

REQUEST TO INSPECT DRILLHOLE SAMPLES

PIRSA Core Storage Facility

FAX or POST this form to:
 Brian Logan,
 Manager – Drill Core Storage Facility

Post: GPO Box 1671, Adelaide, SA 5001
 Street Address: 23 Conyngham St Glenside, SA 5065
 Fax: + 61 8 8338 1925
 Phone: + 61 8 8379 9574
 email: pirsa.corelibrary@saugov.sa.gov.au

Person requesting inspection:
 Name:
 Business Name and Address:
 Phone: Mobile: Fax:
 Email:
 Date Inspection Required: at AM / PM
 for approximately: hours / days

NOTE: 48 hours notice is required. Shorter notice may be negotiated with the Core Library Manager.

Inspection Details:
 Number of Core Samples: Type: Core Chips Whole Core
 Weight required:
 Number of Cuttings Samples: (max. 10 grams per cuttings sample)
 Type of Analysis to be performed:

Drill Core Storage Facility Use Only

<p>Approval to view confidential well(s):</p> <p>Minerals Group: Signature: Print Name: Date: / / Verbal approval: Y / N Approvers Name:</p>	<p>Checked and approved by Core Library Manager:</p> <p>Date Received: / / Signature: Date Approved: / /</p>
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<p>Petroleum Group: Signature: Print Name: Date: / / Verbal approval: Y / N Approvers Name:</p>	<p>Petroleum Yes <input type="checkbox"/> No <input type="checkbox"/> Bond Required Yes <input type="checkbox"/> No <input type="checkbox"/> Amount \$ Date Received: / /</p>
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GUIDELINE FOR THE REMOVAL OF CORE AND CUTTINGS FROM PIRSA'S CORE LIBRARY

Why the new regulations were necessary

The new regulations were made to ensure that use of the limited core and cuttings resource of the core library is maximised for the benefit of advancing understanding of the petroleum prospectivity of South Australia.

Previously sampling was occurring:

- Where very similar sampling had previously occurred. For example, new thin sections were being cut where thin sections were readily available from the PIRSA thin section collection.
- On core and cuttings with very limited remaining material. In these cases further sampling will only be approved where new and relevant petroleum prospectivity information may be gained.

In addition, reports on the analysis undertaken were not submitted, and unused or prepared samples (eg thin sections) were not returned.

Step 1 Requesting samples to laid out at the core library

The first step in gaining access to core or cuttings at the core library is to complete and forward to the core library manager the attached "Request to inspect petroleum well samples" form.

Note:

- At least 48 hours notice will be required except in special circumstances.
- Indicate as clearly as possible the number, type and planned analyses of samples to be removed, and whether or not the samples will be destroyed. Also, whether or not the samples will be taken overseas for analysis.
- If samples are planned to be taken and this is not indicated on the form, samples may not be approved for removal on the day. If the scope of sampling contemplated is clearly communicated, pre approval of the sampling will be given.
- Justification for the analysis in relation to advancing the petroleum prospectivity of South Australia will be need to be given (note that sampling for other reasons may not be approved).
- Sampling restrictions are enforced on some core and cuttings (see attached Sampling Restrictions Guideline)
- Nearly all core has been photographed and is available via PEPS or the Core photo CD-ROM available from PIRSA Petroleum. These databases may assist in more accurately nominating sample locations.

Step 2: Sampling at the Core library

Once the core or cuttings have been viewed and proposed sample intervals have been firmed up, the "Application for the removal of cuttings or core from the core library" (attached) must be completed by the applicant.

Note:

- If pre approval for sampling has not been given, the completed "Application for the removal of cuttings or core from the core library" form will be faxed to PIRSA Petroleum for approval before the samples are taken from the core trays. This may take some time and it may not be possible for samples to be approved for removal on the day. Alternatively, the Core Library Manager may approve interim removal, but analysis cannot be carried out until full approval has been given. If approval is not given, the samples must be returned to the core trays at your own expense. ***It is in your own best interests to be as specific as possible regarding your proposed sampling at the time of requesting the core to be laid out.***
- In the case of particularly valuable or limited core, a PIRSA Petroleum geologist may be required to be present to supervise the sampling.
- All sampling will be undertaken in accordance with the Sampling Restrictions Guideline (attached).
- Because of the possibility of serious consequences for non-compliance in reporting, application for approval to sample by students must be made on their behalf by the student's supervisor or another employee of the University. As the University employee will be held responsible for the sampling and reporting, it is advisable that the student's supervisor also be present at the time of sample removal.
- In some cases, particularly if the analyses are to be conducted overseas, a monetary bond may be required to be lodged before the samples are removed from the core library.
- In most cases conditions on the sampling will also be imposed - eg for thin sections, it will be a requirement that the thin sections as well as the offcuts be submitted with the report for archiving at PIRSA
- If cuttings samples are taken, the applicant must record on the sheet both the weight of the sample taken, and the weight remaining in the bag ***after*** the sample has been removed

Step 3: Submission of Report and prepared samples or residues

The applicant **will be required to submit a report** on the analyses and return any samples within 6 months of removal of the samples from the core library.

Note:

- The time for submission of this report may be extended beyond 6 months with PIRSA Petroleum approval, but this will only be given if it can be demonstrated that the analyses could not reasonably be conducted in under 6 months.
- Unless other wise approved, the analyses actually conducted must be as originally approved.
- The reporting requirements will be strictly enforced and you should be aware that a minimum penalty of up to \$2000 may be applied (on the **person** signing the "Application for removal of cuttings or core from the Core Library" form) for a late report (with a further daily penalty of up to \$200). Incomplete reports may also incur further penalties.
- Reports must be submitted in digital form either as WORD or PDF documents The attached "Approved from of digital data submissions under Regulation 50" provides more detail of the requirements.
- Reports submitted will be held confidential by PIRSA for 2 years from the date of sampling. It is a mandatory condition of sampling that the applicant relinquish any claim of confidentiality rights on the report after that date. Data may be released publicly by the applicant prior to that date, provided that the well is open file.
- All reports must state what has happened to any residues or prepared slides ie. either when they were returned to the core library or when they are planned to be returned, or if they were destroyed in the analysis process. Prepared slides should be submitted to PIRSA Petroleum for archiving.
- You should be aware that the whole approval process is **conditional on you personally, not your employer**. If you feel uncomfortable about taking responsibility for reporting and returning samples, you may wish consider having the sampling form signed by someone else in your organisation.

Contacts:

The Core library Manager is **Brian Logan** Ph 08 8379-9574

E-Mail [PIRSA Core Library](#).

Brian should be first point of contact to arrange lay out of core or cuttings samples

The Manager- Geological Compliance is **Alan Sansome** Ph 08 8463 3221

E-Mail sansome.alan@saugov.sa.gov.au

Alan may be contacted in regard to general conditions or issues of sampling of core or cuttings, submission of prepared slides and reports, and for any extensions to the time required to submit the reports or variations to previously approved sampling.

SAMPLING RESTRICTIONS GUIDELINE

CORE

If PIRSA only hold $\frac{1}{3}$ slab sampling requires specific approval of Petroleum Group. Clients may be referred to AGSO Core Library.

CUTTINGS

- Cuttings samples must be 10 grams per sample.
- At least 100 grams of cuttings per bag must be left after sampling.
- Bags may be reduced to 50 grams with specific approval of Petroleum Group.

TYPE SECTIONS

Sampling of cuttings and core over any type sections must be approved by **Petroleum Group**.

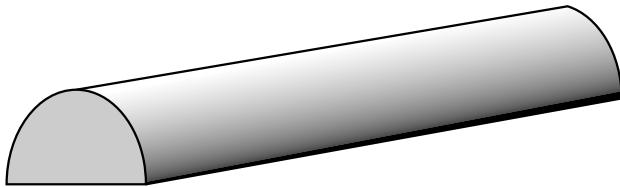
Information on type sections can be obtained from SAGEODATA at PIRSA.

CORE SAMPLING

NARROW DIAMETER

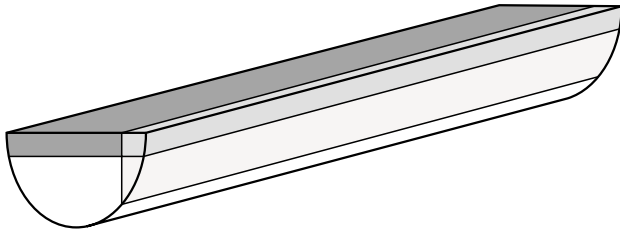
Core (<5" (inches) Petroleum standard):

$\frac{1}{2}$



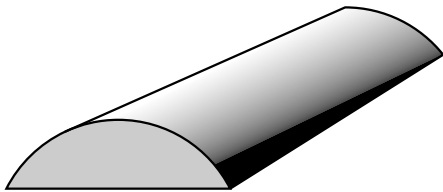
*No sampling
photograph only*

$\frac{1}{2}$



*Cut slivers of core only
and minimises sample
size*

STANDARD DIAMETER



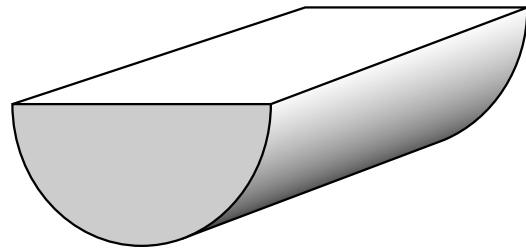
$\frac{1}{3}$ Slab



No sampling



Photograph only



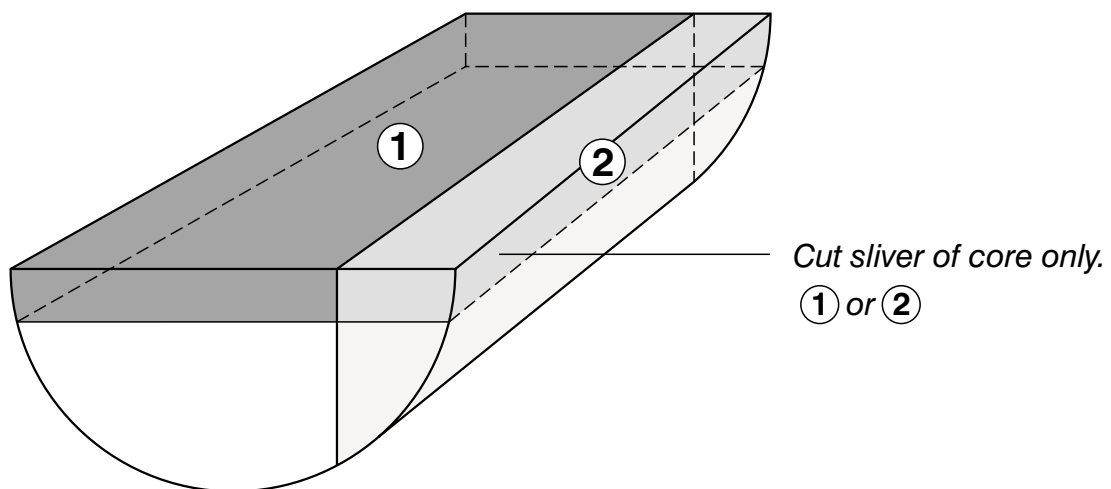
$\frac{2}{3}$ Slab – All sampling

Check to ensure no duplication of sampling analysis occurs (PEPS database)

LARGE SCALE CORE SAMPLING

Usually for destructive AFTA (Apatite Fission Track Analysis) geochronology, ZFTA (Zircon Fission Track Analysis), Rb/Sr age dating, coal analysis, thermal conductivity.

1. Sample offcuts or rubble from core tray first.
2. If more material needed:



3. Aim to to minimise sample size to preserve the core.
No complete core intervals to be removed.
4. Temporary removal of whole core for non-destructive tests
(eg: core GR, photography, CT scanning, gamma ray spectrometry)
will be approved.

SMALL SCALE CORE SAMPLING

Petrology, SEM, XRD, palaeontology, organic geochemistry, fluid inclusion, stable isotopes, XRF, SCAL, (porosity, permeability, grain density, capillary pressure mercury porosity), TOC, Carbon isotopes, chemical analysis, rock evaluation, MPI etc.

