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July 1, 1990
Final

Meeting Minutes Transmittal/Approval
 Unit Managers Meeting: 2101-M Closure Plan
 Federal Building, Room 402
 Richland, Washington

Meeting Held June 8, 1990

2101-M Closure Plan, Unit Managers' Approval

Clifford E. Clark
 Clifford E. Clark, DOE-RL, ERD

Date: 7/11/90

Megan E. Lerchen
 Megan E. Lerchen, Ecology

Date: 7/11/90

Joseph E. Thrasher
 Joseph E. Thrasher, WHC, Contractor Representative

Date: 7/11/90

PURPOSE: Monthly status report, see Attachment #3 for topics discussed.

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary of Discussion and Commitments
- Attachment #2 - Commitments/Agreements Status List
- Attachment #3 - Agenda for the meeting
- Attachment #4 - Attendance List
- Attachment #5 - Handouts



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Distribution:

M.J. Anthony DOE (A6-95)
J.D. Bauer WHC (B3-15)
S.A. Benfer SWEC (A4-35)
L.E. Borneman WHC (B2-19)
E.A. Bracken DOE (A6-95)
L.C. Brown WHC (H4-51)
R.M. Carosino DOE (A4-52)
C.E. Clark DOE (A6-95)
W.G. Cox WHC (S5-65)
C.J. Chow WHC (H4-56)
C. Defigh-Price WHC (B2-20)
D. Duncan EPA
K.R. Fecht WHC (H4-56)
C.J. Geier WHC (H4-57)
J. Goodenough DOE (A6-95)
J.D. Hoover WHC (H4-57)
G.S. Hunacut WHC
R.D. Izatt DOE (A6-95)
G.W. Jackson WHC (R2-29)
R.J. Landon WHC (B2-19)
R.E. Lerch WHC (B2-35)
M. Lerchen Ecology

H.E. McGuire WHC (B2-35)

L.L. Powers WHC (B2-35)
F.A. Ruck III WHC (H4-57)
K.R. Simpson WHC
J.E. Thrasher WHC (H4-21)

M. . Wasemiller WHC (H4-55)
S.A. Wiegman WHC (B2-19)

| ADMINISTRATIVE RECORD (2101-M) [Care of Susan Wray, WHC (H4-51C)]

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Attachment #1
Summary of Discussion

Agenda For July Unit Managers Meeting

DOE/WHC proposed that one of the agenda items for the July Unit Managers Meeting be a presentation of sampling statistics to be used for the establishment of background concentrations. The statistics will be applied to groundwater samples, soil samples, and the establishment of a health based background level for cleanup. If the agencies approve of this approach, it will be added into the Closure Plan. Ecology (Megan Lerchen) concurred that this would be an appropriate item for discussion at the next meeting.

Action Item # 1: WHC (Fred Ruck) will transmit to DOE (Cliff Clark) the draft of the agenda and the preliminary support background data by 6/29/91. DOE will transmit this information to Ecology two weeks before the July Unit Managers Meeting. Action Fred Ruck, Cliff Clark.

Statistical Methods

WHC (Jim Hoover and Charissa Chou) discussed the problems with comparing mean sample data with mean background values. They proposed and presented a logic flow diagram (Attachment #5) to be used in determining if individual sample data points are above mean background values. A discussion pursued on establishing what the background value would be, whether or not it would be "threshold-k" which was proposed by WHC. Ecology inquired about the use of background as "background mean + 3 standard deviation" which is used in the simulated high level radioactive waste. WHC commented that the "background mean + 3 standard deviations" was arbitrary and that they would like to use a value that could be quantified. Ecology asked if action would be taken in the case that individual sample data exceeded background values, WHC responded that environmental and health effects cleanup levels would be investigated at that point. WHC stated that if this method for determination of background and significant is accepted by the agencies, it will be incorporated into all of the Closure Plans. A more detailed discussion will take place at the July Unit Managers Meeting.

Issue of U.S. Testing

WHC (Fred Ruck) led the discussion on the use of US Testing data in the characterization of the site. WHC proposed to use the first set of samples as preliminary samples to be used as a screen with a second set of samples used to confirm the results of the first data set and fill in data holes. The determination of clean closure will be based on the new data. Ecology (Megan Lerchen) added that unless the new data shows that the original data is radically different, she suggests the original data be used, not disregarded.

Agreement: The first set of data analyzed by US Testing can be used if the second set of samples confirm the accuracy of the first.

QA/QC Approach

WHC (Jim Hoover) gave a presentation and led the discussion of WHC's new QC data spread sheet. An example of the spread sheet was handed out

and the layout was explained (using US Testing data on soil samples). The spread sheet displays the accuracy and precision of the analytes based on matrix spiked samples and surrogate spiked samples and lists the contract detection limits. A similar format will also be used for ground water results. The format allows for a quick visual inspection of the data and its quality. Ecology (Megan Lerchen) suggested that WHC contact the CERCLA groups so that all of the requirements for RCRA and CERCLA can be integrated into a standard format. WHC agreed to discuss the integration of the CERCLA and RCRA needs and the creation of a standard form.

WHC (Jim Hoover) commented that some of the organic analytes will not have the precision and accuracy information given. This is due to the fact that no spiked samples for those specific analytes were run. The values were taken from adjacent peaks from which spiked calibration samples had been run.

Ecology (Megan Lerchen) inquired if all of the columns in the table will be described in the text. WHC confirmed this statement.

Soil Sampling Plan

WHC (Mark Wasemiller) started the discussion on the pond sampling with a question to Ecology (Megan Lerchen) concerning the rationale for sampling the pond water. Ecology (Megan Lerchen) responded that Ecology wanted to see what water soluble contaminants were present in the water. WHC (Mark Wasemiller) commented that the pond was sampled approximately two years ago with the effluent sampling program. A check of the outfall pipe indicated that it was below the water surface of the pond, therefore, sampling the outfall means sampling the water in the pond. Resampling could be undertaken at the outfall to see if water chemistry changed over time. Ecology (Megan Lerchen) agreed that a second sample would be a good idea but suggested that it be collected farther away from the outfall and that the sample be used for the purpose of comparison.

Ecology (Megan Lerchen) requested to see a copy of the sampling plan that will be part of the Closure Plan. WHC (Mark Wasemiller) commented that a copy of the draft plan will be sent to Ecology but that this plan is separate from the Closure Plan. Ecology (Megan Lerchen) suggested that the draft Sample Plan be written so that it can be incorporated into the Closure Plan at a later date.

**Action Item #2: WHC will submit a copy of the sampling plan to Ecology.
Action Mark Wasemiller.**

WHC (Mark Wasemiller) continued the discussion of the proposed sampling plan and location of samples. He explained WHC's view that a systematic sampling plan may be more appropriate than a random sampling plan. Ecology (Megan Lerchen) agreed with this. WHC asked for guidance from Ecology on sampling the area around the outfall and Ecology (Megan Lerchen) commented that she would assume the outfall was the source point and would assume a radial concentration distribution around this point. WHC (Mark Wasemiller) suggested the approach of transecting across the pond and collecting a sample at the edge, in the center and one between the center and edge assuming a straight line concentration gradient between two points. Ecology (Megan Lerchen) commented that three or four points will not give enough information to explain varying concentrations. WHC (Mark Wasemiller) suggested dividing the pond into quadrants and collecting composite samples. WHC inquired as to how

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Ecology would respond to this approach. Ecology (Megan Lerchen) commented that she did not think this method would yield any more information. Ecology (Megan Lerchen) continued to say that Ecology is asking DOE/WHC to investigate the top soil layers at the bottom of the pond and asked how many points DOE/WHC was thinking about collecting. WHC (Mark Wasemiller) stated that this has not been determined to date, however, an estimate would be 10 to 12 samples down each arm of the pond for a total of 20 to 25 samples. Samples would be collected to a depth of two feet. Ecology (Megan Lerchen) stated that the location of the sample points chosen could be based on the outfall as the central point. She thought that 20 to 25 samples was too many and that fewer, well placed samples based on a effluent discharge point, would be more cost effective.

Proposed Indicator Constituent List/Parameters

WHC (Bill Cox) led the discussion on the subject with the comment that some of the analyte data that falls under characteristics did exceed the existing data. Also, some of the suspect data is associated with suspect lab QA/QC. This included the laboratory not following document procedure, exceeding holding times during runs, etc.

WHC (Mark Wasemiller) also commented that when the rainwater runoff ditch was sampled and the samples were sent in for analysis, the QA/QC was not sufficient. There is a need to confirm the results. One of the problems was that the holding times were exceeded.

Other

WHC (Fred Ruck) brought up the requirement of a cutoff date for new data in plans and reports. He suggested that data be received six months prior to the onset of the writing of the plan. Ecology (Megan Lerchen) stated that Ecology would like to see the new data not contained in the plan to be added in an appendix with a statement that this information has not been integrated into the report. DOE (Cliff Clark) commented that a formal method addressing this issue is now under discussion and a formal proposal will be forth coming. Ecology (Megan Lerchen) inquired as to the time table for the Closure Plan, Sample Plan etc. DOE (Cliff Clark) stated that a time line will be sent to Ecology, however, Ecology has not received it.

Action Item 2: DOE will send a letter to Ecology which will outline a proposed method to resolve the issue of the inclusion of new data in plans. Also included will be a proposed time schedule for the Closure Plan and Sample Plan.
Action Cliff Clark.

During the discussion on groundwater, Ecology stated that a demonstration that groundwater contamination levels were below applicable standards would be sufficient to show no impact. DOE/WHC asserted that E18-1 is the background well according to now data that will be presented later. This topic will be further discussed in the next Unit Managers Meeting.

Attachment #2

ACTION ITEM

COMMITMENTS/AGREEMENTS STATUS LIST

6-25-90:1 WHC (Fred Ruck) will transmit to DOE (Cliff Clark) the draft of the agenda and the preliminary support background data by 6/29/91. DOE will transmit this information to Ecology two weeks before the July Unit Managers Meeting. Action Fred Ruck, Cliff Clark.

NEW

6-25-90:2 WHC will submit a copy of the sampling plan to Ecology. Action Mark Wasemiller.

NEW

6-25-90:3 DOE will send a letter to Ecology which will outline a proposed method to resolve the issue of the inclusion of new data in plans. Also included will be a proposed time schedule for the Closure Plan and Sample Plan. Action Cliff Clark.

NEW

Agreement The first set of data analyzed by US Testing can be used if the second set of samples confirm the accuracy of the first.

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Attachment #3

2101-M Closure Plan Agenda
Unit Managers Meeting
June 8, 1990
Federal Bldg, Room 402

12:00 - 3:00

1. Statistical Methods
2. Preliminary Soil Sampling Plan
3. Proposed Indicator Constituent List/Parameters
4. QA/QC Approach
5. Agenda for July Meeting

Note: Agenda item #6 was added by Ecology at the start of the meeting.

6. U.S. Testing Data

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Attachment #4
Attendance List

<u>Name</u>	<u>Organization</u>	<u>Phone</u>
Stacey Benfer	SWEC	509-376-3217
Charissa Chou	WHC	509-376-5504
Cliff Clark	DOE/ERD	509-376-9333
Bill Cox	WHC	509-376-1978
Mike Gasser	SWEC	509-376-9830
James Hoover	WHC	509-376-2668
Gerald Hunacut	WHC	509-376-1673
Megan Lerchen	Ecology	206-438-3089
Fred Ruck III	WHC	509-376-9876
Reed Simpson	WHC	509-376-1097
Joseph Thrasher	WHC	509-376-9585
Mark Wasemiller	WHC	509-376-9808

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