DETAILED FIELD-AUDIT INSTRUCTIONS

ONLY SUBMIT A FIELD-AUDIT SAMPLE AFTER A WEEK WITH NO PRECIPITATION AT YOUR SITE

** THIS PROCEDURE REQUIRES 24 HOURS FOR COMPLETION **

A) On Tuesday, remove the wet-side field bucket from the field as you normally do.

□ See section 3 of the NTN Site Operation Manual (SOM) up through section 3.2.

B) Verify that no precipitation occurred.

- □ Make sure that <u>not even a trace of precipitation was measured by the rain gage (SOM sec. 3.3.7.4)</u>.
- □ Verify the collector worked properly.
- □ Lid openings <u>are allowed</u> so long as you ensure that no precipitation occurred. Explain any lid openings due to humidity, dew or fog in the remarks section (Block 10) of the FORF.
- ☐ Inspect the wet-side field bucket to ensure that it is dry (with the exception of CAL rinse water that may have been present when the bucket was installed).
- □ Check the appropriate box in "Part A" on the "FIELD-AUDIT RECORD" postcard, either "CAL rinse water present in bucket" or "bucket was dry", depending on what you found when you inspected the wet-side field bucket.

C) Pour 75% of the field-audit sample into the wet-side field bucket you retrieved.

- □ Always wear laboratory gloves and be careful not to contaminate the sample in any way.
- □ Pour 75% of the field-audit sample (down to the line marked on the bottle) into the wet-side field bucket.
- Recap the field-audit sample bottle containing the remaining 25% and place it in the plastic bag in which it was shipped. You will send this bottle to the CAL for analysis.
- □ Cover the bucket securely with its snap-on lid.
- □ At your lab, Swirl and shake the bucket and set aside for at least 24 hours (but no longer than 6 days).
- □ Weigh the bucket+lid+sample, and record the weight on the <u>bucket-sample</u> FORF (instructions for completing the FORFs are outlined in Section E).
- □ Record the date and time that you transferred 75% of the sample into the bucket in "Part A" on the green "FIELD-AUDIT RECORD" postcard.

D) Process the field-audit sample as if it were a precipitation sample.

- Follow standard NADP/NTN protocols in section 3.3 of the SOM, and take the same care with the field-audit sample as you would with the weekly precipitation sample.
- □ Transfer the field-audit sample from the wet-side field bucket into a clean 1-liter sample bottle provided by the CAL. During sample transfer, be sure that the lip of the bucket does not touch the lip of the bottle. Place the 1-liter sample bottle into a NADP orange ziploc bag. Label the bag with the bucket date and time off and affix a barcode label (as you normally do).
- □ Affix the next barcode label in the sequence on the outside of the bottle bag containing the remaining 25% of the solution in the original field-audit bottle and a corresponding label as indicated above Block 1 of the white copy of the bottle FORF.

E) Complete two separate FORFs for the field-audit bucket and bottle portions.

- Please use the FORFs that are included with the field-audit sample. The FORF labeled 'Bucket Portion' in the Remarks section should be used for the sample that was poured into the bucket. Affix the CAL barcode label above Block 1 of this FORF that matches the barcode on the Ziploc bag for the 1-liter NADP sample bottle.
- □ The other FORF labeled 'Bottle Portion' in the Remarks section is for the 25% of the solution that remained in the original field-audit bottle. Affix the CAL barcode label above Block 1 of this FORF that matches the barcode on the Ziploc bag for the original bottle.

☐ Fill out the following information on both FORFs:

1. SITE	Enter your site name and site ID
2. OBSERVER	Print your name and initials
3. BUCKET ON/BUCKET OFF	Record the On and Off dates and times
4. SITE OPERATIONS	Check appropriate boxes for items 1, 2, and 3
5. SAMPLE CONDITION	Check the appropriate box and be sure to note if handling
	contamination was accidentally introduced
6. BUCKET SAMPLE WEIGHT	Bucket FORF: Weigh the (bucket+lid+sample) and record the weight,
	calculate the appropriate sample depth. NOTE: This value will not
	agree with the total raingage depth value because no precipitation was
	recorded, leave the box: "Do these values agree within $\pm 5\%$?" blank
	Bottle FORF: Blank
7. PRECIPITATION RECORD	Bucket FORF : Record the precipitation record off the raingage chart.
	These values should be zero for the week.
	Bottle FORF: Blank
8. SAMPLE BOTTLE USE	Bucket FORF: Yes, sample poured into bottle. Bottle FORF: Blank
9. SUPPLIES	Bucket FORF: Check any needed supplies. Bottle FORF: Blank
10. REMARKS	Record remarks as you normally would.
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☐ FORF recap:

- Bucket FORF: Complete all fields.
- o Bottle FORF: Complete fields #1-5. Skip fields 6-9. Add remarks in field 10.
- O Use 4 barcode labels for the 2 portions of the field-audit sample (2 barcodes for FORFs, 2 barcodes for each sample bag).
- DO NOT SEND A SEPARATE EMPTY SAMPLE BOTTLE and FORF FOR THE DRY WEEK!!!

F) Fill out postcard to USGS

Please mail the "FIELD-AUDIT RECORD" postcard promptly to the USGS.

G) <u>Mail both portions of the field-audit sample to the CAL. Use an appropriately sized box for both bottles or tape together the original shipping box for the field audit sample and a standard NADP box.</u>

Enclose the rain gage chart, and the white copy of the FORF for both field-audit samples. Retain the pink copies for your records. Affix the FedEx postage slip on the box.

Please make sure the following items are in the box:

- ☐ The 1-liter sample bottle sealed in a plastic ziploc shipping bag labeled with:
 - o bucket off date and time and
 - o barcode that matches the bucket-sample FORF and barcode.
- □ The remaining 25% of sample in original field-audit sample bottle sealed in the ziploc bag labeled with:
 - o barcode that matches the bottle-sample FORF and barcode.
- □ The raingage chart
- □ White copy of the FORF for the **bucket** portion of the field-audit sample
- □ White copy of the FORF for the **bottle** portion of the field-audit sample
- □ DO NOT SEND A SEPARATE FORF IN A DRY WEEK ENVELOPE TO THE CAL!

The sample you have been sent should be submitted between January 29, 2021 and January 28, 2022

If this time period passes without a **full dry week**, please enter "No Dry Week" between January 29, 2021 and January 28, 2022 on the enclosed postcard. If this time period passes without a full dry week, simply discard the liquid and recycle the bottle. If you have questions please contact Greg Wetherbee at (303) 236-1837, wetherbe@usgs.gov.

Thank you for your time and participation in the Field-Audit Program.