



## MEMORANDUM

**TO:** BCWD Board of Managers

**FROM:** Aaron DeRusha, WCD

**DATE:** 2/27/2023

**RE:** BCWD Water Monitoring Equipment Repair Request

During the WCD's routine equipment testing procedure, the water stage and velocity sensors for the Stonebridge and Long Lake Inlet II monitoring stations were identified as needing further evaluation from the factory. Unfortunately, the factory has determined that the units are unrepairable and will need to be replaced. The sensors are integral to the function and performance of the stations and pollutant load calculation methods. I am requesting that the BCWD board approve the replacement cost, including extended warranty, of the two sensors at \$1,915.00 each, to be invoiced by the WCD. I have attached the estimate from the factory for review and approval. The sensors are listed as serial numbers 214C01063 and 219D01327 on the repair estimate.

**Requested board action: Approve equipment repair and replacement expenditures as described above, not to exceed \$3,830.00 plus applicable shipping from account 300-4640.**

## Service Order ESTIMATE: 0078441

<b>Bill To:</b> Washington Conservation 455 Hayward Ave. N. Oakdale, MN 55128 United States	<b>Service Address:</b> Washington Conservation 455 Hayward Ave. N. Oakdale, MN 55128 United States
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Contact	Contact Phone	Service Date and Time	RMA
Derusha, Aaron	612-816-7995	3/21/2023 06:00:00 pm	0056632
Teledyne phone number	Teledyne fax number	Teledyne email	
		Lynn.Hennessey@Teledyne.com	

Item Number	Item Description	Qty	Price	Amount
Nature of visit: Low profile sensor 214C01063 "not reading velocity" Has a broken cap strap and small chips on nose of sensor. Sensor fails velocity testing, very low signal strength. Unable to be repaired. Replace sensor.				
Low profile sensor 219D01327 has a cut in the cable exposing internal wires, Sensor passes velocity, linearity, and level stability/drift testing but the cable cannot be repaired. Replace sensor.				
Low				
profile sensor 219D01333 has rodent damage to the cable, and a chunk of potting is missing on corner nose of sensor. Sensor passes velocity, linearity, and level stability/drift testing but the cable cannot be repaired. Replace sensor.				
6712 sampler 207A01914 passes a vacuum test of the case. The liquid detector, distributor, and CPU board all pass diagnostics tests. The attached power cable is in good condition. Two of the dust caps are damaged as well as three dust cap straps. Replace bushings, seals, desiccant, dust covers, pump tube and case desiccant.				
603254021	Replacement low profile sensors 4150/4250 SNSR PRF A	3.00	1,915.00	5,745.00

Serial Number:	Total Parts:	5,745.00
Model:	Total Labor:	0.00
Labor Worked	Total Expense:	0.00
Billable      Non-Billable      Labor Rate	Total Fees:	0.00
	Total:	5,745.00

	<b>Continued***</b>
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**Terms:**      **VALIDITY: 30 Days**      **Service Person: Hennessey, Lynn A**      **Date: 2/21/2023**

- \* Shipping charges and Sales Tax are not included in this estimate, unless otherwise noted.
- \* Purchase order number must be received before service is scheduled.
- \* This is an estimate only and is subject to change if more parts and labor are required. We will need a Purchase Order or other authorization before we can proceed. If actual cost exceeds this estimate the customer will be notified.

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's General Terms and Conditions of Sale, which can be found at the applicable Teledyne company internet website listed below. Teledyne ISCO is a registered business name of Teledyne Instruments, Inc., a subsidiary of Teledyne Technologies Incorporated. Teledyne Ethics Line 1-877-666-6968.

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		Lynn.Hennessey@Teledyne.com	

Item Number	Item Description	Qty	Price	Amount
603003161	Repaired/Calibrated By Label - General Maintenance	1.00	7.62	7.62
Serial: 207A01914	LABEL REPAIR			
603703278	Outer Pump Bushing - General Maintenance	1.00	18.29	18.29
Serial: 207A01914	BSHG PMP KB			
202999903	Lip Seals - General Maintenance	2.00	23.51	47.02
Serial: 207A01914	SEAL .375IDX.750OD			
490001300	Humidity Indicator - Spent	1.00	21.73	21.73
Serial: 207A01914	HMD INDCTR P CARD RV			
099000200	8oz Desiccant Bag - Spent	1.00	12.11	12.11
Serial: 207A01914	DSCC 8OZ BAG			
609004157	Pump Tube - General Maintenance	1.00	49.78	49.78
Serial: 207A01914	QDISC PMP TUBE			
603113024	Dust Cap - Damaged	2.00	22.20	44.40
Serial: 207A01914	CAP CONN PTCTR MDM			
609003291	Dust Cap Straps - Worn	3.00	4.74	14.22
Serial: 207A01914	STRAP CONN CAP			
Fee	Shipping & Handling	1.00	54.00	54.00
Serial: 207A01914				

<b>Terms:</b>	<b>Continued***</b>
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Item Number	Item Description	Qty	Price	Amount
-----				
Serial Number: 207A01914		Total Parts:		215.17
Model: 6712 CONT ONLY KB		Total Labor:		412.50
Labor Worked		Total Expense:		0.00
Billable          Non-Billable	Labor Rate	Total Fees:		54.00
	165.00	Total:		681.67
-----				
Fee	No charge if replaced	1.00	165.00	165.00
Serial: 214C01063				
-----				
Serial Number: 214C01063		Total Parts:		0.00
Model: 4150/4250 SNSR PRF A/V KB		Total Labor:		0.00
Labor Worked		Total Expense:		0.00
Billable          Non-Billable	Labor Rate	Total Fees:		165.00
	0.00	Total:		165.00
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Fee	No charge if replaced	1.00	165.00	165.00
Serial: 219D01327				

<b>Terms:</b>	<b>Continued***</b>
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Item Number	Item Description	Qty	Price	Amount
Serial Number: 219D01327		Total Parts:		0.00
Model: 4150/4250 SNSR PRF A/V KB		Total Labor:		0.00
Labor Worked		Total Expense:		0.00
Billable	Non-Billable	Labor Rate	Total Fees:	165.00
		0.00	Total:	165.00
Fee	No charge if replaced	1.00	165.00	165.00
Serial: 219D01333		Total Parts:		0.00
Model: 4150/4250 SNSR PRF A/V KB		Total Labor:		0.00
Labor Worked		Total Expense:		0.00
Billable	Non-Billable	Labor Rate	Total Fees:	165.00
		0.00	Total:	165.00
*****		Total Labor Worked		5,960.17
		Total Labor:		412.50
		Total Expense:		0.00
		Total Fees:		549.00
		Service Estimate GrandTotal:		6,921.67 USD
*****				

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# QUOTATION

**Quotation From:**

TECH SALES CO.  
311 W. 44TH STREET  
MINNEAPOLIS MN 55409  
Ph: (612) 823-8238 Fx: (612) 823-4272

Page: 1

**Quotation For:**

Washington Conservation District  
455 Hayward Ave N  
Oakdale MN 55128  
Ph: (612) 816-7995 Fx: (651) 330-7747

Quotation#: 2230305  
Revision#:   
Date: 02/28/23

Attn: Aaron DeRusha E-Mail: aderusha@mnwcd.org  
Ref: Isco 750 AV Sensors

**Please Address Order To:**

TECH SALES CO.  
311 W. 44TH STREET  
MINNEAPOLIS MN 55409

FOB: Factory  
Shipment: 4-8 Weeks ARO  
Salesman: Travis DeGroot  
Validity: 30 Days  
Terms: NET 30 DAYS

Item	Qty	Part#/Description	Unit Price	Total Price
1	3	603254021 Low Profile Area Velocity Sensor with 10' range and 25' cable.	1,723.50	5,170.50
***This is to replace SN# 214C01063, 219D01327, & 219D01333 on Service order Estimate 0078441.				
2	1	Warranty Additional 1 year Warranty	191.50	191.50
			<b>Quote Total:</b>	<b>5,362.00</b>

Prices shown do not include freight or sales tax. MasterCard/Visa payments are accepted but may be subject to a 4% surcharge. Please review this quotation and let us know if you have any questions.

By: \_\_\_\_\_  
Travis DeGroot