall not be responsible for design errors due to inaccurate or incomplete information supplied by Buyer or its representative.



## **SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT**

Post Office Box 339 Oceano, California 93475-0339

1600 Aloha Oceano, California 93445-9735

Telephone (805) 489-6666 FAX (805) 489-2765

[www.sslocsd.org](http://www.sslocsd.org)

---

### **STAFF REPORT**

**To:** Board of Directors

**From:** Jeremy Ghent, District Administrator

**Date:** May 17, 2023

**Subject:** **REPORT ON REDUNDANCY PROJECT MATERIAL DELAY IMPACTS**

#### **RECOMMENDATION:**

Receive and file the Report on Redundancy Project Material Delay Impacts

#### **BACKGROUND:**

The District has been working to develop the Wastewater Treatment Plant (WWTP) Redundancy Project, the largest capital improvements project the District has undertaken since the 1986 WWTP Improvements. The project is intended to allow major process units to be removed from service for maintenance or repairs without risking violation of effluent permit limits. The project contract was awarded to J.R. Filanc Construction Company, Inc., (Filanc) in December 2020 and Notice to Proceed was issued January 25, 2021. MNS Engineers, Inc., (MNS) is serving as the Construction Manager, Kennedy/Jenks Consultants, Inc., (Kennedy Jenks) is the Design Engineer, and MKN & Associates, Inc., (MKN) is supporting as the District's Project Manager.

The contract duration was 900 calendar days, approximately two and a half years. During construction, one calendar day was added to the contract through an approved change order and three days were added for multiple rain days beyond what was anticipated in the contract, for a current contract duration of 904 days. Based on the Notice to proceed date (January 25, 2021), the contract completion date is July 18, 2023.

#### **DISCUSSION:**

Since start of construction, the project had been projected to generally be completed on time. The construction schedule would periodically float beyond the contract completion date and pull ahead of the contract completion date by a week or two, as anticipated durations for various construction activities and equipment deliveries changed. MNS and the District's Project Team have been monitoring and discussing these activities and working with Filanc to mitigate various schedule impacts along the way, with a high degree of success overall.

The majority of the "heavy" construction is complete. The concrete structures and buildings are constructed, and the main pipelines and equipment are installed. The new secondary clarifier has

been successfully commissioned and put into service, and rehabilitation of the existing secondary clarifier is nearly complete. The project is moving quickly towards startup and commissioning for the refurbished secondary clarifier, the new aeration basins, and new sludge thickening system. Earlier this year, the project schedule suffered from delays in receiving the equipment for the existing secondary clarifier. Filanc and the District's team worked on various strategies to reduce the overall project impacts. Some of these measures were successful in reducing the overall impact by two to three weeks. However, as of March 2023, Filanc was anticipating substantial completion approximately six weeks past contract completion date (August 21, 2023).

Filanc is currently completing the work on the existing secondary clarifier, installing electrical and coatings at the rotary drum thickeners (sludge thickening system), completing flood-proofing across the WWTP site, and completing the site flat work (gravel, concrete, and asphalt paving).

While this work is underway, Filanc has also been coordinating manufacturer's site visits for equipment startup and training, and working to obtain the remaining materials and equipment required to complete the aeration basin systems. Two pieces of equipment have been delayed – stainless steel isolation valves for air piping and dissolved oxygen probes. Both are being provided as part of the blower equipment package from the blower manufacturer. To comply with the requirements of the USDA loan, the isolation valves need to meet American Iron and Steel (AIS) requirements. The blower equipment package order was submitted in August of 2021 after the equipment submittal was reviewed and returned without exception. After several delivery delays on the equipment, Filanc pursued an alternative manufacturer for the valves in July 2022 but found similar estimated delivery times.

Between December 2022 and April 2023, the manufacturer training for the blowers was scheduled and cancelled four times due to sequential delays in delivery of the air valves and dissolved oxygen probes.

As of the week of May 8, 2023, it appears the dissolved oxygen probes are being sourced and will no longer be on the critical path. The isolation valves, however, are still an outstanding issue. Filanc contacted several representatives at the valve manufacturer and other equipment vendors to try to source the same or equal valves from other locations, without any success. On May 9, 2023, the District submitted a request to USDA for project specific waiver since the AIS-certified stainless steel butterfly valves cannot be sourced for the project. Based on an earlier waiver that was submitted and successful, we anticipate it may take four weeks for approval from USDA. Filanc reported that the lead time for stainless steel valves (non-AIS-certified) is estimated at six weeks.

Additional project delays, beyond the estimated August 2023 completion, could be up to eight weeks due to delays in the startup of the aeration basin. At a total estimated equipment cost of \$16,000, Filanc could choose to order the non-AIS valves now, but it would be at risk that USDA would not approve the waiver, which could reduce project delays by up to four weeks. However, at this time, it appears Filanc is not planning to do so.

The District's project team reviewed the estimated construction schedule and considered the contract terms. Per the contract agreement, Filanc accepted the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time. The Agreement stipulates the Contractor shall pay the Owner \$3,500 for each day that expires after the contract completion date until the work is fully complete. This amount was determined based on the estimated cost to the District for delays in the work (including the time for construction management, engineering, and administration).

Table 1 summarizes the current contract schedule, the estimated construction schedule and liquidated damages based on the latest available construction schedule (dated April 1, 2023), and the estimated impacts due to the anticipated delays for the air valves.

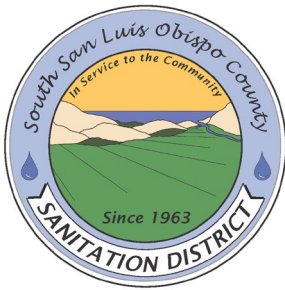
Table 1. Summary of Contract Schedule, Estimated Potential Construction Schedules & Liquidated Damages

<i>Current Contract</i>	
Notice to Proceed	1/25/2021
Contract Duration (days)	904
Contract Completion Date	7/18/2023
<i>Construction schedule dated 4/1/23</i>	
Estimated Schedule Completion	8/28/2023
Contract Overage (days)	41
Liquidated Damages	\$ 143,500
<i>Additional 4 weeks</i>	
Estimated schedule completion	9/25/2023
Contract overage (days)	69
Liquidated Damages	\$ 241,500
<i>Additional 8 weeks</i>	
Estimated schedule completion	10/23/2023
Contract overage (days)	97
Liquidated Damages	\$ 339,500

MKN reviewed historical project costs for construction management, engineering and administration to date. Based on historical invoices and assuming less specialty inspection and engineering will be required during commissioning and project close out, the cost per day is estimated to range between \$3,300 and \$4,000. If costs are on the lower end of the range (averaging \$3,300 per day, the liquidated damages will cover the District's costs. If the cost is actually \$4,000 per day, the cost to the District (beyond liquidated damages) would range between \$34,500 and \$48,500 for 4 to 8 weeks of additional delay.

### **Fiscal Consideration:**

The WWTP Redundancy Project budget and financing plan were updated after bids were received in November 2020. The project is being financed through Certificates of Participation and a loan from USDA Rural Development. Project costs have been consistent with the budget to-date and construction change orders have totaled less than \$408,000 so far, equivalent to 1.5 percent of the construction cost. Contracted Liquidated Damage amounts generally protect the District from incurring substantial costs from the delays. There is adequate budget to continue construction uninterrupted. The project team continues to seek alternative ways to mitigate the schedule impacts.



# **SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT**

Post Office Box 339, Oceano, California 93475-0339  
1600 Aloha, Oceano, California 93445-9735  
Telephone (805) 489-6666 FAX (805) 489-2765  
[www.sslocsd.org](http://www.sslocsd.org)

---

## **STAFF REPORT**

**Date:** May 17, 2023  
**To:** Board of Directors  
**From:** Jeremy Ghent, District Administrator  
**Via:** Michael Arias, Plant Superintendent; and Amy Simpson, Bookkeeper/Secretary  
**Subject:** **2023/24 FISCAL YEAR BUDGET; SET PUBLIC HEARING FOR JUNE 21, 2023**

### **RECOMMENDATIONS:**

1. That the Board Provide Input Regarding the Proposed 2023-24 Fiscal Year (FY) Budget and,
2. Set a Noticed Public Hearing for June 21, 2023.

### **DISCUSSION:**

A draft of the District Budget for Fiscal Year 2023-24 is attached. This budget covers the period of July 1, 2023 to June 30, 2024. Currently the District has a combined cash reserve of \$16,044,658.

The draft budget proposes to meet the operational, maintenance and capital needs of the District. This fiscal year the District will expend all annual revenues along with a portion of the Bond funding for the Redundancy Project. The FY 2023/24 Operation expenses are 2% higher than that of the FY 22/23.

The 2% increase is largely due to two primary factors. The FY 2023/24 Budget includes costs associated with Operating the expanded facility post Redundancy.

1. The new aeration basin blowers consume substantial energy. The FY 2023/24 Budget includes additional budget for higher electricity consumption.
2. During startup of the new process, it is known that chemical demands and laboratory testing will be increased. The FY 2023/24 budget includes the needed budget to meet these expanded demands.

During FY 2022/23 District Staff has coordinated work efforts to limit disruptions to the on-site Redundancy Project work. The first part of FY 2023/24 will require substantial effort from District staff to complete start-up of several major components of the Redundancy Project. In addition to start-up, staff will focus on maintenance and repairs to the District's Trunk Main System along with advancing the design and development of a Cogeneration Unit, completion of a Local Limits Study.

The District's capital program consists of 2 projects during FY 2023/24.

Redundancy Project – FY 2023/24 will complete construction and operational start-up of the Redundancy Project.

SCADA – The FY 2023/24 budget includes \$50,000 for final completion and integration of the District's System Control and Data Acquisition (SCADA) software with the Redundancy project's new equipment. These efforts are focused on integrating control over the existing plant infrastructure with control of the newly constructed process and equipment.

Using past experiences and best professional judgement, the draft budget for fiscal year 2023-24 was prepared using conservative estimates and assumptions, mindful of the need to operate the facility in a safe, cost effective, efficient manner while complying with applicable federal, state and local requirements. Revenue values for wastewater and connection fees were projected based on past revenues.

Tabulated below are summary values extracted from the Consolidated Budget.

### **Consolidated Budget**

#### Revenues by Fund Source

	Fund 19	Fund 20	Fund 26	Totals
Total Revenues	\$ 5,980,000	\$ 163,000		\$ 6,143,000
Use of Bond Funding/Transfer In		\$ 4,174,000		\$ 4,174,000
Total Revenues	\$ 5,980,000	\$ 4,337,000	\$ -	\$10,317,000

#### Expenditures by Fund Source

Total Operating Expenditures	\$ 4,168,000			\$ 4,168,000
Total Capital Outlay	\$ 35,000	\$ 4,337,000	\$ 741,000	\$ 5,113,000
Debt Service	\$ 1,036,000			\$ 1,036,000
Operating Transfers Out/In	\$ 741,000		\$ (741,000)	\$ -
Total Expense	\$ 5,980,000	\$ 4,337,000	\$ -	\$10,317,000

Balanced Budget	\$ -	\$ -	\$ -	\$ -
-----------------	------	------	------	------

## **Fund 19**

Fund 19 revenues are primarily wastewater service charges collected from Arroyo Grande, Grover Beach and Oceano. Other revenues are primarily generated from brine disposal with minor contributions from lease payments and other reimbursements.

Fund 19 supports the following general categories of District activities:

- Salaries and Wages
- Employee Benefits & Other Personnel Costs
- Permits, Fees and Licenses
- Communications and Computer Support
- Administrative Costs, including Professional Services – Advertisements/Recruitment, Insurance Liability, Public Outreach
- Legal Costs
- Engineering
- Coastal Hazards & Monitoring
- LAFCO Budget Share
- Zone 1/1A Agreement
- Agency Billing
- Disposal Services – Solids Handling, Brine Disposal Sampling
- Utilities – Electricity, Gas, Rubbish, Water
- Maintenance, Tools & Replacements – Equipment and Structures Maintenance
- Materials, Services and Supplies – Plant Chemicals, Temporary Labor, Fuel
- Training, Education and Memberships – Professional Certificates/Licenses
- Maintenance, Tools and Replacements: \$257,500
- New Capital Equipment: \$35,000
- Transfer out of Fund 19 Funds to Support Fund 26 Projects - \$741,000

## **Staffing**

The staff roster consists of District Administrator (1), Secretary/Bookkeeper (1), Plant Superintendent (1), Plant Operations Supervisor (1), Plant Senior Operator (1), Laboratory Technician (1), Plant Operator II (4), There are ten (10) full time positions funded in the draft budget.

This budget includes \$185,200 for Temporary Operational Staff that will be necessary as the Redundancy Project is commissioned and brought into service. Temporary staffing will be employed to assist during the 6 weeks of 24/7 startup operations and the first year of new process operations. This expenditure will only occur during FY 23/24 and will not continue beyond.

## **Fund 20**

Fund 20 revenue is provided primarily from connection fees from the three-member agencies. A minor amount of revenue is received from interest on the fund balance account. This fund is the designated fund in support of the redundancy project. Revenues from loans and bonds were received last fiscal year for the Redundancy Project and are listed as account Line-Item titled "Use of Bond Funding".

This fund supports capacity, expansion, and studies.

- Wastewater Redundancy Project: provides \$4,287,000 million to complete FY 23/24 efforts on the Redundancy Project. This number is listed with Capital Equipment which also includes SCADA project.

### **Fund 26**

Fund 26 expenditures are wholly supported by transfers from other funds. The draft budget calls for a transfer from Fund d 26 funds regular capital replacement projects.

#### **Proposed Fund 26 Project Budgets:**

- \$711,000 is proposed under Structure/Grounds Replacement & Improvement.
  - a. Cogeneration Unit
  - b. Influent Slide Gate Install
  - c. Chemical Storage Station
  - d. Demolition of Sludge Thickener
  - e. Chemical Tank Replacement
  - f. Andritz Centrifuge Project
  - g. Plant Light Post Replacement
  - h. Building Lighting
  - i. Sludge Bed Valve Replacement
  - j. Upgrade City Water Project
  - k. Asphalt
- \$30,000 is proposed under Emergency Equipment Repair.

### **Conclusion**

The draft budget emphasizes maintenance and operation of the existing plant, along with construction and start-up of the redundancy project. District revenues continue to meet operations, maintenance, capital replacement, and debt service needs of the District. It is anticipated that the District will conduct a rate study in FY 24/25.

### **Attachments:**

- Attachment 1: Consolidated Budget
- Attachment 2: Notice of Public Hearing

# CONSOLIDATED BUDGET FY 2023-24

		Fund 19 Operating Fund	Fund 20 Expansion Fund	Fund 26 Replacement Fund	Proposed Budget FY 2023/24
<b>Revenues</b>					
Service Charges and Fees		5,725,000			5,725,000
Connection Fees			95,000		95,000
Interest		140,000	68,000		208,000
Use of Redundancy Funding			4,174,000		4,174,000
Brine Revenue		115,000			115,000
<b>Total Revenues</b>		<b>5,980,000</b>	<b>4,337,000</b>	<b>-</b>	<b>10,317,000</b>
<b>Expenditures &amp; Other Uses</b>					
Operating Expenditures					
Salaries and Wages		1,031,800			1,031,800
Employee Benefits and Other Personnel Costs		642,000			642,000
Permits, Fees and Licenses		64,500			64,500
Communications		20,500			20,500
Administrative Costs		286,500			286,500
Legal Costs		60,000			60,000
Engineering		100,000			100,000
Coastal Hazards & Monitoring		75,000			75,000
LAFCO Budget Share		18,000			18,000
Zone 1/1A Agreement		35,000			35,000
Agency Billing		65,000			65,000
Disposal Services		83,000			83,000
Utilities		466,000			466,000
Maintenance, Tools & Replacements		257,500			257,500
Materials, Services and Supplies		914,700			914,700
Training, Education & Memberships		48,500			48,500
<b>Total Operating Expenditures</b>		<b>4,168,000</b>	<b>-</b>	<b>-</b>	<b>4,168,000</b>
<b>Total Other Charges</b>					
Debt Service		1,036,000			1,036,000
<b>Total Other Charges</b>		<b>1,036,000</b>	<b>-</b>	<b>-</b>	<b>1,036,000</b>
<b>Capital Outlay</b>					
Capital Replacement/Maintenance (Fund 26)				741,000	741,000
Capital Equipment		35,000	4,337,000		4,372,000
<b>Total Capital Outlay</b>		<b>35,000</b>	<b>4,337,000</b>	<b>741,000</b>	<b>5,113,000</b>
<b>Other Financing Sources &amp; Uses</b>					
Transfers Out/In Fund 26		741,000		(741,000)	-
Transfers Out/In Fund 20					-
<b>Total Other Financing Sources &amp; Uses</b>		<b>741,000</b>	<b>-</b>	<b>(741,000)</b>	<b>-</b>
Total Funding Source		5,980,000	4,337,000	-	10,317,000
Total Expense		5,980,000	4,337,000	-	10,317,000
<b>Net Change (Deficit)</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Balanced Budget

**NOTICE OF PUBLIC HEARING  
SOUTH SAN LUIS OBISPO COUNTY  
SANITATION DISTRICT  
ADOPTION OF FISCAL YEAR 2023-2024 BUDGET**

**DATE:** June 21, 2023  
**TIME:** 6:00 p.m.  
**PLACE:** Arroyo Grande Council Chambers  
215 E. Branch Street,  
Arroyo Grande CA

**PLEASE TAKE NOTICE:**

1. The District Administrator has prepared a proposed final Budget, which is available for inspection, during regular business hours, 7:30 a.m. to 4:00 p.m., Monday through Friday, at the District Office located at 1600 Aloha Place, Oceano, California.

At 6:00 p.m., on June 21, 2023, South San Luis Obispo County Sanitation District Board of Directors will meet to consider and to adopt the final Fiscal Year 2023-2024 Budget.

2. At the time and place specified in this Notice, any person may appear to be heard regarding any item in the Budget or regarding the addition of any other items.
3. The hearing on the Budget may be continued if necessary.

If you should have questions related to the Budget, please contact Amy Simpson, District Bookkeeper/Secretary, at (805) 481-6903.