



REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

October 5, 1989

Project No. 89029

Ms. Paula Fitzsimmons
Regional Project Manager
U.S. Environmental Protection Agency, Region I
ME & VT Superfund Section HPS-CAN1
J.F.K. Federal Building
Boston, MA 02203

Transmittal
Remcor Monthly Progress Report (No. 7)
September 1989
Focused Feasibility Study
Old Springfield Landfill Site
Springfield, Vermont

Dear Mr. Fitzsimmons:

In accordance with the Administrative Consent Order (ACO) effective March 13, 1989, Remcor, Inc. (Remcor) is pleased to provide this progress report for September 1989 to the U.S. Environmental Protection Agency (EPA). This report is submitted on behalf of our clients, Emhart Industries, Inc. (Emhart) and Textron Inc. (Textron). The activity during this reporting period has focused on drilling and well installation, completion of test boring in Waste Area 4, and sampling activities in the western outslope area.

During the period, Remcor has completed a significant portion of the test boring and shallow well installation program, completed the sampling of surface soils and subsurface soils at the western outslope area, initiated the drilling and installation of deeper monitoring wells, and completed the baseline and the activities phase quantitative air monitoring program.

Actual site subsurface conditions have necessitated some changes and an expansion of the drilling and well installation program which was proposed in the field sampling and analysis plan (FSAP). These changes have been brought to your attention and have received EPA approval.

Activity During September 1989

- During the September reporting period, Remcor performed the following drilling, well installation, and sampling activities at the site:

"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"

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Test Borings

Fourteen shallow test borings (RTB-5 through RTB-18) were drilled and continuously sampled within the former waste disposal areas. Temporary piezometers were placed in several of these boreholes to better define the relationship of shallow ground water and the waste deposits. In addition, a test boring was drilled and sampled at the location of proposed 38S. No well was installed due to a lack of saturated conditions within the shallow zone.

Fifteen subsurface soil samples from the test borings were sent to the laboratory for chemical analysis. This included one duplicate and three samples for total organic carbon (TOC) analysis.

Monitoring Wells

Monitoring wells 34S, 34B, 39S, 40S, 42S, 42T, 46S, and 47S were completed. 32S and 43S were nearing completion at the end of September. At location 49S, 4 piezometers were installed at selected depths to define water conditions within the sand, silt, and till occurring at this location. The actual installation of well 49S will occur later following the evaluation of these data.

Fifteen subsurface soil samples were sent to the laboratory for chemical analysis from the monitoring well drilling program. This included six samples for TOC analysis.

Test Pits

Five backhoe test pits were excavated along the toe of the western outslope. The pits were excavated to the depth of the shallow ground water zone and a total of four samples of soil and four samples of water were obtained from four of the test pits and submitted for laboratory analysis.

Surface Soils

Remcor collected six surface samples (including a duplicate) from the ravines located along the western outslope.

Potable Water

A sample from the potable water supply used for drilling was collected for laboratory analysis in accordance with the FSAP.

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Residential Well Sampling

No additional residential well samples were collected beyond those samples already obtained during August. Remcor did continue to attempt to contact Mrs. Charmaine Merrow and Mr. Leon Redeye for permission to sample their water supplies. Mrs. Merrow indicated that she was not interested in having her water tested, and Remcor has been unable to make contact with Mr. Redye, although a number of attempts have been made (registered mail, phone calls, visits).

Results for fecal coliform analyses performed on these samples have been received (Attachment). Fecal coliform analysis results for seep samples were also received (Attachment).

- On September 1, 1989, Remcor completed the installation of a six foot chain link fence around the office trailer, treatment system, and the decontamination pad. Installation of the fence was necessitated by Remcor's concerns for site security.
- On September 2, 1989, Aquatec Inc. (Aquatec) of Burlington, Vermont, under the supervision of Remcor, performed the baseline quantitative air monitoring sampling program. Remcor also directed Aquatec to collect an air sample from drilling location 39S to evaluate air quality for health and safety purposes.
- On September 5, 1989, Remcor prepared Revision 3 of the site Health and Safety Plan (HASP). This revision was developed to address the potential use of specific engineering controls and worker respiratory protection for the possible presence of vinyl chloride emissions from boreholes drilled in the former waste areas. This was necessitated by elevated organic vapor readings at MW39S located in former waste area 3.
- On September 6, 1989, Remcor, with assistance from the Town of Springfield, connected the site pretreatment unit to the sewer line via a 1-1/2 inch diameter discharge pipeline. The sewer line discharges directly to the Town's publicly owned treatment works (POTW). Remcor actually began discharging pretreated water to the sewer line on September 26, 1989. The flow is being metered in accordance with the Vermont Agency of Natural Resources (VTANR) and the Town of Springfield requirements.

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- During the first week of September 1989, Remcor evaluated bids to perform the geotechnical testing of subsurface soils. In accordance with the FFS Work Plan, bids were received from both the NUS and GZA laboratories. NUS was selected on the basis of responsiveness and cost.
- On September 21, 1989, Remcor transmitted a summary of the monitoring program to accompany the scope of work for the implementation of Operable Unit. No. 1 to the EPA.
- On September 22, 1989, Remcor reported to the VTAMR that, to that date, no discharge had occurred to the Springfield POTW from the pretreatment system.
- On September 22, 1989, Remcor provided the EPA with formal written documentation of approved modifications to FFS field activities.
- On September 27, 1989, the VTAMR revised and amended the 1272 discharge Order (No. 7-8905) which permits Remcor to discharge pretreated waters to the Springfield POTW. The changes included an extension of the expiration date until February 1, 1990, and that analytical monitoring will be based on accumulated flow volume rather than time.
- On September 27, 1989, Aquatec performed the activities phase of the quantitative air monitoring program coincident with test pitting on the western outslope and drilling in Waste Areas 2 and 4.
- Throughout the period, Mr. William Brandon, of Weston Geophysical Corporation, provided oversight of Remcor's field work on behalf of the EPA. Mr. Lou Horzampa, of EBASCO Services Inc., was on site September 27, 1989, also providing oversight on behalf of the EPA.

SUMMARY OF ENVIRONMENTAL SAMPLING/ANALYTICAL RESULTS RECEIVED

A Sampling and Analysis Schedule table has been attached to summarize samples collected to date for chemical analysis, as well as anticipated receipt of results from the analyzing laboratories.

During the reporting period, only results of fecal coliform analysis have been received from Aquatec. These results have also been summarized in an attached table.

"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"

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ACTIVITIES ANTICIPATED IN THE COMING MONTH

Drilling and monitoring well installation activities will continue with installation of the remaining bedrock and till wells. At the present time, we anticipate completion of well installation during November 1989.

Please feel free to contact us if you have any questions concerning this status report.

Respectfully submitted,

John George for
Scott J. McDougall
Project Coordinator

SJM:lgp
Attachments

cc: Ms. Linda Biagioni
Mr. Paul Duff
Barry Malter, Esquire
Daniel Squire, Esquire
John Parker, Esquire
Mr. Thomas Moye
Mr. William Brandon

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SAMPLING AND ANALYSIS SCHEDULE:
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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED	REQUIRED ANALYSES
R05-SP-001	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-002	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-003	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-003A	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-004	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-005	WATER	8/24/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-006	WATER	8/25/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SP-007	WATER	8/25/89	10/6/89	TCL VDAS, TCL METALS (TOTAL & DISSOLVED), TDS SULFATE, NITRATE, BICARBONATE, CHLORIDE
R05-SS-001	SOIL	8/23/89	8/31/89	TCL VDAS, BMAS, PCBS, METALS; TOC
R05-SS-003	SOIL	8/23/89	8/31/89	TCL VDAS, BMAS, PCBS, METALS; TOC
R05-SS-004	SOIL	8/24/89	8/31/89	TCL VDAS, BMAS, PCBS, METALS; TOC
R05-SS-005	SOIL	8/25/89	8/31/89	TCL VDAS, BMAS, PCBS, METALS; TOC
R05-SS-006	SOIL	8/25/89	8/31/89	TCL VDAS, BMAS, PCBS, METALS; TOC
R05-SS-032	SOIL	8/29/89	10/6/89	TCL VDAS, TCL METALS
R05-SS-036	SOIL	8/30/89	10/6/89	TCL VDAS, TCL METALS
R05-SS-037	SOIL	8/30/89	10/6/89	TOC

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED (2)	REQUIRED ANALYSIS
ROS-SD-001	SEDIMENT	8/22/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-002	SEDIMENT	8/22/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-002A	SEDIMENT	8/22/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-003	SEDIMENT	8/22/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-004	SEDIMENT	8/22/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-005	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-006	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-007	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-008	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-009	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-010	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-SD-011	SEDIMENT	8/23/89	10/10/89	TCL METALS & PCBs, TOC
ROS-RW-001	WATER	8/28/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED (2)	REQUIRED ANALYSIS
ROS-RW-002	WATER	8/28/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-003	WATER	8/28/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-004	WATER	8/29/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-005	WATER	8/29/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-005A	WATER	8/29/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-006	WATER	8/29/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-007	WATER	8/29/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-008	WATER	8/30/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-009	WATER	8/30/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-010	WATER	8/30/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-RW-011	WATER	8/31/89	10/10/89	TCL VOAS & METALS (TOTAL & DISSOLVED), TDS, SULFATE, CHLORIDE, NITRATE, BICARBONATE
ROS-SS-031	SOIL	8/28/89	10/10/89	TCL VOAS & METALS, TOC
ROS-SS-034	SOIL	8/29/89	10/10/89	TCL VOAS, BMAS, PCBS, METALS; TOC
ROS-SS-035	SOIL	8/29/89	10/10/89	TCL VOAS, BMAS, PCBS, METALS; TOC

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED	REQUIRED ANALYSIS
ROS-SS-007	SOIL	9/6/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-008	SOIL	9/7/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-009	SOIL	9/11/89	10/27/89	TOC
ROS-SS-010	SOIL	9/13/89	10/27/89	TOC
ROS-SS-011	SOIL	9/6/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-012	SOIL	9/7/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-013	SOIL	9/12/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-014	SOIL	9/12/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-015	SOIL	9/13/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-015A	SOIL	9/13/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-017	SOIL	9/14/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-022	SOIL	9/14/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-023	SOIL	9/14/89	10/27/89	TCL VDAS, BNAS, PCBS, METALS; TOC
ROS-SS-038	SOIL	9/7/89	10/27/89	TOC

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED	REQUIRED ANALYSIS
R05-SS-039	SOIL	9/12/89	10/27/89	TCL VOAS & METALS, TOC
R05-SS-040	SOIL	9/12/89	10/27/89	TOC
R05-SS-042	SOIL	9/7/89	10/27/89	TCL VOAS & METALS, TOC
R05-SS-076	SOIL	9/12/89	10/27/89	TOC
R05-S0-001	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-S0-001A	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-S0-002	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-S0-003	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-S0-004	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-S0-005	SOIL	9/12/89	10/27/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-SS-018	SOIL	9/18/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC
R05-SS-044	SOIL	9/18/89	11/6/89	TCL VOAS & METALS, TOC
R05-SS-046	SOIL	9/18/89	11/6/89	TOC
R05-SS-020	SOIL	9/21/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED	REQUIRED ANALYSIS
ROS-SS-024	SOIL	9/22/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC
ROS-SS-025	SOIL	9/22/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC
ROS-SS-047	SOIL	9/25/89	11/6/89	TOC
ROS-SS-048	SOIL	9/27/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC
ROS-SS-049	SOIL	9/27/89	11/6/89	TCL VOAS & METALS, TOC
ROS-SS-050	SOIL	9/27/89	11/6/89	TOC
ROS-SS-051	SOIL	9/29/89	11/6/89	TCL VOAS, BNAS, PCBS, METALS; TOC
ROS-TP-001	SOIL	9/26/89	11/6/89	TCL VOAS & METALS
ROS-TP-002	SOIL	9/27/89	11/6/89	TCL VOAS & METALS
ROS-TP-003	SOIL	9/27/89	11/6/89	TCL VOAS & METALS
ROS-TP-004	SOIL	9/28/89	11/6/89	TCL VOAS & METALS
ROS-TPW-001	WATER	9/26/89	11/6/89	TCL VOAS & METALS
ROS-TPW-002	WATER	9/27/89	11/6/89	TCL VOAS & METALS

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SAMPLE NO. (1)	MATRIX	DATE SAMPLED	DATE RESULTS EXPECTED	REQUIRED ANALYSIS
ROS-TPW-003	WATER	9/27/89	11/6/89	TCL VOAS & METALS
ROS-TPW-004	WATER	9/28/89	11/6/89	TCL VOAS & METALS

NOTES:

(1) SS = SUBSURFACE SOIL
SP = SEEP WATER
RW = RESIDENTIAL WELL
SD = SEDIMENT
SO = SURFACE SOIL
TP = TEST PIT SOIL
TPW = TEST PIT WATER

(2) METALS RESULTS WILL NOT BE AVAILABLE UNTIL 10/23/89 FOR THOSE SAMPLES DESIGNATED AS 10/10/89

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