

NAWQA Mercury Detailed Studies  
Field Data Sheet

Collected by: \_\_\_\_\_

Full date (dd/mm/yy): \_\_\_\_\_

**I. LOCATION**

Site (full name): \_\_\_\_\_ Site/Station ID: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_ Datum: \_\_\_\_\_ Accuracy: \_\_\_\_\_

**II. SEDIMENT SAMPLING**

Begin time: \_\_\_\_\_ End time: \_\_\_\_\_ Median time: \_\_\_\_\_ SW Temp (°C): \_\_\_\_\_

Mason jars filled (#): \_\_\_\_\_ mason jar size (#): \_\_\_\_\_

Depth interval (for example, 0–2 cm)

D1 (cm): \_\_\_\_\_ D2 (cm): \_\_\_\_\_ D3 (cm): \_\_\_\_\_ D4 (cm): \_\_\_\_\_

Site description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sample collection: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sample physical description (color, texture, smell, etc.): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**III. Analysis To Be Conducted (Check)**

- ☐ 203Hg-Methylation  
☐ 14C-MeHg Degradation  
☐ 35S-Sulfate reduction  
☐ TRS/AVS  
☐ PW-SU  
☐ PW-SO<sub>4</sub>, Ac  
☐ LOI  
☐ Eh/pH  
☐ BS/PW-Fe  
☐ PW-DOC  
☐ other (specify): \_\_\_\_\_  
☐ other (specify): \_\_\_\_\_

**IV. Electrode checks and calibrations**

ORP electrode calibration

- Std. Used  
 Zobell's  
 quinhydrone @ pH 4  
 quinhydrone @ pH 7  
 Orion® ORP std (bed-sediment electrode)  
 Orion® ORP std (pore-water electrode)

Reading  
(mV)

|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |

pH electrode calibration

(If auto-calibration, circle buffers used)

4.0  
7.0  
10.0

Reading Temp. (°C)

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

**V. Minipiezometer measurements**

Depth of penetration (cm) \_\_\_\_\_ R1 R2  
Head difference (+/-)(mm) 

|  |  |
|--|--|
|  |  |
|--|--|

Depth of penetration (cm) \_\_\_\_\_ R1 R2  
Head difference (+/-)(mm) 

|  |  |
|--|--|
|  |  |
|--|--|

Depth of penetration (cm) \_\_\_\_\_ R1 R2  
Head difference (+/-)(mm) 

|  |  |
|--|--|
|  |  |
|--|--|

**VI. On-Site Measurements**

Bed-sediment ORP (mV)  
 Bed-sediment pH  
 Bed-sediment temperature (°C)

Pore-water ORP (mV)  
 Pore-water pH  
 Pore water S<sup>2-</sup> (circle 1° or 2°) (mV)

|    |    | <i>in situ</i><br>or<br>patty |  |
|----|----|-------------------------------|--|
| R1 | R2 |                               |  |
|    |    |                               |  |
|    |    |                               |  |
|    |    |                               |  |
| R1 | R2 |                               |  |
|    |    |                               |  |
|    |    |                               |  |
|    |    |                               |  |