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Environment & Remediation Support Services

Standard Operating Procedure

for **FIELD SAMPLING OF CORE AND CUTTINGS FOR
GEOLOGICAL ANALYSIS**

APPROVAL SIGNATURES:

Subject Matter Expert:	Organization	Signature	Date
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1.0 PURPOSE AND SCOPE

The purpose of this procedure is to describe the process for sub-sampling core or cuttings in the field for geological analysis for the Los Alamos National Laboratory (Laboratory) Environment & Remediation Support Services (ERSS) group. Specifically, this procedure covers the activity and associated documentation for collection and transport of core or cuttings sub-samples for a drill site directly to sample preparation or analysis sites at the Laboratory. The examination or sub-sampling of materials at the ERSS Sample Management Office (SMO) is not covered under this procedure; for such activities governing procedures should be used.

2.0 BACKGROUND AND PRECAUTIONS

2.1 Background

This procedure is to be used in conjunction with an approved Site Specific Health and Safety Plan (SSHASP). Also, consult the SSHASP for information on and use of all Personal Protective Equipment (PPE).

2.2 Precautions

Appropriate eye protection must be used with chisels and hammers.

3.0 EQUIPMENT AND TOOLS

- Chisels;
- Eye Protection;
- Hammers;
- Markers, indelible;
- Plastic Bags (Ziplock™ - type preferred);
- Sieves (10 or other mesh, 10-mesh preferred); and
- Spoons (plastic or metal).

4.0 STEP-BY-STEP PROCESS DESCRIPTION

4.1 Sample Collection

- | | |
|---------------------|--|
| Field Sampling Team | <ol style="list-style-type: none">1. Place sampled materials in a container marked with a unique designation that includes the borehole identifier and the sample depth (whenever core or cuttings samples or sub-samples are collected in the field).

[NOTE: Containers for geological samples or sub-samples will typically be Ziplock™ - type bags.] <hr/> <ol style="list-style-type: none">2. Include information on whether the sub-sample is bulk or sieved if cuttings sub-samples are collected. |
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|------------------------------------|----|---|
| Field Sampling Team
(Continued) | 3. | Transfer sample and sub-sample custody from the field support personnel to the sample requestor when the samples or sub-samples are removed from the drill site. |
| | 4. | Document the transfer of the samples and sub-samples by listing them and the date of transfer in the ERSS Sample Storage Logbook. |
| | 5. | Log samples or sub-samples for geological analysis into the ERSS Sample Storage Area, and a record of the storage location within the ERSS Sample Storage Area will be provided in the ERSS Sample Storage Logbook. |

4.2 Records

- | | | |
|------------------|----|--|
| Sample Requestor | 1. | Submit the following records generated by this procedure to the Records Processing Facility: <ul style="list-style-type: none"> Completed ERSS Sample Storage Logbooks. |
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5.0 PROCESS FLOW CHART

Flow chart is to be included at a later date.

6.0 ATTACHMENTS

None.

7.0 REVISION HISTORY

Author: David Vaniman

Revision No. <i>[Enter current revision number, beginning with Rev.0]</i>	Effective Date <i>[DCC inserts effective date for revision]</i>	Description of Changes <i>[List specific changes made since the previous revision]</i>	Type of Change <i>[Technical (T) or Editorial (E)]</i>
0.0	02/9/07	Reformatted and renumbered, supersedes SOP-09.10	E

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