

RCRA PERMIT
FOR THE
IDAHO NATIONAL LABORATORY

Volume 14
INTEC Liquid Waste Management System

Appendix V

Standard Double Needle
Remote Sampling Protocol

Revision Date: October 29, 2008

STANDARD DOUBLE NEEDLE REMOTE SAMPLING PROTOCOL

- 1 **1.0 Air Sparge Vessel Prior to Sampling**
- 2 1.0.1 Air sparge the vessel for a specified time or per Shift Supervision instructions.
- 3 **1.1 Sample Solution Using the Double-Needle Sampling Method**
- 4 1.1.1 Open the following valves:
- 5 A. sample liquid discharge valve
- 6 B. sampler jet air valve
- 7 C. sampler supply valve.
- 8 1.1.2 Lower the sampler bottle lift mechanism and remove and save the drip bottle.
- 9 1.1.3 Prepare sampler.
- 10 1.1.3.1 Place sample bottle in holder.
- 11 1.1.3.2 Move the bottle lift mechanism into its full up position.
- 12 1.1.3.3 Visually ensure that the needles have pierced the septum and that the bottle is
- 13 seated against the needle block stop gasket.
- 14 1.1.4 Open the appropriate jet pressure control valve, adjusting the valve until the appropriate
- 15 psig is obtained.
- 16 1.1.5 If applicable, open the airlift flow control valve and set the rotameter as indicated.
- 17 1.1.6 Recirculate the solution through the sample bottle.
- 18 1.1.7 Visually ensure the solution is recirculating through the bottle.
- 19 1.1.8 Recirculate the solution for the minimum of 20 minutes for the first bottle and 5 minutes
- 20 for the subsequent bottle(s).
- 21 1.1.9 Shut off the airlift and jet valves in the sampling corridor.
- 22 1.1.10 Ensure the sample vial is at least seventy-five percent (75%) full when the sample will be
- 23 analyzed for organics.
- 24 1.1.11 Repeat steps 1.0.1 through 1.1.10 for additional samples.
- 25 1.1.12 Shut off valves opened in step 1.1.1 A, B, and C and airlift when sampling is complete.
- 26 1.1.13 Replace the saved drip bottle and raise the sampler bottle lift mechanism.
- 27 1.1.14 Transport sample from the cubicle to the lab using appropriate methods.