PROCEDURE NUMBER	APPROVED	DATE
*12.10.7		06/21/83
VOLUME NAME: 12 CHEMISTRY PROCEDURES		
SECTION: 12.10 POST ACCIDENT SAMPLING AND ANALYSIS		
TITLE: *12.10.7 pH OF A POST ACCIDENT SAMPLE		

12.10.7.1 Purpose

This procedure describes the analysis of an undiluted 1 ml sample obtained from the post accident sampling station.

12.10.7.2 Precautions/Prerequisites

A. Sample must be undiluted.

B. No analysis shall be performed unless conditions are ALARA.

12.10.7.3 Equipment

A. Micro pH probe

B. pH probe holder (Attachment 1)

C. Shielded storage area for pH probe and holder

D. Appropriate remote handling tools

12.10.7.4 Reagents

pH 7 and pH 4 buffers

12.10.7.5 Procedure

A. Buffer pH probe with pH 7 and pH 4 buffers.

CAUTION: Sample is highly radioactive. Dose rate instruments shall be in use to monitor the rest of the analysis.

B. Remove cap from sample cask.

C. With appropriate remote handling tools, insert pH probe holder through sample vial septum.

UNCONTROLLED

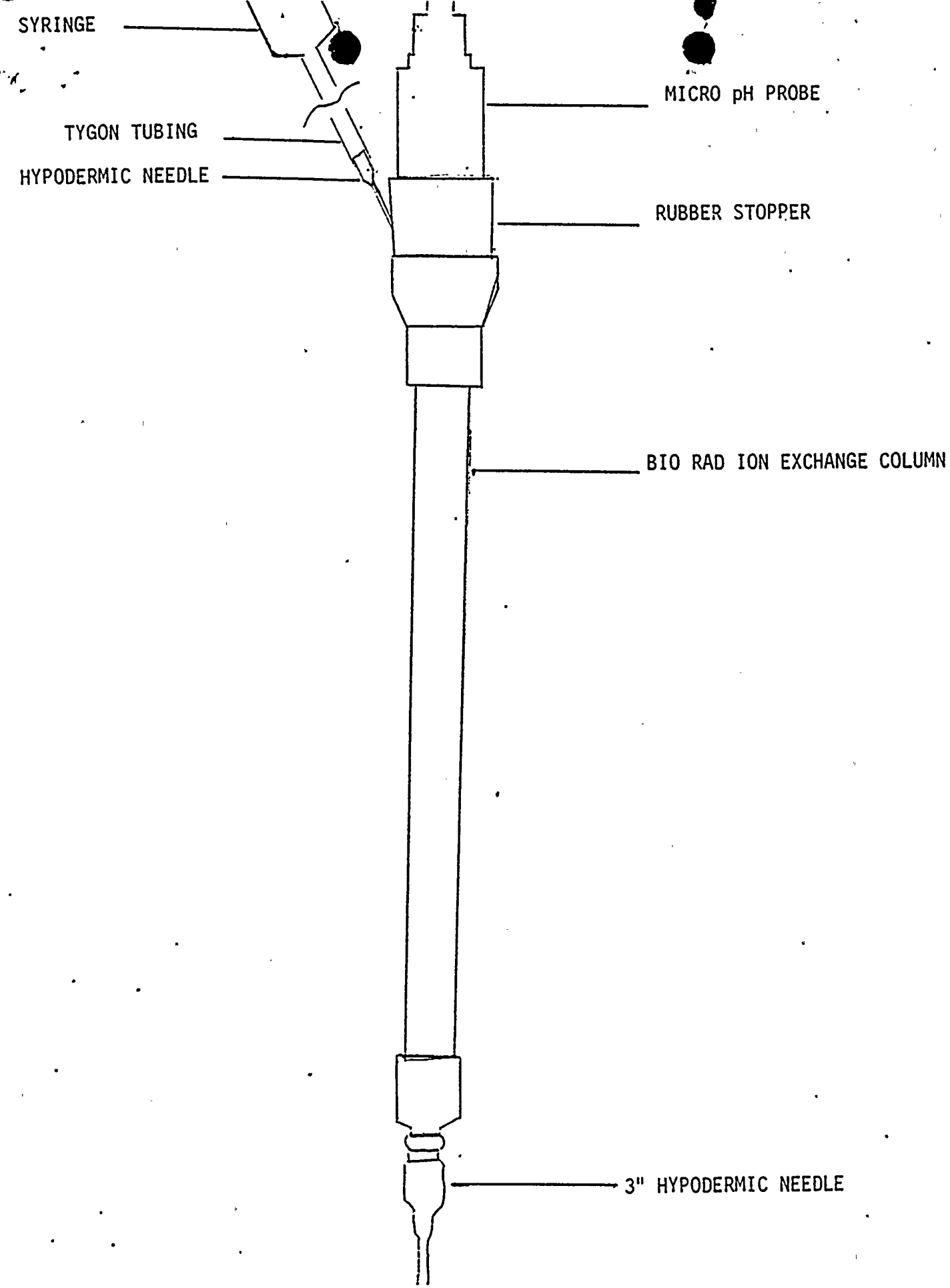
D. Pull to approximately 1/2 ml the syringe attached to the pH probe holder and measure the pH.

E. Release the syringe, allowing sample to return to vial.

F. Using approprate remote handling tools remove pH probe holder from the cask to the shielded storage area.

G. Replace cap on the sample cask.

H. Survey area for contamination.



pH Probe Holder