



GROUNDWATER PROTECTION PROGRAM

Meeting Minutes Cover Sheet

Please find attached the Open Meeting Minutes from the Groundwater Protection Program of October 7, 2002.

If you have any comments or changes to these minutes, please reply to this email and your comments will be incorporated into the next meeting minutes.



GROUNDWATER PROTECTION PROGRAM

Meeting Minutes

SUBJECT GROUNDWATER PROTECTION PROGRAM MEETING - OCTOBER 7, 2002

TO Distribution

FROM Dick Wilde, Groundwater Protection Program Manager

DATE October 29, 2002

ATTENDEES
See Attached List

DISTRIBUTION
Attendees
Groundwater Protection Program Distribution List

NEXT GROUNDWATER PROTECTION PROGRAM OPEN MEETING:

Next Meeting: Monday, October 7, 2002 – 1-3 p.m.

Location: 1200 Jadwin, Conference Room 1C1

Local Call-In Number: (509) 376-7411

Toll Free Call-In Number: (800) 664-0771

MEETING MINUTES

A Groundwater Protection Program (GPP) Open Meeting was held on October 7, 2002, in Richland, Washington, in Conference Room 1C1 of 1200 Jadwin Avenue.

WELCOME (Dick Wilde)

We have a full agenda today, but I first want to bring you up to date with the status of the fiscal year 2003 (FY03) budget. At this point, the budget is uncertain. However, that uncertainty is not slowing the program down. Field operations are in full swing.

FUNCTION OF THE INTERSTATE TECHNOLOGICAL REGULATORY COUNCIL AND SAMPLING CHARACTERIZATION AND MONITORING TEAM (Dib Goswami/Stu Nagourney)

The Interstate Technological Regulatory Council (ITRC) is a state-led national coalition of regulators and others working to improve state permitting processes and speed implementation of new environmental technologies. Representatives from industry, academia, federal agencies, and state organizations, and public stakeholders participate. ITRC products and services include regulatory and technical guidelines, technology overviews, case studies, peer exchanges, technology advocates, classroom training courses, and

internet-based training sessions.

The Sampling Characterization and Monitoring Team (ScaM) addresses innovations and paradigm shifts in sampling and monitoring related to real-time information, continuous monitoring, and monitoring for site closure and long-term stewardship. Members are from U.S. Environmental Protection Agency (EPA), U.S. Department of Defense (DOD), U.S. Department of Energy (DOE), academia, and industry. (Handout available upon request.)

VADOSE ZONE AND LONG-TERM STEWARDSHIP MEETING (John Morse)

I attended a meeting in September. The roadmaps developed by Idaho for DOE-Headquarters (DOE-HQ) were discussed. Representatives from DOD, the U.S. Department of Agriculture, NASA and other agencies were present. There is no new funding to carry these activities forward in current form. It's up in the air at the moment as to how this will perform. The next thing is to try to get comments on the long-term stewardship plan by March.

SYSTEM ASSESSMENT CAPABILITY SUMMARY REPORT (Bob Bryce)

Copies of system assessment capability (SAC) are being sent out to the tribal nations, EPA, and the Washington State Department of Ecology (Ecology). I've got CDs here today if you would like a copy. (Handout available upon request.)

FIELD OPERATIONS UPDATES

Carbon Tetrachloride (Virginia Rohay)

We've been investigating the shallow (up to 115 feet deep) vadose zone to look for unknown sources of carbon tetrachloride (CCl₄). The results will feed into the second step of the investigation when we'll look deeper. We've been sampling soil vapor at known or suspected waste sites, along pipelines to the waste sites at a nearby burial ground, and we plan to look inside the Plutonium Finishing Plant (PFP) Protected Area later this month. Two different technologies were used, a GeoProbe (designed to sample to a depth of 25 feet) and a cone penetrometer. During the GeoProbe work along pipelines, the highest concentration detected was 4 parts per million (ppm) of CCl₄. During the cone penetrometer work around the waste sites, the highest concentration detected was 8 ppm CCl₄, and the deepest sample was from a depth of 70 feet.

We used a three-phase approach in the burial grounds. First, we sampled the vent risers. The highest concentration detected was 1,760 ppm of CCl₄ inside one trench. Then we sampled the vadose zone using the GeoProbe and detected CCl₄ at five of 12 locations. The highest concentration was 62 ppm at a depth of 12 feet near the vent riser with the elevated concentration. We went back using the cone penetrometer, and only got to about 30-35 feet depth. The highest concentration detected was 48 ppm at a depth of 10 feet at the same locations as the highest concentration sampled using the GeoProbe.

These results will all feed into a Data Quality Objective (DQO) process this fall. The deeper investigative work will be done in fiscal year 2004.

Enhanced Access Penetration System (Scott Peterson)

Recently, Applied Research Associates, Inc. (ARA) has been developing new tools for the cone penetrometer. Several modules have been developed, and they are developing a new one specifically for the 200 Area characterization. The first phase is taking the truck and marrying conventional drilling technology into it. They tested this about three weeks ago off-site and plan to go to 200 West Area during the last week of October. The idea is to push down until refusal is met. Then, pull the rods out and go down with the drilling system and casing to get through the place where refusal was met. Then, go with

cone penetrometer again. (Handout available upon request.)

This is being tested on-site in three weeks. If anyone is interested, we can arrange for a tour.

The second phase is to take a laser, use it on a wireline, and blast out material when refusal is met. Different types of lasers have been tested, as well as different powers and intensities.

The whole Enhanced Access Penetration system uses three technologies and gets to the subsurface better.

Science & Technology Field Work (Mark Freshley)

A Vadose Zone Transport Field study has been done. The site of the study is to the right of the site that Chris Murray investigated. (Handout available upon request.)

A subtask of this is to look at the numerical modeling. During FY03, our plans include conducting a transport to begin to get at more complex processes and to begin to model those.

Ecological Studies (Roger Dirkes)

The purpose of the Public Safety and Resource Protection Program is to assess on-site and off-site impacts of site operations on human health and the environment and to monitor the cultural and natural resources of the Hanford Site to evaluate impacts of its operations, determine compliance with applicable regulations, and assure protection of site resources. (Handout available upon request.)

Tank Farm Vadose Zone Project (Tony Knepp)

Drilling in the south end of the TX Tank Farm is complete. All three boreholes were drilled. The BP-BX-BY field report has been completed. The whole report is about 1,200 pages. A lot of work was done on the uranium and strontium-90 plume. We address the current tank leak issues and long-term risk.

Work will continue in T-TX-TY area.

All the run on control and the water testing for the entire site are completed. The potential for run-on is essentially eliminated.

We are accelerating preparation for C Farm and have processed all the background data to support that.

NOTES:

Groundwater Protection Program Web Site location: <http://www.bhi-erc.com/vadose>

If you have questions or comments, please contact Barbara Howard (509-373-3871), Alison Bryan (509-373-4456), or Shelley Switzer (509) 373-3847.

ATTACHMENTS:

1) Groundwater Protection Program Four Month Look Ahead Calendar

ATTENDEES:

Marty Bensky – HAB
Jane Borghese – FH
Wes Bratten – Vista Engineering
Bob Bryce – PNNL
Carl Connell – FH
Roger Dirkes – PNNL
Dennis Faulk – EPA
Mark Freshley – PNNL
Dib Goswami – Ecology
Edye Jenkins – GPP
Tony Knepp – CHG
Sandra Lilligren – Nez Perce
Doug Maddox – DOE-HQ
Fred Mann – CHG
Rick McCain – SMSTO
John Morse – DOE-RL
Ken Mosier – Vista Engineering
Scott Petersen – FH
Ted Repasky – CTUIR
Gordon Rogers – HAB
Virginia Rohay – CHG
Sue Safford – Oregon Office of Energy (by phone)
Brett Smith – Vista Engineering
Tom Stoops – Oregon Office of Energy (by phone)
Craig Swanson – FH
Dick Wilde – FH
Robert Yasek – DOE/ORP

GROUNDWATER PROTECTION PROGRAM CALENDAR
September 2002 to December 2002
FOUR-MONTH LOOK AHEAD CALENDAR

October 7	Groundwater Protection Program Open Meeting (1-3 p.m., Richland, WA)
October 16	Ecology Groundwater Meeting (1:30 p.m., Kennewick, WA)
November 4	Groundwater Protection Program Open Meeting (1-3 p.m., Richland, WA)
November 7-8	HAB Meeting (Tri-Cities, WA)
November 20	Ecology Groundwater Meeting (1:30 p.m., Kennewick, WA)
December 2	Groundwater Protection Program Open Meeting (1-3 p.m., Richland, WA)
December 5-6	HAB Meeting (Radisson Hotel, Portland, OR)
December 18	Ecology Groundwater Meeting (1:30 p.m., Kennewick, WA)