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SUBJECT GROUNDWATER/VADOSE ZONE INTEGRATION OPEN PROJECT MEETING -
JULY 19, 1999

TO Distribution

FROM Michael J. Graham, Groundwater/Vadose Zone Integration Project Manager

DATE July 27, 1999

ATTENDEES

See Attached List

DISTRIBUTION

Attendees
GW/VZ Distribution List
Document and Information Services H0-09

NEXT GW/VZ INTEGRATION PROJECT OPEN MEETING:

Next Meeting: Monday, August 2, 1999 – 1-3 p.m.
Location: Bechtel Hanford, Inc., Assembly Room (Badging Required)
Local Call-In Number: (509) 376-7411
Toll Free Call-In Number: (800) 664-0771

MEETING MINUTES:

A Groundwater/Vadose Zone (GW/VZ) Integration Project Open Meeting was held on July 19, 1999 in Richland, Washington, at the Bechtel Hanford, Inc. (BHI) Assembly Room.

FY00 DETAILED WORK PLAN (DWP) OVERVIEW:

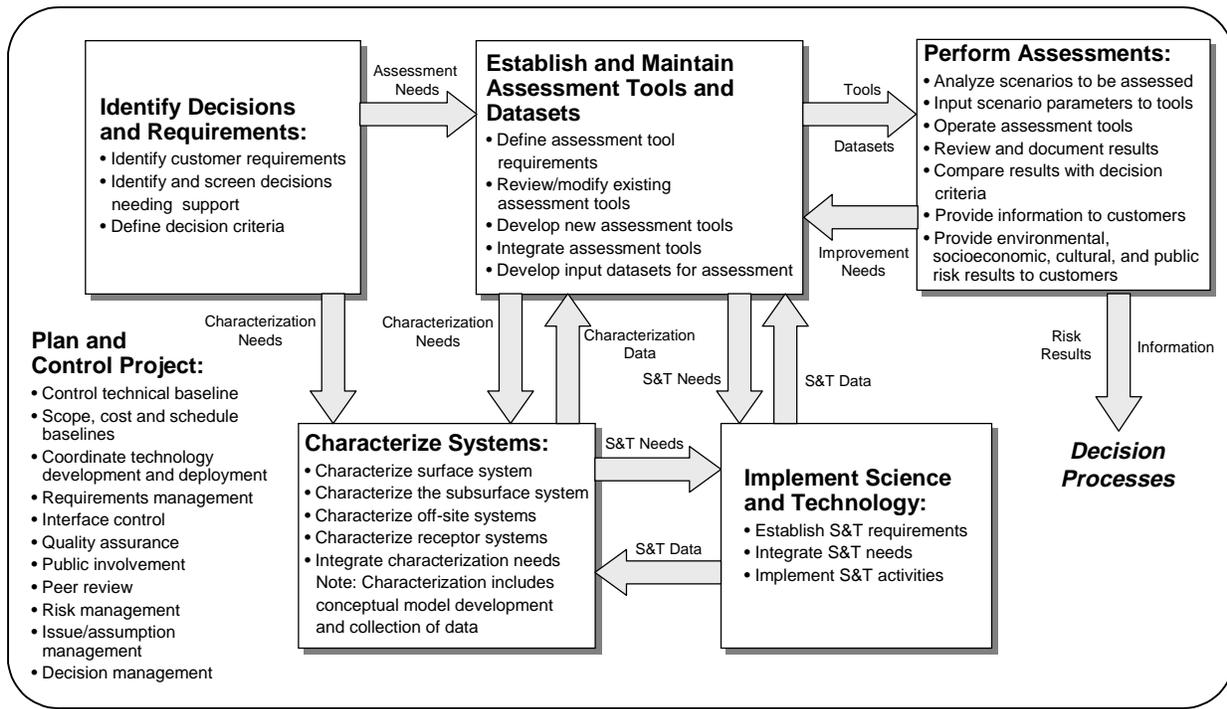
This following graphic is a level zero logic for the Project. It is how we are organizing our effort for planning Fiscal Year 2000 and beyond.

The left-hand side is identifying decisions and requirements, and planning and controlling of the project. These fall under Integrated Planning. This includes Peer Review, Public Involvement, Regulatory, and Systems Engineering.

Characterization of Systems is building the knowledge base for the technical elements of the job mining the existing data. It also includes Configuration Control, Data Management, and the Virtual Library.

The System Assessment Capability (SAC) is focused on developing the tools for assessment. They will derive from the knowledge base the information they need to run their assessments.

The Science & Technology (S&T) effort involves the S&T Roadmap and the execution and coordination of the project that support this effort.



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INTEGRATION PLANNING

Scope Purpose and Summary

- Integration Planning is the focus of the Integration Project level documentation and planning tasks. Additionally, it is the primary interface to the Hanford Site strategic planning and systems engineering.

Key Activities

- Activities relative to the project documentation include the updates of the Project Description Document, the Project Management Plan, the Cost and Schedule Baseline and the Long Range Plan.
- The strategic planning activities includes the Regulatory Path Forward Work Group, the Policy Work Group and interface with Hanford Site Strategic Planning.
- The systems engineering activities provide support to the Integration Project, the project activities of SAC, S&T and Characterization of Systems, and interfaces and ensures alignment with the Hanford Site SE.

Key Deliverables & Milestones

- Project Description Document (update)
- Project Management Plan (update)
- Baseline Cost and Schedule (update)
- Long Range Plan (update)
- Recommendations on Regulatory Integration
- Project Requirements Document
- Mission Analysis Report (update)

Question: On the System Engineering activities, I assume that you will capture Tank Waste Remediation System or Office of River Protection (ORP), and that it will be integrated?

Answer: The team consists of two Fluor Daniel Hanford (FDH) individuals and Jerry Davis. They are going back into the logic for the multiple decision points.

Question: Waste Management and their activities, is that also being looked at?

Answer: Yes, we are looking at Solid Waste's Environmental Impact Statement (EIS) and how that rolls in.

PEER REVIEW

Scope Purpose and Summary

- The purpose of peer review activities is to assure that the appropriate level of management and independent technical review is applied to all vadose zone, groundwater, and Columbia River work scope.
- The GW/VZ Expert Panel provides broad oversight, including merit and technical review, of the GW/VZ Project.
- Subpanels of the GW/VZ Expert Panel provide technical peer review for the GW/VZ Project.
- A National Academy of Sciences panel will focus on the science and technology component of the GW/VZ Project.
- Hanford Site projects use various forms of internal technical and peer review to ensure quality and technically sound products.

Key Activities

- 3 GW/VZ Expert Panel meetings are planned for FY00: January, April, and July 2000 (exact dates to be determined).
- 5 GW/VZ Expert Panel subpanel meetings are planned for FY00 (specific subpanels and dates to be determined).
- 3 National Academy of Sciences panel meetings are planned for FY00: 1 panel working session offsite and 2 meetings at Hanford (exact dates to be determined).
- Hanford Site project peer review activities are included in the work scopes for the individual projects (for example, the System Assessment Capability).

Key Deliverables & Milestones

- 3 GW/VZ Expert Panel reports will be submitted, one following each of the FY00 meetings.
- 5 GW/VZ Expert Panel subpanel reports will be submitted, one following each of the FY00 meetings.

PUBLIC INVOLVEMENT

Scope Purpose and Summary

- Maintain open, accessible project participation program so that:
 - Public, regulator, Tribal Nation, State of Oregon and stakeholder values are given maximum consideration in decision-making processes

- Working relationships are productive
- Project participants are informed and educated

Key Activities

- Conduct open project team meetings
- Maintain comprehensive project distribution list
- Review, coordinate public and Tribal National involvement products and issues with ER Project functions and DOE RL
- Conduct Project-wide workshop
- Build relationships through regular communication and interaction
- Provide information to the Hanford Advisory Board as needed
- Develop, distribute project information including status updates
- Participate in technical exchanges

Key Deliverables & Milestones

- Conduct open project team meetings twice monthly
- Conduct one project-wide workshop
- Conduct quarterly offsite status meetings with key groups
- Update, maintain project distribution list
- Update project fact sheet and develop display

Question: Are you integrating with the Office of River Protection? They have a Public Involvement Ad Hoc Committee starting and the same issues are coming out there. As part of integration it might be useful to have some interface with that group.

Answer: We are having discussions with Keith Klein on the interfaces with ORP. We have pushed Dick French for answers and we haven't heard anything concrete as yet.

Question: Is this committee with the HAB?

Response: It could related to the HAB, but it is still an ORP oversight and it is important that the Integration Project has interface.

Question: Last week in the SAC Meeting Bruce Napier had a database on what will be developed in characterization, will that be available on the web?

Answer: Yes. This probably comes under Bruce Ford's databases and what will be developed in characterization will be available on the web.

CHARACTERIZATION OF SYSTEMS

Scope Purpose and Summary

- Characterization Integration manages:
 - the development of consistent, technically-defensible configuration controlled site conceptual models, and

- the coordination of vadose, groundwater, and Columbia River field characterization
- The goal is to provide products that are (T₂R₃)
 - traceable
 - transparent
 - reviewed
 - reproducible
 - retrievable

Key Activities

- Conceptual Model Development
 - Define model boundaries and interfaces Develop and document technical understanding for key features, events, and processes (FEPs)
 - Review and revise site conceptual model(s) using FEPs and an integrated system approach
 - Perform technical reviews at key points in process
 - Provide recommendations for S&T and field characterization activities
- Characterization Coordination
 - Coordinate with site projects, S&T, and SAC to identify characterization activities and needs
 - Provide recommendations for improved efficiency in characterization
 - Identify unfunded characterization scope and recommend the appropriate project to perform
 - Participate and sponsor Data Quality Objectives
 - Fund characterization scope that is necessary to support SAC needs that are not provided by projects

Key Deliverables & Milestones

- Configuration - controlled database containing the technical understanding of key features, events, and processes
- Configuration - controlled site conceptual model(s) available through the internet
- Coordinate schedule of field characterization needs and activities

Question: Can you give us an example of SAC needs that are not provided by the projects?

Answer: We have talked about some of the characterization data on the Columbia River. Columbia River monitoring doesn't have these data needs in its scope, but we recognize that we need to do that and will work to get it funded.

This is driving towards a site specific model. A place to go to get data. Currently, there is not a single Hanford Site baseline for the subsurface baseline, and this is a step to get that locked down so the SAC can go there and get the information they need to develop tools.

Question: What drives priorities to determine what data you need and to determine the void? In Bruce Napier's study, where is that and is there anything we have learned that is driving our characterization? Who is looking at past and current data to set near and long-term data gathering?

Answer: That is done under this work and data mining will take place in this scope. Bruce is a starting point for inventory. Terri has some S&T needs that will feed the inventory database.

Question: There are things I want to hear and I'm not hearing them. The idea of impact being computed someplace. If the impact is high about a contaminant, are there any dominant parameters emerging for the analysis from the past that is going in now to drive the process?

Answer: The scoping study identified ten radionuclides and chemicals that pass through the screen which were identified to look at. Those are the things that would dominate from an inventory process. Also, we are looking at what conceptual models will be used for, what we have learned, and where does that lead us to in SAC Revision 0. Right now we are in the process of reviewing those document. They will set the stage for looking at the past and identifying where to go from here.

Just as important as what is dominant is those things that aren't, and determining what we can take off our list.

Question: Each of these things will be completed by September 2000?

Answer: This is not a commitment, we are just sharing an initial thought.

Question: Dominant transport contaminants, what about impact related, have you intended to look at it toxicologically?

Answer: Screens were set-up to look at simplistic contaminants and looking at a series of impact scenarios (Columbia River Comprehensive Impact Assessment, Cultural, etc.), through the entire process to impacts, in order to narrow and screen things down.

Question: So you are looking at more than transport?

Answer: Absolutely.

DATA CONFIGURATION

Scope Purpose and Summary

- Provide high quality, traceable, consistent, retrievable, and defensible data and/or information from the GW/VZ Integration Project to aid in Department of Energy-Richland Office (DOE-RL) decision making
- Accomplish this goal by adapting or modifying existing configuration control systems, protocols, and databases whenever possible to avoid unnecessary expenditure of funds and duplication of resources

Key Activities

- Internet Based GW/VZ Virtual Library (full public access)
- GW/VZ Quality Assurance Plan and Protocols
- GW/VZ Relational Databases (e.g., Issues Management, Features, Events and Processes)

- GW/VZ Integration Project, Configuration Control Position Papers

Key Deliverables & Milestones

- GW/VZ Virtual Library Phase I FY00, Phase II FY01, and Phase III FY02
- Issues, and Features, Events and Processes (FEPs), and Data/Parameter Databases FY00
- GW/VZ Protocols FY00
- Implement Control Systems FY00

Question: In developing a defensible database you will reach a point where someone says, "We don't have human data, but we have information on fruit flies, will that do the job?" Are you thinking ahead to where the data isn't good enough and you can't get new data and you don't have agreement from the stakeholders?

Answer: That is the reason we are putting out these processes so that they have a peer review process to develop the rationale.

Question: I just wanted to be sure that you understand the nature of the problem, and to warn you that there will be stormy seas ahead.

Comment: It appears that the FEPs database is a duplicate effort, if you look at the information provided it sounds like you have two databases whose purposes are the same in two different activities, one in characterization and one in data management. Please clarify why they are different.

Response: They are two separate databases. One is where you track issues and their resolution/status, and another is to maintain data.

Comment: Well right now it is confusing. You need to explain the differences.

GROUNDWATER MANAGEMENT

Scope Purpose and Summary

- Perform interim remedial measures for selected contaminant plumes to hydraulically control, to the extent practical, the plumes
- Perform long-term monitoring of the Hanford Groundwater to evaluate site-wide impacts and maintain compliance with regulatory requirements (e.g., Resource Conservation and Recovery Act of 1969, transfer, storage and disposal Monitoring)

Key Activities

- Operate and maintain Pump & Treat Systems in the 100 Areas to mitigate the flux of Cr⁺⁶ and Sr into the River
- Implement innovative technology at 100-D Area
- Operate and maintain Pump & Treat System in 200 West Area to contain the 2000 to 3000 ppb The carbon tetrachloride plumes
- Perform routine groundwater monitoring & evaluation

- Development of the Consolidated Groundwater Model
- Perform vadose and seismic monitoring
- Perform well drilling, maintenance and abandonment

Key Deliverables & Milestones

- Operate systems at 90% availability
- Install up to 20 wells for In Situ Redox Manipulation (ISRM) Barrier
- Prepare annual Groundwater Monitoring Report
- Issue 4 Groundwater Quality Assessment Reports
- Issue Quarterly RCRA Letter Reports

Question: Has anyone solved the problem of capital equipment for future wells.

Answer: No, we have to work that through the DWP process. Right now we don't have the budget necessary. That is a Hanford issue that will need to be addressed.

GROUNDWATER MONITORING

Scope Purpose and Summary

- Scope
 - Integrate site-specific and site-wide assessments of groundwater quality on the Hanford Site through groundwater sampling and analysis and computer modeling
 - Perform vadose zone monitoring at selected priority sites to determine if vadose zone contamination is migrating to groundwater.
 - Maintain a seismic monitoring network to quantify the location and nature of seismic events in the Hanford region.
- Purpose
 - Monitor and assess past, current, and future waste disposal and remedial actions on groundwater quality
 - Comply with regulatory dictated groundwater monitoring
- Summary
 - Provide site service groundwater, vadose zone, and seismic monitoring

Key Activities

- Groundwater Monitoring
 - Includes all necessary activities to plan monitoring networks, collect and analyze groundwater samples, manage resulting data from receipt to entering data into databases, Interpreting and reporting the significance of the those data, development and documentation of innovative monitoring technologies, and hydrologic assessment
- Seismic Monitoring
 - Operate and maintain a 41 station seismic monitoring network and a 6 station strong motion accelerometer network; collect, store, and interpret the resulting data; document results; support emergency response system as needed
- Vadose Zone Monitoring

- Perform Vadose Zone Monitoring (spectral gamma and neutron) to evaluate vadose contamination on groundwater quality, provide vadose zone input to Hanford Site Environmental Report
- Groundwater Modeling
 - Continue refinements to the consolidated Hanford groundwater model in accordance with Peer, regulator, stakeholder, and tribes reviews
 - Complete Composite Analysis (CA) and CA Maintenance Plan
 - Maintain model configuration control
- Well Drilling Support
 - Provide technical direction, coordination/oversight for RCRA and Atomic Energy Act installations such as DQOs, well design requirements, well locations, and sample and data collection
 - Prepare borehole completion reports
 - Accept wells for use in monitoring; prepare completion notification to Tri-Party Agreement Office

Key Deliverables & Milestones

- Seismic Monitoring
 - Annual Seismic Monitoring Report for Calendar Year 1999 - 12/31/99
 - Fully operational seismic and Strong Motion Accelerometer networks - continual
- Vadose Zone Monitoring
 - Complete site-specific monitoring plan - 3/31/00
 - Complete field logging - 7/30/00
 - Complete FY00 Logging Report - 9/30/00
- Groundwater Modeling
 - Complete responses to Department of Energy-Headquarter (DOE-HQ) review of CA - 9/30/00
 - New operational workstation including hardware/software - 1/1/00
 - Complete testing of groundwater model to steady-state and transient conditions - 6/30/00
 - Report documenting inverse calibration of current and one alternate conceptual models - 9/30/00
- Groundwater Monitoring
 - Annual groundwater monitoring report - 3/1/00
 - Background groundwater monitoring report - 3/1/00
 - RCRA quarterly reports - 10/29/99; 1/28/00; 4/28/00; 7/29/00
 - Revise purgewater implementation list - 11/30/99; 5/31/00
 - Hanford Site water table map for March 2000 - 7/31/00
- Well Installation
 - DQO Report on well selection and data needs - 12/31/99
 - Submit description of work for CY00 wells to BHI - 4/15/00
- Project Support
 - Complete DWP input for FY01 - 8/15/00
 - Complete website areal coverages for 300/Richland North and B-BX-BY areas - 9/30/00

Question: Are you going to look at the water level studies based on information and recommendation received from the Expert Panel?

Answer: We have looked at it in two ways. We have done model prediction in a specific site, and we have taken data and projected where it is going and the trends. We have put a base on that

which would basically say what the water level should decline to, based on pre-Hanford conditions. We should be able to have considerable time coverage for the new wells we are putting together.

Question: Seems like there is a lot of duplication.

Answer: Actually it isn't. The way things get done in SAC and Groundwater Modeling, requirements and coordination is done in previous tasks discussed and the scope is with Groundwater Modeling.

RIVER PROTECTION PROJECT

Scope Purpose and Summary

- Conduct field investigations leading to the selection of corrective measures at Tank Farms:
 - S-SX
 - B-BX and BY
 - T-TX and TY

Key Activities

- Finalize RCRA Facility Investigation/Corrective Measures Study Plan
- Characterize S-SX Tank Farm
 - Drilling
 - Cone penetrometer investigation
 - Geophysical investigation
 - Engineering study of the use of the caissons to help characterization
- Plan for characterization of B-BX-BY
- Implement Interim Corrective Measures in Tank Farms

Key Deliverables & Milestones

- M45-62 Submit to Ecology for review and approval as an agreement primary document a site specific SST WMA Phase 1 RFI/CMS Workplan Addenda for Waste Management Area S-SX (October 1999)
- M45-53 Submit to Ecology for review and approval as an agreement primary document a site specific SST WMA Phase 1 RFI/CMS Workplan Addenda for WMA B-BX-BY

Note: Each plan will generate TPA commitments. This is all in the planning stage and this is only an assumption of what we will be doing. Prioritization has not yet been done and will need to be done to finalize plans.

200 AREA ASSESSMENT

Scope Purpose and Summary

- Purpose: Characterize and cleanup the 200 Area contaminated soil sites

- Scope: Environmental Restoration Soil Sites; cribs, ditches, ponds, trenches, burial grounds, unplanned release sites located in and around the 200 Area. Includes approximately 700 soil sites grouped into 23 waste groups
- Summary: Implement the approach to assessment and remediation defined in the “200 Area Remedial Investigation/Feasible Study Implementation Plan.” Apply the analogous site concept to characterizing representative and RCRA TSD wastes sites. Data collection to support the evaluation of remedial alternatives. Coordinate soil operable units and tank farm activities

Key Activities

- Data Quality Objectives
- RI/FS Workplans/RCRA TSD Sampling Plans
- Remedial Investigations (Field Characterization)
- Remedial Investigation Reports
- Feasibility Study Reports/RCRA TSD Closure Plans
- Proposed Plans/Draft RCRA Permit Modification
- Record of Decisions

Tri-Party Agreement RI/FS Work Plan Milestones (M-13-00)

- 200 North Cooling Water Group Feb 99
- Gable Mountain/B-Pond & Ditches Cooling Apr 99

Water Group

- Chemical Sewer Group Aug 99
- U-Pond/Z Ditches Cooling Water Group Dec 99
- Uranium-rich Process Waste Group Apr 00
- General Process Waste Group Aug 00
- 1 Waste Group Dec 00
- 3 Waste Group Dec 01
- 3 Waste Groups Dec 02

Key Deliverables & Milestones

- M-15-00 12/31/2008 Complete the RI/FS (or RFI/CMS) process for all operable units.
- M-15-00C 12/31/2008 Complete all 200 Area Non-Tank Farm operable unit Pre-Record of Decision site investigations under approved work plan schedules.
- M-16-00 9/30/2018 Complete remedial actions for all Non-Tank Farm operable units.
 - Produces operable unit work plans and implement them at the rate of 3 per year and 5 RCRA TSD closure plans Work plans cause additional milestones
- M-20-00 2/28/2004 Submit closure/post-closure plans for all RCRA TSD units.
 - Establish post closure monitoring plans.

Tri-Party Agreement RCRA Closure/ Post-Closure Milestones (M-20-00)

- 216-A-10 Crib and 216-A-36B Crib - Oct 03
- 216-S-10 Crib and and Ditch - Feb 03
- 216-A-37-1 Crib - Dec 03

- 207-A Retention Basin - Dec 03
- 241-CX Tank System (Semi-works) - Feb 04

Question: Are the top two on the TPA slide already done?

Answer: Yes. The 200 North was taken care of by the 100 Area Group and was remediated. We are about ready to go in the field in August for Gable Mountain. That work plan is out right now for review.

The DWP is based on the existing milestones. We are in negotiation with the regulators to re-stack and reorder the milestones to coordinate with the River Protection Project (RPP) efforts. We are proposing to move up the two tank farm units and have the work plans done by August. It would require a TPA change, but it makes a lot of sense.

Question: I hear you reordering and defining cleanup actions?

Answer: No cleanup, this is all assessment. While we are assessing the site we want to do it in concert with RPP so that we share data.

SYSTEM ASSESSMENT CAPABILITY

Scope Purpose and Summary

- Design and perform a proof-of-principle demonstration of the System Assessment Capability (SAC Rev. 0), including
 - radioactive and hazardous chemical contaminants expected to dominate risk and impacts,
 - long-term migration and fate of contaminants from operational areas, (i.e., 100, 200, and 300 Areas),
 - quantification of uncertainty, and
 - broad suite of quantitative and qualitative risk and impact metrics.
- Initiate the design of a prototype assessment tool that will support site decisions (SAC Rev. 1)

Key Activities

- Design the proof-of-principle demonstration
- Assemble the data to be used
- Assemble the software, hardware and qualitative tools
- Predict contaminant distributions
- Perform Risk and Impact assessment
- Develop the specification for SAC Rev. 1

Key Deliverables & Milestones

- System Assessment Capability Rev. 0 Assessment Requirements, Design Specification, Verification and History Matching Test Plan and Required Analyses
- Interim Risk Characterization Report
- System Assessment Capability Rev. 1 Specification

Note: Test and Evaluation report for SAC Rev. 0 and final Risk Characterization Report will be drafted during FY00. Reviews and distribution will occur during FY01.

Question: I'm hearing that the final report is due in December. What is the timeframe for the background on that? Will it be earlier?

Answer: Yes.

SCIENCE & TECHNOLOGY

Scope Purpose and Summary

- Define and implement S&T Roadmap
 - Define and incorporate risk S&T
 - Coordinate ongoing and new S&T tasks
- Develop methodology for mass-balanced inventory
 - Carry out methodology for 4 waste site types
 - Incorporate uncertainty
- Conduct advanced science activities around contaminated vadose zone site sampling
 - Enhance understanding of key features, events, and processes for geochemistry, hydrology and hydrochemistry
- Collect data sets under controlled conditions at uncontaminated vadose zone sites to verify conceptual and numerical models
 - Understand vertical acceleration of water and contaminant migration
- Provide vadose zone contaminant transport model(s)
 - Incorporate new knowledge
- Enhance understanding of contaminant transport through the river bank impacting concentration and location of contaminants at key locations along the river.
- Create an improved understanding of primary response mechanisms for selected aquatic organisms
 - Determine biological transfer factors

Key Activities

- S&T Roadmapping
 - Conduct Risk S&T workshops
 - Conduct workshop on uncertainty for alternative conceptual models
- Soil Waste Inventory and Selected Models
 - Extend Hanford Defined Waste model with uncertainty incorporated
 - Develop models for Tc-99, I-129, and tritium
- Vadose Zone Transport Modeling
 - Prepare data packages for modeling challenges
 - Carry out modeling challenge
- Groundwater/River Interface Study
 - Enhanced conceptual model capturing key dynamics in the river storage bank
 - Conduct lab and field experiments to confirm key chemical and biological transformations
- Biological Fate and Transport

- Conduct lab studies to quantify kinetics of biological uptake of metals and radionuclides

Key Deliverables & Milestones

- S&T Roadmapping
 - Updated S&T Plan
 - Baseline S&T Roadmap
 - Updated Integrated S&T Needs
- Soil Waste Inventory and Selected Models
 - Inventory input to SAC Rev. 0 and Rev. 1
- Field Investigations at Representative Sites
 - Input to RPP Field Report(s)
 - Conceptual Models to SAC
- Vadose Zone Transport Field Study
 - Advanced Characterization Workshop
 - Integration of field and modeling activities
 - Input to SAC, RPP, and other S&T tasks
- Vadose Zone Transport Modeling
 - Letter report on beneficial model improvements, field experiments, and characterization data needs
 - Site-specific and site-wide vadose zone transport model
- Groundwater/River Interface Study
 - Enhanced conceptual and numerical models to SAC
- Biological Fate and Transport
 - Biological transfer factors to SAC

Question: You mentioned a mass balance study, what is in that?

Response: Scavenging waste, plant cooling water, chemical sewers, and surface spills.

Question: Where are you with regard to fate and transport?

Answer: We will put together a science coordination team, consisting of science people and the users. The lead will be Roger Dirkes. The focus is on biological transfer factors.

Question: Biological transfer factors, is it a literature search or lab studies?

Answer: The science coordination team will help us use past knowledge (literature) to focus laboratory experiments. That will be the step to take information to the SAC and identify adequate data available to move forward and provide input to Rev. 0.

Question: Have you put much thought into, or do you have a plan for incorporating regulator and stakeholder input into fate and transport studies?

Answer: We are assuming that the most efficient way to do that is to work in concert with the user program such as the SAC. We are assuming that we will obtain regulatory input through the SAC Work Group pathway.

Question: User program, who is that?

Answer: Those projects who will take the outcome of the S&T. The user is the core project that we will interface with to coordinate activities. We would like to coordinate the input with that program into the SAC so that we are coming along with one set of input. In this case, SAC is the user.

Question: Please clarify so that I understand this correctly. Going back to the S&T original chart, who is the customer? Is S&T primarily to work with assessment, or to work with core projects, or is it multiple customers?

Answer: Multiple customers. We work with who is going to use the information, and that can be both the core projects and/or the SAC.

Question: Who are the core projects?

Answer: 200 Area Assessments, Groundwater Remediation, Groundwater/Vadose Zone Monitoring, River Protection Project, Tank Farms, ILAW, and Columbia River Monitoring.

Question: When you say core project, is S&T a resource that maybe some other project may not be aware is a resource for resolving issues?

Answer: Yes. This is an evolution of thinking. I personally (Michael Graham) do not like the idea that core projects may be transient, that they will come and go, and you have to find the right interfaces and users. That makes it difficult to manage the interfaces. That is why we have moved to building the knowledge base and everyone feeds to that knowledge base. That way when a core project goes away we have still captured the information.

Comment: I'm trying to understand how this fits together. Feedback from Rev. 0 will go into Rev. 1. I am assuming that there will be feedback into the S&T from SAC Rev. 0.

Response: There are a number of places where feedback happens. One is through the Long Range Plan (LRP). As the SAC evolves through the Fall we will revise the LRP. Another is that we will feed S&T with new information about SAC development. One objective is to identify data needs and conceptual model needs to be provided for the SAC. At the end of Rev. 0 we will see how well we matched performance expectations and analyze what and where we need to improve.

Question: How does your budget look for the scope of work you have described? Are you optimistic?

Answer: Today we are optimistic. We have defined scope, however, we have not yet laid out the budget. As we start working the details and putting it together we will look for opportunities to eliminate overlaps.

Comment: Starting with the beginning slide, it would be helpful if we could see how it interfaces with these presentations. How about adding to this chart core projects and show the interfaces, as well as putting boundaries around the SAC.

Response: That has been done, we just didn't bring that slide with us.

UPCOMING EVENTS AND OPPORTUNITIES FOR PARTICIPATION:

(See attached Look Ahead Calendar)

NOTES:

GW/VZ Web Site location: <http://www.bhi-erc.com/vadose>

If you have questions or comments please contact Dru Butler (509-375-4669), Gary Jewell (509-372-9192), or Karen Strickland (509-372-9236)

ATTACHMENTS:

1) GW/VZ Integration Project Two Month Look Ahead Calendar

ATTENDEES:

Julie Atwood (BHI)	Moses Jarayssi (BHI)
Marty Bensky (Tri-Cities Caucus)	Tony Knepp (LHMC)
Marcel Bergeron (PNNL)	Fred Mann (FDNW)
Ed Berkey (Expert Panel)	Katie Makeig (SMS Inc.)
Merrick Blancq (DOE-RL)	David Olson (DOE-RL)
Bob Boutin (BHI)	Rich Pawlowicz (BHI)
Bob Bryce (PNNL)	Susan Pickering (SNL)
Amoret Bunn (PNNL)	Wade Riggsbee (YN)
Dru Butler (BHI)	Gordon Rogers (Tri-Cities Caucus)
Jerry Davis (PHMC)	Virginia Rohay (CHI)
John Erben (IT-GSSC)	Ron Smith (PNNL)
Owen Goodman (BHI)	Stan Sobczyk (NP-ERWM)
Dib Goswami (Ecology)	Terri Stewart (PNNL)
Michael Graham (BHI)	Karen Strickland (BHI)
Mary Harmon (DOE-HQ)	Peter Swift (WIPP)
George Henckel (BHI)	Mike Thompson (DOE-RL)
Doug Hildebrand (DOE-RL)	Arlene Tortoso (DOE-RL)
Dave Holland (Ecology)	John Williams (FDH)
Mike Hughes (BHI)	Tom Wintczak (BHI)
Dick Jaquish (WDOH)	Rob Yasek (DOE-RL)

ATTACHMENT 1

GW/VZ INTEGRATION PROJECT
JULY 19, 1999 – SEPTEMBER 20, 1999
TWO MONTH LOOK AHEAD CALENDAR

July 19	GW/VZ Open Project Team Meeting BHI Assembly Room – 1-2 p.m. (Contact: Dru Butler) Agenda includes a high-level preview of the GW/VZ FY00 Detailed Work Plan
July 19	GW/VZ Introduction of Features, Events, and Processes (FEPs) BHI Assembly Room – following Open Project Team Meeting (approx. 2 p.m.) Purpose: Informational introduction to the FEPs process
July 20-21	Western Governors Association Northwest Regional Technology Deployment Workshop – Richland – Volpentest HAMMER Training and Education Center
August 2	GW/VZ Open Project Team Meeting BHI Assembly Room – 1-3 p.m. (Contact: Dru Butler)
August 10	GW/VZ SAC Work Group Meeting – Risk Conceptual Models, Metrics, Critical Habitats – BHI Room 1B40 – 9 a.m.-Noon (Contact: Bob Bryce/Bob Boutin) Purpose: Obtain advice and consultation from regulators, stakeholders, and Tribal Nations on Risk Conceptual Model, Metrics and Critical Habitats and identify priorities for the SAC Rev. 0 analysis.
August 11	DWP Review with DOE-RL/HQ, Regulators, and BHI Management
August 16	GW/VZ Open Project Team Meeting BHI Assembly Room – 1-3 p.m. (Contact: Dru Butler)
August 25	GW/VZ SAC Work Group Meeting – SAC Rev. 0, Conceptual Model Implementation – PNNL EESB Snoqualmie River Room – 1-4 p.m. (Contact: Bob Bryce/Bob Boutin) Purpose: Obtain advice and consultation from regulators, stakeholders, and Tribal Nations on Conceptual Model Implementation for SAC Rev. 0. and identify priorities on the overall approach for the SAC Rev. 0 analysis.
September 9-10	Hanford Advisory Board Meeting Seattle – Radisson Hotel
September 15-17	GW/VZ Expert Panel Meeting BHI Assembly Room – Contact: Virginia Rohay Purpose and expectations to be determined by the Expert Panel
September 15-18	Energy Communities Symposium – Richland
September 16	HAB-ER Committee Meeting BHI Assembly Room – 9 a.m.-4 p.m.
September 20	GW/VZ Open Project Team Meeting BHI Assembly Room – 1-3 p.m. (Contact: Dru Butler)

PUBLIC COMMENT PERIODS

July 8 - August 6, 1999 – 200-CW-1 Operable Unit RI/FS Work Plan and 216-B-3 RCRA TSD Unit Sampling Plan (DOE/RL-99-07, Draft B) - Comments due to Bryan Foley

July 23 - August 23, 1999 - Proposed Plan for an Amendment of the Interim Remedial Action at the 100-HR-3 Operable Unite (DOE/RL-99-04)