# SAN ANTONIO WATER SYSTEM PURCHASING DEPARTMENT

**Issued By: Gina Cappa**                                    **Date Issued: February 21, 2019**
**BID NO.: 19-7030**

## FORMAL INVITATION FOR BIDS
## ANNUAL CONTRACT FOR SINGLE GAS AND MULTI GAS DETECTORS AND ACCESSORIES
### Addendum 1

Sealed bids addressed to the Purchasing Department, San Antonio Water System, 2800 US Hwy 281 North, Administration Bldg., 5th Floor, San Antonio, TX 78212 will be received until **3:00 PM, March 4, 2019** and then publicly opened and read aloud for furnishing materials or services as described herein below,

The San Antonio Water System Purchasing Department is willing to assist any bidder(s) in the interpretation of bid provisions or explanation of how bid forms are to be completed. Assistance may be received by visiting the Purchasing Office in the SAWS Main Office, 2800 US Hwy 281 North, San Antonio, TX 78212, or by calling (210) 233-3819.

This invitation includes the following:

Invitation for Bids                                    Specifications and General Requirements
Terms and Conditions of Invitation for Bids            Price Schedule

The undersigned, by his/her signature, represents that he/she is authorized to bind the Bidder to fully comply with the Specifications and General Requirements for the amount(s) shown on the accompanying bid sheet(s). By signing below, Bidder has read the entire document and agreed to the terms therein.

Signer's Name: _____     Firm Name: _____
                (Please Print or Type)

                                                       Address: _____

_____
Signature of Person Authorized to Sign Bid            City, State, Zip Code: _____

Email Address: _____       Telephone No.: _____

                                                       Fax No.: _____
Please complete the following:
Prompt Payment Discount: _____% _____days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:
Ownership of firm (51% or more):
___Non-minority    ____Hispanic    ___African-American    ____Other Minority (specify) _____
___Female Owned ___Handicapped Owned ___Small Business (less than $1 million annual receipts or 100 employees)
Indicate Status:    ___Partnership    ___Corporation    ____Sole Proprietorship    ____Other (specify) _____
Tax Identification Number:_____

**To report suspected ethics violations impacting the San Antonio Water System, please call 1-800-687-1918.**

*Addendum 1 Issued 2/21/19*

***** This **Addendum 1** is issued for Bid 19-7030 to do the following:

1. **Extend the bid due date.**
2. **Provide clarification on end of life products.**
3. **Remove and replace bid specifications.**
4. **Add additional specifications.**
5. **Provide a summary of the Price Schedule changes.**
6. **Provide a revised Price Schedule.**

<p style="color:red; text-align:center; font-weight:bold">IT IS NECESSARY TO RETURN THIS ADDENDUM 1<br>AS PART OF YOUR BID SUBMISSION</p>

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**BID DUE DATE**
The bid due date has been changed from February 27, 2019 to **March 4, 2019** by 3:00 PM.

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**CLARIFICATION**
**Items contained in the bid are going to be end of life in 2019.**

1. **The BW Solo is the replacement for the GasAlert Extreme.**
2. **The BW Ultra is the new 5 gas monitor that will replace the GasAlertMicro 5.**

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**REMOVE AND REPLACE THE BID SPECIFICATIONS WITH THE FOLLOWING:**

600-33 SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

Specifications for Multi-Gas Detector

<u>**Revised JUL 14, 2017**</u>

1. **<u>SCOPE</u>**

This specification covers the Multi-Gas Detector used to measure atmospheric conditions to keep employee's exposures within OSHA acceptable levels for entry into a confined space and to monitor concentrations of select gases, as needed, for specific work operations.

2. **<u>GENERAL REQUIREMENTS</u>**

OSHA: 29 CFR 1910.146; 29 CFR 1910.1000

**Description:**

Hand-held, portable instrument used by employees to measure the atmosphere, prior to and during a confined space entry and other work activities where knowledge of contaminant concentrations is critical.

**Physical Property Data:**

1. The instrument must be certified intrinsically safe by a recognized testing laboratory.
2. The instrument must continuously monitor and simultaneously display gas readings and battery condition.
3. The instrument shall have the design capability to detect and monitor up to five (5) gases: oxygen (%$O_2$), combustible gases (%LEL), hydrogen sulfide ($H_2S$), carbon monoxide (CO) plus one additional gas, if

needed, in the high and low level ranges identified in the OSHA 29 CFR 1910.1000. The additional gas to be monitored is either: Chlorine ($Cl_2$) and Sulfur Dioxide ($SO_2$).

4. The instrument must provide audible, visual and latching alarms along with TWA and STEL, and self-test with sensor fault messages.
5. All alarm signals must be functional regardless of display selected.
6. The instrument must be capable of being bump-tested and calibrated with simple tools included with the product (with only calibration gas and a gas regulator purchased separately).
7. The instrument's physical case shall be of rugged construction, impact resistant, non-corrosive composite material that will prevent spark generation, water resistant, with a stainless steel alligator clip for attaching to the user's clothing and a built-in concussion-proof boot, in safety yellow.
8. Size of the instrument to be less than 16.0 oz. and maximum dimensions of 6.0 inches by 3.0 inches by 2.0 inches.
9. Calibration of the instrument must be fully automatic with Auto Zero and Auto Span functions and must advise as each automatic function takes place and when to apply gas. User settable levels must be "User Settable".
10. One-button activation. "On" function must: Test the battery and advise condition; Display the current alarm set points; Provide a full function self-test of sensor integrity, circuitry integrity, and alarm activation; Automatically calibrate the oxygen sensor or display "$O_2$ calibration off" warning; Advise when the next calibration is due in days, or advise the number of days overdue.
11. Backlight must automatically illuminate the display in all alarm conditions, in low-light conditions and be reactivated on demand.
12. The instrument shall be equipped with rechargeable battery pack (lithium polymer) with a VAC 110 volt slip-in cradle charge.
13. The instrument must be equipped with an integrally motorized pump with at least 5 feet of sampling tubing and a hand held attachable sampling probe with water trap filter and particulate filter, and at least one spare filter of each type included.
14. The instrument warranty shall be a minimum of 2 years from date of purchase.
15. The unit shall include a user operating manual and data logging software.
16. All sensors shall be plug-in, electrochemical cell (toxic and oxygen); catalytic (LEL).
17. The instrument shall simultaneously and continuously display gas concentrations for all installed sensors in (ppm, % LEL, % v/v) for the following:

Four gas monitors shall have the following:

| Gas | Measuring Range | In increments of |
|---|---|---|
| Oxygen | 0-30 % $O_2$ | 0.1% |
| Combustible Gases | 0-100% LEL | 1.0% |
| Hydrogen Sulfide | 0-500 ppm $H_2S$ | 1.0 ppm |
| Carbon Monoxide | 0-500 ppm CO | 1.0 ppm |

Five gas monitors shall have the same capabilities as the four gas monitors with an additional gas measuring range of:

| Gas | Measuring Range | In increments of |
|---|---|---|
| Chlorine | 0-50 ppm $Cl_2$ | 1.0 ppm |
| or | | |
| Sulfur Dioxide | 0- 50 ppm $SO_2$ | 1.0 ppm |

## Accessories Description:

1. Neck strap with safety release

2. Carrying holster that can be attached to a belt

3. Calibration gas cylinders

*Addendum 1 Issued 2/21/19*

4. Confined space kit

5. Replacement sensors for each gas that can be detected

6. Replacement integral motorized pump (as a kit, and as a pump alone)

7. Manual aspirator pump

8. Replacement rechargeable lithium battery pack

9. Replacement cradle charger

**Special Notations:**

SAWS, at no cost to the manufacturer, may subject random units to testing by an independent laboratory for compliance with these specifications. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting the entire order.

## 3. APPROVED MANUFACTURERS AND MODELS

| Manufacturer | Model |
| --- | --- |
| BW Technologies | **Ultra** |

**SPECIFICATIONS**
**600-33 SAN ANTONIO WATER SYSTEM**
**SPECIFICATIONS FOR SINGLE-GAS DETECTOR**
**(Revised DEC 10, 2013)**

1. ## SCOPE

This specification covers the Single-Gas Detector that is used to measure atmospheric hazardous conditions to keep worker's exposures below OSHA permissible exposure levels and NIOSH IDLH levels.

2. ## GENERAL REQUIREMENTS

OSHA: 29 CFR 1910.1000

**Description:**

Hand-held, portable instrument used by personnel to measure the atmosphere during routine cylinder connects and disconnects, and during emergency response situations.

**Physical Property Data: Single Gas BW Detector(CL2 and SO2)**
1. The instrument must be certified intrinsically safe for Class I, Division 1, Group A, B, C, D by a recognized testing laboratory.
2. The instrument must continuously monitor and display gas readings on a screen.
3. The instrument must be capable of detecting either Chlorine Gas (CL2) or Sulfur Dioxide (SO2).
4. The instrument must provide audible, visual and latching alarms along with TWA and STEL, and self-test with sensor fault messages.
5. All alarm signals must be functional regardless of display selected.
6. The instrument must be capable of being bump-tested and calibrated with simple tools included with the product (with only calibration gas and a gas regulator purchased separately), and also capable of calibration with automatic test and calibration station designated for the Multi-Gas Detector.

*Addendum 1 Issued 2/21/19*

7.   The instrument's physical case shall be of rugged construction, impact-resistant, non-corrosive composite material that will prevent spark generation, water resistant, with a stainless steel alligator clip for attaching to the user's clothing and a built-in concussion-proof housing, in safety yellow for CL2 or Black for SO2.

8.   Size of the instrument to be less than 3.0 oz. and maximum dimensions of 1.5in x 2.5in x 4.0in.Calibration of the instrument must be fully automatic with Auto Zero and Auto Span functions and must advise as each automatic function takes place and when to apply gas. User settable levels must be "User Settable".

9.   One-button activation. "On" function must: Test the battery and advise condition; Display the current alarm set points; Provide a full function self-test of sensor integrity, circuitry integrity, and alarm activation; when the next calibration is due in days, or advise the number of days overdue.

10.  Backlight must automatically illuminate the display in all alarm conditions, in low-light conditions and be reactivated on demand.

11.  The instrument warranty shall be a minimum of 2 years from date of purchase.

12.  The unit shall include a user operating manual and data logging software.

13.  Sensor type: Plug-in Electrochemical cells.

14.  The instrument shall monitor and display gas concentrations according to the specifications in the following table (or better):

| Gas | Measuring Range | In Increments of: |
|---|---|---|
| Chlorine | 0 – 50.0 ppm | 1.0 ppm |
| SO2: | 0 – 100.0 ppm | 1.0 ppm |

**Special Notations:**

SAWS, at no cost to the manufacturer, may subject random units to testing by an independent laboratory for compliance with these specifications. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting the entire order.

## 3.   APPROVED MANUFACTURERS AND MODELS

| Manufacturer | Model |
|---|---|
| BW Gas Alert Extreme (CL2) Yellow | Solo |
| BW Gas Alert Extreme (SO2) Black | Solo |

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**ADD THE FOLLOWING SPECIFICATIONS:**

**BW Ultra Specifications**

| | |
|---|---|
| SIZE | 5.8 x 3.3 x 1.6 in. / 14.8 x 8.5 x 4.0 cm |
| WEIGHT | 14.5 oz. / 411 g (with clip) |
| OPERATING TEMPERATURE | -4 to +131° F / -20 to +50° C |
| HUMIDITY | 5 - 95% RH (non-condensing) continuous |
| INGRESS PROTECTION | IP66/68 |
| ALARMS AND TYPE | Visual, vibrating, audible (95 dB); Low, High, TWA, STEL, OL (over limit) |
| SELF-TEST | Activated detectors automatically perform one internal diagnostic test every 24 hours (sensors, battery, and circuitry). |
| TYPICAL BATTERY LIFE | 18 hours (14 hours with PID or IR sensor) @ -4° F / -20° C |
| PUMP DRAW | Sample from up to 75 ft. / 22.9 m |

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| CONNECTED WORKER | Bluetooth™ Low Energy (BLE) – Ability to connect to Honeywell's Safety Communicator App |
|---|---|
| | Honeywell TouchConnect™ – Easy ability to enter Bump or Calibration mode or change Set-Points |
| EVENT LOGGING | 30 alarm events and 10 bump events |
| DATA LOGGING | 45 days based on 8 hour shifts every 15 seconds logging |

| USER OPTIONS | Adjust STEL period (5-15 minutes in 1 minute intervals) |
|---|---|
| | Calibration span levels |
| | Calibration interval |
| | Bump test interval |
| | Select combustible gases measurement: 0-100% LEL (Lower Explosive Limit) or Methane gas 0-5.0% v/v |
| | LEL and PID correction factors |
| | Calibration due date (1 to 365 days, or set to zero for off) |
| | Individual sensor enable/disable |
| | Latching alarms |
| | Stealth mode |
| | Languages: English, French, German, Portuguese, Spanish, Simplified Chinese and Russian |

CERTIFICATIONS AND APPROVALS

Class I, Div 1, Group A, B, C, D
Class I, Zone 0, Group IIC
ATEX: II 1G Ex ia IIC T4 Ga
IECEx: Ex ia IIC T4 Ga

## **BW Ultra Sensor Specifications**

| GASES | STANDARD MEASURING RANGE | RESOLUTION |
|---|---|---|
| OXYGEN (O2) | 0-25% vol. | 0.1% vol. |
| COMBUSTIBLE GASES (LEL) | 0-100% LEL | 1% LEL |
| COMBUSTIBLE GASES (IR)* | 0-5.00% vol. | 0.01% vol. |
| HYDROGEN SULFIDE (H2S) | 0-100 ppm | 1 ppm / 0.1 ppm |
| CARBON MONOXIDE (CO) | 0-2,000 ppm | 1 ppm |
| CARBON MONOXIDE (LOW H2) (CO-H) | 0-1,000 ppm | 1 ppm |
| SULFUR DIOXIDE (SO2) | 0-100 ppm | 0.1 ppm |
| HYDROGEN (H2) | 0-2,000 ppm | 5 ppm |
| CARBON DIOXIDE (CO2) | 0-50,000 ppm | 100 ppm |
| AMMONIA (NH3) | 0-100 ppm | 1 ppm |
| VOLATILE ORGANIC COMPOUNDS (VOC) | 0-1,000 ppm | 1 ppm |
| CHLORINE (CL2) | 0-20 ppm | 0.1 ppm |
| NITROGEN DIOXIDE (NO2) | 0-50 ppm | 0.1 ppm |
| HYDROGEN CYANIDE (HCN) | 0-100 ppm | 0.1 ppm |
| NITROGEN MONOXIDE (NO) | 0-200 ppm | 1 ppm |

**BW Solo Specifications**


| | |
|---|---|
| SIZE | 2.7 x 2.6 x 1.4 in. / 7.0 x 6.7x 3.6 cm (1-Series sensor models) |
| | 2.7 x 2.6 x 1.6 in. / 7.0 x 6.7x 4.1 cm (4-Series sensor models) |
| WEIGHT | 3.6 to 4.1 oz. / 103 to 116 g, depending on installed sensor |
| HUMIDITY | 0% - 95% RH (non-condensing) |
| INGRESS PROTECTION | IP66/68 |
| ALARMS AND TYPE | Visual, vibrating, audible (95 dB); Low, High, TWA, STEL, non-compliance |
| SELF-TEST | Sensor integrity, circuitry, battery and audible/visual alarms on activation; battery (continuous) |
| TYPICAL BATTERY LIFE | 12 months (6 months for 1-Series O2) |
| CONNECTED WORKER | Bluetooth™ Low Energy (BLE) – Ability to connect to Honeywell's Safety Communicator App |
| USER OPTIONS | Reset TWA, STEL and Peak readings |
| | Change High, Low, TWA and STEL alarm setpoints |
| | Latching alarms |
| | Enable IntelliFlash and non-compliance indicators |
| | Set calibration and/or bump test reminders    Assign worker and location assignments |
| | Language select: English, |
| | French, Spanish, German, Italian, |
| | Russian, Japanese, Chinese, Korean, Portuguese, Dutch |


CERTIFICATIONS AND APPROVALS

Class I, Division 1, Groups A, B, C, D  T4
Class I, Zone 0, AEx/Ex ia IIC T4 Ga   -40°C≤ Tamb ≤ 60°C
ATEX: Sira 18ATEX2243
2460 g II  1G Ex ia IIC T4 Ga        g I M1 Ex ia I Ma  -40°C≤ Tamb ≤ 60°C
IECEx: IECEx SIR 18.0058 Ex ia IIC T4 Ga / Ex ia I Ma  -40°C≤ Tamb ≤ 60°C
FCC ID:        SU3BWS1
IC:       20969-BWS1
RED:   RE-D Directive 2014/53/EU

| | |
|---|---|
| WARRANTY | years for 1-Series detectors and sensors (H2S, CO, O2) |
| | years for 4-Series detectors and sensors |
| | (1 year for NH3, Cl2, O3, ETO, ClO2 sensors) |


**BW Solo Sensor Specifications**

| GASES | STANDARD MEASURING RANGE | RESOLUTION | OPERATING TEMP |
|---|---|---|---|
| H2S (1S) | 0-200 ppm | 0.1 ppm | -40 to +140°F /  -40 to +60°C |
| CO (1S) | 0-2000 ppm | 1 ppm | -40 to +140°F /  -40 to +60°C |
| O2 (1S) | 0-30% v/v | 0.1% v/v | -40 to +140°F /  -40 to +60°C |
| CL2 (4S) | 0-50 ppm | 0.1 ppm | -4 to +104°F /  -20 to +40° |
| CLO2 (4S) | 0-1 ppm | 0.01 ppm | -4 to +104°F /  -20 to +40° |
| CO-H (4S) | 0-2000 ppm | 0.5 ppm | -22 to +122°F /  -30 to +50°C |
| ETO (4S) | 0-100 ppm | 0.1 ppm | -22 to +122°F /  -30 to +50°C |

| | | | |
|---|---|---|---|
| H2 (4S) | 0-1000 ppm | 2 ppm | -4 to +122°F / -20 to +50° |
| H2S (EXT. RANGE) (4S) | 0-500 ppm | 0.1 ppm | -40 to +122°F / -40 to +50°C |
| HCN (4S) | 0-100 ppm | 0.1 ppm | -22 to +122°F / -30 to +50°C |
| NH3 (4S) | 0-100 ppm | 1 ppm | -4 to +104°F / -20 to +40° |
| NH3 (EXT. RANGE) (4S) | 0-1000 ppm | 0.1ppm | -4 to +104°F / -20 to +40° |
| NO (4S) | 0-250 ppm | 0.2 ppm | -22 to +122°F / -30 to +50°C |
| NO2 (4S) | 0-100 ppm | 0.1 ppm | -4 to +122°F / -20 to +50° |
| O3 (4S) | 0-1 ppm | 0.01 ppm | -22 to +122°F / -30 to +50°C |
| PH3 (4S) | 0-5 ppm | 0.1 ppm | -4 to +122°F / -20 to +50° |
| SO2 (4S) | 0-100 ppm | 0.1 ppm | -22 to +122°F / -30 to +50°C |
| H2S (4S)* | 0-100 ppm | 0.1 ppm | -40 to +140°F / -20 to +50°C |
| CO (4S)* | 0-1000 ppm | 1 ppm | -40 to +140°F / -20 to +50°C |
| O2 (4S)* | 0-30% v/v | 0.1% v/v | -40 to +140°F / -20 to +50°C |

## BW Ultra IntelliDoX docking station Specifications

| | |
|---|---|
| SIZE | 5.4 x 14.2 x 4.3 in. / 13.8 x 36.2 x 10.9 cm (per docking module) |
| WEIGHT | 4.2 lbs. / 1.91 kg |
| POWER SUPPLY | 12 V / 8.33A ITE |
| EXTERNAL INTERFACE | 1 USB port, 1 ethernet port |
| PUMP Flow rate: | 350 ml/min (independent pump in each module) |
| AUTOMATIC TESTS | FastBump |
| | Standard Bump |
| | Calibration (times dependent on instrument and configuration) |
| | Hibernation |
| INSTRUMENT MANAGEMENT SYSTEM | Honeywell SafetySuite |
| | Fleet Manager II, version 4.4 or higher |
| LCD DISPLAY COLOR CODING | Yellow "TEST", Green "PASS", Red "FAIL" |
| CERTIFICATIONS AND APPROVALS | Certicate of Compliance; CSA/UL 61010-1 (3rd Ed) |
| | EC Declaration of Conformity; EMC Directive & Low Voltage Directive |
| WARRANTY | Full two year warranty |

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## SUMMARY OF PRICE SCHEDULE MODIFICATIONS:

**Part number change from GasAlertMicro 5 monitor to BW Ultra & from GasAlert Extreme to BW Solo.**

- Item 1 – Change Micro 5 - M5-XWCY-R-P-D-Y-N-00 to BW Ultra - HU-X1W1H1M1C1-Y-N – 5 gases: 02, LEL,H2S, CO, Plus CL2 gases
- Item 2 - Change Micro 5 – M5-XWSY-R-P-D-Y-N-00 to BW Ultra – HU-X1W1H1M1S1-Y-N – 5 gases: 02, LEL, H2S, CO, Plus S02 gases
- Item 3 – Change GasAlertMicro 5 Pump – M5-PRB-1 to BW Ultra Replacement pump – HU-PUMP

- Item 4 – Change GasAlertMicro 5 battery M5-BAT08 to BW Ultra battery – HU-BAT
- Item 5 – Change GasAlertMicro 5 - 02 sensor SR-X2V to BW Ultra – 02 sensor – SR-X1-1S
- Item 6 – Change GasAlertMicro 5 – SO2 sensor PS-RS-04 to BW Ultra – SO2 sensor -SR-S1-4R
- Item 7 – Change GasAlertMicro 5 – Dual CO/H2S D4-RHM04 to BW Ultra sold as individual sensors – CO – SR-M1-1S & H2S – SR-H1-1S
- Item 8 – Change GasAlertMicro 5 – CL2 sensor – PS-RC10 to BW Ultra –  CL2 sensor - SR-C1-4R
- Item 9 – Change GasAlertMicro 5 – LEL without filter sensor – SR-W04-UF to BW Ultra – LEL unfiltered sensor – SR-W2-1S
- Item 10 – Change GasAlertMicro 5 – Confined Space Deluxe Kit – M5-CK-DL to BW Ultra – Deluxe Confined Space Kit – HU-CK-DL
- Item 11 – Change GasAlertMIcro 5 – Replacement pump and hose with filters – M5-PUMPB – BW Ultra – no replacement as the BW Ultra filter is internal. Hose and filters sold separately.
- Item 12 – Change GasAlertMicro 5 – Diffusion Cover – M5-DC-1 – BW Ultra – no replacement – BW Ultra is always in pump mode

- Item 13 – Change GasAlertMicro 5 – Replacement cradle charger – M5-CO1 to BW Ultra – Replacement wall outlet charger – GA-PA-1-NA
- Item 14 – Change GasAlertMicro 5 – Neck Strap – GA-NS-1 to BW Ultra – Neck Strap – GA-NS-1
- Item 15 – Change GasAlertMicro 5 – Carrying Holster – GA-HM5 to BW Ultra – Chest Strap – GA-CH-2
- Item 16 – No Change on this item – Probe
- Item 17 – No Change on this Probe filter Kit
- Item 18 – Change GasAlert Extreme CL2 monitor – GAXT-C-DL to BW Solo CL2 – BWS-C-Y
- Item 19 – Change GasAlert Extreme SO2 Black – GAXT-S-DL-B to BW Solo SO2 Black – BWS-S-B
- Item 20 – No change for BW Clip H2S – BWC2-H
- Item 21 – No Change for BW Clip H2S – BWC3-H
- Item 22 – No Change for BW Clip Hibernation case – CLIPHB-CASE
- Item 23 – No Change on IntelliDoX, can be used for H2S, S02, & CL2 (bump test only)
- Item 24 – No Change on Enabler Kit
- Item 25 – No Change on Demand Flow Regulator
- Item 26 – No Change on H2S Calibration Gas
- Item 27 – Change GasAlertMicro 5 – 4 gas monitor – M5-XWOY-R-P-D-Y-N-00 to BW Ultra 4 gas monitor – HU-X1Y1H1M100-Y-N
- Item 28 – Added a – DX-ULTRA and Enabler Kit – DX-ENBL-NA
- Item 29 – Added – Intellidox for Solo Monitor – DX-SOLO
- Item 30 – Added  – Demand Flow Regulator  – REG-DF1

# ADDENDUM 1
# PRICE SCHEDULE

## ESTIMATED DELIVERY

Delivery will be completed within _____ calendar days after receipt of order. (if applicable)

| ITEM | Description BW Technologies | Unit Price | UOM | Est. Annual Usage | Total Price |
|------|---------|---------|-----|------|-------------|
| 1 | Gas Detector Monitor w built-in pump and rechargeable battery for 5 gases: O2, LEL, H2S, CO, PLUS CL2 gases: Each with User Operation Manual & Data Logging Software MFG/Model# **BW Ultra - HU-X1W1H1M1C1-Y-N – 5 gases: 02, LEL,H2S, CO, Plus CL2 gases** | $ | EA | 40 | $ |
| 2 | Gas Detector Monitor w/built-in pump and rechargeable battery for 5 gases: O2, LEL, H2S, CO, PLUS SO2 Each w/ User Operation Manual and Data Logging Software MFG/Model# **BW Ultra – HU-X1W1H1M1S1-Y-N – 5 gases: 02, LEL, H2S, CO, Plus S02 gases** | $ | EA | 40 | $ |
| 3 | BW Technologies Gas Alert Replacement Pump Black MFG/Model# **BW Ultra Replacement pump – HU-PUMP** | $ | EA | 5 | $ |
| 4 | BW Technologies Gas Alert Micro 5 Rechargeable Lithium Polymer Battery Pack (for use with new red circuit boards) Yellow MFG/Model# **BW Ultra battery – HU-BAT** | $ | EA | 5 | $ |
| 5 | BW Technologies Gas Alert Micro 5 Replacement Oxygen (O2) Sensor MFG/Model# **BW Ultra – 02 sensor – SR-X1-1S** | $ | EA | 5 | $ |
| 6 | BW Technologies Gas Alert Micro 5 Replacement Sulfur Dioxide (SO2) Sensor, MFG/Model# **BW Ultra – SO2 sensor -SR-S1-4R** | $ | EA | 5 | $ |
| 7 | BW Technologies Replacement Carbon Monoxide (CO) and H2S Sensor Dual Purpose , MFG/Model # **BW Ultra sold as individual sensors – CO – SR-M1-1S & H2S – SR-H1-1S** | $ | EA | 20 | $ |
| 8 | BW Technologies Gas Alert Micro 5 Replacement Sensor Chlorine MFG/Model # **BW Ultra – CL2 sensor - SR-C1-4R** | $ | EA | 20 | $ |
| 9 | BW Technologies Gas Alert Micro 5 Replacement Combustible (LEL) Sensor without silicone filter, MFG/Model # **BW Ultra – LEL unfiltered sensor – SR-W2-1S** | $ | EA | 5 | $ |
| 10 | Confined Space Deluxe Kit to consist of the following: manual aspirator kit, calibration cap, regulator, sampling probe with holster, detector holster, five spare auxiliary filters and three spare quick connect fittings MFG/Model# **BW Ultra – Deluxe Confined Space Kit – HU-CK-DL** | $ | EA | 5 | $ |
| 11 | BW Technologies Integral Motorized Pump Kit MFG/Model # Change GasAlertMIcro 5 – Replacement pump and hose with filters – **M5-PUMPB – BW Ultra** – no replacement as the BW Ultra filter is internal. | $ | EA | 2 | $ |

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| | | | | | |
|---|---|---|---|---|---|
| 12 | Gas Alert Micro 5 Sensor Diffusion Cover MFG. Model # Change GasAlertMicro 5 – Diffusion Cover – **M5-DC-1** – **BW Ultra** – no replacement – BW Ultra is always in pump mode | $ | EA | 2 | $ |
| 13 | BW Technologies Replacement cradle charger, MFG/Model # **BW Ultra – Replacement wall outlet charger – GA-PA-1-NA** | $ | EA | 5 | $ |
| 14 | Gas Alert Micro 5 Neck Strap with Safety release, MFG/Model # **BW Ultra – Neck Strap – GA-NS-1** | $ | EA | 5 | $ |
| 15 | Gas Alert Micro 5 Carrying Holster, MFG/Model # **BW Ultra – Chest Strap – GA-CH-2** | $ | EA | 5 | $ |
| 16 | Gas Alert Micro 5 Hand Held Sampling Probe MFG Model #BA-PROB1-1 **SAWS #(37073)** | $ | EA | 2 | $ |
| 17 | Gas Alert Micro 5 Probe Filter Spares MFG. Model # GA-PROB-FIL-K1 **SAWS #(37074)** | $ | EA | 2 | $ |
| 18 | Single Gas Detector for CL2 gas: BW Gas Alert Extreme (CL2) Yellow MFG/Model # **BW Solo CL2 – BWS-C-Y** | $ | EA | 25 | $ |
| 19 | Single Gas Detector for SO2 gas: BW Gas Alert Extreme (SO2) Black MFG/Model # **BW Solo SO2 Black – BWS-S-B** | $ | EA | 25 | $ |
| 20 | 2 Year Maintenance free single gas detector for H2S: BW Honeywell Clip (H2S) BWC2-H **SAWS # (46198)** | $ | EA | 5 | $ |
| 21 | 3 Year Maintenance free single gas detector for H2S: BW Honeywell Clip (H2S) BWC3-H **SAWS # (46199)** | $ | EA | 5 | $ |
| 22 | Honeywell BW Clip Hibernation case: CLIPHB-CASE **SAWS # (46200)** | $ | EA | 5 | $ |
| 23 | Intellidox Docking Station: BWTDX-CLIP **SAWS # (47108)** | $ | EA | 1 | $ |
| 24 | Intellidox Enabler Kit: BWTDX-ENBL-NA **SAWS # (47109)** | $ | EA | 1 | $ |
| 25 | Demand Flow Regulator: GCO75-DFR **SAWS # (47110)** | $ | EA | 1 | $ |
| 26 | Cal Gas Ecosmart H2S 25 PPM: GCO44ES-98-25 **(SAWS # 47111)** | $ | EA | 2 | $ |
| 27 | 4 Gas BW Technologies Gas Alert Micro 5 series air monitor Rechargeable Battery and Pump MFG/Model # **BW Ultra 4 gas monitor – HU-X1Y1H1M100-Y-N** | $ | EA | 15 | $ |
| 28 | **BW Ultra IntelliDoX docking station – DX-ULTRA and Enabler Kit – DX-ENBL-NA** | $ | EA | 6 | $ |
| 29 | **INTELLIDOX FOR SOLO MONITOR DX-SOLO** | $ | EA | 6 | $ |
| 30 | **DEMAND FLOW REGULATOR REG-DF1** | $ | EA | 9 | $ |
| | | | | **TOTAL** | $ |

**<span style="color:red">IT IS NECESSARY TO RETURN THIS ADDENDUM 1 AS PART OF YOUR BID SUBMISSION</span>**

*Addendum 1 Issued 2/21/19*