

STANDARD OPERATING PROCEDURE
Creating and Filling out a Chain of Custody Record

KEY WORDS

COC, Sample Tracking

APPROVALS

APPROVED BY: John J. Sanders DATE: 3/6/97
Management

APPROVED BY: H. L. B... DATE: 2-27-97
EHAP Senior Scientist

APPROVED BY: Randy Lesons DATE: 2-26-97
EHAP Quality Assurance Officer

PREPARED BY: C. Gana _____ DATE: 2-26-97

Environmental Hazards Assessment Program (EHAP) organization and personnel such as management, senior scientist, quality assurance officer, project leader, etc. are defined and discussed in SOP ADMN002.

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I.0 INTRODUCTION

1.1 Purpose

A chain of custody record (COC) is an appropriate format to record important data associated with each individual sample. Normally, a COC is used to record three types of information; field information, laboratory information, and the people who handle the sample. This SOP discusses procedures for the third item, handling the sample. The other two items are discussed in other SOPs.

1.2 Definitions

Chain of Custody (COC) is a legal document designed to track persons who are responsible for the preparation of the sample container, sample collection, sample delivery, storage, and sample analysis.

A **sample number** is a unique number given to a sample, usually attached to the sample container with label tape (SOP QAQC005.00).

2.0 PROCEDURES

2.1 Creating the COC

A specific COC is created for each study. A COC normally has three sections: field information, lab information, and the signatures of the people who handle the sample. The form is generally a three-page carbon copy document, including a white, yellow and pink sheet.

2.1.1 Field Information - The COC must contain places to enter the following field information: study number, sample number, sampling date, and type of sample. Other field information may be recorded **as** specified in the study protocol.

2.1.2 Laboratory Information - The COC must contain places to enter the following laboratory information: reporting limit of each analyte, the result of analysis, date of extraction, date of analysis, and the signature of the person performing extraction and analysis. Other laboratory information may be recorded

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as specified in the study protocol.

2.1.3 Signatures - The COC must contain places for all people who handle the sample to sign his/her name. This is a record of persons who had custody of the sample during all steps of the process from container preparation, sample collection, sample storage and transport, and sample analysis. There should be signature lines to relinquish custody of the sample and to receive custody of the sample.

2.2 Filling out the chain of custody

The first “relinquished by” line is normally signed by the person who prepared the sample container. The “received by” line is normally signed and dated by the person collecting the sample, that person then signs to relinquish the sample. The person who transports the sample to the laboratory signs last. In case there are additional steps in the process requiring another person or persons to take custody of the sample, the form has additional lines for signatures. The line at the bottom of the page is provided for personnel from the laboratory to sign for receiving the sample.

No erroneous information may be erased on the COC. Errors must be lined out and initialed, and the correction written in. Furthermore, a COC may not be destroyed or discarded and must be retained by the project leader.

2.2.1 Container Preparation - The COC should be initiated at the time the containers are prepared (SOP QAQC005.00). The COC at that time should include the study number, the sample number (which should correspond with a unique number on a sample container), chemicals to be analyzed if known, and the signature of the person preparing the sample container and date prepared.

2.2.2 Sample Collection - The personnel who receive the sample containers, transport them to the field, collect the samples, and place them in containers normally sign their name on the COC under the first received by column and write the date and time the sample container was received on the line next to it. They also fill in the information required on the COC and sign the relinquished by line.

2.2.3 Sample Storage - When the samples are relinquished to the EHAP sample custodian, that person will sign the COC on the next “received by” line, and will write the date and time. The pink copy of the COC is detached from the other two

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copies. Pink COC sheets are be retained at the sample storage facility until they are entered into the sample tracking database (SOP QAQC 003), at which point they should be given to the project leader.

2.2.4. Sample Delivery - Once the sample is delivered to the lab, the laboratory personnel will sign and date the “received by” line located at the bottom of the COC.

2.2.5. Laboratory Analysis - The analyzing laboratory will record the reporting limit of each analyte, the result of analysis, date of extraction, date of analysis, and the signature of the person performing extraction and analysis. When the analysis is completed and approved by the laboratory, white COC sheets will be given to the sample custodian. The yellow copy is retained by the laboratory.

2.2.6 Data Review and COC Delivery - The appropriate information is entered into the sample tracking database. If a quality assurance officer is assigned to the study, they will review the analytical data. The white COC is then forwarded the project leader.