



## Standard Operating Procedures (SOPs) for Measurement and Chemical Analysis in the ADORC Laboratory

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Acid Deposition Oxidant Research  
Center



## Introduction

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- SOPs should be developed at each laboratory, taking account of its instruments and apparatus for operation.
- These SOPs are developed for use in the laboratory of ADORC.
- These SOPs could be as one of the reference materials in developing SOPs in each laboratory working for EANET.



## SOPs for sampling of wet deposition

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- List of goods for visiting the sampling site (Sado Sekimisaki Site)
- Operation procedures on wet only sampler
  - Operation on the roof
  - Maintenance in the house
- Seasonal maintenance
- Sample Shipping



## List of carrying goods for visiting the sampling site

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(Prepare and check next goods)

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|------------------------------------|---|
| ■ Keys                             | ■ Wiper (Kim Wipe)                            |
| ■ Note Book for Documentation      | ■ Tool kit                                    |
| ■ Writing implements               | ■ Polyethylene siphon                         |
| ■ Manuals                          | ■ Sample bottles                              |
| ■ Floppy disks                     | -1 L polyethylene bottles, labeled No.1-14    |
| ■ Deionized water in 10L bottle    | -500 ml polyethylene bottles labeled No.15-18 |
| ■ Deionized water in 500 ml bottle | ■ Laboratory cooler box                       |



## Operation procedures on wet-only sampler(Ogasawara- Type 420)

- "Test" switch on.
- Check and cleaning of precipitation sensor.  
(by adding 1-2 drops of water on the sensor)
- Clean the wall of sampling funnel by Kim Wipe.
- Push cleaning switch.
- Refill cleaning water tank.
- Check standard rain gauge.
- "Test" switch off.



## Handling of samples and Maintenance in house

- Check and record the location of the nozzle.
- Samples should be handled with disposable gloves.
- Exchange all polyethylene sampling bottles.
- Put all sample bottles into lab. cooler box with freezer packs.
- Push "Clean" switch, and take field blank.
- Push "Return" switch, and the nozzle moves to No.1 site.
- Exchange floppy disk.



## Seasonal Maintenance

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- In summer, turn the fan switch on.
- In winter, turn the heater switch on.