

Annex C - Water

1	Upon arrival at Field Team Center, receive a status briefing from team leader and review this SOP to familiarize yourself with what might be required. Clarify any questions with Team Leader or Field Team Center Coordinator before departing on sampling assignments. Verify communications, radio channels, cell phone numbers, FTC number, etc.
2	Receive sampling assignment(s) from Team Leader.

IF	THEN
Assignments are outside of the Restricted Zone	Proceed with Item #3 of checklist
Assignments include locations inside Restricted Zone	If needed, request assistance from Team Leader or Field Team Center staff in plotting routes to assigned locations. Request briefing on dosimetry and use of any protective gear issued. Request any information on stay time restrictions. Request monitoring station location. Review sampling techniques, procedures, requirements, and locations with assigned escort. Follow the escorts instructions regarding cross-contamination and exposure control measures.

3	Inventory sampling kit using Attachment 1. Obtain any missing items from Field Team Center.
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IF	THEN
Team Leader advises that samples are to be split (processed at different labs to verify accuracy).	Make two complete collections at assigned sample site per normal procedures. Indicate this information on both data sample sheets and containers.

Prior to Traveling to the Sample Site

4	Label all containers with as much information as possible.
5	Fill out the Sample Laboratory Data Sheet with as much information as possible and have the sampler sign the chain of custody section.
6	Ensure the vehicle has adequate fuel, paper liner on floorboards and cargo area, trash box with liner or trash bag with duct tape, sample transport container, receptacle for reusable equipment (for decon), maps, and communication equipment.
7	Turn on GPS unit and Survey Meter
8	Place the following items into backpack or equipment caddy: sample jugs, pitcher, two resealable bags, permanent marker, ink pen, GPS unit, clip board with Sample and Laboratory Data sheet, sampling instructions, paper towels, small trash bag, large trash bag, duct tape, and knife. Split samples require bucket, extra bags, and jug.
9	Don PPE (Tyvek, Boot covers, and Gloves).

Upon Arrival to Sample Site

10	Radio Field Team Center of arrival and explain purpose of sampling to the property owner (if appropriate) while verifying the exact address for the Sample and Laboratory Data Sheet. Conduct an area survey taking note of background readings in the margin of the Sample and Laboratory Data Sheet.
11	Don respiratory equipment, if advised by Field Team Center.
12	Utilized lined trash box or prepare a garbage bag to receive waste by taping it in place on an easily accessible area in the work vehicle.
13	Select a sample point.
14	Use the survey meter to take a radiation reading at a height of one (1) meter above (or away from) the sample area. Record the reading on Sample Data Sheet as Field 1 Meter Reading.
15	Use the survey meter to take a radiation reading at a maximum of 3-5 cm (2") above the sample area. Do not make contact with the sample point. Record the reading on Sample Data Sheet as Field Contact Reading.
16	Sample from surface water sources (lakes, rivers, and streams) may be obtained using a ladle, scoop, pitcher, or bucket.
17	Fill the sample container with water from source. Do not contaminate the outside of sample container while transferring water. If needed, use funnel to minimize contamination transfer. Do not add any preservative.
18	Complete sample info on label or jug then place into resealable bag and seal.
19	Use the survey meter to take radiation reading at a maximum of 3-5cm from sample container. Do not make contact with sample container. Record reading on Sample Data Sheet as Sample Contact Reading.
20	Complete the sample submission sheet recording time, GPS latitude, and longitude.
21	Place the sample from and bagged sample into a second resealable gag and seal. Ensure information on sample form is visible.
22	Place disposable equipment and used paper towels into small trash bag; if long ladle was used, place ladle end into a large trash bag and duct tape bag to handle.

Returning to Vehicle

23	Secure samples in transport container.
24	Place reusable equipment, if any, in decon container for decontamination.
25	Place continuous use equipment (survey meter, backpack, etc.) in equipment container.
26	Place disposable equipment in waste container.
27	Remove one layer of gloves and place in waste container.
28	Contact Field Team Center to update status of Field Sampling Team and proceed to next sample point as previously instructed.

**Annex C - Water
Sampling Equipment Inventory Sheet**

This list covers all items needed for soil samples. You may need to obtain additional equipment for other types of samples (i.e. Leafy Vegetation, Water, etc.)

Equipment Caddy
Backpack
Protective Gloves
Boot Covers
Tyvek
(2) 1 Gallon Sample containers (w/ label)
(2) 18"x20" Resealable bags
Pitcher
Funnel
Ladle Extended Handle
Bucket
Scoop
Large Trash Bag
Duct Tape
Permanent Marker
Paper Towels
Clipboard
Sampling Instructions
Sample and Laboratory Data Sheet
Ink Pen
Survey Meter
GPS Unit (wrap in plastic)
Hand Held Radio (wrap in plastic)
Utility belt (Optional)
Small Trash Bag
Knife

Note: Split samples will require additional bags, bucket, sample container (jugs) and Sample and Laboratory Data Sheet.

(Items such as coolers and ice for perishable samples and protective clothing/dosimetry/respirators for sampling within the Restricted Zone would be provided by the Field Team Center.)

Annex C - Water
Instructions for Completing Sample and Laboratory Data Sheet

Plant - Beaver Valley Power Station

Sector - Leave Blank if Unknown

Distance - Leave Blank if Unknown

Date Collected - MM/DD/YYYY (ex. 06/31/2010)

Mil Time - Use 24 hour clock

Code - See the key on sheet (ex. "WA" for water)

Agency Log No. - Given by Field Team Center for tracking

Street - Leave Blank if Unknown

GPS Latitude - Enter Direction and Degrees-Minutes Decimal

GPS Longitude - Enter Direction and Degrees-Minutes Decimal

Collected by - Enter Your Name and agency

Sampling Info - Fill out info for water sample under other (Comment any irregularities)

Field 1 Meter Reading - Reading obtained in Step 14 before sample

Field Contact Reading - Reading obtained in Step 15 before sample

Sample Contact Reading - Reading obtained in Step 19 after sample

Duplicate/Split # - Enter split or duplicate number if applicable

Chain of Custody - Print name, sign, date and time