

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request** 1005500667  
**Date** 07-APR-2017

**CUSTOMER INFORMATION**

Name: NOAA PMEL - PACIFIC MARINE ENVIRO LAB  
Account : 40279844  
DAVID STRAUZ  
DAVID.STRAUSZ@NOAA.GOV  
206-526-4510

PO Number:  
EA-133M-15-CQ-0039 D0042

**Bill To Address**

7600 SAND POINT WAY NE;  
  
SEATTLE,WA,98115-6349,US

**Ship To Address**

SUPPLY CENTER / RECEIVING;7600 SAND POINT WAY NE,  
BLDG 8;  
SEATTLE,WA,98115,US

**PRODUCT INFORMATION**

**Item:** 03P.LEGACY

**Item Description:** (LEGACY) SBE 03Plus Temperature Sensor

**Serial:** 03P2786

**Special Notes**

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.

**Problems Found:**

The 3-pin bulkhead connector was found to have corrosion damage.

**Services Performed:**

Perform initial diagnostic evaluation.  
Performed "POST" cruise calibration.  
Installed NEW three pin bulkhead connector(s).  
Replaced the O-rings.  
Performed a hydrostatic pressure test.  
Performed a "Final" Calibration.

Item	Item Description	Qty
17653	CONN, 3 PIN BLKHD, 1/2-20, XSG-3BCL-HP-SS	1
CAL_3	SBE 3 TEMPERATURE SENSOR CALIBRATION; 11 POINTS -1 TO 31DEG.C (FRRF)	1
CONCERT/S	CONFIRM AND RECERTIFY MODULAR SENSOR (FRRF)	1
BHCON	EXTRA CHARGE TO REPLACE BULKHEAD CONNECTOR (ANY SENSOR, PUMP OR INSTRUMENT). COST OF CONNECTOR IS ADDITIONAL (SEE PRICE (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 03P.LEGACY

**Item Description:** (LEGACY) SBE 03Plus Temperature Sensor

**Serial:** 03P5584

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 TEMPERATURE SENSOR CALIBRATION; 11 POINTS -1 TO 31DEG.C (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 04C.LEGACY

**Item Description:** (LEGACY) SBE 04C Conductivity Sensor

**Serial:** 748

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C CONDUCTIVITY CALIBRATION FOR CTD SENSORS (INCLUDES 6-POINT 35 PSU POST DEPLOYMENT CAL., AND C&P WITH 6-POINT 35 P (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 04C.LEGACY

**Item Description:** (LEGACY) SBE 04C Conductivity Sensor

**Serial:** 042489

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C CONDUCTIVITY CALIBRATION FOR CTD SENSORS (INCLUDES 6-POINT 35 PSU POST DEPLOYMENT CAL., AND C&P WITH 6-POINT 35 P (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****Date****1005500667**

07-APR-2017

**PRODUCT INFORMATION****Item:** 09P.LEGACY**Item Description:** (LEGACY) SBE 09Plus CTD**Serial:** 91220-A**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

JB5 broken pin JT2, JT3, JT5, JT6 corrosion damage

Services Performed:

Perform initial diagnostic evaluation.

Installed NEW bulkhead connector(s).

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed pressure calibration.

Performed complete system check and full diagnostic evaluation.

Item	Item Description	Qty
17628	CONN, 6 PIN BLKHD, 1/2-20, AG306-HP-SS	4
17653	CONN, 3 PIN BLKHD, 1/2-20, XSG-3BCL-HP-SS	1
CONCERT9B	CONFIRM AND RECERTIFY SBE 9PLUS. INCLUDES OPENING MAIN HOUSING, REPLACING END CAP "PISTON" O-RINGS AND MAKING MINOR INTE (FRRF)	1
BHCON	EXTRA CHARGE TO REPLACE BULKHEAD CONNECTOR (ANY SENSOR, PUMP OR INSTRUMENT). COST OF CONNECTOR IS ADDITIONAL (SEE PRICE (FRRF)	5

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 16.LEGACY**Item Description:** (LEGACY) SBE 16 CT(D)**Serial:** 164208-0658**Special Notes**

Problems Found:

The conductivity cell was found to have been broken.

The anode was found to be near end of life.

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Replaced the conductivity cell.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW anode(s)

Item	Item Description	Qty
SERVICE16	CONFIRM / RECERTIFY SBE 16/16PLUS/16PLUSV2. COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS AND INPUT CHANNEL RESPONSES (FRRF)	1
PCAL16	CHARGE TO CALIBRATE SBE 16/16PLUS/16PLUSV2 PRESSURE CHANNEL (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
80050.1	SEACAT VERT COND. CELL, 6000 M, SUB-ASSY	1
30044	SEACAT ANODE, 1" DIA., G1050	1

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 16P.LEGACY**Item Description:** (LEGACY) SBE 16Plus (V1/V2) CT(D)**Serial:** 16P29504-4287**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

The anti-foulant devices appeared "dirty".

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	CONFIRM / RECERTIFY SBE 16/16PLUS/16PLUSV2. COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS AND INPUT CHANNEL RESPONSES (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2
PCAL16	CHARGE TO CALIBRATE SBE 16/16PLUS/16PLUSV2 PRESSURE CHANNEL (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM24246-1678**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS. CALIBRATE C & T, C&P AND RECAL IF NECESSARY. REPLACE END CAP O-RINGS A (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2



**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM25541-1865**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS. CALIBRATE C & T, C&P AND RECAL IF NECESSARY. REPLACE END CAP O-RINGS A (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM28082-2322**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS. CALIBRATE C & T, C&P AND RECAL IF NECESSARY. REPLACE END CAP O-RINGS A (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM28082-2323**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS. CALIBRATE C & T, C&P AND RECAL IF NECESSARY. REPLACE END CAP O-RINGS A (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM28082-2336**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	EXTRA CHARGE TO CALIBRATE SBE 37 PRESSURE CHANNEL (FRRF)	1
SERVICE37	COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS. CALIBRATE C & T, C&P AND RECAL IF NECESSARY. REPLACE END CAP O-RINGS A (FRRF)	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	2

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2



**SEA-BIRD ELECTRONICS, INC.**  
13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

## SERVICE REPORT

**Service Request  
Date**

**1005500667  
07-APR-2017**

## PRODUCT INFORMATION

**Item:** 38.LEGACY

**Item Description:** (LEGACY) SBE 38 Digital Temperature Sensor

**Serial:** 3834558-0205

### Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Item	Item Description	Qty
CAL_38	SBE 38 TEMPERATURE SENSOR CALIBRATION (FRRF)	1

### Unbilled Items

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 38.LEGACY

**Item Description:** (LEGACY) SBE 38 Digital Temperature Sensor

**Serial:** 3848614-0370

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Item	Item Description	Qty
CAL_38	SBE 38 TEMPERATURE SENSOR CALIBRATION (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****1005500667****Date**

07-APR-2017

**PRODUCT INFORMATION****Item:** 43.LEGACY**Item Description:** (LEGACY) SBE 43 Oxygen Sensor**Serial:** 431875**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 43.LEGACY

**Item Description:** (LEGACY) SBE 43 Oxygen Sensor

**Serial:** 431876

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

No post cal possible, noisy data found.

Sensor appears to have an anode/getter failure.

Services Performed:

Perform initial diagnostic evaluation.

Replaced the lid and membrane assembly.

Replaced the electrolyte with new fluid.

Performed a "Final" Calibration.

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1
801230	SBE43 ANODE SUB-ASSEMBLY / DWG 41092	1
801229	SBE43 GETTER SUB-ASSEMBLY / DWG 41091	1





**SEA-BIRD ELECTRONICS, INC.**  
13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

## SERVICE REPORT

**Service Request  
Date**

**1005500667  
07-APR-2017**

## PRODUCT INFORMATION

**Item:** 43.LEGACY

**Item Description:** (LEGACY) SBE 43 Oxygen Sensor

**Serial:** 43-3200

### Special Notes

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.

Problems Found:  
No problems found

Services Performed:  
Perform initial diagnostic evaluation.  
Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

### Unbilled Items

Item	Item Description	Qty

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 45.LEGACY

**Item Description:** (LEGACY) SBE 45 Micro TSG

**Serial:** 4525553-0026

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

No problems found

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	1
CAL45	EXTRA CHARGE TO CALIBRATE C, T, C&P CELL AND RECAL IF NECESSARY. (FRRF)	1
CONCERT45	CONFIRM AND RECERTIFY SBE 45. COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS AND INPUT CHANNEL RESPONSES. REPLACE MAIN (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	1

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT****Service Request****Date****1005500667**

07-APR-2017

**PRODUCT INFORMATION****Item:** 45.LEGACY**Item Description:** (LEGACY) SBE 45 Micro TSG**Serial:** 4534558-0093**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

The conductivity cell was found to have failed.

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced the conductivity cell.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	1
CAL45	EXTRA CHARGE TO CALIBRATE C, T, C&P CELL AND RECAL IF NECESSARY. (FRRF)	1
CONCERT45	CONFIRM AND RECERTIFY SBE 45. COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS AND INPUT CHANNEL RESPONSES. REPLACE MAIN (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
801066.004	SBE41 ALACE CONDUCTIVITY CELL ASSEMBLY	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	1
233259	SBE45 MICRO TSG SENSOR ENDCAP (ALACE CELL)	1

**SEA-BIRD ELECTRONICS, INC.**

13431 NE 20<sup>th</sup> Street  
Bellevue, Washington 98005 USA

Phone +1-425-643-9866  
Fax +1-425-643-9954  
www.seabird.com

**SERVICE REPORT**

**Service Request**  
**Date**

**1005500667**  
**07-APR-2017**

**PRODUCT INFORMATION**

**Item:** 45.LEGACY

**Item Description:** (LEGACY) SBE 45 Micro TSG

**Serial:** 4548614-0219

**Special Notes**

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Problems Found:

The conductivity cell was found to require cleaning and re-platinization.

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE 801542.1. (FRRF)	1
CAL45	EXTRA CHARGE TO CALIBRATE C, T, C&P CELL AND RECAL IF NECESSARY. (FRRF)	1
CONCERT45	CONFIRM AND RECERTIFY SBE 45. COMPLETE EXTERNAL INSPECTION. TEST ALL FUNCTIONS AND INPUT CHANNEL RESPONSES. REPLACE MAIN (FRRF)	1

**Unbilled Items**

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	1