



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 4

List View

- General Information**
- Contact
- Default Values
- Discount
- Document Information
- Clarification Request

Procurement Folder: 981011

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: FONDRIEST ENVIRONMENTAL INC

Alias/DBA:

Total Bid: \$62,700.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP2200000025

Published Date: 1/26/22

Close Date: 1/27/22

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 4

Total of All Attachments: 4



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Solicitation Response**

**Proc Folder:** 981011  
**Solicitation Description:** Water Quality Sondes with wiper  
**Proc Type:** Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2022-01-27 13:30	SR 0313 ESR01142200000004248	1

**VENDOR**  
 000000174281  
 FONDRIEST ENVIRONMENTAL INC

**Solicitation Number:** CRFQ 0313 DEP2200000025  
**Total Bid:** 62700  
**Response Date:** 2022-01-27  
**Response Time:** 09:30:03  
**Comments:**

**FOR INFORMATION CONTACT THE BUYER**

Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Item 3.1.1 Multiparameter Water Sonde	5.00000	EA	3200.000000	16000.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 577503-00 YSI EXO3s batteryless multi-parameter water quality sonde with 4 sensor ports & 1 wiper port, no depth sensor

**Extended Description:**

4 or 5 port multiparameter water quality sonde with central wiper (Aquatroll 500, or equal)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Item 3.1.2 Sonde Guard	5.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** Included with line 1.

**Extended Description:**

Sonde guard to protect probes and guard weight to minimize drift/movement of unit in water column

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Item 3.1.3 Push Button Handheld Display	5.00000	EA	2850.000000	14250.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599960 YSI EXO handheld display

**Extended Description:**

Push button handheld display for communication with sonde

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Item 3.1.4 Field Cable	5.00000	EA	595.000000	2975.00

Comm Code	Manufacturer	Specification	Model #
26121604			

**Commodity Line Comments:** 599040-4 YSI EXO field cable, 4m.

**Extended Description:**

Minimum 3 meters (approximately 10 feet) in length field cable to connect display to sonde.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Item 3.1.5 pH Sensor	5.00000	EA	575.000000	2875.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 577602 YSI EXO unguarded pH sensor

**Extended Description:**

Display and/or software must be able to show pH millivolts. Must be interchangeable in the field and wet-mateable for easy replacement.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Item 3.1.6 Temperature sensor	5.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** Included with line 7.

**Extended Description:**

Temperature sensor with two (2) decimal place resolution.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Item 3.1.7 Conductivity sensor	5.00000	EA	1700.000000	8500.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599827 YSI EXO wiped conductivity & temperature sensor

**Extended Description:**

Conductivity sensor capable of displaying specific conductance and a range of at least 0-100 mS/cm

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	Item 3.1.8 Optical DO sensor	5.00000	EA	2000.000000	10000.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599100-01 YSI EXO optical dissolved oxygen sensor

**Extended Description:**

Optical DO sensors outfitted with field replaceable cap

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	Item 3.1.9 Turbidity Sensor	1.00000	EA	1850.000000	1850.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599101-01 YSI EXO turbidity sensor

**Extended Description:**

Turbidity sensor capable of displaying in NTU

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	Item 3.1.10 Central wiper with brush-head	1.00000	EA	1250.000000	1250.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599090-01 YSI EXO central wiper

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	Item 3.1.11 Central Wiper Port Plug	4.00000	EA	1250.000000	5000.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** 599090-01 YSI EXO central wiper

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	Item 3.1.12 Sensor Port Plug	4.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
41111965			

**Commodity Line Comments:** Included with line 1.

**Extended Description:**

Sensor Port Plug (if applicable) as only one of these sondes will be outfitted for field use with a Turbidity sensor

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
13	Item 3.1.13 Sonde specific software	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43230000			

**Commodity Line Comments:** Included with line 1.

**Extended Description:**

Sonde specific software to allow viewing of logged, collected data, graphic display, QA/QC, and basic analysis either via hand-held or via PC display

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
14	Shipping	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
78121603			

**Commodity Line Comments:** Free shipping via UPS Ground.

**Extended Description:**

Shipping and Handling



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Centralized Request for Quote  
 Equipment**

<b>Proc Folder:</b> 981011		<b>Reason for Modification:</b>	
<b>Doc Description:</b> Water Quality Sondes with wiper		Addendum #2 issued to revise quantity on Commodity Line 4 from 1 to 5 and extend bid until 1/27/2022.	
<b>Proc Type:</b> Central Purchase Order			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2022-01-26	2022-01-27 13:30	CRFQ 0313 DEP2200000025	3

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:**

**Vendor Name :**

**Address :**

**Street :**

**City :**

**State :** **Country :** **Zip :**

**Principal Contact :**

**Vendor Contact Phone:** **Extension:**

**FOR INFORMATION CONTACT THE BUYER**  
 Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

**All offers subject to all terms and conditions contained in this solicitation**

**ADDITIONAL INFORMATION**

The West Virginia Purchasing Division is soliciting bids on behalf of Department of Environmental Protection - Watershed Assessment Branch, to establish a contract for the one-time purchase of Five (5) Multiparameter Water Quality Sondes with Wiper and guards per the attached specifications and terms and conditions.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Item 3.1.1 Multiparameter Water Sonde	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

4 or 5 port multiparameter water quality sonde with central wiper (Aquatroll 500, or equal)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Item 3.1.2 Sonde Guard	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Sonde guard to protect probes and guard weight to minimize drift/movement of unit in water column

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Item 3.1.3 Push Button Handheld Display	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Push button handheld display for communication with sonde

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Item 3.1.4 Field Cable	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
26121604			

**Extended Description:**

Minimum 3 meters (approximately 10 feet) in length field cable to connect display to sonde.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Item 3.1.5 pH Sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Display and/or software must be able to show pH millivolts. Must be interchangeable in the field and wet-mateable for easy replacement.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	Item 3.1.6 Temperature sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Temperature sensor with two (2) decimal place resolution.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	Item 3.1.7 Conductivity sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Conductivity sensor capable of displaying specific conductance and a range of at least 0-100 mS/cm

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	Item 3.1.8 Optical DO sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Optical DO sensors outfitted with field replaceable cap

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	Item 3.1.9 Turbidity Sensor	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Turbidity sensor capable of displaying in NTU

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	Item 3.1.10 Central wiper with brush-head	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	Item 3.1.11 Central Wiper Port Plug	4.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	Item 3.1.12 Sensor Port Plug	4.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Sensor Port Plug (if applicable) as only one of these sondes will be outfitted for field use with a Turbidity sensor

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	Item 3.1.13 Sonde specific software	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
43230000			

**Extended Description:**

Sonde specific software to allow viewing of logged, collected data, graphic display, QA/QC, and basic analysis either via hand-held or via PC display

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
14	Shipping	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
78121603			

**Extended Description:**

Shipping and Handling

**SCHEDULE OF EVENTS**

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------

**SOLICITATION NUMBER:**  
**Addendum Number:**

---

The purpose of this addendum is to modify the solicitation identified as (“Solicitation”) to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Description of Modification to Solicitation:**

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

# ATTACHMENT A

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: \_\_\_\_\_**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input type="checkbox"/> Addendum No. 1            | <input type="checkbox"/> Addendum No. 6  |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Fondriest Environmental, Inc.

\_\_\_\_\_  
Company



\_\_\_\_\_  
Authorized Signature

1/27/2022

\_\_\_\_\_  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Request for Quote  
 Equipment

<b>Proc Folder:</b> 981011		<b>Reason for Modification:</b>	
<b>Doc Description:</b> Water Quality Sondes with wiper		Addendum #1 issued to publish agency responses to all vendor submitted questions and extend bid due ..... See Page 2 for complete info	
<b>Proc Type:</b> Central Purchase Order			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2022-01-21	2022-01-26 13:30	CRFQ 0313 DEP2200000025	2

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:**  
**Vendor Name :**  
**Address :**  
**Street :**  
**City :**  
**State :** **Country :** **Zip :**  
**Principal Contact :**  
**Vendor Contact Phone:** **Extension:**

**FOR INFORMATION CONTACT THE BUYER**

Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

**Reason for Modification:**

Addendum #1 issued to publish agency responses to all vendor submitted questions and extend bid due date until 1/26/2022.

**ADDITIONAL INFORMATION**

The West Virginia Purchasing Division is soliciting bids on behalf of Department of Environmental Protection - Watershed Assessment Branch, to establish a contract for the one-time purchase of Five (5) Multiparameter Water Quality Sondes with Wiper and guards per the attached specifications and terms and conditions.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON WV US		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON WV US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Item 3.1.1 Multiparameter Water Sonde	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**  
4 or 5 port multiparameter water quality sonde with central wiper (Aquatroll 500, or equal)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON WV US		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON WV US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Item 3.1.2 Sonde Guard	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**  
Sonde guard to protect probes and guard weight to minimize drift/movement of unit in water column

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Item 3.1.3 Push Button Handheld Display	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**  
Push button handheld display for communication with sonde

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Item 3.1.4 Field Cable	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
26121604			

**Extended Description:**  
Minimum 3 meters (approximately 10 feet) in length field cable to connect display to sonde.

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON WV US			ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON WV US		

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Item 3.1.5 pH Sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Display and/or software must be able to show pH millivolts. Must be interchangeable in the field and wet-mateable for easy replacement.

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON WV US			ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON WV US		

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	Item 3.1.6 Temperature sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Temperature sensor with two (2) decimal place resolution.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	Item 3.1.7 Conductivity sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Conductivity sensor capable of displaying specific conductance and a range of at least 0-100 mS/cm

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	Item 3.1.8 Optical DO sensor	5.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Optical DO sensors outfitted with field replaceable cap

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	Item 3.1.9 Turbidity Sensor	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Turbidity sensor capable of displaying in NTU

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	Item 3.1.10 Central wiper with brush-head	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	Item 3.1.11 Central Wiper Port Plug	4.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Central wiper with brush-head to clean all sensors during field use

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV	ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	Item 3.1.12 Sensor Port Plug	4.00000	EA		

Comm Code	Manufacturer	Specification	Model #
41111965			

**Extended Description:**

Sensor Port Plug (if applicable) as only one of these sondes will be outfitted for field use with a Turbidity sensor

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	Item 3.1.13 Sonde specific software	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
43230000			

**Extended Description:**

Sonde specific software to allow viewing of logged, collected data, graphic display, QA/QC, and basic analysis either via hand-held or via PC display

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIV OF WASTE AND WATER MGT 601 57TH ST SE CHARLESTON US	WV		ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MGT 601 57TH ST SE CHARLESTON US	WV	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
14	Shipping	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
78121603			

**Extended Description:**

Shipping and Handling

**SCHEDULE OF EVENTS**

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------

**SOLICITATION NUMBER:**  
**Addendum Number:**

---

The purpose of this addendum is to modify the solicitation identified as (“Solicitation”) to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Description of Modification to Solicitation:**

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

# ATTACHMENT A

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: \_\_\_\_\_**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

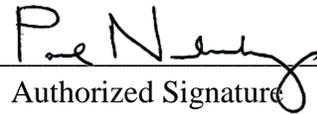
(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

\_\_\_\_\_  
Fondriest Environmental, Inc.

Company

\_\_\_\_\_  
  
Authorized Signature

\_\_\_\_\_  
1/24/2022

Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012

**Questions from vendors for CRFQ DEP 22\*25 Water Quality Sondes**

**Q.1. Line 1 ask for 4 or 5 port multiparameter water quality sonde with central wiper (Aquatroll 500, or equal).**

Can you tell me if your are wanting to measure water level with this sonde? If so what pressure rating are you wanting and did you want a vented or non-vented instrument?

**A. We are not asking for water level capabilities. So a non-vented instrument is acceptable.**

**Q.2. On line 2 you state: Sonde guard to protect probes and guard weight to minimize drift/movement of unit in water column**

The In-Situ automatically come with the restrictor, that can also be used as a calibration cup. Did you still need a price on this even though it is included with the AT 500?

**A. If the restrictor can be used as both guard and calibration cup, then we do not need a price for this item. Also if the restrictor is not lightweight plastic, then a weight is not required.**

**Q.3. On Line 4 you are requesting ONE Minimum 3 meters (approximately 10 feet) in length field cable to connect display to sonde.**

The Aqua Troll 500 is not like the AT 600, so each sonde will need a cable along with the wireless troll com. This will then be able to provide power and collect and transmit data to the handheld device.

Did you want to change this to a quantity of 5, add 5 of the wireless troll com's. so you will not have to wait for the cable to be freed up?

**A. Yes, please change to a quantity of 5. The troll com's will be needed as defined in the specifications.**

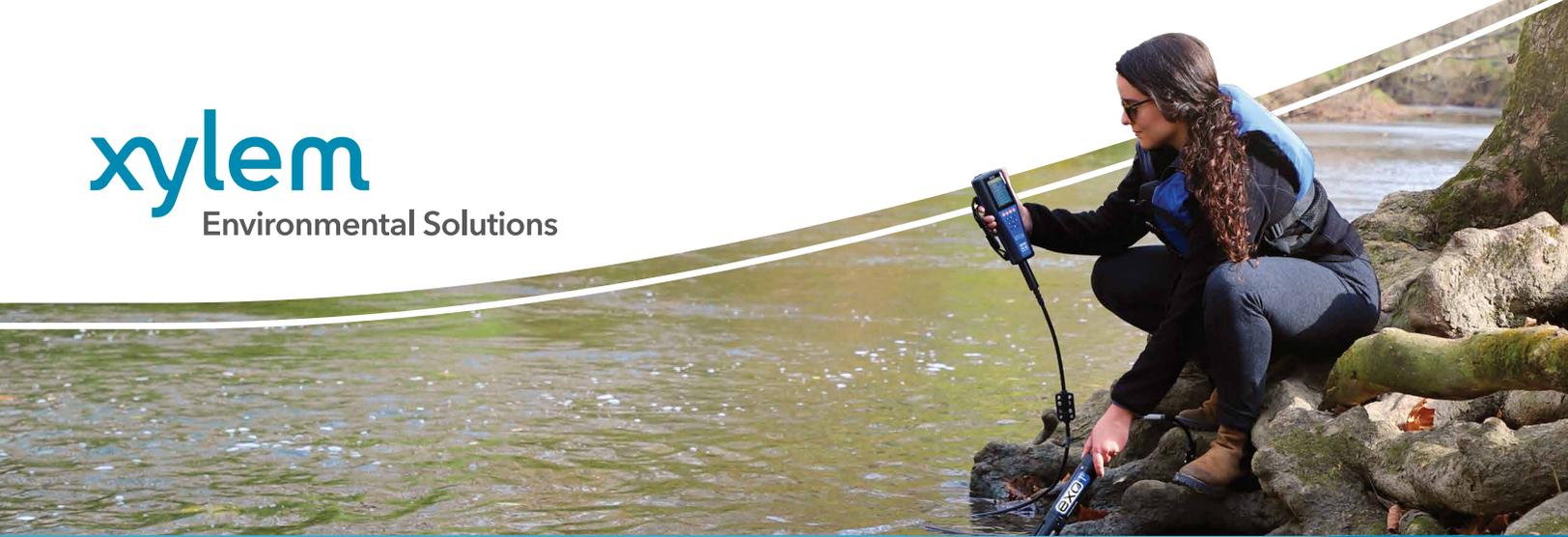
**Q.4. On line 6 & 7 you ask for.6 Temperature sensor with two (2) decimal place resolution.**

**7 Conductivity sensor capable of displaying specific conductance and a range of at least 0-100 mS/cm**

If you order these separately you may run out of ports, especially if you want Turbidity. In-Situ sells this as a combination sensor, where you get both temperature and conductivity on one sensor.

Would it be OK to quote the combo sensor? The combination only takes up one port?

**A. The combo sensor that works with one port is acceptable.**



POWERFUL, PORTABLE MULTIPARAMETER SONDES

### Small sondes with big capabilities!

**EXO-S Series Sondes** provide the same payload and capabilities of YSI's best-in-class EXO Sondes, but in a compact design to go more places.

These batteryless sondes deliver high-quality data and reliable performance in smaller spaces and applications where external power is available. Lighten your load for spot sampling or integration with drones, AUVs, and buoys.

### Discover how smaller size equals greater value!



#### Minimal Size for Maximum Options

Smaller, lighter sondes can be deployed in tight spaces or areas where equipment needs to be hidden



#### Explore Your Environment

Perfect for spot sampling, deployments, or building an AUV or drone system



#### Sustainable and Affordable

A more budget-friendly EXO without alkaline batteries



a xylem brand

# EXO-S Series MULTIPARAMETER SONDES

The **EXO-S Series** are compact, batteryless sondes with the same capabilities and warranty as traditional EXO Sondes. Save time and money by losing the alkaline batteries and integrating directly into a powered system. With up to **40% reduction in length** and **30% reduction in weight\***, EXO-S Sondes are easily customized for your monitoring project. Integrate with a data logger or go out for a full day of sampling with the EXO Handheld and our unmatched range of smart sensors.

\*See Specifications table for full list of dimensions and weight.



EXO-S Series Specifications	
<b>Memory</b>	>1,000,000 logged readings, 512 MB total memory
<b>Software</b>	Kor Software
<b>Communications</b>	
Computer Interface	YSIP via USB Signal Output Adapter (SOA) and Bluetooth
Output Options	All: RS-232 & SDI-12 via DCP-SOA Modbus & RS-485 via Modbus-SOA EXO3 <sup>S</sup> : SDI-12 Native Output
<b>Power Requirement</b> 9 - 16 V	
<b>Temperature</b>	
Operating	-5 to 50 °C (23-122 °F)
Storage	-20 to 80 °C (-4 to 176 °F)
<b>Depth Rating</b> 0 to 250 m (0 to 820 ft)	
<b>Sampling Rate</b> Up to 4 Hz	
<b>Sensor Ports</b>	
EXO1 <sup>S</sup>	4
EXO2 <sup>S</sup>	7 (6 Sensors + 1 Central Wiper)
EXO3 <sup>S</sup>	5 (4 Sensors + 1 Central Wiper)
<b>Sensor Options</b> Conductivity/Temperature, Depth, Dissolved Oxygen, fDOM, ISE Ammonium, ISE Chloride, ISE Nitrate, pH, pH/ORP, Rhodamine, Total Algae (PC or PE), Turbidity, UV Nitrate	
<b>Sonde Dimensions</b>	
EXO1 <sup>S</sup> without depth sensor	Diameter: 4.75 cm (1.87 in) Length (with guard): 44.77 cm (17.63 in)
EXO1 <sup>S</sup> with depth sensor	Diameter: 4.75 cm (1.87 in) Length (with guard): 46.41 cm (18.27 in)
EXO2 <sup>S</sup>	Diameter: 7.62 cm (3.00 in) Length (with guard): 42.87 cm (16.88 in)
EXO3 <sup>S</sup>	Diameter: 7.62 cm (3.00 in) Length (with guard): 42.87 cm (16.88 in)
<b>Sonde Weight (without sensor payload)</b>	
EXO1 <sup>S</sup> without depth sensor	0.48 kg (1.06 lbs)
EXO1 <sup>S</sup> with depth sensor	0.56 kg (1.24 lbs)
EXO2 <sup>S</sup>	1.06 kg (2.34 lbs)
EXO3 <sup>S</sup>	1.06 kg (2.34 lbs)
<b>Warranty</b> 3 years	

SPECIFICATIONS XA00206

YSI, a Xylem brand  
1725 Brannum Lane  
Yellow Springs, OH 45387

+1.937.767.7241  
info@ysi.com  
YSI.com



Who's Minding the Planet?



YSI.com/EXO



breaking the SONDE barrier

SPECIFICATIONS #E116



## EXO Handheld Display

Enhanced interface for the EXO platform.

**In water quality monitoring, instruments must hold up to harsh conditions.** Rain or shine, sleet or snow, your equipment needs to keep up with you.

Introducing the new **EXO Handheld** from YSI, designed and engineered as a dedicated interface to EXO sondes. Log real-time data, calibrate sensors, set-up sondes for deployment, and transfer water quality data to a PC with this feature-packed device. Designed for reliable field use in challenging environmental conditions, this display features a waterproof IP-67, impact-resistant case and wet-mate connector.

### Discover the benefits of the new EXO Handheld:



Lighten the load for long trips into the field with an ergonomic device that feels at ease in your hand while sampling and profiling.



Lower the learning curve of collecting high quality data with a simplified user interface and integrated help screens.



Keep your sensors performing at their best with automatic calibration reminders based on your standard operating procedures.



Build a georeferenced data set using GPS and site tagging functionality for up to 100 locations.



Quickly transfer collected data sets and calibration records to a USB flash drive with the push of a button.



Eliminate the need for alkaline batteries and sample for longer than ever with a powerful, rechargeable Li-Ion battery.

## Additional Features:

Auto-sized dashboard text based on the number of sensors connected to instrument.

USB On-The-Go connector for recharging and transferring data to a USB flash drive or PC.

Color screen and backlit keypad for use day or night

Setup and deploy sondes for continuous, autonomous monitoring of water quality.

Designed exclusively for the EXO platform.

## EXO Handheld Specifications

Size	<b>Instrument:</b> 8.3 cm width x 21.6 cm length x 5.6 cm depth (3.27 in x 8.5 in x 2.21 in)
Weight with Battery	567 grams (1.25 lbs)
Power	Rechargeable lithium-ion battery pack provides ~48 hours if powering the handheld only and ~20 hours if powering the handheld, sonde and four sensors; battery recharge time is ~9 hours with the AC power adapter. The instrument can also be powered via AC or external power pack through the USB port.
Operating Temperature	0 to 50 °C (32 to 122 °F)
Storage Temperature	0 to 45 °C (32 to 113 °F) with battery installed; 0 to 60 °C (32 to 140 °F) without battery installed <b>*Note:</b> Storing Li-Ion batteries in cool environments will help extend their lifespan.
Display	Color, LCD graphic display; 3.9 cm width x 6.5 cm height
USB Port	Built-In micro USB On-The-Go port for PC connection, recharging/powering the handheld and connecting directly to a USB stick.
Warranty	3-year handheld; 1-year Li-ion battery pack
Memory	> 100,000 data sets
Logging Modes	Single point or continuous logging with autostability option
Calibration Records	400 detailed calibration records can be stored and are available to view, download and print for traceability.
Languages	English, Spanish, Portuguese, French, German, Italian, Japanese, Norwegian, Simplified Chinese, and Traditional Chinese
Certifications	CEC, CE; RoHS; IP-67; WEEE; FCC; UN Part III, Section 38.3, Test methods for lithium-ion batteries (Class 9)
GPS	Built-in GPS; coordinates are stored with measurement data and site lists
Sites	Tag recorded data to site list of up to 100 locations.
Barometer	Built-in barometer with available user-calibration. <b>Range:</b> 375 to 825 mmHg; <b>Accuracy:</b> ±1.5 mmHg from 0 to 50 °C; <b>Resolution:</b> 0.1 mmHg; <b>Units:</b> mmHg, inHg, mbar, psi, kPa, atm

## Ordering Information

599960 EXO Handheld Display – Enhanced interface for the EXO platform.



Who's Minding the Planet?™

YSI Inc.  
1725 Brannum Ln  
Yellow Springs, OH 45387

Tel +1.937.767.7241  
800.897.4151  
info@ysi.com

Specifications are subject to change. Please visit YSI.com to verify all specs. © 2016 Xylem, Inc. All rights reserved.



YSI.com/EXO-HH