

## HydroSense Application Data Sheet (2 pages)

Please fill in as much information as possible. Some information is required to determine the suitability of the instrument. Other information will help us understand your application better. We may be able to provide some further installation and monitoring guidance.

1. **Agent/Representative** \_\_\_\_\_
2. Prepared by \_\_\_\_\_ date \_\_\_\_\_

### 3. End User Information

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Site: \_\_\_\_\_ Contact \_\_\_\_\_  
Tel: \_\_\_\_\_

4. **Application Description** (brief overview of process and reason for monitoring the water for hydrocarbons)

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### 5. Water Source Description

sump pit  process tank  process pipe  vessel  ditch  open channel  separator  
 well  offshore platform  cooling water pipe  
 other \_\_\_\_\_

### 6. Water Type

storm water  waste water  treated water  process water  cooling water  
 condensate  drinking water  sewer  ground water  sea water  distilled water  
 produced water  other \_\_\_\_\_

7. **Compound to be monitored** (describe the contaminant, chemical name, structure, source etc.)

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minimum ppm to be measured \_\_\_\_\_, maximum ppm to be measured \_\_\_\_\_

8. Are there other contaminants or products in the water? \_\_\_\_\_  
Describe \_\_\_\_\_  
Do they vary in their concentrations? \_\_\_\_\_
9. Is there any colour in the water? \_\_\_\_\_ Describe \_\_\_\_\_
10. Are there any suspended solids (turbidity) in the water? \_\_\_\_\_  
What range? \_\_\_\_\_  
Describe \_\_\_\_\_

**Process Information**

- 11. Is there a continuous sample flow available to the HydroSense? \_\_\_\_\_
- 12. What is the flow range ? \_\_\_\_\_
- 13. What is the pressure in the process ? \_\_\_\_\_
- 14. What is the pressure in the stream line to the HydroSense? \_\_\_\_\_
- 15. Can the sample stream outfall from the HydroSense go to an open drain or containment? \_\_\_\_\_
- 16. Is the sample stream pumped from the process source to the HydroSense? \_\_\_\_\_  
If yes, what type of pump ? \_\_\_\_\_
- 17. What is the process sample stream temperature range \_\_\_\_\_
- 18. What is the room or outdoor HydroSense enclosure location temperature range \_\_\_\_\_
  
- 19. Area Classification of HydroSense installation:

General Purpose	Type 12___
	Type 4___
Hazardous	Zone 0___
	Zone 1___
	Zone 2___
  
- 20. What is the input power available? \_\_24 vdc \_\_110 vac \_\_220 vac
- 21. Are the relays being used? Describe \_\_\_\_\_
- 22. Is the 4-20 mA output being used? Describe \_\_\_\_\_  
21. Do you presently have grab samples tested? \_\_laboratory on site \_\_send to outside lab. What technique and compounds are measured ?  
\_\_\_\_\_
  
- 23. Does the process ppm concentration vary on a regular basis ? \_\_\_\_\_
- 24. Do you have the ability to force a change or make up a ppm in water sample for calibration purposes ? \_\_\_\_\_
- 25. Is the monitoring intent to determine an upset condition or to record and evaluate actual ppm levels? Describe \_\_\_\_\_
- 26. The HydroSense uses a UV Fluorescence technique to monitor oil in water. The wavelengths used are selective to aromatic hydrocarbons in the water. Aromatics are generally proportional to total petroleum hydrocarbons and are used as an indicator of ppm concentrations in water. The instrument UV fluorescence response is used to correlate to the user inputted calibration values. Changes in the make-up of the oils may affect the accuracy and a site calibration is therefore required. This technique has been review with the end user. Yes\_\_\_ No\_\_\_
- 27. A regular cleaning involves a wipe down of the glass tile and visual inspection of the flow and weir. This is a 2 minute procedure. The frequency should be daily for one week, then every other day, and then progressively less frequent until an adequate frequency is determined to keep the unit operational. This maintenance has been reviewed with the end user Yes\_\_\_ No\_\_\_.