

Superfund Records Center
SITE: Groveland wells
BREAK: 20.01
OTHER: 34246

Groveland Wells 1 & 2
(Operable Unit I -
Management of Migration)

NPL Site Administrative Record

Index

Compiled: May 29, 1991
Updated: August 14, 1991
ROD Signed: September 30, 1991

Prepared for

Region I
Waste Management Division
U.S. Environmental Protection Agency

With Assistance from

AMERICAN MANAGEMENT SYSTEMS, INC.

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Introduction

This document is the Index to the Administrative Record for the September 30, 1991 Record of Decision (ROD) for the Groveland Wells Numbers 1 & 2 National Priorities List (NPL) site Operable Unit I - Management of Migration. Section I of the Index cites site-specific documents and Section II cites guidance documents used by EPA staff in selecting a response action at the site.

The Administrative Record is available for public review at EPA Region I's Office in Boston, Massachusetts, and at Langley-Adams Library 183 Main Street, Groveland, Massachusetts 01834. *This Index contains confidential documents that are available only for judicial review. Although not expressly listed in this index, all documents contained in the Administrative Record for the September 30, 1988 Record of Decision (Operable Unit II - Source Control) are incorporated by reference herein, and are expressly made a part of the Administrative Record for the present operable unit (Operable Unit I - Management of Migration).* Questions concerning the Administrative Record should be addressed to the EPA Region I site manager.

The Administrative Record is required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA).

Section I

Site-Specific Documents

ADMINISTRATIVE RECORD INDEX
for the
Groveland Wells Numbers 1 & 2 NPL Site
(Operable Unit I - Management of Migration)
(ROD Signed: September 30, 1991)

3.0 Remedial Investigation (RI)

3.1 Correspondence

1. Letter from Robert J. Leger, EPA Region I to James R. Forrelli, NUS Corporation (February 17, 1989). Concerning transmittal of historical documents on the site.
2. Letter from Robert J. Leger, EPA Region I to David Roberts, Town of Groveland (June 13, 1989). Concerning an update on site progress and the request for a meeting with the Groveland Water and Sewer Commission.
3. Letter from Robert J. Leger, EPA Region I to Leo Downing, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
4. Letter from Robert J. Leger, EPA Region I to Dick Sciacca, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
5. Letter from Robert J. Leger, EPA Region I to Kurt Anderson, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
6. Letter from Robert J. Leger, EPA Region I to Janet Angelis, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
7. Letter from Robert J. Leger, EPA Region I to Carol Davies, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
8. Letter from Robert J. Leger, EPA Region I to F. John Osborne, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
9. Letter from Robert J. Leger, EPA Region I to Joan Searl, Town of Groveland (July 13, 1989). Concerning notification that the Remedial Investigation/Feasibility Study will begin in the summer and that a meeting has been scheduled with the Groveland Water and Sewer Commission.
10. Memorandum from Robert J. Leger, EPA Region I to Addressees (September 6, 1989). Concerning transmittal of the August 1989 "Final Work Plan," NUS Corporation.
11. Letter from Robert J. Leger, EPA Region I to Rosanna Sattler, Posternak, Blankstein & Lund (Attorney for Town of Groveland) (September 12, 1989). Concerning transmittal of the August 1989 "Final Work Plan - Supplemental Management of Migration," NUS Corporation.

3.1 Correspondence (cont'd.)

12. Letter from Robert J. Leger, EPA Region I to Kurt Anderson, Town of Groveland (September 26, 1989). Concerning the results of surface water sampling from the area south of Salem Street.
13. Letter from James R. Forrelli, NUS Corporation to John Carlton, Groveland Fire Department (December 18, 1989). Concerning notification that sampling will be done at the site.
14. Letter from James R. Forrelli, NUS Corporation to William E. Sargent, Groveland Police Department (December 18, 1989). Concerning notification that sampling will be done at the site.
15. Telephone Notes Between Jay Naparstek, Commonwealth of Massachusetts Department of Environmental Protection and James R. Forrelli, NUS Corporation (February 2, 1990). Concerning sampling to begin at the site.
16. Telephone Notes Between Jay Falcone, M. Anthony Lally Associates, Inc. and James R. Forrelli, NUS Corporation (February 6, 1990). Concerning the schedule of sampling at the site and the Mill Pond system data.
17. Letter from Patricia Rogers, Town of Groveland to Merrill S. Hohman, EPA Region I (February 7, 1990). Concerning transmittal of the attached:
 - A. Letter from David Roberts, Town of Groveland to Merrill S. Hohman, EPA Region I (January 22, 1990). Concerning restriction of development within the site.
 - B. Letter from David Roberts, Town of Groveland to Leo Downing, Town of Groveland (November 28, 1989). Concerning the recommendation that the Town of Groveland not sell part of the Stanfield Pit to William Angelini and Woody Cammett.
18. Telephone Notes Between Jay Falcone, M. Anthony Lally Associates, Inc and James R. Forrelli, NUS Corporation (February 9, 1990). Concerning the schedule of sampling at the site.
19. Telephone Notes Between Dave Blanchard, M. Anthony Lally Associates, Inc. and James R. Forrelli, NUS Corporation (February 12, 1990). Concerning the schedule of sampling at the site.
20. Letter from Robert J. Leger, EPA Region I to Dan J. D'Orazio, Groveland Machine Co., Inc. (February 13, 1990). Concerning transmittal of samples collected at well locations NUS-1 and NUS-2.
21. Telephone Notes Between David P. Argyros, A.W. Chesterton Co. and James R. Forrelli, NUS Corporation (February 16, 1990). Concerning the sampling of monitoring wells at the site.
22. Telephone Notes Between William Sargent, Town of Groveland Police Department and James R. Forrelli, NUS Corporation (March 8, 1990). Concerning notification that the seven day pump test will start soon.
23. Telephone Notes Between Jay Naparstek, Commonwealth of Massachusetts Department of Environmental Protection and Becky Cleaver, NUS Corporation (May 25, 1990). Concerning well logs for intercept wells 1G and 2G.
24. Telephone Notes Between Dick Ferrick, Town of Groveland and Becky Cleaver, NUS Corporation (June 11, 1990). Concerning notification that the Mill Pond Extraction System has been shut down for at least two weeks.
25. Telephone Notes Between Richard Willey, EPA Region I and James R. Forrelli, NUS Corporation (June 21, 1990). Concerning the second round of sampling.
26. Letter from Jim Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (August 20, 1990). Concerning the transmittal of the attached information to be discussed on the risk assessment.
27. Letter from Celina Harshman, Commonwealth of Massachusetts Division of Fisheries & Wildlife to Stephen S. Parker, NUS Corporation (August 21, 1990). Concerning rare species in the vicinity of the site.

3.1 Correspondence (cont'd.)

28. Telephone Notes Between Jeff Orient, NUS Corporation, James R. Forrelli and Steve Parker, NUS Corporation (August 23, 1990). Concerning division of the site for risk assessment purposes.
29. Telephone Notes Between Elaine McCoy, Town of Groveland and Steve Parker, NUS Corporation (September 4, 1990). Concerning records of private water wells in the town.
30. Letter from George D. Gardner, NUS Corporation to Diane Kelley, EPA Region I (September 27, 1990). Concerning transmittal of the September 1990 "Draft Risk Assessment Technical Memorandum," NUS Corporation.
31. Memorandum from Robert J. Leger, EPA Region I to attached list of Addressees (February 28, 1991). Concerning transmittal of the February 1991 "Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.

3.2 Sampling and Analysis Data

1. "Well Data Base for the Groveland Wells Site," EPA Region I (March 7, 1989).
2. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (July 5, 1989). Concerning transmittal of the attached preliminary tables reflecting changes to the work plan for the site.
3. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (December 18, 1989). Concerning transmittal of the attached "Task Modification Request" which addresses the sampling during drilling at the site.
4. "Final Sampling and Analysis Plan," NUS Corporation (December 1989).
5. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (January 29, 1990). Concerning transmittal of the attached results of field screening at the site.
6. Letter from John L. Falcone Jr., M. Anthony Lally Associates, Inc. to James R. Forrelli, NUS Corporation (February 7, 1990). Concerning transmittal of the attached Mill Pond Quarterly Discharge Monitoring Reports for April 1988 to December 1989.
7. Letter from Lucy Guzman, NUS Corporation to Karen Wedlock-Hunt, EPA Region I (February 23, 1990). Concerning data validation for water quality parameters.
8. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (March 7, 1990). Concerning transmittal of the attached "Groveland Wells Site Groundwater Field Screening."
9. Telephone Notes Between Jay Naparstek, Commonwealth of Massachusetts Department of Environmental Protection and Becky Cleaver, NUS Corporation (May 10, 1990). Concerning sampling results from the site.
10. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (May 16, 1990). Concerning the recommendation that a second round of groundwater samples be collected and the attached sampling tables.

The record cited as entry number 11 contains confidential business information and is withheld as CONFIDENTIAL.

11. "Work Plan Amendment Memorandum - Second Round Sampling," NUS Corporation (June 1990).
12. Comments Dated July 9, 1990 from Robert J. Leger, EPA Region I on the June 1990 "Work Plan Amendment Memorandum - Second Round Sampling," NUS Corporation.

3.2 Sampling and Analysis Data (cont'd.)

13. Cross-Reference: "Draft Pumping Test Technical Memorandum," NUS Corporation (August 1990) [Filed and cited as entry number 1 in 3.4 Interim Deliverables].
14. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (September 7, 1990). Concerning transmittal of the attached Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (August 30, 1990) regarding proposed groundwater modeling at the site.
15. Letter from Madeline Snow, Commonwealth of Massachusetts Department of Environmental Protection to Thomas Quinlan, Valley Manufactured Products Company, Inc. (October 17, 1990). Concerning the proposed revision of the monitoring and reporting program being implemented for the Mill Pond intercept system.
16. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (November 26, 1990). Concerning transmittal of the attached "Draft Groundwater Model Objectives Supplemental MOM RI/FS."
17. Memorandum from Robert J. Leger, EPA Region I to James R. Forrelli, NUS Corporation (December 13, 1990). Concerning the calibration/validation process for the "Groundwater Model Objectives Supplemental MOM RI/FS."
18. "Draft Work Plan Amendment No. 3 - Supplemental MOM RI/FS Groundwater Modeling," NUS Corporation (December 1990).
19. Comments Dated December 10, 1990 from Robert J. Leger, EPA Region I on the December 1990 "Draft Work Plan Amendment No. 3 - Supplemental MOM RI/FS Groundwater Modeling," NUS Corporation.
20. Letter from Rosanna Sattler, Posternak, Blankstein & Lund (Attorney for Town of Groveland) to Jay Naparstek, Commonwealth of Massachusetts Department of Environmental Protection (January 8, 1991). Concerning transmittal of the attached pumping data for Wells 1 and 2 for the Town of Groveland from 1974 through 1980.
21. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (January 14, 1991). Concerning the requested information on the "Groundwater Model Objectives Supplemental MOM RI/FS" and the following attachments:
 - A. "Meeting Summary - Computer Modeling Supplemental MOM RI/FS," NUS Corporation (December 20, 1990).
 - B. Memorandum from Richard Willey, EPA Region I to Robert J. Leger, EPA Region I (December 24, 1990).
22. Letter from David P. Argyros, A.W. Chesterton Co. to Robert J. Leger, EPA Region I (January 24, 1991). Concerning the transmittal of the attached 1989 and 1990 environmental sampling results for the Chesterton-Pandel site.
23. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (May 15, 1991). Concerning the attached RAS samples case number list, SAS chain of custody records, and field chain of custody records.
24. Memorandum from Pei-Fung Hurst, EPA Office of Research and Development to Robert J. Leger, EPA Region I (August 19, 1991). Concerning the carcinogenic assessment for 1,1-Dichloroethane.

3.2 Sampling and Analysis Data (cont'd.)

25. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (August 28, 1991). Concerning transmittal of the attached results of surface water samples taken from the site in June 1991 and the accompanying "Data Validation Sheets."
26. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (September 23, 1991). Concerning the analytical results for the residential well and surface water discharge samples and the attached "Table A: Comparison of Chemical Concentrations to Available Federal SDWA MCLs and Ambient Water Quality Criteria (ug/L)."
27. Chain of Custody Records, EPA Region I.
28. "Groveland Groundwater Modeling Results of Flowpath Model."
29. "Draft - Averaged TCE Concentration (ug/l)."
30. "Draft - Summary of Stream Aquifer Interactions in the Model Calibration and Validation Runs."
31. "Draft - Distribution of Residual Error in Drawdown."
32. "Draft - Flowpath Logbook for Data Set GL."
33. "Draft - Flowpath Logbook for Data Set GL P1."
34. "Draft - Calculation of Residual Error."
35. "Draft - Distribution of Residual Error in Water Elevation, No Pumping."
36. "Draft - Distribution of Residual Error in Water Elevation, Pumping."
37. "Draft - Summary of the Simulated Pumping and Infiltration Conditions."
38. "Draft - Map A: Bottom of Aquifer," NUS Corporation.
39. "Draft - Map B: Hydraulic Conductivity Distribution," NUS Corporation.
40. "Draft - Map C: Constant Head Conditions," NUS Corporation.
41. "Draft - Map D: Surface Water Conditions," NUS Corporation.
42. "Draft - Map E: Stream-Aquifer Interactions," NUS Corporation.
43. "Draft - Map F: Surface Recharge Areas," NUS Corporation.
44. "Average TCE Concentration (ug/l)."
45. "Simulation Domain and Boundary Conditions," NUS Corporation.
46. Site Sampling Maps, NUS Corporation.

Additional Sampling and Analysis Data for the Remedial Investigation (RI) may be reviewed, by appointment only, at EPA Region I, Boston, Massachusetts.

3.4 Interim Deliverables

Report

1. "Draft Pumping Test Technical Memorandum," NUS Corporation (August 1990).
2. "Draft Risk Assessment Technical Memorandum," NUS Corporation (September 1990).
3. "Draft Technical Memorandum #BIO-90-10," EPA Region I (October 18, 1990). Concerning RPB II analysis of Merrimack River Tributaries.

Comments

The record cited as entry number 4 is CONFIDENTIAL and available only for judicial review.

4. Comments Dated August 27, 1990 from Virginia de Lima, United States Department of the Interior on the August 1990 "Draft Pumping Test Technical Memorandum," NUS Corporation.

3.4 Interim Deliverables (cont'd.)

5. Comments Dated August 31, 1990 from EPA Region I on the August 1990 "Draft Pumping Test Technical Memorandum," NUS Corporation.
6. Comments Dated October 15, 1990 from Robert J. Leger, EPA Region I on the September 1990 "Draft Risk Assessment Technical Memorandum," NUS Corporation.

Responses to Comments

7. Response Dated September 6, 1990 from Jeff Orient, NUS Corporation to the Comments Dated August 31, 1990 from EPA Region I.

3.6 Remedial Investigation (RI) Reports

Report

1. "Remedial Investigation for the Groveland Wells Site - Groveland, Massachusetts - Volume I," NUS Corporation (June 1985).
2. "Remedial Investigation for the Groveland Wells Site - Groveland, Massachusetts - Volume II - Appendices," NUS Corporation (June 1985).
3. "Draft Supplemental Management of Migration Remedial Investigation Report," NUS Corporation (November 1990).
4. "Draft Supplemental Management of Migration Remedial Investigation Report - Appendices," NUS Corporation (November 1990).
5. "Supplemental Management of Migration Remedial Investigation Report," NUS Corporation (February 1991).
6. "Supplemental Management of Migration Remedial Investigation Report - Appendices," NUS Corporation (February 1991).

Comments

7. Comments Dated December 6, 1990 from Kenneth Finkelstein, United States Department of the Interior National Oceanic and Atmospheric Administration on the November 1990 "Draft Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.
8. Comments Dated December 13, 1990 from Cyndi Perry, United States Department of the Interior Fish and Wildlife Service on the November 1990 "Draft Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.
9. Comments Dated December 14, 1990 from Jay Naparstek, Commonwealth of Massachusetts Department of Environmental Protection on the November 1990 "Draft Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.
10. Comments Dated December 17, 1990 from Robert J. Leger, EPA Region I on the November 1990 "Draft Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.
11. Comments Dated March 29, 1991 from Cyndi Perry, United States Department of the Interior Fish and Wildlife Service on the February 1991 "Supplemental Management of Migration Remedial Investigation Report," NUS Corporation.
12. Letter from Martin C. Pentz, Nutter, McClennen & Fish (Attorney for Valley Manufactured Products Company, Inc. and Groveland Resources Corporation) to Mark Lowe, EPA Region I (June 3, 1991). Concerning the attached "Preliminary Comments on EPA Supplemental MOM RI: Source of Station No. 1 Contamination," Peter J. Riordan.

3.7 Work Plans and Progress Reports

Report

1. "Final Work Plan," NUS Corporation (August 1989).
2. Cross Reference: "Work Plan Amendment Memorandum - Second Round Sampling," NUS Corporation (June 1990) [Filed and cited as entry number 11 in 3.2 Sampling and Analysis Data].
3. Cross-Reference: "Draft Work Plan Amendment No. 3 - Supplemental MOM RI/FS Groundwater Modeling," NUS Corporation (December 1990) [Filed and cited as entry number 18 in 3.2 Sampling and Analysis Data].

Comments

4. Cross Reference: Comments Dated July 9, 1990 from Robert J. Leger, EPA Region I on the June 1990 "Work Plan Amendment Memorandum - Second Round Sampling," NUS Corporation [Filed and cited as entry number 12 in 3.2 Sampling and Analysis Data].

4.0 Feasibility Study (FS)

4.1 Correspondence

1. Memorandum from Robert J. Leger, EPA Region I to attached list of Addressees (July 15, 1991). Concerning the transmittal of the July 1991 "Supplemental Management of Migration Feasibility Study Report," NUS Corporation and the July 1991 Proposed Plan.

4.5 Applicable or Relevant and Appropriate Requirements (ARARs)

1. Cross-Reference: Comments Dated April 18, 1991 from Charles Tuttle, Commonwealth of Massachusetts Office of Environmental Affairs on Applicable or Relevant and Appropriate Requirements (ARARs) and the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation [Filed and cited as entry number 7 in 4.6 Feasibility Study (FS) Reports].
2. Cross-Reference: Response Dated May 20, 1991 from Robert J. Leger, EPA Region I on the April 18, 1991 Comments from Charles Tuttle, Commonwealth of Massachusetts Office of Environmental Affairs [Filed and cited as entry number 9 in 4.6 Feasibility Study (FS) Reports].

4.6 Feasibility Study (FS) Reports

Report

1. "Feasibility Study for the Groveland Wells Site - Groveland, Massachusetts - Volume I, NUS Corporation (August 1986).
2. "Feasibility Study for the Groveland Wells Site - Groveland, Massachusetts - Volume II - Appendices, NUS Corporation (August 1986).
3. "Supplemental Management of Migration Feasibility Study Report," NUS Corporation (July 1991).
4. "Supplemental Management of Migration Feasibility Study Report - Appendices," NUS Corporation (July 1991).

4.6 Feasibility Study (FS) Reports (cont'd.)

Comments

5. Comments Dated March 20, 1991 from Kenneth Finkelstein, U.S. Department of Commerce National Ocean and Atmospheric Administration on the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation.
6. Comments Dated April 2, 1991 from Cyndi Perry, U.S. Department of Labor Fish and Wildlife Service on the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation.
7. Comments Dated April 18, 1991 from Charles Tuttle, Commonwealth of Massachusetts Office of Environmental Affairs on Applicable or Relevant and Appropriate Requirements (ARARs) and the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation.
8. Comments Dated May 30, 1991 from Cyndi Perry, U.S. Department of the Interior Fish and Wildlife Service on the Draft Proposed Plan for the site.

Responses to Comments

9. Response Dated May 20, 1991 from Robert J. Leger, EPA Region I on the April 18, 1991 Comments from Charles Tuttle, Commonwealth of Massachusetts Office of Environmental Affairs.
10. Response Dated September 17, 1991 from Richard Cavagnero, EPA Region I on the March 20, 1991 Comments from Kenneth Finkelstein, U.S. Department of Commerce National Ocean and Atmospheric Administration [This letter is addressed to John Lindsay as a representative of the U.S. Department of Commerce National Ocean and Atmospheric Administration].
11. Response Dated September 17, 1991 from Richard Cavagnero, EPA Region I on the April 2, 1991 and May 30, 1991 Comments from Cyndi Perry, U.S. Department of Labor Fish and Wildlife Service.

4.9 Proposed Plans for Selected Remedial Action

1. "EPA Proposes Cleanup Plan to Address Groundwater Contamination at the Groveland Wells Nos. 1 and 2 Site," EPA Region I (July 1991).

5.0 Record of Decision (ROD)

5.1 Correspondence

1. Letter from Earl L. Sweetser, Town of Groveland to Robert J. Leger, EPA Region I (July 25, 1991). Concerning the request to extend the public comment period on the Proposed Plan for thirty days.
2. Letter from Martin C. Pentz, Nutter, McClennen & Fish (Attorney for Valley Manufactured Products Company, Inc. and Groveland Resources Corporation) to Robert J. Leger and Mark Lowe, EPA Region I (July 30, 1991). Concerning the request to extend the public comment period on the Proposed Plan until August 30, 1991.
3. Letter from Martin C. Pentz, Nutter, McClennen & Fish (Attorney for Valley Manufactured Products Company, Inc. and Groveland Resources Corporation) to Robert J. Leger, EPA Region I (September 9, 1991). Concerning the confirmation that comments on the Proposed Plan will be considered timely if received before 10:00 a.m. on September 10, 1991.

5.1 Correspondence (cont'd.)

4. Telephone Notes Between Robert J. Leger, EPA Region I and Steve Roble, Commonwealth of Massachusetts Division of Fish and Wildlife (September 17, 1991). Concerning the Commonwealth of Massachusetts Division of Fish and Wildlife's position on how the remedy described in the Proposed Plan will affect rare and endangered species.
5. Cross-Reference: Memorandum from M. Gretchen Muench, EPA Region I to Robert J. Leger, EPA Region I (September 20, 1991). Concerning Applicable or Relevant and Appropriate Requirements (ARARs) for inclusion into the Record of Decision and notification that the Commonwealth of Massachusetts will concur with the selected remedy [Filed and cited as entry number 2 in 5.2 Applicable or Relevant and Appropriate Requirements (ARARs)].
6. Telephone Notes Between Robert J. Leger, EPA Region I and Michael Amaral, U.S. Department of Labor Fish and Wildlife Service (September 27, 1991). Concerning the two federally listed endangered species and the effect the remedy described in the Proposed Plan will have on them.

5.2 Applicable or Relevant and Appropriate Requirements (ARARs)

1. Letter from Helen Waldorf, Commonwealth of Massachusetts Department of Environmental Protection to Robert J. Leger, EPA Region I (September 9, 1991) and the attached April 18, 1991 Letter from Charles Tuttle, Commonwealth of Massachusetts Office of Environmental Affairs to Robert J. Leger, EPA Region I. Concerning the identification of Applicable or Relevant and Appropriate Requirements (ARARs) for inclusion into the Record of Decision.
2. Memorandum from M. Gretchen Muench, EPA Region I to Robert J. Leger, EPA Region I (September 20, 1991). Concerning Applicable or Relevant and Appropriate Requirements (ARARs) for inclusion into the Record of Decision and notification that the Commonwealth of Massachusetts will concur with the selected remedy.

5.3 Responsiveness Summary

1. Cross-Reference: Responsiveness Summary is an attachment to the September 30, 1991 "Record of Decision," EPA Region I [Filed and cited as entry number 1 in 5.4 Record of Decision (ROD)].

The following citations indicate documents received by EPA Region I during the formal public comment period.

2. Comments Dated July 13, 1991 from Gverin E. Carlson on the July 1991 Proposed Plan.
3. Comments Dated July 31, 1991 from Linda M. Loreth, A. W. Chesterton Co. on the July 1991 Proposed Plan.
4. Comments from Kurt Goodwin on the July 1991 Proposed Plan (Received September 6, 1991).
5. Comments Dated September 6, 1991 from Rosanna Sattler, Posternak, Blankstein & Lund (Attorney for Town of Groveland) on the July 1991 Proposed Plan and the attached handwritten notes.
6. Comments Dated September 9, 1991 from Suzanne K. Condon and William C. Strohsnitter, Commonwealth of Massachusetts Office of Health and Human Services on the July 1991 Proposed Plan.

5.3 Responsiveness Summary (cont'd.)

7. Letter from Martin C. Pentz, Nutter, McClennen & Fish (Attorney for Valley Manufactured Products Company, Inc. and Groveland Resources Corporation) to Robert J. Leger, EPA Region I (September 10, 1991). Concerning the following attached comments on the July 1991 Proposed Plan:
 - A. "Comments on EPA Management of Migration Proposed Plan for the Groveland Wells Nos. 1 and 2 Site," Valley Manufactured Products Company, Inc. and Groveland Resources Corporation (September 10, 1991).
 - B. "Comments on EPA Management of Migration Proposed Plan for the Groveland Wells Nos. 1 and 2 Site - Appendices: Volume 1 of 2," Valley Manufactured Products Company, Inc. and Groveland Resources Corporation (September 10, 1991).
 - C. "Comments on EPA Management of Migration Proposed Plan for the Groveland Wells Nos. 1 and 2 Site - Appendices: Volume 2 of 2," Valley Manufactured Products Company, Inc. and Groveland Resources Corporation (September 10, 1991).

5.4 Record of Decision (ROD)

1. "Record of Decision," EPA Region I (September 30, 1991).

9.0 State Coordination

9.1 Correspondence

1. Cross-Reference: Comments Dated September 9, 1991 from Suzanne K. Condon and William C. Strohsnitter, Commonwealth of Massachusetts Office of Health and Human Services on the July 1991 Proposed Plan [Filed and cited as entry number 6 in 5.3 Responsiveness Summary].
2. Cross-Reference: Telephone Notes Between Robert J. Leger, EPA Region I and Steve Roble, Commonwealth of Massachusetts Division of Fish and Wildlife (September 17, 1991). Concerning the Commonwealth of Massachusetts Division of Fish and Wildlife's position on how the remedy described in the Proposed Plan will affect rare and endangered species [Filed and cited as entry number 4 in 5.1 Correspondence].

13.0 Community Relations

13.1 Correspondence

The list of addressees cited as an attachment to the record below is withheld as CONFIDENTIAL and is available only for judicial review.

1. Letter from Merrill S. Hohman, EPA Region I to the attached list of Addressees (March 19, 1991). Concerning notification that their property overlies the contaminant plume and that they are encouraged to participate in the selection of a remedy.

13.3 News Clippings/Press Releases

News Clippings

1. "EPA Study Done, Cleanup Can Begin," Daily News - Newburyport, MA (April 4, 1991).
2. "EPA: Well Cleanup Could Take Decade," The Haverhill Gazette - Haverhill, MA (April 4, 1991).
3. "The United States Environmental Protection Agency Invites Public Comment on the Feasibility Study and Proposed Plan for the Groveland Wells Nos. 1 and 2 Superfund Site in Groveland, Massachusetts and Announces the Availability of the Site Administrative Record," The Haverhill Gazette - Haverhill, MA (July 1, 1991).
4. "The U.S. Environmental Protection Agency Announces an Extension to the Comment Period for the Proposed Cleanup Plan at Groveland Wells Nos. 1 and 2 Superfund Site," The Haverhill Gazette - Haverhill, MA (August 15, 1991).

Press Releases

5. "Environmental News - EPA To Begin Investigation At The Groveland Wells Superfund Site," EPA Region I (November 22, 1989).
6. "Environmental News - EPA To Discuss Results of Groundwater Investigation for the Groveland Wells Nos. 1 & 2 Superfund Site at Upcoming Public Meeting," EPA Region I (March 22, 1991).
7. "Environmental News - EPA Proposes Groundwater \$8.6 Million Cleanup Plan for the Groveland Wells Nos. 1 & 2 Superfund Site," EPA Region I (July 2, 1991).
8. "Environmental News - Additional Sampling Added to EPA Proposed Cleanup at Groveland Wells Nos. 1 & 2 Superfund Site," EPA Region I (July 16, 1991).

13.4 Public Meetings

1. "Management of Migration Remedial Investigation Public Meeting Summary - Groveland Wells Nos. 1 and 2 - April 3, 1991."
2. Public Meeting Agenda, EPA Region I Public Meeting for the Groveland Wells Nos. 1 and 2 Site (April 3, 1991). Concerning the Supplemental Management of Migration Remedial Investigation.
3. EPA Region I Attendance List, Supplemental Management of Migration Remedial Investigation Public Meeting (April 3, 1991).
4. "Supplemental Management of Migration Feasibility Study/Proposed Plan Public Meeting Summary - Groveland Wells Nos. 1 and 2 - July 9, 1991."
5. Public Meeting Agenda, EPA Region I Public Meeting for the Groveland Wells Nos. 1 and 2 Site (July 9, 1991). Concerning the Supplemental Management of Migration Feasibility Study and Proposed Plan.
6. EPA Region I Attendance List, Supplemental Management of Migration Feasibility Study and Proposed Plan Public Meeting (July 9, 1991).
7. Transcript, Public Hearing on the July 1991 Proposed Plan (July 31, 1991).
8. Public Meeting Agenda, Commonwealth of Massachusetts Office of Health and Human Services Public Meeting for the Groveland Wells Nos. 1 and 2 Site (September 16, 1991). Concerning the health assessment process and health concerns associated with the site. The following are attachments:
 - A. "A Fact Sheet on the ATSDR Health Assessment Process," Commonwealth of Massachusetts Office of Health and Human Services.
 - B. "The Health Assessment Process," Commonwealth of Massachusetts Office of Health and Human Services.

13.5 Fact Sheets

1. "EPA Announces the Results of Remedial Investigation and Risk Assessment Studies," EPA Region I (March 1991).

16.0 Natural Resource Trustee

16.1 Correspondence

1. Cross-Reference: Comments Dated March 20, 1991 from Kenneth Finkelstein, U.S. Department of Commerce National Ocean and Atmospheric Administration on the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation [Filed and cited as entry number 5 in 4.6 Feasibility Study (FS)].
2. Cross-Reference: Comments Dated April 2, 1991 from Cyndi Perry, U.S. Department of Labor Fish and Wildlife Service on the February 1991 "Draft Supplemental Management of Migration Feasibility Study Report," NUS Corporation [Filed and cited as entry number 6 in 4.6 Feasibility Study (FS)].
3. Cross-Reference: Response Dated September 17, 1991 from Richard Cavagnero, EPA Region I on the March 20, 1991 Comments from Kenneth Finkelstein, U.S. Department of Commerce National Ocean and Atmospheric Administration [This letter is addressed to John Lindsay as a representative of the U.S. Department of Commerce National Ocean and Atmospheric Administration] [Filed and cited as entry number 10 in 4.6 Feasibility Study (FS)].
4. Cross-Reference: Response Dated September 17, 1991 from Richard Cavagnero, EPA Region I on the April 2, 1991 and May 30, 1991 Comments from Cyndi Perry, U.S. Department of Labor Fish and Wildlife Service [Filed and cited as entry number 11 in 4.6 Feasibility Study (FS)].
5. Cross-Reference: Telephone Notes Between Robert J. Leger, EPA Region I and Michael Amaral, U.S. Department of Labor Fish and Wildlife Service (September 27, 1991). Concerning the two federally listed endangered species and the effect the remedy described in the Proposed Plan will have on them [Filed and cited as entry number 6 in 5.1 Correspondence].

17.0 Site Management Records

17.2 Access Records

1. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (September 15, 1989). Concerning the attached "Properties Requiring Access for Fieldwork."

The maps associated with the record cited as entry number 2 are oversized and may be reviewed, by appointment only, at EPA Region I in Boston, Massachusetts.

2. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (September 21, 1989). Concerning transmittal of the attached property maps.
3. Memorandum from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (September 27, 1989). Concerning transmittal of the attached draft list of property owners.
4. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (October 18, 1989). Concerning the attached memorandum identifying specific properties where the monitoring wells will be drilled.
5. List of property owners and their addresses (October 18, 1989).

17.2 Access Records (cont'd.)

6. Letter from Merrill S. Hohman, EPA Region I to Benny Budrewicz (October 18, 1989). Concerning a request for property access and the attached Telephone Notes Between Benny Budrewicz and James R. Forrelli, NUS Corporation (December 14, 1989).
7. Letter from Merrill S. Hohman, EPA Region I to Frank and Charlotte Parker (October 18, 1989). Concerning a request for property access.
8. Letter from Robert J. Leger, EPA Region I to James R. Forrelli, NUS Corporation (December 6, 1989). Concerning attached list of people who have returned the "Consent for Access to Property."
9. Letter from Merrill S. Hohman, EPA Region I to Melita Hutchings (December 19, 1989). Concerning a request for property access.
10. Letter from Merrill S. Hohman, EPA Region I to Richard Madison. Concerning a request for property access and the attached "Consent for Access to Property" signed December 20, 1989.

The record cited as entry number 11 is CONFIDENTIAL and available only for judicial review.

11. Memorandum from Gregory M. Kennan, EPA Region I to File (January 19, 1990). Concerning use of unilateral Administrative Orders for access to residential property.
12. Telephone Notes Between Mrs. William Dennis and Becky Cleaver, NUS Corporation (July 2, 1990). Concerning sampling that was done on her property.
13. 32 Registered Mail receipts.

17.7 Reference Documents

The record cited as entry number 1 may be reviewed, by appointment only, at EPA Region I, Boston, Massachusetts.

1. "Technology Evaluation Report: SITE Program Demonstration of the Ultrox International Ultraviolet Radiation/Oxidation Technology," EPA Headquarters (January 1990).
2. "Groveland By-Laws Article 13, Section 1700, Aquifer Protection," Received from NUS Corporation September 5, 1990.
3. Letter from James R. Forrelli, NUS Corporation to Robert J. Leger, EPA Region I (July 31, 1991). Concerning the attached groundwater extraction and treatment system example.

Section II
Guidance Documents

GUIDANCE DOCUMENTS

EPA guidance documents may be reviewed at EPA Region I, Boston, Massachusetts.

General EPA Guidance Documents

1. "Protection of Wetlands (Executive Order 11990), Appendix D," Federal Register (Vol. 42), 1977. [C003]
2. U.S. Environmental Protection Agency. Guidance Manual for Minimizing Pollution from Waste Disposal Sites (EPA/600/2-78/142), August 1978. [2203]
3. "National Oil and Hazardous Substances Pollution Contingency Plan," Code of Federal Regulations (Title 40, Part 300), 1985. [C003]
4. "National Oil and Hazardous Substances Pollution Contingency Plan," Federal Register (Vol. 55, No. 46), March 8, 1990. [C003]
5. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Community Relations in Superfund: A Handbook (Interim Version) (EPA/HW-6), September 1983. [C017]
6. U.S. Environmental Protection Agency. Office of Ground-Water Protection. Ground-Water Protection Strategy (EPA/440/6-84/002), August 1984. [2403]
7. U.S. Environmental Protection Agency. Office of Solid Waste and Emergency Response. Guidance on Remedial Investigations under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) (EPA/540/G-85/002), June 1985. [C035]
8. U.S. Environmental Protection Agency. Office of Solid Waste and Emergency Response. Guidance on Feasibility Studies under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) (EPA/540/G-85/003), June 1985. [C034]
9. U.S. Environmental Protection Agency. Office of Waste Programs Enforcement. Endangerment Assessment Handbook, August 1985. [C025]
10. Memorandum from J. Winston Porter, U.S. Environmental Protection Agency Office of Solid Waste and Emergency Response to Addressees ("Regional Administrators, Regions I-X; Directors, Environmental Services Division, Regions I-X; Regional Counsels, Regions I-X, Director, Waste Management Division, Regions I, IV, V, VII, and VIII; Director, Emergency and Remedial Response Division, Region II; Director, Hazardous Waste Management Division, Region III; Director, Air and Waste Management Division, Regions II and VI; Director, Toxics and Waste Management Division, Region IX; Director, Hazardous and Waste Division, Region X") (OSWER Directive 9850.0-1), November 22, 1985 (discussing endangerment assessment guidance). [8000]
11. U.S. Environmental Protection Agency and Michigan Department of Natural Resources. Field Screening for Organic Contaminants in Samples from Hazardous Waste Sites, April 2, 1986. [2104]
12. U.S. Environmental Protection Agency. Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended October 17, 1986. [C018]
13. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Superfund Public Health Evaluation Manual (EPA/540/1-86/060, OSWER Directive 9285.4-1), October 1986. [5014]

14. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Draft Guidance on Remedial Actions for Contaminated Groundwater at Superfund Sites (OSWER Directive 9283.1-2), October 1986. [C022]
15. U.S. Environmental Protection Agency. Office of Water Regulations and Standards. Quality Criteria for Water 1986 (EPA/440/5-86/001), May 1, 1987. [4003]
16. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Draft Guidance on Conducting Remedial Investigations and Feasibility Studies under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act), March 1988. [C021]
17. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Interim Final Guidance on Conducting Remedial Investigations and Feasibility Studies under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act), October 1988. [C170]
18. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Superfund Exposure Assessment Manual (EPA/540/1-88/001, OSWER Directive 9285.5-1), April 1988. [5013]
19. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) (Interim Final) (EPA/540/G-89/004, OSWER Directive 9355.3-01), October 1988. [7002]
20. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites (EPA/540/G-88/003, OSWER Directive 9283.1-2), December 1988. [2413]
21. U.S. Environmental Protection Agency. Risk Reduction Engineering Laboratory. Technology Evaluation Report: SITE Program Demonstration Test Terra Vac In Situ Vacuum Extraction System - Volume I (EPA/540/5-89.003a) (April 1989). [C121]
22. Memorandum from Henry L. Longest II and Gerald Emison, EPA Headquarters to Addressees ("Regional Waste Management Division Directors; Regional Superfund Branch Chiefs; Regional Air Division Directors; Regional Air Branch Chiefs; OERR Division Directors; OAQPS Division Directors"), June 15, 1989 (discussing control of air emissions from air strippers). [3014]
23. U.S. Environmental Protection Agency. Office of Solid Waste and Emergency Response. Land Disposal Restrictions: Summary of Requirements, June 1989. [C123]
24. U.S. Environmental Protection Agency. Risk Assessment Work Group, Region I. Supplemental Risk Assessment Guidance for the Superfund Program (Draft Final) (EPA/901/5-89/001), June 1989. [C104]
25. Memorandum from Louis F. Gitto, U.S. Environmental Protection Agency Air, Pesticides, and Toxic Management Division, Region I to Merrill S. Hohman, Waste Management Division, Region I (OSWER Directive 9355.0-28), July 12, 1989 (discussing air stripper control guidance). [C110]
26. U.S. Environmental Protection Agency. Office of Solid Waste and Emergency Response. Risk Assessment Guidance for Superfund. Human Health Evaluation Manual Part A, July 1989. [C180]

27. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual (Part A - Interim Final) (EPA/540/1-89/002), December 1989. [C174]
28. "National Oil and Hazardous Substances Pollution Contingency Plan," Federal Register (Vol. 55, No. 46), March 8, 1990, p. 8666. [C003]
29. U.S. Environmental Protection Agency. Office of Solid Waste and Emergency Response. The Feasibility Study: Detailed Analysis of Remedial Action Alternatives (OSWER Directive 9355.3-01FS4), March 1990. [2019]
30. "A Field Evaluation of the UV/Oxidation Technology to Treat Contaminated Groundwater," HMC, March/April 1990. [C146]
31. "Control Technology: A Field Demonstration of the UV/Oxidation Technology to Treat Groundwater Contaminated with VOCs," Journal of the Air & Waste Management Association (Vol. 40, No. 4), April 1990, pp. 540-47. [C148]